



An Exelon Company

Richard G. Webster, Jr.
Vice President

Telephone 215.841.4000
Fax 215.841.6208
www.peco.com
dick.webster@peco-energy.com

PECO
Regulatory Policy and Strategy
2301 Market Street
S15
Philadelphia, PA 19103

February 1, 2017

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, Pennsylvania 17120

Re: PECO 2016 Fourth Quarter Reliability Report PUC Docket No. M-2016-2522508

Dear Secretary Chiavetta:

Enclosed is PECO's 2016 Quarterly Reliability Report for the period ending December 31, 2016 submitted pursuant to the Electric Service Reliability Regulations at 52 Pa. Code Chapter 57.

Because portions of the report contain sensitive and proprietary, PECO is filing two versions of the report, one public and one proprietary. PECO requests that the proprietary report, which has been separated and clearly marked with a "Confidential" header on each page, be kept confidential, pursuant to the Commission Order of March 20, 2006.

If you have any questions regarding this matter, please call me at 215-841-5777.

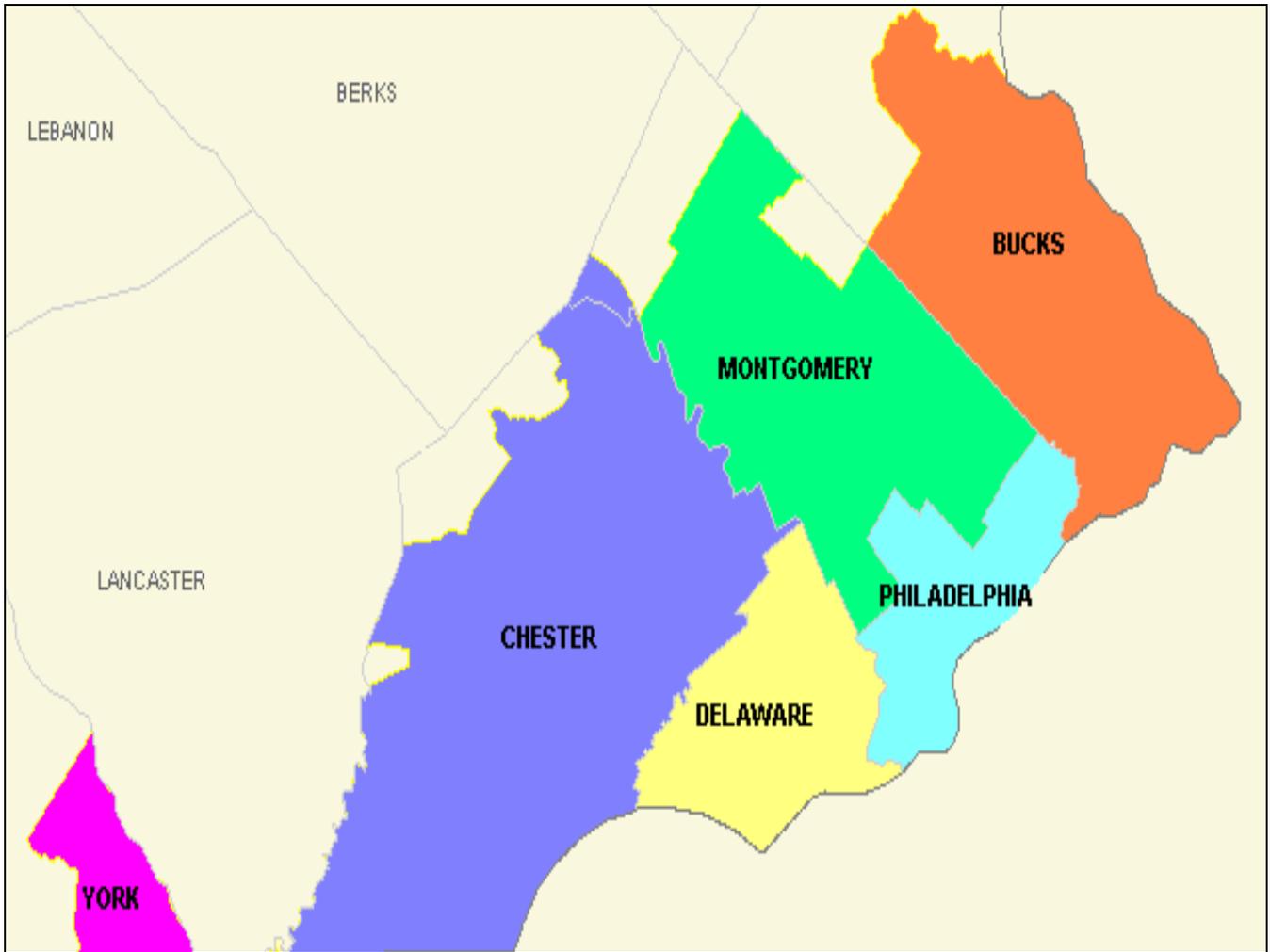
Sincerely,

A handwritten signature in black ink, appearing to read "RW" followed by a long horizontal flourish.

