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May 11, 2021

**VIA E-FILING ONLY**

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

**Re: Revised PECO 2020 Fourth Quarter Reliability Report PUC Docket No. M-2016-2522508**

Dear Secretary Chiavetta:

Enclosed is PECO's revised 2020 Quarterly Reliability Report for the period ending December 31, 2020 submitted pursuant to the Electric Service Reliability Regulations at 52 Pa. Code Chapter 57. PECO discovered that the data contained in Appendix A of the report was incorrect and is thus refiling a corrected version of the report.

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.

Due to the ongoing COVID-19 pandemic, PECO's office personnel are working remotely. Accordingly, PECO will not have its usual access to photocopying and U.S. mail, among other services. PECO requests that all communications with PECO 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.

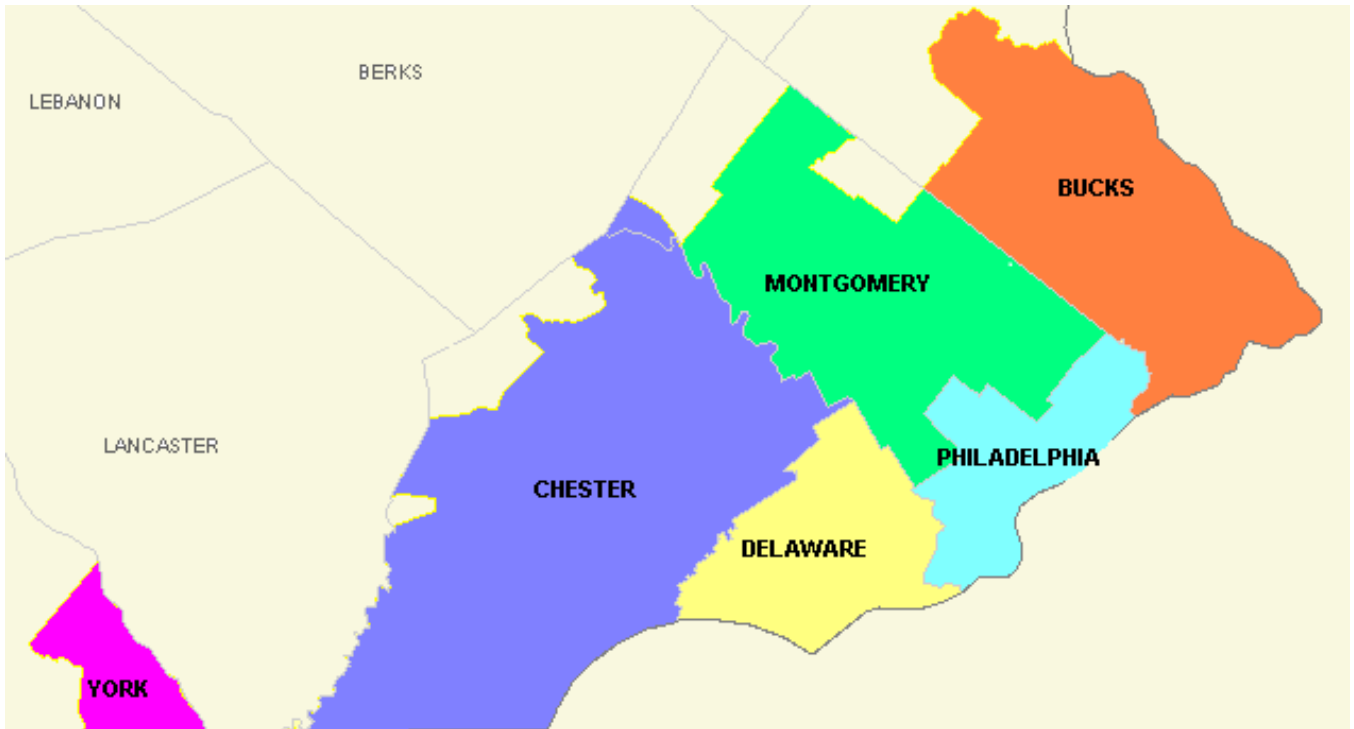
Sincerely,

*Richard G. Webster, Jr. / PAS*

Enclosure

Cc: John Van Zant (via email only)  
Dan Searforce (via email only)

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



**February 1, 2021**

**PECO Energy (“PECO”)**

**Quarterly Reliability Report for the Period Ending December 31, 2020 filed with the Pennsylvania Public Utility Commission.**

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

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

PECO experienced no major events in the fourth quarter of 2020.

