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PECO
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April 28, 2020

VIA E-FILING ONLY

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

Re: PECO 2020 First Quarter Reliability Report PUC Docket No. M-2016-2522508

Dear Secretary Chiavetta:

Enclosed is PECO's 2020 Quarterly Reliability Report for the period ending March 31, 2020 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.

As per the stay-at-home orders issued by the Governor and Philadelphia's Mayor, all PECO attorneys and key support staff are working remotely until these restrictions are lifted. Accordingly, PECO will not have its usual access to photocopying and U.S. mail, among other services. PECO is filing this report by e-filing and requests that all communications with PECO, likewise, be transmitted by email.

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

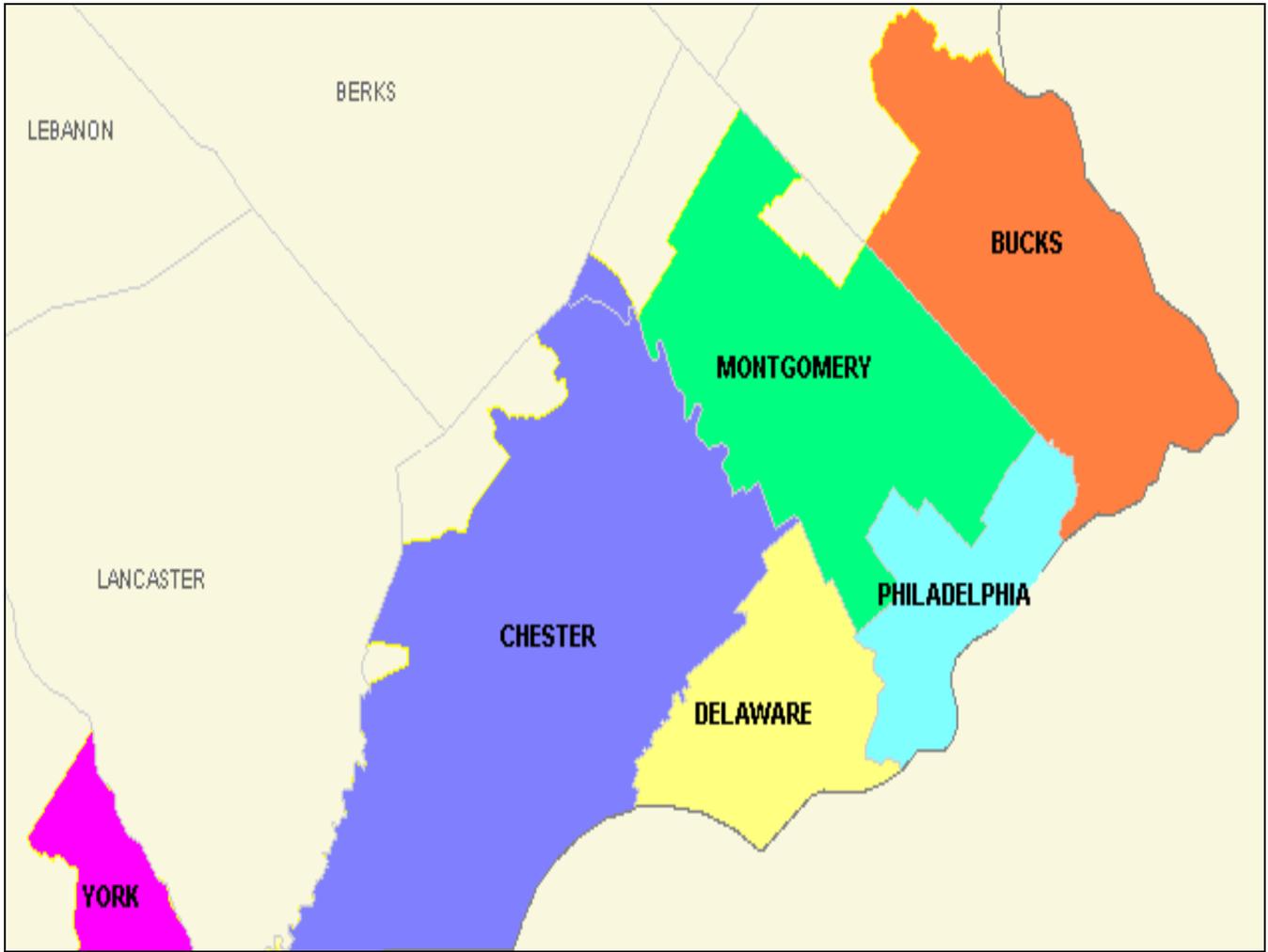
Sincerely,



Enclosure

Cc: David Washko (via email only)

PECO Energy Company Quarterly Reliability Report For Period Ending March 31, 2020



April 28, 2020

PECO Energy (“PECO”)

Quarterly Reliability Report for the Period Ending March 31, 2020 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 first quarter of 2020.

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
1,665,407	1,689,819	5,346,487	1,397,689	320,789,239	1.01	190	193	0.84

Data reflects 12 months ending 03/31/2020.

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 is below its Benchmark and Standard, CAIDI is above its Benchmark and Standard, and SAIDI is between its Benchmark and Standard. Benchmarks and Standards were established on May 7, 2004. No Benchmark or Standard was established for MAIFI. Extended service restoration times caused by several significant storms during the last twelve months drove the duration indices of rolling 12-month SAIDI and CAIDI higher. None of these storms met the major storm threshold for exclusion from reliability indices.

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 March 31, 2020					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,398	9.5%	51,907	3.1%	2,976,225
Contact/Dig-In	158	1.1%	18,971	1.1%	1,973,747
Equipment Failure	5,894	40.1%	656,395	38.8%	81,499,012
Lightning	437	3.0%	55,710	3.3%	15,171,340
Other	623	4.2%	68,043	4.0%	7,146,227
T&S	9	0.1%	27,294	1.6%	1,384,253
Unknown	261	1.8%	11,936	0.7%	3,689,117
