



An Exelon Company

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May 1, 2019

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

Re: PECO 2019 First Quarter Reliability Report PUC Docket No. M-2016-2522508

Dear Secretary Chiavetta:

Enclosed is PECO's 2019 Quarterly Reliability Report for the period ending March 31, 2019 submitted pursuant to the Electric Service Reliability Regulations at 52 Pa. Code Chapter 57.

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

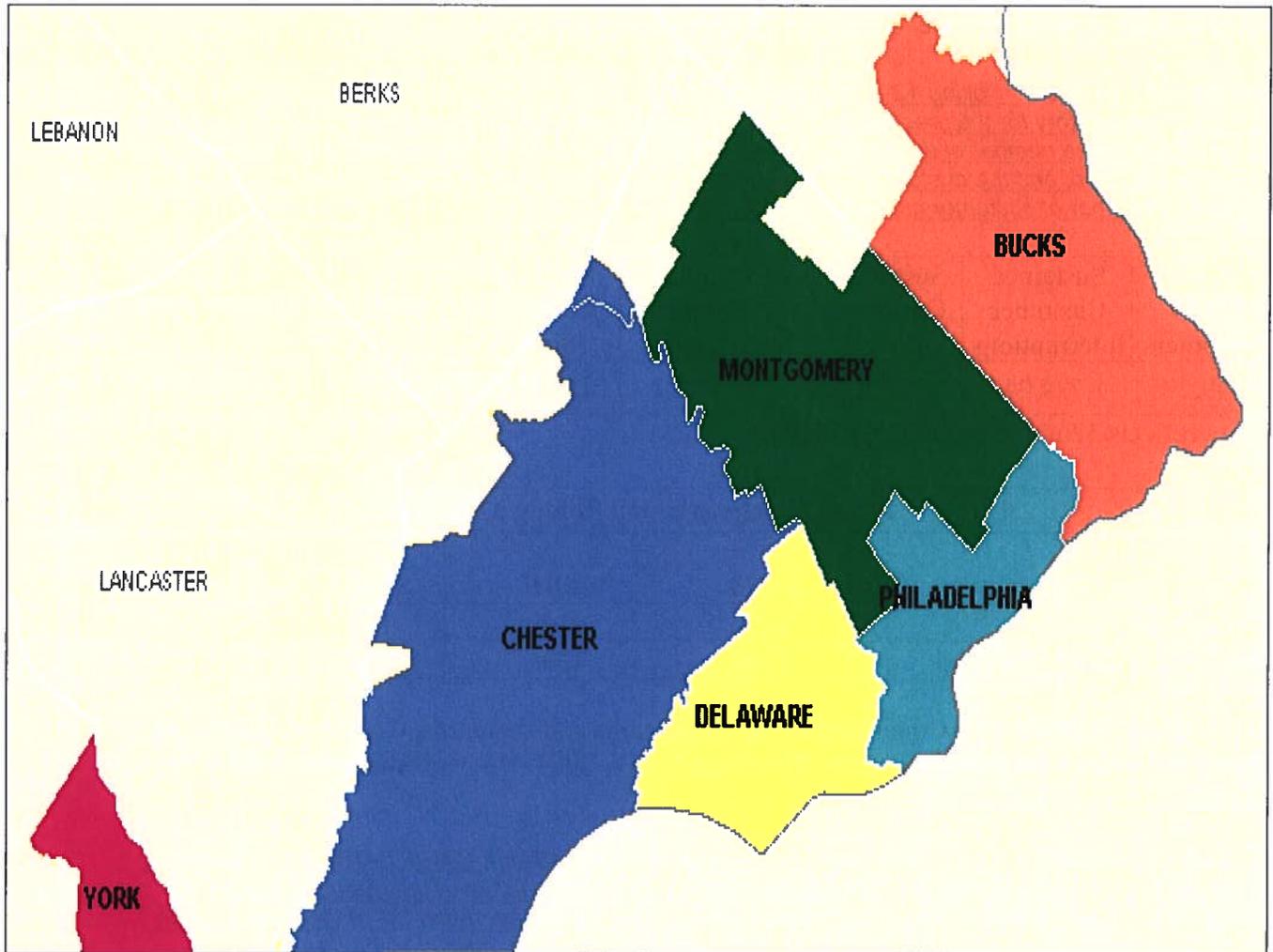
If you have any questions regarding this matter, please call me at 215-841-5777.