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

PECO Customers	Sustained Customer Interruptions	Sustained Customer Hours	Momentary Customer Interruptions	Sustained Customer Minutes	SAIFI	CAIDI	SAIDI	MAIFI
1,673,328	1,506,978	3,390,813	1,440,715	203,448,803	0.90	135	122	0.86

Data reflects 12 months ending 12/31/2020.

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

SAIFI and SAIDI are below their Benchmark and Standard and CAIDI is above 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 index of rolling 12-month 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 December 31, 2020					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,388	10.1%	41,577	2.8%	2,531,140
Contact/Dig-In	142	1.0%	14,270	0.9%	1,036,897
Equipment Failure	5,295	38.7%	523,412	34.7%	55,842,655
Lightning	221	1.6%	30,397	2.0%	3,903,458
Other	569	4.2%	74,183	4.9%	7,217,462
T&S	19	0.1%	56,699	3.8%	2,109,076
Unknown	420	3.1%	41,660	2.8%	6,975,392
Vegetation-Broken/Uprooted	4,440	32.4%	600,624	39.9%	108,529,255
Vegetation-Ingrowth	810	5.9%	57,013	3.8%	9,414,131
Vehicles	381	2.8%	67,143	4.5%	5,889,337

\*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 (39.9% of all customer interruptions), as opposed to ingrowth (3.8% 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 occur for several years. PECO is addressing this issue with a vegetation management program to continue 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).”

*No data required for fourth quarter report*

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

*No data required for fourth quarter report*

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

*No data required for fourth quarter report*

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

PECO’s full-time trade staff as of December 31, 2020 was as follows:

Aerial Lineman	405
Underground Lineman (Include UTS)	64
Transmission / Substation Mechanics, Operators	110
Energy Technicians	84
Aerial Foreman	77
Underground Foreman	18
Transmission / Substation Foreman	36
ET Foreman	7
Distribution Mech Apprentice	0
Total	801

**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	2216	1.59	27	43	0.56	1233	3532	1599
BELLEVUE_133	1395	0.65	249	161	3.34	4661	902	3744
BELLEVUE_134	866	1.67	33	55	1.05	908	1447	790
BETHAYRES_135	735	0.35	101	35	4.26	3130	256	431
BLUE_GRASS_134	1359	0.15	170	26	0.00	0	205	581
BLUE_GRASS_140	1669	0.32	149	48	0.17	276	534	1324
BRYN_MAWR_131	893	0.82	777	636	0.42	372	731	9464
BUCK_000	498	2.47	96	236	3.31	1649	1229	1961
BUCKINGHAM_342	3116	1.50	120	180	2.22	6908	4686	9361
BUCKINGHAM_344	1610	0.44	69	30	0.00	2	702	812
BUCKINGHAM_354	1780	2.91	98	285	2.16	3836	5182	8469
BUCKINGHAM_371	2091	2.37	109	258	3.37	7045	4954	9004
CALLOWHILL_132	3179	1.20	68	82	0.29	937	3809	4332
CALLOWHILL_133	2025	1.01	32	33	1.83	3713	2047	1107
CARMEL_001	430	0.02	280	7	0.00	0	10	47
CARVER_000	364	11.44	99	1133	4.05	1474	4163	6874
CEDARBROOK_131	1013	0.34	228	78	0.01	9	346	1315
CEDARBROOK_136	591	1.25	97	121	0.00	0	737	1189
CHALFONT_002	508	2.07	87	181	2.99	1521	1050	1528
CHANDLER_000	405	7.49	158	1183	5.24	2121	3035	7988
CHESTNUT_HILL_032	602	0.15	47	7	0.11	67	90	71
CONCORD_347	1521	1.09	226	246	1.31	1996	1659	6248
CONCORD_351	2286	4.60	136	624	9.59	21918	10506	23776
DOYLESTOWN_002	714	0.06	342	19	0.00	0	40	228
DOYLESTOWN_004	814	2.96	125	370	2.00	1632	2409	5020
DURHAM_005	512	0.19	52	10	0.00	0	99	85
DUTTON_004	313	2.28	131	299	0.00	1	713	1562
EAGLE_342	2857	1.63	179	291	3.52	10046	4644	13864
EDDINGTON_134	744	1.01	52	53	0.85	636	750	656
EDDINGTON_142	1154	0.76	284	215	2.03	2343	874	4137
EMILIE_132	1287	1.11	98	108	0.06	77	1423	2318
FALLS_351	2238	1.80	91	164	4.27	9557	4024	6111
FLINT_132	1267	2.36	153	362	0.52	657	2995	7635
FLINT_144	840	1.28	132	169	0.40	340	1071	2359
FOULK_131	1425	1.75	129	226	2.72	3878	2487	5366
GERMANTOWN_014	582	2.37	73	174	0.07	39	1382	1690
GLADWYNE_133	605	0.62	232	144	5.66	3425	376	1451
GLADWYNE_138	931	2.36	104	247	2.43	2258	2197	3826
GOSHEN_352	2972	1.66	150	249	1.19	3544	4945	12332
HUNTING_PARK_030	743	1.24	124	153	0.00	0	920	1899