Vegetation-Broken/Uprooted	4,311	29.4%	626,414	37.1%	176,553,007
Vegetation-Ingrowth	1,158	7.9%	91,531	5.4%	22,402,479
Vehicles	434	3.0%	81,618	4.8%	7,993,832

*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. Equipment is replaced based on observed trends under reliability programs and the System 2020 Long-term Infrastructure Investment Plan. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (37.1% of all customer interruptions), as opposed to ingrowth (5.4% of all outage customer interruptions). PECO has observed an increase in dead and declining ash trees near its electrical facilities. Emerald ash borers (invasive insects that cause ash tree deaths) are known to be concentrated in the eastern United States and have infested areas across the PECO territory. Limb and tree failures caused by emerald ash borers are expected to increase during this decade. PECO is addressing this issue with a vegetation management program to mitigate the threat to its facilities and customer reliability. Through accelerated vegetation maintenance, PECO has completed additional miles of vegetation distribution preventive maintenance in 2020.

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).”*

Predictive and Preventive Maintenance Program – status as of 3/31/2020					
	1 st Quarter Tasks		YTD Tasks		2020 Total Planned
	Planned	Complete	Planned	Complete	
Recloser Inspections (Number of reclosers inspected)	79	197	79	197	246
Circuit Patrol & Thermography (Number of circuits patrolled)	400	516	400	516	975
Pole Inspections (Number of poles visually inspected)	8,049	9,178	8,049	9,178	34,695
Padmount Transformers (Number of transformers visually inspected)	1,248	4,232	1,248	4,232	6,718
Below Ground Transformers (Number of transformers visually inspected)	396	1,093	396	1,093	1,563
Substations (Number of substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	333	348	333	348	1,370
Unit Substations (Number of unit substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	744	761	744	761	2,970

Vegetation Management Preventive Maintenance Program – status as of 3/31/20					
	1 st Quarter Miles		YTD Miles		2020 Total Planned
	Planned	Complete	Planned	Complete	
Distribution Lift and Manual Trimming	483	887	483	887	2,119
Transmission Trimming and Removals	48	50	48	50	198

PECO’s additional completed miles YTD under its vegetation distribution preventive maintenance are due to accelerated maintenance.