Sincerely,

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

Enclosure

PECO Energy Company Quarterly Reliability Report For Period Ending March 31, 2019



May 1, 2019

PECO Energy ("PECO")

Quarterly Reliability Report for the Period Ending March 31, 2018 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 2019.

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
1,649,295	1,724,048	3,205,893	1,389,220	192,353,595	1.05	112	117	0.74

Data reflects 12 months ending 03/31/2019.

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

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

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

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

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

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

12 Months Ending March 31, 2019					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,058.	7.4%	34,441	2.0%	2,279,761
Contact/Dig-In	124.	0.9%	20,546	1.2%	1,244,498
Equipment Failure	6,149.	42.7%	740,753	43.0%	78,361,709
Lightning	398.	2.8%	43,661	2.5%	5,392,576
Other	1,341.	9.3%	182,268	10.6%	17,159,590
T&S	17.	0.1%	35,183	2.0%	1,287,344
Unknown	660.	4.6%	52,934	3.1%	4,518,364
Vegetation-Broken/Uprooted	3,043.	21.1%	432,912	25.1%	63,391,283
Vegetation-Ingrowth	1,201.	8.3%	97,555	5.7%	11,753,100
Vehicles	402.	2.8%	83,795	4.9%	7,628,953

*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 (25.1% of all customer interruptions), as opposed to ingrowth (5.7% 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 through this decade and into the next. PECO is addressing this issue with a vegetation management to mitigate the threat to its facilities and customer reliability.

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 3/31/2019					
	1 st Quarter Tasks		YTD Tasks		2019 Total Planned
	Planned	Complete	Planned	Complete	
Recloser Inspections (Number of reclosers inspected)	24	27	24	27	215
Circuit Patrol & Thermography (Number of circuits patrolled)	180	281	180	281	972
Pole Inspections (Number of poles visually inspected)	1,967	12,249	1,967	12,249	32,834
Padmount Transformers (Number of transformers visually inspected)	1,415	930	1,415	930	9,619
Below Ground Transformers (Number of transformers visually inspected)	354	384	354	384	1,627
Substations (Number of substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	113	126	113	126	1,340
Unit Substations (Number of unit substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	505	529	505	529	2,980

Vegetation Management Preventive Maintenance Program – status as of 3/31/19					
	1 st Quarter Miles		YTD Miles		2019 Total Planned
	Planned	Complete	Planned	Complete	
Distribution Lift and Manual Trimming	520	720*	520	720	2,187
Transmission Trimming and Removals	50	50	50	50	198

* First quarter completed miles exceed the planned mileage due to an accelerated preventive maintenance schedule in 2019

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	\$0.9	\$0.3	\$0.9	\$0.3
System Performance	\$15.7	\$14.3	\$15.7	\$14.3
Facility Relocation	\$0.3	\$0.2	\$0.3	\$0.2
Maintenance	\$46.7	\$52.5	\$46.7	\$52.5
Total	\$64.3	\$68.0	\$64.3	\$68.0

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	\$12.1	\$15.3	\$12.1	\$15.3
Capacity Expansion	\$12.2	\$12.7	\$12.2	\$12.7
System Performance	\$76.2	\$79.0	\$76.2	\$79.0
Facility Relocation	\$2.8	\$4.4	\$2.8	\$4.4
Maintenance	\$28.4	\$36.1	\$28.4	\$36.1
Total	\$131.7	\$147.5	\$131.7	\$147.5

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, 2019 was as follows:

Aerial Lineman	434
Underground Lineman (Include UTS)	59
Transmission / Substation Mechanics, Operators	103
Energy Technicians	89
Aerial Foreman	62
Underground Foreman	19
Transmission / Substation Foreman	31
ET Foreman	4
Distribution Mech Apprentice	0
Total	801