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	1403	1.73	106	183	1.73	2433	2434	4281
KENNETT_SQUAR_005	302	8.26	157	1298	9.86	2979	2494	6535
KING_135	399	1.84	114	210	1.82	726	736	1396
LANDENBERG_000	547	5.55	185	1027	3.41	1867	3038	9363
LANE_002	745	3.63	204	741	3.06	2282	2707	9204
LENAPE_342	1842	1.50	186	279	4.80	8833	2763	8561
LENAPE_351	1807	4.16	334	1388	6.35	11470	7520	41811
LEOPARD_001	451	1.31	786	1031	2.02	913	592	7753
LINE_1300CR	2525	2.17	347	753	0.56	1425	5476	31707
LINE_132_00WO	594	2.40	145	347	1.15	682	1427	3439
LINE_2394	1745	0.09	127	12	0.01	9	161	340
LINE_300CR	1260	0.67	310	209	0.79	998	849	4381
LINE_3329	230	0.02	274	6	0.03	6	5	23
LINE_3340	929	1.02	65	66	0.01	11	947	1023
LINE_6000	15	3.60	449	1615	0.00	0	54	404
LINE_708	1319	3.04	12	36	0.00	1	4012	791
LINE_744	333	3.04	46	139	0.00	0	1013	773
LINE_800CR	1814	2.85	226	645	1.76	3186	5170	19502
LINTON_343	2885	1.82	239	435	0.98	2823	5247	20933
LINTON_351	3085	0.71	243	172	2.19	6741	2185	8835
MIDDLETOWN_131	923	1.04	143	150	0.01	11	964	2303
MIDDLETOWN_142	1368	1.08	476	515	1.21	1658	1479	11740
MIDDLETOWN_143	1561	1.46	155	225	2.91	4544	2275	5859
MIDDLETOWN_349	2311	3.49	166	579	1.40	3244	8061	22319
MONROE_004	400	2.14	205	438	2.47	987	855	2919
MOON_006	277	2.00	208	415	2.92	809	553	1915
MORTON_140	1338	0.69	47	32	0.00	0	924	720
MORTON_142	1873	2.76	127	350	2.59	4846	5166	10941
NEW_HOPE_001	492	5.16	135	697	11.47	5644	2538	5715
NEW_HOPE_002	616	2.79	59	166	10.00	6163	1720	1699
NEWLINVILLE_351	1398	2.63	199	524	3.26	4553	3682	12207
NEWLINVILLE_352	2412	1.06	108	115	1.27	3072	2560	4604
NEWLINVILLE_361	1032	1.68	355	594	1.12	1159	1729	10223
NEWTOWN_SQUAR_133	784	1.12	552	616	0.87	679	876	8052
NEWTOWN_SQUAR_134	984	1.99	174	348	1.33	1309	1961	5700
NOLAN_002	698	1.69	388	658	5.67	3955	1183	7650
NORTH_WALES_366	2688	0.75	175	131	0.76	2051	2010	5867
PARRISH_139	1039	0.65	47	31	0.34	349	680	534
PLYMOUTH_181	980	0.80	214	171	0.09	91	783	2796
POOLS_001	640	1.21	82	100	0.00	0	776	1066
PULASKI_133	3048	2.00	74	149	2.05	6260	6104	7579
PULASKI_137	380	1.29	45	58	0.00	0	491	365