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.)*

\$Millions	Budgeted 1 st Quarter	Actual 1 st Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$0.7	\$0.7	\$0.7	\$0.7
Capacity Expansion	\$0.2	\$0.3	\$0.2	\$0.3
System Performance	\$14.9	\$14.2	\$14.9	\$14.2
Facility Relocation	\$0.2	\$0.2	\$0.2	\$0.2
Maintenance	\$51.3	\$53.2	\$51.3	\$53.2
Total	\$67.3	\$68.7	\$67.3	\$68.7

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.)*

\$Millions	Budgeted 1 st Quarter	Actual 1 st Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$17.0	\$17.8	\$17.0	\$17.8
Capacity Expansion	\$21.7	\$16.5	\$21.7	\$16.5
System Performance	\$84.8	\$95.7	\$84.8	\$95.7
Facility Relocation	\$4.8	\$3.1	\$4.8	\$3.1
Maintenance	\$36.5	\$34.7	\$36.5	\$34.7
Total	\$164.8	\$167.9	\$164.8	\$167.9

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 March 31, 2020 was as follows:

Aerial Lineman	421
Underground Lineman (Include UTS)	68
Transmission / Substation Mechanics, Operators	108
Energy Technicians	81
Aerial Foreman	69
Underground Foreman	19
Transmission / Substation Foreman	32
ET Foreman	5
Distribution Mech Apprentice	0
Total	803

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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
BALA_131	2,195	2.45	41	100	0.53	5,382	3,669	1,165
BELLEVUE_133	1,391	4.54	129	584	3.05	6,314	13,535	4,245
BELLEVUE_134	866	3.55	130	461	1.62	3,070	6,651	1,402
BETHAYRES_135	734	2.81	176	493	4.17	2,060	6,028	3,058
BLUE_GRASS_134	1,361	3.02	161	487	0.88	4,108	11,043	1,198
BLUE_GRASS_140	1,664	2.02	61	124	0	3,355	3,437	-
BRYN_MAWR_131	893	3.15	210	661	0.1	2,813	9,834	90
BUCK_000	494	3.22	64	206	1.19	1,590	1,694	587
BUCKINGHAM_342	3,110	2.74	213	584	1.57	8,511	30,285	4,876
BUCKINGHAM_344	1,592	1.92	406	779	1.78	3,053	20,660	2,833
BUCKINGHAM_354	1,780	1.74	521	906	0	3,095	26,888	-
BUCKINGHAM_371	2,058	1.96	298	583	2.91	4,032	20,000	5,997
CALLOWHILL_132	2,564	0.83	88	73.1	0.95	2,132	3,123	2,433
CALLOWHILL_133	3,350	0.52	36	18.6	0.84	1,737	1,037	2,825
CARMEL_001	458	3.04	120	365	0.59	1,391	2,786	270
CARVER_000	375	4.15	164	681	1.02	1,555	4,255	382
CEDARBROOK_131	1,012	2.23	656	1461	1.81	2,254	24,650	1,830
CEDARBROOK_136	590	2.45	291	712	0.35	1,443	7,005	205
CHALFONT_002	507	2.14	523	1119	4.16	1,084	9,457	2,109
CHANDLER_000	405	6.08	96	583	3.2	2,464	3,934	1,297
CHESTNUT_HILL_032	602	0.14	52	7.2	0	84	72	-
CONCORD_347	1,495	1.9	346	656	1.85	2,835	16,346	2,765
CONCORD_351	2,123	5.43	264	1434	8.32	11,530	50,727	17,653
DOYLESTOWN_002	714	4.48	609	2730	2.69	3,200	32,491	1,924
DOYLESTOWN_004	804	3.29	418	1375	0.44	2,642	18,421	357
DURHAM_005	515	2.2	593	1308	0	1,135	11,225	-
DUTTON_004	313	3.97	299	1188	0	1,243	6,198	-
EAGLE_342	2,808	3.48	94	325	3.56	9,758	15,219	9,991
EDDINGTON_134	633	3.42	301	1029	1.03	2,164	10,859	654
EDDINGTON_142	1,155	3.07	202	618	4.13	3,541	11,899	4,774
EMILIE_132	1,284	2.87	193	555	1.23	3,687	11,867	1,583
FALLS_351	2,078	1.88	236	443	2.22	3,905	15,351	4,623
FLINT_132	1,271	2.19	471	1032	2.29	2,783	21,859	2,909
FLINT_144	840	3.3	119	392	2.36	2,769	5,489	1,983
FOULK_131	1,426	1.86	351	651	2.62	2,648	15,482	3,731
GERMANTOWN_014	581	1.17	173	203	0	681	1,967	-
GLADWYNE_133	606	3.52	135	475	6.59	2,135	4,796	3,993
GLADWYNE_138	931	1.89	266	502	2.62	1,758	7,786	2,435
GOSHEN_352	3,129	2.42	253	612	3.99	7,579	31,913	12,484

