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PECO
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October 30, 2020

VIA E-FILING ONLY

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

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

Dear Secretary Chiavetta:

Enclosed is PECO's 2020 Quarterly Reliability Report for the period ending September 30, 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.

Thank you for your assistance in this matter and please direct any questions regarding the above to Richard Schlesinger, Manager, Retail Rates at (215) 841-5771 or via email: rich.schlesinger@peco-energy.com.

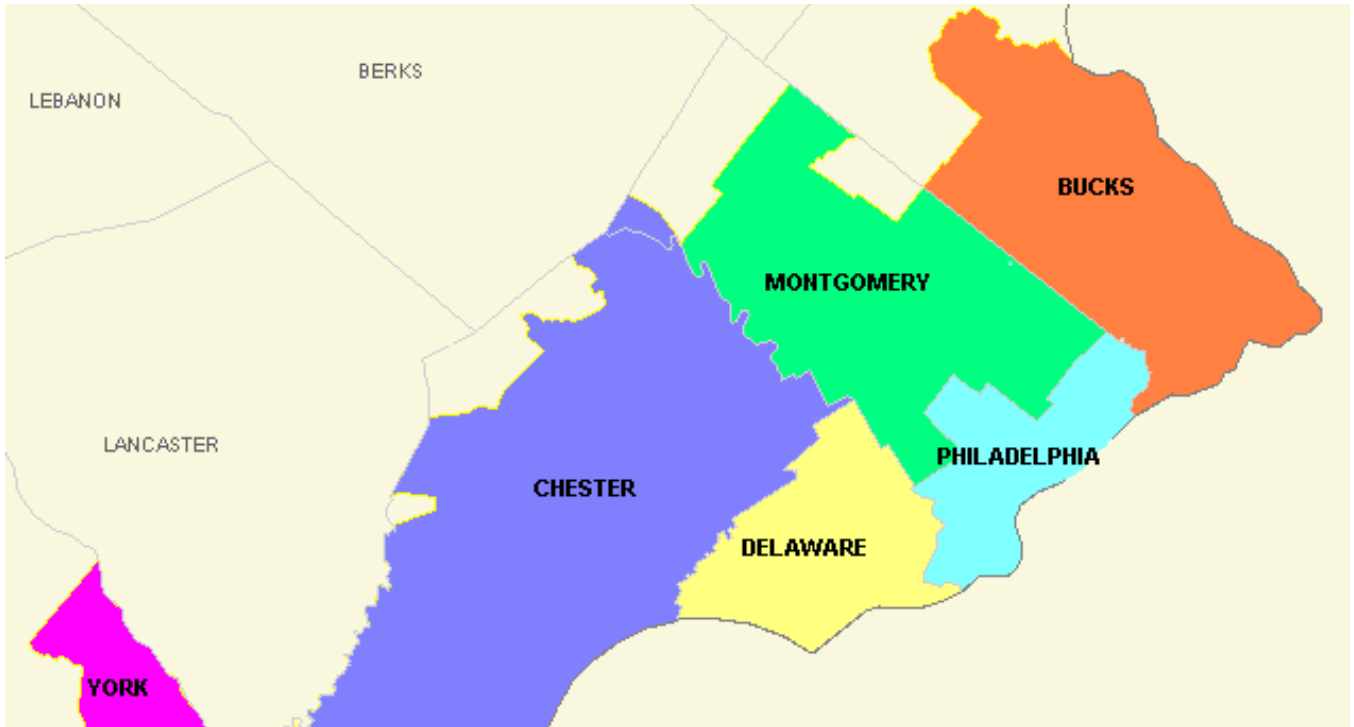
Sincerely,



Enclosure

Cc: David Washko (via email only)

PECO Energy Company Quarterly Reliability Report For Period Ending September 30, 2020



October 30, 2020

PECO Energy (“PECO”)

Quarterly Reliability Report for the Period Ending September 30, 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 one major event in the third quarter of 2020. Tropical Storm Isaias caused downed trees and limbs on power lines and interrupted service to 404,363 customers. All PECO employees supported emergency response efforts in conjunction with crews from PECO’s Exelon sister utilities BGE, ComEd, and Pepco. Over 3,600 contractors from across the United States and Canada assisted in PECO’s restoration efforts. The Commission approved exclusion of this major event for reliability reporting purposes on September 15, 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
1,670,661	1,533,994	4,366,200	1,451,829	261,972,024	0.92	171	157	0.87

Data reflects 12 months ending 09/30/2020.

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.

