



peco<sup>SM</sup>

AN EXELON COMPANY

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February 1, 2023

**VIA E-FILING**

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

**Re: PECO 2022 Fourth Quarter Reliability Report PUC Docket No. M-2016-2522508**

Dear Secretary Chiavetta:

Enclosed is PECO's 2022 Quarterly Reliability Report for the period ending December 31, 2022 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.

Thank you for your assistance in this matter and please direct any questions regarding the above to Megan McDevitt, Manager, Retail Rates at (215) 841 6361 or via email: [megan.mcdevitt@exeloncorp.com](mailto:megan.mcdevitt@exeloncorp.com).

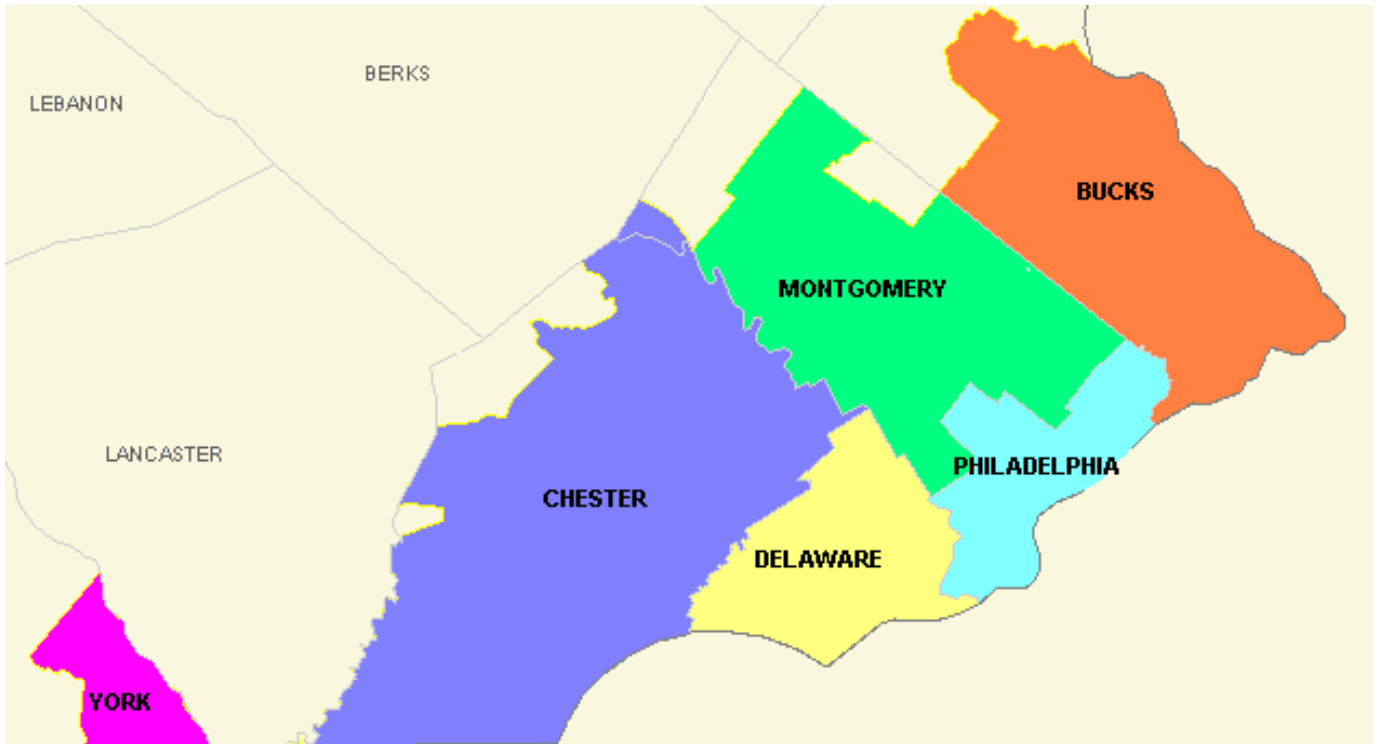
Sincerely,



Enclosure

Cc: John Van Zant (via email only)  
Dan Searfoorce (via email only)  
Harry R. Bidelspach (via email only)  
Office of Consumer Advocate (via email only)  
Office of Small Business Advocate (via email only)

# PECO Energy Company Quarterly Reliability Report For Period Ending December 31, 2022



**February 1, 2023**

**PECO Energy (“PECO”)**

**Quarterly Reliability Report for the Period Ending December 31, 2022 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.”