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
HUNTING_PARK_030	737	2.26	70	159	0	1,668	1,954	-
JARRETT_132	1,403	2.31	441	1019	1.93	3,246	23,838	2,709
KENNETT_SQUAR_005	302	4.51	92	415	6.14	1,362	2,091	1,855
KING_135	393	4.69	236	1108	0.6	1,845	7,258	235
LANDENBERG_000	544	5.52	166	917	3.99	3,002	8,317	2,173
LANE_002	743	1.61	520	836	1.05	1,194	10,350	782
LENAPE_342	1,829	1.26	267	335	0.79	2,297	10,220	1,446
LENAPE_351	1,707	3.86	166	639	6.79	6,585	18,185	11,585
LEOPARD_001	449	3.91	243	950	2.21	1,754	7,107	993
LINE_1300CR	2,447	3.89	106	413	2.49	9,514	16,836	6,105
LINE_132_00WO	594	5.96	178	1059	1.52	3,541	10,489	900
LINE_2394	1,742	2.2	74	163	0.19	3,833	4,740	324
LINE_300CR	1,245	0.62	178	110	0.94	771	2,281	1,170
LINE_3329	230	3	308	924	1.96	691	3,542	450
LINE_3340	930	3.71	148	549	1.15	3,450	8,516	1,067
LINE_6000	14	6.93	543	3763	0.07	97	878	1
LINE_708	1,320	3.08	36	110	0	4,069	2,423	-
LINE_744	328	3.19	39	125	0.98	1,047	681	322
LINE_800CR	1,815	1.2	96	116	0	2,183	3,509	3
LINTON_343	2,891	5.08	154	779	2.69	14,673	37,539	7,787
LINTON_351	3,079	1.46	278	405	5.61	4,480	20,761	17,264
MIDDLETOWN_131	890	3.38	176	595	0.28	3,004	8,829	253
MIDDLETOWN_142	1,370	2.64	136	359	1.45	3,616	8,195	1,992
MIDDLETOWN_143	1,568	0.7	126	87.9	0.75	1,096	2,297	1,179
MIDDLETOWN_349	1,976	6.14	277	1700	5.67	12,138	55,990	11,203
MONROE_004	401	4.13	87	361	1.01	1,655	2,411	406
MOON_006	278	4.95	521	2578	3.99	1,375	11,946	1,110
MORTON_140	1,337	2.94	214	629	2.44	3,925	14,026	3,264
MORTON_142	1,874	4.02	233	937	1.67	7,541	29,265	3,125
NEW_HOPE_001	485	6.17	104	644	3.22	2,993	5,207	1,562
NEW_HOPE_002	612	2.87	74	213	1.99	1,758	2,168	1,219
NEWLINVILLE_351	1,392	0.69	108	73.8	0.81	954	1,713	1,126
NEWLINVILLE_352	2,353	4.67	66	307	1.94	10,993	12,058	4,563
NEWLINVILLE_361	986	4.14	129	535	1.25	4,086	8,794	1,229
NEWTOWN_SQUAR_133	783	3.26	246	803	1.19	2,556	10,481	930
NEWTOWN_SQUAR_134	786	4.68	326	1524	1.8	3,675	19,959	1,417
NOLAN_002	696	2.12	428	906	2.12	1,475	10,510	1,473
NORTH_WALES_366	2,616	0.81	295	241	2.06	2,131	10,487	5,391
PARRISH_139	1,004	1.34	30	40.6	0.08	1,347	679	76
PLYMOUTH_181	978	2.09	670	1399	0.5	2,044	22,810	487
POOLS_001	639	2.82	590	1665	0.02	1,804	17,731	13