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
RICHBORO_004	407	0.14	526	76	3.11	1265	59	517
RICHMOND_143	2180	0.03	50	2	0.00	0	66	55
ROXBOROUGH_131	2026	0.84	121	102	0.02	37	1704	3445
ROXBOROUGH_135	1318	0.20	85	17	0.30	401	264	373
SAVILLE_136	2047	1.32	86	113	1.33	2718	2702	3853
SCOTT_002	266	1.13	645	730	0.07	18	301	3235
SILES_135	1343	0.10	372	36	1.50	2011	130	807
STONY_001	398	7.45	188	1403	2.15	854	2965	9305
TACONY_131	1032	1.05	33	34	0.00	0	1083	592
TANGUY_000	193	2.71	305	826	2.98	576	523	2658
TREDYFFRIN_132	619	1.85	322	595	0.78	480	1145	6136
TREVOSE_138	1190	0.24	190	47	1.05	1255	291	923
TULIP_000	487	0.00	0	0	0.00	0	0	0
UPPER_MERION_132	1140	1.50	483	726	1.27	1445	1713	13785
UPPER_MERION_141	740	1.77	658	1164	1.11	821	1309	14360
UPPER_MERION_351	3025	0.78	284	221	0.55	1677	2353	11137
WAGONTOWN_000	567	3.08	68	208	3.99	2263	1744	1962
WANEETA_137	1202	3.26	33	106	1.95	2347	3920	2132
WARMINSTER_141	1845	1.94	75	145	1.13	2078	3572	4470
WARRINGTON_364	1678	1.13	119	134	0.00	8	1889	3735
WAYNE_131	976	0.85	51	44	1.58	1542	830	709
WAYNE_136	939	1.45	529	769	1.90	1788	1364	12027
WAYNE_146	579	4.47	244	1092	2.91	1684	2587	10537
WEST_BUCK_002	444	0.42	790	331	1.14	505	186	2449
WEST_CHESTER_011	604	1.96	203	399	0.33	200	1186	4018
WESTTOWN_000	241	5.46	190	1040	11.21	2701	1317	4179
WHITEMARSH_132	1755	1.28	94	120	2.90	5081	2239	3497
WHITEMARSH_141	1140	1.21	45	54	0.04	41	1375	1032
WHITEMARSH_142	1037	2.71	66	178	1.76	1825	2810	3084
WHITEMARSH_164	1145	0.86	125	108	0.00	5	986	2061
WOODBOURNE_351	2825	1.19	63	75	3.19	9024	3375	3543
WOODBOURNE_353	2055	0.60	382	228	1.32	2711	1229	7819

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

## Appendix B

Remedial efforts taken and planned for 5% worst performing circuits as of 12/31/2020

### **BALA\_131**

*Philadelphia County*

#### **Completed:**

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

### **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:**

- 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
- Remedial efforts completed

### **BETHAYRES\_135**

*Montgomery County*

#### **Completed:**

- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Replace underground cable
- Remedial efforts completed

### **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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**CALLOWHILL\_133***Philadelphia County***Completed:**

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

**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
- Install recloser
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**CONCORD\_347***Delaware 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

**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
- Remedial efforts completed

**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  
Perform regularly scheduled tree clearance  
Remedial efforts completed

**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  
Remedial efforts completed

**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  
Perform regularly scheduled tree clearance

Remedial efforts completed

**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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**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 cutout-mounted recloser
- 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  
Install tree-resistant wire  
Remedial efforts completed

**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  
Install tree-resistant wire  
Upgrade Transformer  
Remedial efforts completed

**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  
Inspect selected areas of circuit for vegetation issues and correct as needed  
Install recloser  
Remedial efforts completed

**NEWTOWN\_SQUAR\_134**

*Delaware County*

**Completed:**

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

**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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**PULASKI\_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

**RICHBORO\_004***Bucks County***Completed:**

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

**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
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**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
- Install recloser
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**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
- Replace underground cable
- Remedial efforts completed

**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
- Upgrade Transformer
- Remedial efforts completed

**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
- Remedial efforts completed

**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
- Upgrade primary wire
- Remedial efforts completed

**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
- Remedial efforts completed

**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
- Remedial efforts completed

**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).