Enclosure

MPB/mec

PECO Energy Company Quarterly Reliability Report For Period Ending December 31, 2016



February 1, 2017

PECO Energy (“PECO”)

Quarterly Reliability Report for the Period Ending December 31, 2016 filed with the Pennsylvania Public Utility Commission.

Submitted per Rulemaking Re: Amending Electric Service, Docket No. M-2016-2522508 Reliability Regulations at 52 Pa.Code Chapter 57

Section 57.195(e)(1) *“A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.”*

PECO experienced no Major Events in the fourth quarter of 2016.

Section 57.195(e)(2) *“Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the EDC’s service territory for the preceding quarter. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer interruptions, the number of customers affected, and the customer minutes of interruption. If MAIFI values are provided, the report shall also include the number of customer momentary interruptions.”*

PECO *Customers	Sustained Customer Interruptions	Sustained Customer Hours	Momentary Customer Interruptions	Sustained Customer Minutes	SAIFI	CAIDI	SAIDI	MAIFI
1,623,365	1,623,883	2,860,536	932,692	171,632,179	1.00	106	106	0.57

**Customer Count reflects a reduction due to the removal of inactive customer accounts
Data reflects 12 months ending 12/31/2016.*

PECO Benchmarks and Rolling 12-Month Standards				
	SAIFI	CAIDI	SAIDI	MAIFI
Benchmark	1.23	112	138	N/A
Rolling 12-Month Standard	1.48	134	198	N/A

SAIFI, CAIDI and SAIDI are below their respective benchmarks and standards established on May 7, 2004. No benchmark or standard was established for MAIFI.

Section 57.195(e)(3) *“Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system. An explanation of how the EDC defines its worst performing circuits shall be included.”*

PECO’s worst performing 5% circuits were selected based on a weighted score combining customer interruptions, customer hours, SAIFI, SAIDI, and CEMI (Customers Experiencing Multiple Interruptions), due to outages on each circuit in a 12 month period. This measure is oriented toward contributions to system SAIFI, SAIDI and CAIDI, and local areas with high outage frequency or duration. In addition, circuits with a history of repeat appearance on worst performing lists were selectively included in the 5% list. Worst circuits and the rolling 12-month reliability index values requested are shown in Appendix A.

Section 57.195(e)(4) *“Specific remedial efforts taken and planned for the worst performing 5% of the circuits as identified in paragraph (3).”*

Remedial efforts taken or planned to date for PECO’s worst performing 5% of circuits are shown in Appendix B.

Section 57.195(e)(5) *“A Rolling 12-month breakdown and analysis of outage causes during the preceding quarter, including the number and percentage of service outages, the number of customers interrupted, and customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related, and so forth. Proposed solutions to identified service problems shall be included.”*

12 Months Ending December 31, 2016					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,403	10.10%	50,483	3.10%	3,393,774
Contact/Dig-In	111	0.80%	13,117	0.80%	862,607
Equipment Failure	5,179	37.50%	613,365	37.80%	58,131,881
Lightning	349	2.50%	43,707	2.70%	6,209,188
Other	1,600	11.60%	150,757	9.30%	9,358,741
T&S	15	0.10%	51,852	3.20%	2,159,681
Unknown	592	4.30%	48,261	3.00%	3,635,566
Vegetation-Broken/Uprooted	3,186	23.00%	456,643	28.10%	62,603,110
Vegetation-Ingrowth	1,023	7.40%	135,769	8.40%	19,897,853
Vehicles	373	2.70%	59,929	3.70%	5,379,778

*The data supplied is the number of interrupted customers for each interruption event summed for all events, also known as customer interruptions. A customer interrupted by three separate trouble cases represents three customer interruptions, but only one customer interrupted.