CIRCUIT	CUSTOMERS ON	12 Month	12	12 Month	12 Month	12 Month Rolling	12 Month	12 Month Rolling
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	CIRCUIT	Rolling Circuit SAIFI	Month Rolling Circuit CAIDI	Rolling Circuit SAIDI	Rolling Circuit MAIFI	Customers Interrupted	Rolling Customer Hours	Momentary Customers Interrupted
PULASKI_133	3,027	1.33	54	72.4	1.03	4,025	3,655	3,118
PULASKI_137	622	2.24	61	137	0	1,394	1,425	-
RICHBORO_004	490	4.21	437	1841	2.74	2,065	15,039	1,341
RICHMOND_143	2,186	1.41	47	67	0.11	3,085	2,440	241
ROXBOROUGH_131	2,022	1.9	84	160	1.31	3,838	5,383	2,640
ROXBOROUGH_135	1,321	2.98	80	238	2.86	3,934	5,250	3,780
SAVILLE_136	2,045	1.5	167	250	0	3,062	8,517	-
SCOTT_002	269	1	1250	1255	0.57	270	5,627	154
SILES_135	1,341	3.75	97	363	7.02	5,024	8,121	9,419
STONY_001	398	8.76	236	2071	1.18	3,488	13,738	471
TACONY_131	1,042	2.15	53	114	0	2,238	1,971	-
TANGUY_000	307	5	509	2545	5.76	1,534	13,021	1,769
TREDYFFRIN_132	620	4.15	233	964	0.71	2,571	9,964	439
TREVOSE_138	1,183	3.06	171	523	7.96	3,617	10,315	9,414
TULIP_000	468	1.64	65	106	0.22	769	830	103
UPPER_MERION_132	1,141	2.67	439	1174	0.67	3,052	22,335	761
UPPER_MERION_141	739	3.72	306	1139	2.46	2,749	14,031	1,816
UPPER_MERION_351	3,134	5.65	157	885	3.55	17,694	46,250	11,114
WAGONTOWN_000	562	4.36	137	595	1.21	2,448	5,572	679
WANEETA_137	1,199	1.95	30	59.4	1	2,336	1,187	1,195
WARMINSTER_141	1,445	2.51	208	523	1.77	3,628	12,587	2,552
WARRINGTON_364	1,674	2.36	223	525	2.24	3,946	14,652	3,747
WAYNE_131	969	3.83	215	821	1.86	3,707	13,265	1,801
WAYNE_136	936	2.46	263	647	1.97	2,301	10,093	1,845
WAYNE_146	582	5.13	298	1528	2.46	2,983	14,821	1,432
WEST_BUCK_002	443	3.44	285	982	2	1,525	7,247	886
WEST_CHESTER_011	604	1.59	523	831	0.28	960	8,362	170
WESTTOWN_000	241	6.59	277	1822	9.3	1,587	7,320	2,241
WHITEMARSH_132	1,756	5.15	316	1625	3.41	9,039	47,566	5,984
WHITEMARSH_141	1,140	1.6	349	557	0.62	1,821	10,586	709
WHITEMARSH_142	1,035	4.55	314	1428	1.19	4,705	24,627	1,233
WHITEMARSH_164	1,146	3.14	426	1339	0.82	3,603	25,575	936
WOODBOURNE_351	2,825	1.7	396	671	2.56	4,789	31,598	7,227
WOODBOURNE_353	2,054	1.5	150	226	1.88	3,091	7,722	3,855