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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
BLUE_GRASS_130	1,095.	6.58	47	307	0.17	7,202.	5,597	185.
BLUE_GRASS_144	1,124.	2.78	102	284	2.06	3,122.	5,329	2,314.
BLUE_GRASS_160	30.	1.00	64	64	0.00	30.	32	0.
BRADFORD_341	1,197.	3.31	163	538	3.86	3,964.	10,736	4,626.
BRADFORD_342	2,228.	3.07	206	632	1.87	6,843.	23,459	4,159.
BRADFORD_344	2,594.	2.05	101	208	2.43	5,325.	8,997	6,312.
BRADFORD_346	2,306.	2.18	86	187	4.91	5,038.	7,183	11,327.
BRADFORD_351	866.	2.08	320	665	1.15	1,798.	9,600	993.
BROOMALL_136	1,091.	3.16	119	376	2.18	3,450.	6,835	2,383.
BRYN_MAWR_134	431.	4.23	128	540	0.75	1,823.	3,879	323.
BUCKINGHAM_352	2,693.	1.31	109	143	2.73	3,529.	6,438	7,348.
BUCKINGHAM_361	794.	2.48	78	195	0.76	1,973.	2,576	604.
BUCKINGHAM_362	3,389.	2.89	89	256	3.19	9,805.	14,477	10,802.
BYBERRY_137	1,817.	1.86	96	178	0.01	3,382.	5,383	14.
BYBERRY_144	1,087.	2.60	99	257	0.10	2,825.	4,661	108.
BYBERRY_147	1,035.	1.21	102	123	1.18	1,248.	2,121	1,224.
BYBERRY_163	1,582.	1.16	40	47	0.00	1,839.	1,238	0.
BYBERRY_173	1,618.	1.85	77	142	0.32	2,986.	3,823	524.
BYBERRY_184	1,148.	5.50	77	423	4.22	6,312.	8,102	4,841.
CALLOWHILL_138	1,356.	3.90	71	277	1.20	5,286.	6,267	1,629.
CEDARBROOK_134	2,137.	2.10	107	224	1.43	4,480.	7,986	3,066.
CHALFONT_001	530.	0.34	171	58	4.01	181.	516	2,126.
CLAY_341	789.	3.97	159	631	0.93	3,134.	8,304	735.
CLAY_343	1,048.	4.37	106	463	7.59	4,583.	8,089	7,955.
COUNTY_LINE_004	572.	4.08	113	460	1.80	2,334.	4,387	1,030.
CRESCENTVILLE_135	1,907.	4.29	34	144	1.90	8,187.	4,583	3,619.
CRESCENTVILLE_136	2,607.	2.88	46	134	1.00	7,497.	5,808	2,600.
CROYDON_142	608.	5.09	76	388	0.04	3,096.	3,929	27.
CRUSHER_000	754.	4.75	150	714	0.06	3,579.	8,969	46.
DALEVILLE_341	1,179.	2.61	324	844	3.02	3,072.	16,586	3,562.
DANBORO_000	574.	8.06	97	780	4.03	4,624.	7,463	2,313.
DILTOWN_005	346.	4.85	123	595	1.03	1,679.	3,429	355.
DURHAM_003	563.	1.25	153	191	1.01	703.	1,791	567.
EAGLE_352	2,019.	2.54	87	222	3.40	5,121.	7,460	6,872.
EDDINGTON_138	761.	4.11	50	208	0.00	3,131.	2,634	3.
EDGELY_003	452.	4.36	87	380	1.94	1,969.	2,863	879.
ELKINS_PARK_004	512.	2.42	87	211	0.00	1,238.	1,801	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