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 September 30, 2020					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,605	11.1%	50,975	3.3%	2,999,672
Contact/Dig-In	145	1.0%	13,502	0.9%	1,102,649
Equipment Failure	5,514	38.2%	539,707	35.2%	64,951,496
Lightning	248	1.7%	30,509	2.0%	5,389,237
Other	627	4.3%	73,687	4.8%	7,718,907
T&S	14	0.1%	35,729	2.3%	1,085,058
Unknown	383	2.7%	25,352	1.7%	4,420,959
Vegetation-Broken/Uprooted	4,593	31.8%	629,277	41.0%	152,775,819
Vegetation-Ingrowth	950	6.6%	63,167	4.1%	14,775,416
Vehicles	366	2.5%	72,089	4.7%	6,752,810

*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 (41.0% of all customer interruptions), as opposed to ingrowth (4.1% 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 9/30/2020					
	3 rd Quarter Tasks		YTD Tasks		2020 Total Planned
	Planned	Complete	Planned	Complete	
Recloser Inspections (Number of reclosers inspected)	148	144	370	495	415
Circuit Patrol & Thermography (Number of circuits patrolled)	78	323	978	1,499	978
Pole Inspections (Number of poles visually inspected)	12,862	5,427	34,560	38,216	39,250
Padmount Transformers (Number of transformers visually inspected)	1,028	1,496	4,610	6,565	6,792
Below Ground Transformers (Number of transformers visually inspected)	734	151	517	1,764	1,792
Substations (Number of substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	333	359	999	1,058	1,332
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	787	2,232	2,339	2,973

Vegetation Management Preventive Maintenance Program – status as of 9/30/2020					
	3 rd Quarter Miles		YTD Miles		2020 Total Planned
	Planned	Complete	Planned	Complete	
Distribution Lift and Manual Trimming	545	1,089	1,573	2,645	2,119
Transmission Trimming and Removals	53	51	151	149	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 3 rd Quarter	Actual 3 rd Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$0.7	\$0.7	\$2.1	\$2.3
Capacity Expansion	\$0.2	\$0.3	\$0.8	\$0.8
System Performance	\$14.4	\$16.7	\$45.5	\$46.5
Facility Relocation	\$0.5	\$0.5	\$1.1	\$0.9
Maintenance	\$53.8	\$56.1	\$159.9	\$165.8
Total	\$69.7	\$74.3	\$209.4	\$216.3

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 3 rd Quarter	Actual 3 rd Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$11.5	\$12.0	\$49.4	\$48.6
Capacity Expansion	\$23.2	\$22.4	\$64.5	\$57.8
System Performance	\$93.7	\$87.7	\$280.2	\$272.0
Facility Relocation	\$5.7	\$3.8	\$18.1	\$11.8
Maintenance	\$37.0	\$41.4	\$113.1	\$114.0
Total	\$171.0	\$167.4	\$525.2	\$504.2*

*Actual capital expenditures are less than the budget primarily due to work diverted to storm restoration efforts in Q2 and Q3 that are excluded from the amounts reported herein

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 September 30, 2020 was as follows:

Aerial Lineman	409
Underground Lineman (Include UTS)	64
Transmission / Substation Mechanics, Operators	105
Energy Technicians	86
Aerial Foreman	73
Underground Foreman	18
Transmission / Substation Foreman	36
ET Foreman	7
Distribution Mech Apprentice	0
Total	798

Contact Persons:

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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	2,200.	1.17	22	25	0.00	2,580.	930	0.
BELLEVUE_133	1,390.	0.58	120	70	2.97	803.	1,612	4,131.
BELLEVUE_134	866.	1.05	52	54	1.04	905.	780	902.
BETHAYRES_135	734.	0.21	119	25	3.43	152.	301	2,519.
BLUE_GRASS_134	1,360.	1.16	295	343	0.33	1,579.	7,776	443.
BLUE_GRASS_140	1,668.	0.28	163	45	0.17	462.	1,256	276.
BRYN_MAWR_131	892.	0.29	204	59	0.06	258.	878	56.
BUCK_000	492.	2.46	99	244	3.35	1,208.	1,999	1,649.
BUCKINGHAM_342	3,108.	1.62	250	405	2.85	5,032.	20,994	8,867.
BUCKINGHAM_344	1,591.	0.16	307	49	0.57	254.	1,302	911.
BUCKINGHAM_354	1,780.	1.75	428	748	0.80	3,107.	22,181	1,431.
BUCKINGHAM_371	2,065.	3.60	98	355	3.71	7,439.	12,210	7,653.
CALLOWHILL_132	3,183.	1.17	68	80	0.29	3,719.	4,233	937.
CALLOWHILL_133	1,971.	1.39	27	38	1.91	2,738.	1,237	3,770.
CARMEL_001	455.	0.37	527	194	0.59	168.	1,475	270.
CARVER_000	373.	8.21	93	765	4.28	3,064.	4,758	1,597.
CEDARBROOK_131	1,013.	1.15	1,181	1,363	0.80	1,169.	23,013	808.
CEDARBROOK_136	591.	2.44	211	513	0.00	1,441.	5,058	0.
CHALFONT_002	507.	2.04	43	89	3.00	1,036.	751	1,521.
CHANDLER_000	404.	9.03	120	1,082	6.31	3,648.	7,285	2,551.
CHESTNUT_HILL_032	600.	0.15	46	7	0.00	87.	67	0.
CONCORD_347	1,495.	1.52	144	220	1.46	2,275.	5,471	2,187.
CONCORD_351	2,279.	3.27	255	834	9.64	7,459.	31,691	21,976.
DOYLESTOWN_002	713.	2.01	730	1,466	1.00	1,431.	17,415	712.
DOYLESTOWN_004	812.	2.00	259	516	0.99	1,620.	6,983	804.
DURHAM_005	512.	0.22	83	18	0.00	112.	155	0.
DUTTON_004	313.	2.27	135	307	0.00	712.	1,600	1.
EAGLE_342	2,800.	3.75	114	427	3.66	10,506.	19,940	10,255.
EDDINGTON_134	688.	1.12	55	61	0.92	770.	704	636.
EDDINGTON_142	1,155.	0.73	95	70	3.03	847.	1,347	3,504.
EMILIE_132	1,285.	1.14	101	115	0.06	1,462.	2,467	75.
FALLS_351	2,079.	2.13	177	377	3.96	4,435.	13,046	8,231.
FLINT_132	1,269.	2.62	400	1,047	1.67	3,320.	22,145	2,113.
FLINT_144	837.	1.85	157	290	1.94	1,549.	4,048	1,621.
FOULK_131	1,424.	0.86	118	101	1.33	1,223.	2,409	1,896.
GERMANTOWN_014	581.	2.42	80	193	0.07	1,406.	1,865	39.
GLADWYNE_133	604.	0.82	249	203	6.81	493.	2,046	4,116.
GLADWYNE_138	930.	2.98	108	321	3.28	2,774.	4,974	3,053.
GOSHEN_352	2,970.	1.56	396	618	1.94	4,638.	30,614	5,753.
HUNTING_PARK_030	734.	1.05	46	48	0.00	771.	591	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
JARRETT_132	1,403.	3.21	348	1,117	3.35	4,505.	26,125	4,695.
KENNETT_SQUAR_005	301.	6.52	173	1,126	8.77	1,963.	5,646	2,640.
KING_135	394.	2.63	331	872	0.67	1,038.	5,723	263.
LANDENBERG_000	545.	7.51	217	1,628	2.38	4,091.	14,790	1,295.
LANE_002	743.	1.63	175	285	2.01	1,213.	3,531	1,497.
LENAPE_342	1,828.	1.88	168	315	4.78	3,436.	9,608	8,731.
LENAPE_351	1,800.	4.41	346	1,527	6.54	7,934.	45,800	11,773.
LEOPARD_001	449.	1.33	263	348	4.03	595.	2,603	1,811.
LINE_1300CR	2,494.	2.89	122	352	0.53	7,208.	14,634	1,328.
LINE_132_00WO	594.	3.73	134	501	1.28	2,217.	4,961	760.
LINE_2394	1,741.	0.10	121	12	0.01	172.	348	9.
LINE_300CR	1,246.	0.57	376	213	0.42	707.	4,430	528.
LINE_3329	230.	0.03	132	5	1.01	8.	18	233.
LINE_3340	929.	1.18	104	122	0.00	1,092.	1,892	0.
LINE_6000	14.	3.86	449	1,730	0.00	54.	404	0.
LINE_708	1,320.	2.08	37	77	0.00	2,740.	1,703	1.
LINE_744	331.	2.97	46	137	0.00	982.	757	0.