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 03/31/20

BALA_131

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Upgrade Transformer

Planned:

- Perform regularly scheduled tree clearance

BELLEVUE_133

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Remedial efforts completed

BELLEVUE_134

Bucks County

Completed:

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection

Planned:

- Complete corrective reliability work orders
- Install tree-resistant wire

BETHAYRES_135

Montgomery County

Completed:

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Replace underground cable

Planned:

- Inspect selected areas of circuit for vegetation issues and correct as needed

BLUE_GRASS_134

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install animal protection
- Perform regularly scheduled tree clearance
- Remedial efforts completed

BLUE_GRASS_140

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance
- Remedial efforts completed

BRYN_MAWR_131*Delaware County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

BUCKINGHAM_342*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

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

Planned:

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

BUCKINGHAM_344*Bucks County***Completed:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Upgrade fusing

Planned:

Install Recloser

BUCKINGHAM_354*Bucks County***Completed:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Remedial efforts completed

BUCKINGHAM_371*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Complete corrective reliability work orders

BUCK_000*Chester County***Completed:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Planned:

Perform regularly scheduled tree clearance

CALLOWHILL_132*Philadelphia County***Completed:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Planned:

- Complete corrective reliability work orders
- Perform regularly scheduled tree clearance

CALLOWHILL_133

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera

Planned:

- Complete corrective reliability work orders
- Perform regularly scheduled tree clearance
- Upgrade Transformer

CARMEL_001

Montgomery County

Completed:

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

CARVER_000

Bucks County

Completed:

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis
- Inspect circuit visually and with thermographic camera

CEDARBROOK_131

Montgomery County

Completed:

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Perform regularly scheduled tree clearance

CEDARBROOK_136

Montgomery County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Perform regularly scheduled tree clearance

CHALFONT_002

Bucks County

Completed:

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis

CHANDLER_000

Chester County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Complete engineering review and analysis

CHESTNUT_HILL_032

Philadelphia County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Planned:

Complete corrective reliability work orders

Perform regularly scheduled tree clearance

CONCORD_347

Delaware County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Complete engineering review and analysis

Inspect circuit visually and with thermographic camera

CONCORD_351

Delaware County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Remedial efforts completed

DOYLESTOWN_002

Bucks County

Completed:

Inspect circuit visually and with thermographic camera

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

Remedial efforts completed

DOYLESTOWN_004

Bucks County

Completed:

Inspect circuit visually and with thermographic camera

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

Remedial efforts completed

DURHAM_005

Bucks County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Perform regularly scheduled tree clearance

Planned:

Complete corrective reliability work orders

DUTTON_004

Delaware County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Planned:

Complete corrective reliability work orders

EAGLE_342

Chester County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Remedial efforts completed

EDDINGTON_134

Bucks County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Remedial efforts completed

EDDINGTON_142

Bucks County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

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

Remedial efforts completed

EMILIE_132

Bucks County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Perform regularly scheduled tree clearance

Remedial efforts completed

FALLS_351

Bucks County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Complete engineering review and analysis

FLINT_132

Montgomery County

Completed:

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Perform regularly scheduled tree clearance

Planned:

Complete corrective reliability work orders

Install animal protection

Upgrade secondary wire

FLINT_144*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Perform regularly scheduled tree clearance
- Remedial efforts completed

FOULK_131*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Inspect circuit visually and with thermographic camera