The largest contributors to customer interruptions were equipment failure and tree-related interruptions. The leading groups within the equipment failure category were aerial equipment and underground equipment. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (28.1% of all customer interruptions), as opposed to ingrowth (8.4% of all outage customer interruptions). PECO has continued to supplement its regularly scheduled vegetation management cycle with mid-cycle and 34 kV pruning programs and a hazard tree removal program.

Section 57.195(e)(6). “Quarterly and year to date information on progress toward meeting transmission and distribution inspection and maintenance goals /objectives” (For First, Second and Third Quarter reports only).”

No data required for fourth quarter report

Section 57.195(e)(7). “Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC’S own functional account code or FERC account code as available.” (For first, second and third quarter reports only.)

No data required for fourth quarter report

Section 57.195(e)(8). “Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures in total and detailed by the EDC’S own functional account code or FERC account code as available.” (For first, second and third quarter reports only.)

No data required for fourth quarter report

Section 57.195(e)(9). “Dedicated staffing levels for transmission and distribution operation and maintenance at the end of the quarter, in total and by specific category (e.g., lineman, technician and electrician).”

PECO’s full-time trade staff as of December 31, 2016 was as follows:

Aerial Lineman	392
Underground Lineman (Include UTS)	60
Transmission / Substation Mechanics, Operators	102
Energy Technicians	98
Aerial Foreman	63
Underground Foreman	17
Transmission / Substation Foreman	31
ET Foreman	5
	768

Contact Persons:

Rich Cornforth
Director, Engineering
(215) 841-5843

Richard.cornforth@peco-energy.com

Dick Webster
Vice President Regulatory Policy & Strategy
(215) 841-577

dick.webster@peco-energy.com

Appendix A

Rolling 12- month reliability index values for 5% worst performing circuits

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
AIRY_004	670	0.23	257	60	0	156	667	0
BALA_132	1507	1.07	128	137	0	1615	3445	0
BALA_135	1151	1.39	89	124	0.43	1601	2385	499
BELLEVUE_001	547	1.17	135	158	4.28	640	1439	2343
BELLEVUE_002	614	1.46	43	63	1.02	898	640	624
BELLEVUE_134	784	2.05	27	55	1.59	1606	720	1247
BETHAYRES_002	496	2.07	77	161	0	1029	1328	0
BETHAYRES_135	745	3.62	60	218	0.69	2698	2704	513
BRADFORD_346	2281	1.57	135	212	3.19	3580	8044	7279
BRYAN_002	362	4.16	154	640	0.03	1506	3863	11
BRYN_MAWR_144	1110	1.46	136	198	0	1617	3668	0
BUCKINGHAM_346	2687	0.16	303	49	0.98	439	2214	2624
BUCKINGHAM_351	1888	3.02	82	248	1.22	5697	7814	2297
BYBERRY_143	518	0.34	104	35	0	176	304	0
CALLOWHILL_131	2135	2.53	52	133	0.99	5402	4717	2114
CALLOWHILL_142	1375	3.01	73	220	1	4132	5032	1378
CANAL_000	171	4.49	84	376	0	768	1071	0
CHICHESTER_134	1896	0.67	56	38	0.34	1273	1194	652
CHURCH_003	562	1.17	743	873	0.05	660	8178	26
CLAY_343	1516	2.36	57	135	0.49	3572	3420	740
COLWYN_132	2314	0.79	41	33	0.01	1824	1256	22
CONCORD_351	1787	4.05	118	478	3.28	7241	14250	5853
COOPER_371	251	3.82	327	1247	0.45	958	5216	113
CROYDON_142	601	1.53	92	140	0.02	919	1406	10
DALEVILLE_342	646	4.79	154	738	1.84	3092	7945	1186
DAVISVILLE_004	805	0.02	20	0	2	17	6	1606
DAVISVILLE_007	641	1.24	41	51	1.24	794	544	794
DURHAM_005	516	2.23	80	178	0	1152	1530	0
DUTTON_001	866	3.04	47	141	0	2629	2040	0
EDDINGTON_138	764	1.13	38	43	0	865	549	0
EDGMONT_001	607	1.07	60	64	0	651	652	0
ELMWOOD_135	2876	1.46	41	59	0.59	4194	2841	1699
EMILIE_010	248	3.28	60	196	0	814	810	0
EMILIE_017	523	3.09	137	424	0	1614	3693	0
EMILIE_134	891	2.26	72	162	1.01	2013	2409	896
FALLS_343	428	0.43	296	127	0.32	183	904	136
FIN_002	417	0.4	168	66	0.5	165	461	210
FLINT_132	1114	0.85	108	91	0.46	942	1693	513
FLINT_143	518	1.09	83	90	0	564	778	0
FLINT_144	844	2.78	143	398	1	2346	5600	847
FLINT_147	154	0.64	335	213	0	98	547	0
GARDENVILLE_000	306	4.39	154	677	0	1344	3451	1
GLADWYNE_133	592	1.99	130	258	4.01	1179	2547	2373
HARMONY_001	339	1.11	231	257	1.14	377	1455	388
HARMONY_008	945	1.64	156	256	0	1551	4038	0