LINE_800CR	1,813.	2.65	188	498	1.17	4,806.	15,055	2,126.
LINTON_343	2,890.	2.57	215	551	1.44	7,417.	26,538	4,148.
LINTON_351	3,077.	0.75	168	125	4.75	2,295.	6,429	14,626.
MIDDLETOWN_131	892.	2.05	237	485	0.03	1,825.	7,205	28.
MIDDLETOWN_142	1,367.	0.88	280	245	1.21	1,200.	5,592	1,658.
MIDDLETOWN_143	1,563.	0.98	213	208	2.07	1,525.	5,406	3,240.
MIDDLETOWN_349	2,243.	3.37	438	1,473	2.79	7,551.	55,074	6,252.
MONROE_004	400.	2.15	207	446	2.47	860.	2,973	987.
MOON_006	277.	3.19	188	599	3.23	883.	2,767	896.
MORTON_140	1,337.	0.73	47	34	0.00	975.	756	0.
MORTON_142	1,874.	2.29	59	135	2.80	4,292.	4,214	5,242.
NEW_HOPE_001	484.	3.32	117	389	10.64	1,605.	3,142	5,150.
NEW_HOPE_002	611.	0.08	364	29	9.01	48.	291	5,504.
NEWLINVILLE_351	1,393.	2.62	202	530	3.27	3,647.	12,298	4,553.
NEWLINVILLE_352	2,354.	1.90	98	187	2.18	4,469.	7,325	5,141.
NEWLINVILLE_361	1,013.	1.61	356	571	2.05	1,627.	9,645	2,072.
NEWTOWN_SQUAR_133	782.	1.68	657	1,101	1.15	1,311.	14,350	901.
NEWTOWN_SQUAR_134	787.	2.42	155	376	0.78	1,905.	4,926	617.
NOLAN_002	698.	0.28	183	52	2.07	198.	605	1,443.
NORTH_WALES_366	2,628.	0.75	204	152	0.78	1,961.	6,678	2,050.
PARRISH_139	1,012.	0.65	50	33	0.34	660.	549	349.
PLYMOUTH_181	978.	2.04	676	1,380	0.57	1,995.	22,488	558.
POOLS_001	640.	1.22	81	98	0.00	778.	1,046	0.
PULASKI_133	3,042.	1.79	73	130	1.29	5,451.	6,590	3,910.
PULASKI_137	379.	2.90	51	147	0.00	1,100.	930	0.
RICHBORO_004	461.	1.16	1,135	1,314	3.29	534.	10,097	1,517.
RICHMOND_143	2,185.	0.36	34	12	0.00	777.	444	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
ROXBOROUGH_131	2,021.	0.84	133	112	0.00	1,705.	3,789	0.
ROXBOROUGH_135	1,317.	0.22	88	20	0.30	294.	429	401.
SAVILLE_136	2,045.	0.53	171	90	0.66	1,078.	3,068	1,359.
SCOTT_002	266.	0.78	144	112	0.07	208.	498	18.
SILES_135	1,342.	0.61	74	45	2.00	818.	1,015	2,683.
STONY_001	396.	7.44	256	1,907	2.10	2,947.	12,588	831.
TACONY_131	1,036.	2.03	39	78	0.00	2,100.	1,350	0.
TANGUY_000	191.	2.77	1,306	3,624	4.84	530.	11,536	924.
TREDFFRIN_132	618.	2.49	286	711	0.61	1,538.	7,321	376.
TREVOSE_138	1,183.	1.55	288	445	3.16	1,828.	8,774	3,735.
TULIP_000	480.	0.00	135	0	0.00	1.	2	0.
UPPER_MERION_132	1,136.	2.10	560	1,176	0.54	2,385.	22,269	617.
UPPER_MERION_141	739.	2.40	460	1,101	1.82	1,770.	13,557	1,343.
UPPER_MERION_351	3,003.	2.17	250	543	0.12	6,511.	27,155	347.
WAGONTOWN_000	564.	4.19	127	533	1.01	2,363.	5,009	569.
WANEETA_137	1,199.	1.16	39	45	1.95	1,386.	904	2,342.
WARMINSTER_141	1,846.	2.29	123	281	1.15	4,223.	8,634	2,122.
WARRINGTON_364	1,673.	1.08	102	110	0.10	1,810.	3,063	167.
WAYNE_131	973.	2.48	256	635	1.69	2,412.	10,300	1,648.
WAYNE_136	936.	2.29	335	766	2.71	2,144.	11,953	2,535.
WAYNE_146	578.	4.37	246	1,073	1.23	2,526.	10,341	712.
WEST_BUCK_002	442.	0.19	617	119	2.04	85.	874	901.
WEST_CHESTER_011	603.	1.57	238	374	0.40	946.	3,755	242.
WESTTOWN_000	241.	4.41	175	772	13.20	1,064.	3,102	3,182.
WHITEMARSH_132	1,755.	5.35	306	1,635	4.62	9,392.	47,828	8,107.
WHITEMARSH_141	1,139.	2.66	220	586	0.65	3,035.	11,130	745.
WHITEMARSH_142	1,035.	6.43	230	1,477	1.91	6,656.	25,481	1,977.
WHITEMARSH_164	1,145.	1.85	651	1,207	0.82	2,123.	23,039	941.
WOODBOURNE_351	2,824.	1.43	183	261	4.37	4,038.	12,307	12,328.
WOODBOURNE_353	2,052.	0.24	235	56	0.66	492.	1,927	1,355.