GERMANTOWN_014*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Perform regularly scheduled tree clearance

GLADWYNE_133*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Remedial efforts completed

GLADWYNE_138*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection

Planned:

- Inspect selected areas of circuit for vegetation issues and correct as needed

GOSHEN_352*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete corrective reliability work orders
- Reconfigure circuit

HUNTING_PARK_030*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera

Planned:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Reconfigure circuit

JARRETT_132*Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

KENNETT_SQUAR_005*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection

Planned:

- Install tree-resistant wire

KING_135*Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis

LANDENBERG_000*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Remedial efforts completed

LANE_002*Montgomery County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install tree-resistant wire
- Perform regularly scheduled tree clearance
- Remedial efforts completed

LENAPE_342*Chester County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Perform regularly scheduled tree clearance

Planned:

- Install cutout-mounted recloser
- Upgrade primary wire

LENAPE_351*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete corrective reliability work orders

LEOPARD_001*Chester County***Completed:**

- Inspect circuit visually and with thermographic camera
- Remedial efforts completed

LINE_1300CR*Chester County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis

LINE_132_00WO*Bucks County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Inspect selected areas of circuit for vegetation issues and correct as needed

LINE_2394*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install animal protection
- Perform regularly scheduled tree clearance
- Upgrade Transformer

Planned:

- Complete corrective reliability work orders
- Reconfigure circuit

LINE_300CR*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install cutout-mounted recloser
- Upgrade primary wire

Planned:

- Complete corrective reliability work orders
- Inspect selected areas of circuit for vegetation issues and correct as needed

LINE_3329*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete engineering review and analysis

LINE_3340*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders

LINE_6000*Bucks County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders
- Inspect selected areas of circuit for vegetation issues and correct as needed

LINE_708*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install animal protection
- Perform regularly scheduled tree clearance
- Reconfigure circuit

Planned:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Reconfigure circuit

LINE_744*Philadelphia County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete engineering review and analysis
- Inspect circuit visually and with thermographic camera

LINE_800CR*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install cutout-mounted recloser
- Remedial efforts completed

LINTON_343*Bucks County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Replace underground cable

Planned:

- Replace underground cable

LINTON_351*Bucks County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Remedial efforts completed

MIDDLETOWN_131*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete engineering review and analysis

MIDDLETOWN_142*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Perform regularly scheduled tree clearance
- Remedial efforts completed

MIDDLETOWN_143*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Inspect circuit visually and with thermographic camera
- Install recloser

MIDDLETOWN_349*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Perform regularly scheduled tree clearance

Planned:

- Inspect circuit visually and with thermographic camera

MONROE_004*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance
- Upgrade fusing
- Remedial efforts completed

MOON_006*Bucks County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Remedial efforts completed

MORTON_140*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance
- Remedial efforts completed

MORTON_142*Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Install tree-resistant wire

NEWLINVILLE_351*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Upgrade Transformer

Planned:

- Complete corrective reliability work orders
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install tree-resistant wire

NEWLINVILLE_352*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders
- Inspect selected areas of circuit for vegetation issues and correct as needed

NEWLINVILLE_361*Chester County***Completed:**

- Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

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

NEWTOWN_SQUAR_133

Chester County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Complete corrective reliability work orders
Inspect selected areas of circuit for vegetation issues and correct as needed
Install recloser

NEWTOWN_SQUAR_134

Delaware County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

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

NEW_HOPE_001

Bucks County

Completed:

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Install fuses and switches

Planned:

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

NEW_HOPE_002

Bucks County

Completed:

Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

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

NOLAN_002

Bucks County

Completed:

Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

Inspect selected areas of circuit for vegetation issues and correct as needed
Upgrade fusing

NORTH_WALES_366

Bucks County

Completed:

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Perform regularly scheduled tree clearance
Remedial efforts completed

PARRISH_139*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Install animal protection
- Perform regularly scheduled tree clearance