FLINT_141	831.	1.90	220	417	0.46	1,576.	5,778	381.
FLINT_146	1,116.	3.05	157	480	1.29	3,404.	8,932	1,441.
FOULK_143	1,136.	2.01	183	367	0.49	2,283.	6,957	558.
GLADWYNE_001	184.	3.59	193	692	2.99	661.	2,122	551.
GLADWYNE_132	516.	2.11	265	560	3.35	1,089.	4,812	1,729.
HANOVER_001	1,046.	2.78	193	538	1.01	2,912.	9,375	1,061.
HARMONY_005	1,055.	5.25	78	408	0.08	5,538.	7,182	80.
HAYES_000	371.	3.28	423	1,387	3.38	1,216.	8,576	1,255.
HEATON_136	1,418.	2.43	84	205	1.05	3,448.	4,838	1,493.
HIGHLAND_000	317.	5.18	87	453	0.00	1,642.	2,394	0.
HOLMESBURG_139	1,048.	2.37	46	110	0.02	2,486.	1,915	20.
JARRETT_141	997.	2.00	100	201	1.51	1,994.	3,333	1,507.
JENKINTOWN_134	1,916.	2.52	91	230	2.26	4,824.	7,355	4,329.
JENKINTOWN_137	1,617.	1.77	165	292	2.00	2,858.	7,858	3,238.
JENKINTOWN_142	1,345.	2.14	85	181	0.75	2,883.	4,065	1,014.
JENKINTOWN_144	1,854.	2.07	58	119	0.64	3,842.	3,682	1,195.
LENAPE_000	436.	1.82	162	294	2.10	792.	2,137	914.
LINE_131_00WO	544.	1.96	209	409	0.04	1,065.	3,706	24.
LINE_136_00	1,351.	4.52	111	501	0.70	6,103.	11,291	947.
LINE_189_00EM	969.	2.35	119	280	0.10	2,279.	4,526	101.
LINE_2200CR	750.	3.13	143	447	1.15	2,345.	5,589	861.
LINE_2507	1,971.	3.37	43	146	0.05	6,633.	4,799	106.
LINE_3307NT	2,167.	3.64	145	528	2.13	7,896.	19,064	4,610.
LINE_534	1,160.	3.13	50	156	0.07	3,631.	3,008	80.
LINE_7200WH	222.	3.32	180	599	0.00	738.	2,218	0.
LINE_7500PB	2,967.	2.18	169	368	1.20	6,458.	18,208	3,561.
LINTON_352	3,430.	1.69	83	140	2.35	5,794.	8,015	8,062.
LLANERCH_146	1,797.	1.47	112	164	2.54	2,642.	4,925	4,559.
LLANERCH_163	1,474.	2.34	176	412	0.07	3,445.	10,117	106.
LLANERCH_166	1,540.	3.13	103	323	0.00	4,821.	8,289	2.
MASTER_131	3,367.	2.43	35	86	1.78	8,182.	4,834	5,983.
MATSON_131	766.	2.37	216	511	1.98	1,812.	6,525	1,516.
MATTHEWS_000	376.	3.14	104	327	0.05	1,179.	2,048	18.
MEDIA_011	576.	2.11	123	259	3.02	1,216.	2,483	1,739.
MIDDLETOWN_133	1,440.	2.35	91	213	0.62	3,382.	5,111	892.
MONROE_002	677.	4.41	157	691	0.00	2,983.	7,800	0.
MORRISVILLE_011	675.	1.81	437	791	2.05	1,222.	8,904	1,387.
MOSER_013	990.	2.02	81	163	1.14	1,999.	2,686	1,133.
NEWLINVILLE_344	2,647.	3.92	93	366	4.36	10,374.	16,161	11,531.