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 09/30/2020

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 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:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Remedial efforts completed

BUCKINGHAM_342*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

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
Install Recloser
Upgrade fusing
Remedial efforts completed

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
Remedial efforts completed

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
- Upgrade Transformer

Planned:

- Perform regularly scheduled tree clearance

CARMEL_001*Montgomery County***Completed:**

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

CARVER_000*Bucks County***Completed:**

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

CEDARBROOK_131*Montgomery 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
- Remedial efforts completed

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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

CHALFONT_002*Bucks County***Completed:**

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

CHANDLER_000*Chester County***Completed:**

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

Planned:

- Install cutout-mounted recloser

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:

- Perform regularly scheduled tree clearance

CONCORD_347*Delaware County***Completed:**

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

Planned:

- Replace underground cable

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
- Remedial efforts completed

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:**

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

FLINT_132*Montgomery County***Completed:**

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

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
Remedial efforts completed

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
Reconfigure circuit
Remedial efforts completed

HUNTING_PARK_030*Philadelphia County***Completed:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Reconfigure circuit
Remedial efforts completed

JARRETT_132*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

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
- Install tree-resistant wire

Planned:

- Install tree-resistant wire
- Perform regularly scheduled tree clearance

KING_135*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
- Remedial efforts completed

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
- Install cutout-mounted recloser
- Perform regularly scheduled tree clearance
- Upgrade primary wire
- Remedial efforts completed

LENAPE_351*Chester County***Completed:**

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

LEOPARD_001

Chester County

Completed:

Inspect circuit visually and with thermographic camera
Remedial efforts completed

LINE_1300CR

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 tree-resistant wire
Remedial efforts completed

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
Remedial efforts completed

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
Reconfigure circuit
Upgrade Transformer
Remedial efforts completed

LINE_300CR

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
Upgrade primary wire
Remedial efforts completed

LINE_3329

Delaware County

Completed:

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

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
Remedial efforts completed

LINE_6000*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

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
- Remedial efforts completed

LINE_744*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

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
- Remedial efforts completed

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:**

- Complete corrective reliability work orders

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

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
Install recloser
Perform regularly scheduled tree clearance
Remedial efforts completed

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
Remedial efforts completed

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:

- 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
- Remedial efforts completed

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
- Remedial efforts completed

NEWTOWN_SQUAR_133

Chester County

Completed:

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

Planned:

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

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
- Remedial efforts completed

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
Remedial efforts completed

NOLAN_002*Bucks County***Completed:**

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

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
Install animal protection

Planned:

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
Install animal protection

Planned:

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:

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

Planned:

Perform regularly scheduled tree clearance

RICHBORO_004

Bucks County

Completed:

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

Planned:

Complete corrective reliability work orders

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
Upgrade fusing
Remedial efforts completed

ROXBOROUGH_131

Philadelphia County

Completed:

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

Planned:

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
- Perform regularly scheduled tree clearance

Planned:

- Install recloser

SILES_135*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:

- 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
- Remedial efforts completed

TACONY_131*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
- Upgrade Transformer

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
- Perform regularly scheduled tree clearance

Planned:

- Complete corrective reliability work orders

TREVOSE_138*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

TULIP_000*Philadelphia County***Completed:**

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

UPPER_MERION_132*Chester County***Completed:**

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

Planned:

- 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
- Install cutout-mounted recloser
- Perform regularly scheduled tree clearance

Planned:

- Complete corrective reliability work orders
- Install cutout-mounted recloser

UPPER_MERION_351*Chester County***Completed:**

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

WAGONTOWN_000*Chester County***Completed:**

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

WANEETA_137*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

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
Remedial efforts completed

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
Install cutout-mounted recloser
Perform regularly scheduled tree clearance
Remedial efforts completed

WAYNE_136

Delaware County

Completed:

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

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
- Remedial efforts completed

WHITEMARSH_132

Montgomery County

Completed:

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

WHITEMARSH_141

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

WHITEMARSH_142

Montgomery County

Completed:

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

WHITEMARSH_164

Montgomery 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
- Remedial efforts completed

WOODBOURNE_351

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

WOODBOURNE_353

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

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).