PLYMOUTH_181*Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Install animal protection
- Perform regularly scheduled tree clearance

POOLS_001*Bucks County***Completed:**

- Extend circuit
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Remedial efforts completed

PULASKI_133*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Perform regularly scheduled tree clearance

PULASKI_137*Philadelphia County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis
- Perform regularly scheduled tree clearance

RICHBORO_004*Bucks County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis

RICHMOND_143*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install animal protection
- Perform regularly scheduled tree clearance

Planned:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install animal protection
- Upgrade fusing

ROXBOROUGH_131*Philadelphia County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete corrective reliability work orders
- Install animal protection
- Perform regularly scheduled tree clearance

ROXBOROUGH_135*Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection

Planned:

- Perform regularly scheduled tree clearance

SAVILLE_136*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Remedial efforts completed

SCOTT_002*Delaware County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Install recloser

SILES_135*Bucks County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection

Planned:

- Complete corrective reliability work orders
- Replace underground cable

STONY_001

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Inspect selected areas of circuit for vegetation issues and correct as needed

TACONY_131

Philadelphia County

Completed:

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete engineering review and analysis
- Inspect circuit visually and with thermographic camera

TANGUY_000

Delaware County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install cutout-mounted recloser
- Perform regularly scheduled tree clearance
- Remedial efforts completed

TREDYFFRIN_132

Chester County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders
- Perform regularly scheduled tree clearance

TREVOSE_138

Bucks County

Completed:

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders

TULIP_000

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Inspect circuit visually and with thermographic camera

UPPER_MERION_132

Chester County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera

Planned:

- Complete corrective reliability work orders
- Perform regularly scheduled tree clearance
- Upgrade primary wire

UPPER_MERION_141

Chester County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install cutout-mounted recloser
- Perform regularly scheduled tree clearance

UPPER_MERION_351

Chester County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera

Planned:

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance
- Replace underground cable

WAGONTOWN_000

Chester County

Completed:

- Inspect circuit visually and with thermographic camera

Planned:

- Complete engineering review and analysis

WANEETA_137

Philadelphia County

Completed:

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance

Planned:

- Complete engineering review and analysis

WARMINSTER_141

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection

Planned:

- Inspect selected areas of circuit for vegetation issues and correct as needed

WARRINGTON_364*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Remedial efforts completed

WAYNE_131*Delaware County***Completed:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Perform regularly scheduled tree clearance

Planned:

Install cutout-mounted recloser

WAYNE_136*Delaware County***Completed:**

Inspect circuit visually and with thermographic camera
Perform regularly scheduled tree clearance

Planned:

Complete engineering review and analysis

WAYNE_146*Delaware County***Completed:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Install animal protection
Perform regularly scheduled tree clearance
Remedial efforts completed

WESTTOWN_000*Chester County***Completed:**

Inspect circuit visually and with thermographic camera
Perform regularly scheduled tree clearance
Remedial efforts completed

WEST_BUCK_002*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Remedial efforts completed

WEST_CHESTER_011*Chester County***Completed:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Perform regularly scheduled tree clearance

Planned:

Complete corrective reliability work orders

WHITEMARSH_132*Montgomery County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Install Cutout
- Install animal protection

Planned:

- Complete corrective reliability work orders
- Install animal protection
- Perform regularly scheduled tree clearance

WHITEMARSH_141*Montgomery County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera

Planned:

- Complete corrective reliability work orders
- Perform regularly scheduled tree clearance

WHITEMARSH_142*Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera
- Install animal protection

Planned:

- Complete corrective reliability work orders
- Install animal protection
- Install fuse
- Perform regularly scheduled tree clearance
- Upgrade fusing

WHITEMARSH_164*Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Perform regularly scheduled tree clearance

WOODBOURNE_351*Bucks County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Inspect selected areas of circuit for vegetation issues and correct as needed

WOODBOURNE_353*Bucks County***Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

- Complete corrective reliability work orders

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).