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
NEWLINVILLE_353	2,247.	2.20	264	581	2.10	4,948.	21,774	4,722.
NEWLINVILLE_362	2,533.	2.88	134	385	4.86	7,302.	16,264	12,308.
NEWTOWN_SQUAR_136	1,354.	6.62	92	608	2.00	8,966.	13,709	2,704.
NOLAN_004	864.	3.09	166	513	3.17	2,667.	7,394	2,739.
NORTH_WALES_354	1,203.	2.16	170	367	0.00	2,594.	7,351	0.
NORTH_WALES_361	1,876.	1.39	155	215	0.50	2,613.	6,729	945.
NORTH_WALES_362	2,006.	1.26	120	150	1.29	2,518.	5,026	2,585.
NORTH_WALES_363	3,504.	2.09	172	360	1.18	7,325.	21,020	4,126.
NOTTINGHAM_011	252.	2.59	359	929	0.00	653.	3,904	0.
OAKMONT_002	614.	2.96	94	278	1.02	1,816.	2,848	628.
PAGE_000	866.	2.99	200	599	1.00	2,590.	8,645	862.
PARRISH_136	2,947.	2.70	45	121	1.45	7,964.	5,957	4,287.
PERKIOMEN_354	2,772.	3.24	66	214	1.16	8,988.	9,865	3,223.
PERKIOMEN_363	2,611.	2.19	134	294	0.47	5,721.	12,801	1,240.
PLANEBROOK_344	1,857.	3.18	222	706	0.96	5,907.	21,847	1,782.
PLYMOUTH_135	585.	4.13	184	760	1.95	2,416.	7,405	1,143.
PLYMOUTH_160	783.	1.66	126	210	0.58	1,303.	2,741	452.
PLYMOUTH_172	2,264.	2.02	116	234	0.00	4,566.	8,814	0.
PULASKI_134	2,876.	2.46	48	118	1.75	7,077.	5,671	5,020.
PULASKI_136	1,930.	3.63	33	119	1.50	7,009.	3,836	2,900.
SADSBURY_000	614.	4.44	71	314	4.03	2,727.	3,218	2,476.
SAVILLE_131	1,080.	3.61	52	187	0.00	3,899.	3,357	0.
SCHWENKSVILLE_001	533.	3.72	248	922	0.17	1,982.	8,194	92.
SNOWDEN_000	574.	4.31	92	395	0.00	2,473.	3,775	0.
STARKEY_000	381.	2.90	151	436	0.02	1,104.	2,769	6.
TACONY_134	1,981.	2.69	37	99	0.42	5,335.	3,280	836.
TREDFFRIN_131	1,273.	2.21	52	115	0.76	2,812.	2,445	972.
TREVOSE_136	1,070.	3.91	59	229	4.64	4,182.	4,080	4,962.
TROOPER_002	654.	3.67	133	489	2.12	2,403.	5,328	1,389.
UPPER_DARBY_134	1,999.	1.71	76	130	0.19	3,419.	4,318	380.
UPPER_DARBY_141	1,384.	2.97	58	173	0.01	4,109.	3,989	19.
WARMINSTER_161	1,498.	1.13	80	90	0.30	1,686.	2,247	448.
WARRINGTON_362	2,334.	1.75	95	166	1.40	4,085.	6,461	3,267.
WEST_GROVE_002	424.	3.02	296	894	3.01	1,281.	6,314	1,275.
WESTMORELAND_132	1,392.	1.58	81	128	0.40	2,202.	2,963	557.
WHITEMARSH_133	694.	3.15	111	350	0.02	2,184.	4,052	12.
WHITEMARSH_161	1,211.	0.76	288	219	0.50	921.	4,420	606.
WHITEMARSH_163	331.	3.50	147	514	2.89	1,157.	2,833	956.