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
HEATON_136	1417	1.98	131	259	0.31	2808	6127	442
HEATON_142	628	0.6	186	112	0.04	377	1172	22
HEATON_163	935	0.15	165	25	0.04	141	387	36
JARRETT_135	569	2.18	109	238	0	1243	2261	0
JENKINTOWN_130	428	1.15	62	72	0.03	493	510	14
JENKINTOWN_135	942	1.48	109	162	0.01	1393	2536	9
JENKINTOWN_138	1856	1.16	106	122	0.54	2144	3784	1004
KEYSTONE_037	249	0	0	0	0.16	0	0	41
KING_135	393	0.89	30	27	0.19	351	178	73
KNOWLTON_001	327	0.36	335	121	0.04	118	660	12
KNOWLTON_003	434	3.71	120	447	0.46	1612	3235	198
LANE_002	740	1.27	78	100	0	943	1231	0
LENAPE_342	1831	2.16	55	119	1.31	3961	3640	2399
LENAPE_351	1719	5.62	104	587	3.91	9664	16830	6723
LESTER_003	603	0.01	126	2	0	8	17	0
LINE_131_00WO	543	1.08	163	176	2.94	588	1593	1598
LINE_2266	1	0	0	0	1	0	0	1
LINE_2675	1319	0.67	72	49	0	886	1068	0
LINE_3308NT	1196	3.82	115	438	0.7	4567	8725	839
LINE_3340	925	4.87	131	636	0.25	4506	9811	231
LINE_3500	206	0.94	352	330	0	193	1132	0
LINE_7500PB	2948	1.3	135	176	2.4	3846	8637	7065
LLANERCH_161	1200	3.74	166	621	1.76	4484	12413	2106
LOMBARD_042	128	3.58	65	231	0	458	493	0
MACDADE_133	1464	0.19	152	29	0	275	697	0
MACDADE_135	2136	0.05	117	6	0	106	206	0
MACDADE_139	2272	1.12	46	51	0.01	2535	1948	32
MACDADE_146	1893	0.06	68	4	0	111	126	0
MAIN_000	50	0.12	42	5	0	6	4	0
MAINLAND_000	368	1.19	76	90	0	439	554	0
MALL_025	74	1	827	827	0	74	1020	0
MIDDLETOWN_133	1441	1.26	167	212	0.45	1821	5082	643
MIDDLETOWN_143	1567	4.63	89	412	0.52	7249	10764	821
MIDDLETOWN_349	1966	3.88	78	303	0.42	7626	9944	833
MIDWAY_003	689	0.31	207	65	1	215	742	686
NESHAMINY_133	1065	0.44	265	116	0.04	468	2067	46
NEWLINVILLE_342	1985	3.14	58	183	2.9	6229	6058	5760
NEWLINVILLE_352	2295	2.27	55	125	1.38	5212	4794	3171
NEWTOWN_SQUAR_136	1264	5.06	137	695	3.78	6394	14634	4773
NEWTOWN_SQUAR_146	1261	2.36	387	914	1.5	2981	19211	1886
OVERBROOK_131	2995	0.85	26	22	0.63	2538	1111	1887
PARRISH_139	1168	0.1	177	18	0	119	350	0
PERKIOMEN_343	2549	1	81	82	0.8	2556	3465	2046
PIPER_000	366	5.21	68	355	1.01	1907	2164	370
PLYMOUTH_135	584	1.19	105	126	0	697	1225	0
PLYMOUTH_164	1335	0.55	142	78	0.68	730	1734	913
PULASKI_014	942	0.44	142	62	0.1	410	970	91
RADNOR_131	32	7.56	126	956	0	242	510	0
RICHMOND_144	1652	0.04	87	3	0.89	64	93	1467
SPRUCE_028	388	2.14	64	137	0	830	886	0
SPRUCE_029	433	3.41	99	338	0.12	1475	2438	54