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 03/31/19

BLUE_GRASS_130

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Upgrade secondary wire
- Upgrade fusing
- Install animal protection

Planned:

- Inspect circuit visually and with thermographic camera
- Install animal protection
- Upgrade secondary wire
- Install cutout-mounted recloser

BLUE_GRASS_144

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Install animal protection

Planned:

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

BLUE_GRASS_160

Philadelphia County

Completed:

- Replace underground cable

Planned:

- Remedial efforts completed

BRADFORD_341

Chester County

Completed:

- Complete corrective reliability work orders

Planned:

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

BRADFORD_342

Chester County

Completed:

- Replace cable

Planned:

- Inspect circuit visually and with thermographic camera

BRADFORD_344*Chester County***Completed:**

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Upgrade fusing

BRADFORD_346*Chester County***Completed:**

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

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

BRADFORD_351*Chester County***Completed:**

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

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

BROOMALL_136*Delaware County***Completed:**

Perform regularly scheduled tree clearance

Planned:

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

BRYN_MAWR_134*Delaware County***Planned:**

Inspect circuit visually and with thermographic camera

Circuit under analysis

BUCKINGHAM_352*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Replace transformer

Upgrade switches

Planned:

Remedial efforts completed

BUCKINGHAM_361*Bucks County***Completed:**

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

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

BUCKINGHAM_362*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

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

Complete corrective reliability work orders

Install tree-resistant wire

Planned:

Remedial efforts completed

BYBERRY_137*Philadelphia County***Planned:**

Inspect circuit visually and with thermographic camera

Circuit under analysis

BYBERRY_144*Montgomery County***Planned:**

Inspect circuit visually and with thermographic camera

Upgrade secondary wire

BYBERRY_147*Philadelphia County***Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Planned:

Reconfigure circuit

Install cutout-mounted recloser

BYBERRY_163*Philadelphia County***Completed:**

Inspect circuit visually and with thermographic camera

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

Complete corrective reliability work orders

Install animal protection

Planned:

Install cutout-mounted recloser

BYBERRY_173*Philadelphia County***Completed:**

- Inspect selected areas of circuit for vegetation issues and correct as needed
- Complete corrective reliability work orders
- Install animal protection
- Replace transformer

Planned:

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

BYBERRY_184*Bucks County***Completed:**

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

Planned:

- Upgrade secondary wire

CALLOWHILL_138*Philadelphia County***Planned:**

- Inspect circuit visually and with thermographic camera
- Circuit under analysis

CEDARBROOK_134*Philadelphia County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

CHALFONT_001*Bucks County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

CLAY_341*Chester County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera
- Upgrade secondary wire

CLAY_343

Chester County

Completed:

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

COUNTY_LINE_004

Montgomery County

Completed:

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

Upgrade secondary wire

CRESCENTVILLE_135

Philadelphia County

Completed:

Complete corrective reliability work orders

Install animal protection

Planned:

Inspect circuit visually and with thermographic camera

CRESCENTVILLE_136

Philadelphia County

Completed:

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

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

CROYDON_142

Bucks County

Completed:

Inspect circuit visually and with thermographic camera

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

Complete corrective reliability work orders

Install animal protection

Planned:

Upgrade secondary wire

CRUSHER_000

Montgomery County

Completed:

Perform regularly scheduled tree clearance

Complete corrective reliability work orders

Replace transformer

Planned:

Inspect circuit visually and with thermographic camera

DALEVILLE_341*Chester County***Completed:**

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

Planned:

Inspect circuit visually and with thermographic camera

DANBORO_000*Bucks County***Completed:**

Perform regularly scheduled tree clearance
Inspect selected areas of circuit for vegetation issues and correct as needed

Planned:

Inspect circuit visually and with thermographic camera

DILTOWN_005*Chester County***Completed:**

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

Planned:

Inspect circuit visually and with thermographic camera

DURHAM_003*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Perform regularly scheduled tree clearance
Circuit under analysis

EAGLE_352*Chester County***Completed:**

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

Planned:

Remedial efforts completed

EDDINGTON_138*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Circuit under analysis

EDGELY_003*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Perform regularly scheduled tree clearance

Upgrade secondary wire

ELKINS_PARK_004*Montgomery County***Completed:**

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

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

Install tree-resistant wire

FLINT_141*Montgomery County***Completed:**

Complete corrective reliability work orders

Upgrade fusing

Planned:

Inspect circuit visually and with thermographic camera

Install tree-resistant wire

Upgrade secondary wire

FLINT_146*Montgomery County***Completed:**

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

Upgrade fusing

Planned:

Inspect circuit visually and with thermographic camera

Install tree-resistant wire

Upgrade secondary wire

FOULK_143*Delaware County***Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Planned:

Complete corrective reliability work orders

GLADWYNE_001*Delaware County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

GLADWYNE_132*Delaware County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

HANOVER_001*Montgomery County***Planned:**

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

HARMONY_005*Chester County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

HAYES_000*Chester County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

HEATON_136*Montgomery County***Completed:**

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

Planned:

- Complete corrective reliability work orders
- Install tree-resistant wire
- Extend circuit and install switches

HIGHLAND_000

Chester County

Planned:

Inspect circuit visually and with thermographic camera
Circuit under analysis

HOLMESBURG_139

Philadelphia County

Completed:

Install animal protection

Planned:

Inspect circuit visually and with thermographic camera

JARRETT_141

Montgomery County

Completed:

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

Planned:

Inspect circuit visually and with thermographic camera

JENKINTOWN_134

Montgomery County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Upgrade secondary wire

JENKINTOWN_137

Montgomery County

Completed:

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

Planned:

Upgrade secondary wire

JENKINTOWN_142

Philadelphia County

Completed:

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

Planned:

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

JENKINTOWN_144*Montgomery County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Circuit under analysis

LENAPE_000*Chester County***Planned:**

Inspect circuit visually and with thermographic camera

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

LINE_131_00WO*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Planned:

Remedial efforts completed

LINE_136_00*Bucks County***Completed:**

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

LINE_189_00EM*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Replace transformer

Planned:

Perform regularly scheduled tree clearance

LINE_2200CR*Chester County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Circuit under analysis

LINE_2507*Delaware County***Completed:**

Replace transformer

Planned:

Inspect circuit visually and with thermographic camera

LINE_3307NT*Chester County***Completed:**

Inspect circuit visually and with thermographic camera

Planned:

Complete corrective reliability work orders

Install animal protection

LINE_534*Philadelphia County***Planned:**

Inspect circuit visually and with thermographic camera

Circuit under analysis

LINE_7200WH*Montgomery County***Planned:**

Inspect circuit visually and with thermographic camera

Circuit under analysis

LINE_7500PB*Chester County***Completed:**

Replace recloser

Planned:

Inspect circuit visually and with thermographic camera

LINTON_352*Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Planned:

Remedial efforts completed

LLANERCH_146*Delaware County***Completed:**

Perform regularly scheduled tree clearance

Complete corrective reliability work orders

Planned:

Inspect circuit visually and with thermographic camera

LLANERCH_163*Delaware County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera
- Install tree-resistant wire

LLANERCH_166*Delaware County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

MASTER_131*Philadelphia County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

MATSON_131*Delaware County***Completed:**

- Perform regularly scheduled tree clearance

Planned:

- Inspect circuit visually and with thermographic camera
- Install tree-resistant wire

MATTHEWS_000*Chester County***Completed:**

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

Planned:

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

MEDIA_011*Delaware County***Completed:**

- Perform regularly scheduled tree clearance

Planned:

- Inspect circuit visually and with thermographic camera
- Install tree-resistant wire

MIDDLETOWN_133

Delaware County

Completed:

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

Planned:

Inspect circuit visually and with thermographic camera

MONROE_002

Delaware County

Completed:

Perform regularly scheduled tree clearance

Planned:

Inspect circuit visually and with thermographic camera
Install tree-resistant wire

MORRISVILLE_011

Bucks County

Completed:

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

Planned:

Complete corrective reliability work orders

MOSER_013

Chester County

Completed:

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

Planned:

Inspect circuit visually and with thermographic camera

NEWLINVILLE_344

Chester County

Completed:

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

Planned:

Inspect circuit visually and with thermographic camera

NEWLINVILLE_353

Chester County

Planned:

Inspect circuit visually and with thermographic camera
Complete corrective reliability work orders
Install tree-resistant wire

NEWLINVILLE_362

Chester County

Completed:

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

Planned:

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

NEWTOWN_SQUAR_136

Delaware County

Planned:

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

NOLAN_004

Bucks County

Completed:

- Inspect circuit visually and with thermographic camera

Planned:

- Circuit under analysis

NORTH_WALES_354

Montgomery County

Planned:

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

NORTH_WALES_361

Montgomery County

Completed:

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

Planned:

- Inspect circuit visually and with thermographic camera

NORTH_WALES_362

Montgomery County

Completed:

- Complete corrective reliability work orders
- Replace transformer

Planned:

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

NORTH_WALES_363

Montgomery County

Completed:

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

Planned:

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

NOTTINGHAM_011

Chester County

Completed:

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

Planned:

- Install tree-resistant wire

OAKMONT_002

Delaware County

Completed:

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

Planned:

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

PAGE_000

Chester County

Completed:

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

Planned:

- Inspect circuit visually and with thermographic camera

PARRISH_136

Philadelphia County

Completed:

- Complete corrective reliability work orders
- Install animal protection

Planned:

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

PERKIOMEN_354*Montgomery County***Completed:**

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

Planned:

- Remedial efforts completed

PERKIOMEN_363*Montgomery County***Completed:**

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

Planned:

- Remedial efforts completed

PLANEBROOK_344*Chester County***Completed:**

- Replace recloser
- Replace transformer

Planned:

- Inspect circuit visually and with thermographic camera

PLYMOUTH_135*Montgomery County***Completed:**

- Complete corrective reliability work orders

Planned:

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

PLYMOUTH_160*Montgomery County***Planned:**

- Inspect circuit visually and with thermographic camera
- Circuit under analysis

PLYMOUTH_172*Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera

Planned:

- Complete corrective reliability work orders
- Upgrade fusing

PULASKI_134

Philadelphia County

Planned:

Inspect circuit visually and with thermographic camera
Circuit under analysis

PULASKI_136

Philadelphia County

Completed:

Complete corrective reliability work orders

Planned:

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

SADSBURY_000

Chester County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Circuit under analysis

SAVILLE_131

Delaware County

Planned:

Inspect circuit visually and with thermographic camera
Circuit under analysis

SCHWENKSVILLE_001

Montgomery County

Completed:

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

Planned:

Inspect selected areas of circuit for vegetation issues and correct as needed
Install tree-resistant wire

SNOWDEN_000

Chester County

Completed:

Inspect circuit visually and with thermographic camera

Planned:

Install recloser
Replace poles and cross arms

STARKEY_000*Bucks County***Completed:**

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

Planned:

- Remedial efforts completed

TACONY_134*Philadelphia County***Completed:**

- Inspect circuit visually and with thermographic camera
- Complete corrective reliability work orders
- Replace transformer
- Upgrade fusing

Planned:

- Complete corrective reliability work orders
- Replace transformer
- Upgrade secondary wire

TREDYFFRIN_131*Chester County***Planned:**

- Inspect circuit visually and with thermographic camera
- Circuit under analysis

TREVOSE_136*Bucks County***Completed:**

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

Planned:

- Upgrade secondary wire

TROOPER_002*Montgomery County***Completed:**

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

Planned:

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

UPPER_DARBY_134

Delaware County

Completed:

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

Planned:

- Inspect circuit visually and with thermographic camera
- Install animal protection
- Upgrade fusing
- Install recloser

UPPER_DARBY_141

Delaware County

Completed:

- Complete corrective reliability work orders
- Install animal protection

Planned:

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

WARMINSTER_161

Bucks County

Completed:

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

Planned:

- Complete corrective reliability work orders
- Upgrade secondary wire

WARRINGTON_362

Bucks County

Completed:

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

Planned:

- Complete corrective reliability work orders

WESTMORELAND_132*Philadelphia County***Completed:**

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

Planned:

- Complete corrective reliability work orders
- Install animal protection
- Upgrade secondary wire

WEST_GROVE_002*Chester County***Planned:**

- Inspect circuit visually and with thermographic camera
- Circuit under analysis

WHITEMARSH_133*Montgomery County***Planned:**

- Inspect circuit visually and with thermographic camera
- Circuit under analysis

WHITEMARSH_161*Montgomery County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera

WHITEMARSH_163*Montgomery County***Completed:**

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

Planned:

- Inspect circuit visually and with thermographic camera
- Complete corrective reliability work orders
- Install tree-resistant wire
- Upgrade secondary wire

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).