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
SUNNYBURN_002	289	0.52	216	113	0	151	544	0
TABOR_135	2024	1.07	12	13	0	2157	443	0
TANGUY_000	306	3.27	121	394	0	1000	2012	0
TUNA_132	776	0.78	28	22	0	609	287	0
TUNA_142	1340	0.07	446	31	0.09	93	691	124
TUNA_143	752	0.26	107	28	0.34	193	345	254
UNIVERSITY_012	199	0.73	133	97	0.29	145	321	58
UPPER_DARBY_139	2324	0.71	88	63	0.49	1657	2422	1142
UPPER_MERION_351	2697	2.8	81	227	1.41	7556	10221	3790
WARMINSTER_006	425	1.43	241	346	1.01	609	2449	428
WARRINGTON_341	2275	2.31	38	88	1.39	5263	3321	3171
WASHINGTON_SQ_003	371	1.35	637	859	2.99	500	5309	1110
WAYNE_142	822	1.23	83	102	0.08	1015	1400	62
WAYNE_146	548	0.57	148	85	0.01	313	774	4
WORTH_000	271	1.07	183	195	0.97	290	882	264
WRIGHT_000	399	6.98	219	1532	0.06	2785	10186	22
YEADON_134	1769	0.07	97	7	0.05	132	214	90

The data supplied is the number of interrupted customers for each interruption event summed for all events, also known as customer interruptions. If a customer is interrupted by three separate trouble cases, they represent three customer interruptions, but only one customer interrupted.

Appendix B

Remedial efforts taken and planned for 5% worst performing circuits as of 12/31/16

AIRY_004

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Performed regularly schedule tree clearance

Completed reliability corrective workorders

Installed aerial cable

Planned:

Remedial efforts completed

BALA_132

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

BALA_135

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested / Inspected recloser operation

Planned:

Remedial efforts completed

BELLEVUE_001

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested / Inspected recloser operation

Planned:

Remedial efforts completed

BELLEVUE_002

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned

Remedial efforts completed

BELLEVUE _134

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Install additional fuses

Planned:

Remedial efforts completed

BETHAYRES_002

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

BETHAYRES_135

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Complete regularly scheduled tree trimming

Completed reliability corrective workorders

Inspected- tested recloser operation

Installed additional wildlife protection

Planned:

Remedial efforts completed

BRADFORD_346

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

BRYAN_002

York County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Replaced fuses

Replaced cable

Completed reliability corrective workorders

Upgrade cable insulation

Planned:

Remedial efforts completed

BRYN_MAWR_144

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Planned:

Remedial efforts completed

BUCKINGHAM_346

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional lightning protection

Installed additional wildlife protection

Planned:

Remedial efforts completed

BUCKINGHAM_351

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Installed transformer

Installed additional lightning protection

Installed additional wildlife protection

Planned:

Remedial efforts completed

BYBERRY_143

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Test inspect recloser operation

Planned:

Remedial efforts completed

CALLOWHILL_131

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspect selected areas of circuit for vegetation issues and corrected as needed

Replaced cable

Replaced lightning protection

Installed 3 phase recloser

Planned:

Remedial efforts completed

CALLOWHILL_142

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspect selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed transformer

Upgraded cable

Upgraded lightning protection

Installed additional fuses

Planned:

Remedial efforts completed

CANAL_000

Bucks County

Completed:

Inspected circuit and with thermographic camera

Inspect selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced lightning protection

Planned:

Remedial efforts completed

CHICHESTER_134

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

CLAY_343

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed switch

Test recloser operation

Planned:

Remedial efforts completed

COLWYN_132

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Reconfigure circuit

Planned:

Remedial efforts completed

CONCORD_351

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Test/Inspect recloser operation

Repaired switch

Installed additional fuses

Planned:

Remedial efforts completed

COOPER_371

York County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced switch

Tested /Inspected recloser

Planned:

Remedial efforts completed

CROYDON_142

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Complete reliability corrective workorders

Planned:

Remedial efforts completed

DALEVILLE_342

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced switch

Inspected / Test breaker

Installed additional transformer

Planned:

Remedial efforts completed

DAVISVILLE_004

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Repaired switch

Installed additional fuses

Planned:

Remedial efforts completed

DAVISVILLE_007

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Planned:

Remedial efforts completed

DURHAM_005

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Installed additional fuses

Upgraded lightning protection

Replaced secondary wires

Planned:

Remedial efforts completed

DUTTON_001

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

EDDINGTON_138

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Install animal protection

Planned:

Remedial efforts completed

EDGEMONT_001

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Upgraded recloser communications

Installed & tested recloser operations

Planned:

Remedial efforts completed

ELMWOOD_135

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Installed additional lightning protection

Installed additional fuses

Planned:

Remedial efforts completed

EMILIE_010

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced Cable

Inspect breaker operation

Planned:

Remedial efforts completed

EMILIE_017

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

EMILIE_134

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

FALLS_343

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested / Inspected recloser operation

Planned:

Remedial efforts completed

FIN_002

York County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Planned:

Remedial efforts completed

FLINT_132

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed animal protection

Adjust recloser settings

Planned:

Remedial efforts completed

FLINT_143

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Inspect breaker operation

Planned:

Remedial efforts completed

FLINT_144

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgrade fuse

Installed animal protection

Planned:

Remedial efforts completed

FLINT_147

Delaware County

Completed:

Inspected circuit and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Install additional lightning protection

Inspected circuit breaker operation

Upgraded cable

Installed capacitor bank

Planned:

Remedial efforts completed

GARDENVILLE_000

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Tested / Repaired capacitor

Planned:

Remedial efforts completed

GLADWYNE_133

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded cable

Planned:

Remedial efforts completed

HARMONY_001

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested switch operation

Replaced cable section

Replaced recloser

Planned:

Remedial efforts completed

HARMONY_008

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

HEATON_136

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgrade secondary wires

Install additional fuses

Planned:

Remedial efforts completed

HEATON_142

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded cable insulation

Planned:

Remedial efforts completed

HEATON_163

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Installed 3 phase recloser

Planned:

Remedial efforts completed

JARRETT_135

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded secondary wires

Planned:

Remedial efforts completed

JENKINTOWN_130

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

JENKINTOWN_135

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed tree wire

Installed additional fuses

Planned:

Remedial efforts completed

JENKINTOWN_138

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced recloser

Replaced cable sections

Planned:

Remedial efforts completed

KEYSTONE_037

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspect switches

Install switch

Complete reliability corrective workorders

Planned:

Remedial efforts completed

KING_135

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed animal protection

Installed recloser

Planned:

Remedial efforts completed

KNOWLTON_001

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

KNOWLTON_003

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded secondary wire

Planned:

Remedial efforts completed

LANE_002

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgrade fuses

Planned:

Remedial efforts completed

LENAPE_342

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Planned:

Remedial efforts completed

LENAPE_351

Chester County

Completed:

Inspected circuit and with thermographic camera

Completed reliability corrective workorders

Replace cable

Upgrade recloser

Planned:

Remedial efforts completed

LESTER_003

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

LINE_109_00

Bucks County

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

Tested/ Inspected breaker operation

Completed:

Remedial efforts completed

LINE_131_00WO

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

LINE_2266

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Installed switch

Planned:

Remedial efforts completed

LINE_2675

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Installed additional fuses

Planned:

Remedial efforts completed

LINE_3308NT

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded controller

Upgraded transformer

Upgraded lightning protection

Upgraded wires

Planned:

Remedial efforts completed

LINE_3340

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed switch

Replaced cable

Planned:

Remedial efforts completed

LINE_3500

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

LINE_7500PB

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

LLANERCH_161

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Planned:

Remedial efforts completed

LOMBARD_042

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Installed faulted circuit indicators

Planned:

Remedial efforts completed

MACDADE_133

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded secondary wires

Inspected breaker operation

Installed animal protection

Planned:

Remedial efforts completed

MACDADE_135

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded fuse

Planned:

Remedial efforts completed

MACDADE_139

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

Planned:

Remedial efforts completed

MACDADE_146

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

Planned:

Remedial efforts completed

MAIN_000

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Transferred portion of load to supply circuit

Planned:

Remedial efforts completed

MAINLAND_000

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

MALL_025

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Installed switch

Replaced cable stretch

Planned:

Remedial efforts completed

MIDDLETOWN_133

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Installed additional fuses

Planned:

Remedial efforts completed

MIDDLETOWN_143

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

Planned:

Remedial efforts completed

MIDDLETOWN_349

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded fuses

Tested / Inspected recloser operation

Planned:

Remedial efforts completed

MIDWAY_003

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Planned:

Remedial efforts completed

NESHAMINY_133

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Planned:

Remedial efforts completed

NEWLINVILLE_342

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested / Inspected recloser operations

Installed lightning protection

Planned:

Remedial efforts completed

NEWLINVILLE_352

Chester County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed 3 phase recloser

Replaced cable

Planned:

Remedial efforts completed

NEWTOWN_SQUARE_136

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Installed wildlife protection

Planned:

Remedial efforts completed

NEWTOWN_SQUARE_146

Delaware County

Completed:

Completed reliability corrective workorders

Inspected circuit visually and with thermographic camera

Inspect / Test recloser operation

Inspected selected areas of circuit for vegetation issues and corrected as needed

Planned:

Remedial efforts completed

OVERBROOK_131

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional lightning protection

Installed wildlife protection

Planned:

Remedial efforts completed

PARRISH_139

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Install additional lightning protection

Install additional fuses

Planned:

Remedial efforts completed

PERKIOMEN_343

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced 3 phase recloser

Installed 3 phase recloser

Planned:

Remedial efforts completed

PIPER_000

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

PLYMOUTH_135

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

Planned:

Remedial efforts completed

PLYMOUTH_164

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded fuse

Upgraded wires

Installed additional animal protection

Planned:

Remedial efforts completed

PULASKIE_014

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional wildlife protection

Upgraded transformer

Planned:

Remedial efforts completed

RADNOR_131

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional wildlife protection

Replaced recloser

Planned:

Remedial efforts completed

RICHMOND_144

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Replaced cable

Installed wildlife protection

Installed additional fuses

Planned:

Remedial efforts completed

SPRUCE_028

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Replaced switch

Replaced cable section

Planned:

Remedial efforts completed

SPRUCE_029

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Replace cable section

Planned:

Remedial efforts completed

SUNNYBURN_002

York County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

TABOR_135

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded transformer

Installed additional fuses

Planned:

Remedial efforts completed

TANGUY_000

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Planned:

Remedial efforts completed

TUNA_132

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Inspected recloser operation

Installed transformer

Completed reliability corrective workorders

Planned:

Remedial efforts completed

TUNA_142

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced stretch of cable

Planned:

Remedial efforts completed

TUNA_143

Philadelphia County

Completed:

Completed reliability corrective workorders

Installed vacuum fault interrupter

Planned:

Remedial efforts completed

UNIVERSITY_012

Philadelphia County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced stretch of cable

Upgraded transformer

Planned:

Remedial efforts completed

UPPER_DARBY_139

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Upgraded fuses

Planned:

Remedial efforts completed

UPPER_MERION_351

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded transformer

Inspect recloser operation

Planned:

Remedial efforts completed

WARMINSTER_006

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

WARRINGTON_341

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Planned:

Remedial efforts completed

WASHINTON_SQUARE_003

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

WAYNE_142

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Planned:

Remedial efforts completed

WAYNE_146

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced recloser

Upgraded wires

Replaced cable

Planned:

Remedial efforts completed

WORTH_000

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed three phase recloser

Coordinate fuses

Planned:

Remedial efforts completed

WRIGHT_000

Bucks County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Relocated transformer

Completed reliability corrective workorders

Planned:

Remedial efforts completed

YEADON_134

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed three phase recloser

Planned:

Remedial efforts completed

Appendix C

New Business Connections

This work category includes all the facility work required to add a new customer or to increase the load to an existing customer. The facility work will include the facilities required to directly connect the customer to the system and the upgrade/replacement of any existing facility to serve the requested additional load.

Capacity Expansion

This work category includes only capacity work generated by the system design engineer to prevent system failure and to assure the delivery of voltage as specified in the tariff. The addition of new substations and substation enlargements for future load growth will also be included in this project.

System Performance

This work category includes projects designed to upgrade, modify or improve the performance of the distribution system. Also included in this category are indirect costs in support of all categories and one-time accounting adjustment items.

Facility Relocation

This work category includes all requests for relocation of PECO facilities including municipal as well as customer related relocation requests.

Maintenance

This work category includes work performed to repair and restore equipment to its normal state of operation, along with planned preventive maintenance work such as visual and thermographic inspections and tree trimming around transmission and distribution lines.

Storm Funds

Incremental costs (primarily; overtime, contractors, mutual assistance, and meals) incurred while responding to major storms (storms that meet customer outage and duration criteria).