In the fourth quarter of 2022, PECO experienced no events that qualified as major events under Pa. Code § 57.192, which specifies that a minimum of 10% of customers must be affected for the event to qualify.

**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
1,684,405	1,198,241	1,980,879	1,274,899	118,852,712	0.71	99	71	0.76

Data reflects 12 months ending 12/31/2022.

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; SAIDI is above its Benchmark and below its Standard. Benchmarks and Standards were 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 and, to a lesser extent, in the prior 24 months. 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, 2022					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,278	10.6%	31,452	2.6%	1,951,853
Contact/Dig-In	142	1.2%	17,943	1.5%	1,397,242
Equipment Failure	4,870	40.3%	460,193	38.4%	41,885,456
Lightning	209	1.7%	29,962	2.5%	2,908,984
Other	423	3.5%	53,696	4.5%	3,280,444
T&S	16	0.1%	18,987	1.6%	1,300,460
Unknown	341	2.8%	44,939	3.7%	2,582,810
Vegetation-Broken/Uprooted	3,906	32.3%	445,957	37.2%	53,296,447
Vegetation-Ingrowth	480	4.0%	35,849	3.0%	4,685,821
Vehicles	435	3.6%	59,608	5.0%	5,486,377

\*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. Outages due to equipment and trees are being addressed through PECO’s Long-term Infrastructure Improvement Plans and other reliability programs. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (37.2% of all customer interruptions), as opposed to ingrowth (3.0% of all outage customer interruptions). PECO continues to address ash tree failures caused by emerald ash borers (invasive insects that cause ash tree deaths) with a vegetation management program 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).”

*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, 2022 was as follows:

Aerial Lineman	406
Underground Lineman (Include UTS)	67
Transmission / Substation Mechanics, Operators	112
Energy Technicians	83
Aerial Foreman	79
Underground Foreman	17
Transmission / Substation Foreman	42
ET Foreman	8
Total	814

PECO has worked jointly with the other PA EDC's, the Energy Association of PA and PAPUC Staff to develop a consistent reporting methodology for this requirement

**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
ABINGTON_002	514	0.00	0	0	0.00	0	0	0
BALA_039	444	1.84	28	51	0.00	817	377	0
BALA_134	4	0.00	0	0	0.00	0	0	0
BALA_135	1103	0.41	82	34	0.48	455	622	533
BIG_OAK_001	526	1.40	131	184	1.12	738	1611	587
BIG_OAK_002	785	0.48	48	23	1.00	374	298	786
BIRCH_000	294	0.48	223	107	2.10	141	525	617
BLUE_GRASS_132	2130	1.12	60	67	0.06	2376	2392	120
BLUE_GRASS_139	1315	4.06	32	128	2.04	5339	2803	2678
BLUE_GRASS_144	1127	1.32	56	74	0.13	1492	1382	143
BOYD_000	438	0.09	216	20	7.01	41	148	3072
BRADFORD_346	2491	1.32	91	119	3.71	3283	4956	9234
BROOMALL_002	440	0.11	195	22	1.01	49	159	443
BRYAN_002	371	3.71	129	479	0.05	1377	2960	20
BUCKINGHAM_346	1488	0.86	149	128	1.52	1285	3184	2259
BYBERRY_162	1411	0.14	210	30	0.00	202	707	2
BYBERRY_171	1001	0.86	38	33	0.29	861	550	287
CALLOWHILL_142	1473	0.07	68	5	0.89	101	115	1316
CALN_000	506	1.03	81	84	0.00	523	709	1
CARMEL_002	485	0.00	0	0	0.00	0	0	0
CLAY_352	984	1.10	94	103	2.39	1081	1692	2349
COOPER_353	306	1.02	138	141	1.58	313	718	485
CRESCENTVILLE_138	842	0.57	75	43	0.09	483	604	78
CURLY_000	462	4.85	99	480	0.35	2241	3699	160
DAVISVILLE_004	864	0.03	233	6	0.01	23	89	10
DOYLESTOWN_001	339	1.17	60	70	2.00	395	398	677
EDGELEY_001	676	0.00	383	1	1.00	1	6	675
ELLIS_002	540	0.18	448	81	1.01	98	731	544
ELLWOOD_001	808	2.07	105	217	0.00	1669	2927	0
EMILIE_134	1028	0.16	72	12	0.05	165	199	48
EUREKA_001	222	0.24	201	49	0.91	54	181	201
FAIR_004	389	1.34	23	31	0.05	523	201	21
FALLS_341	1085	1.31	145	190	1.17	1416	3429	1265
FALLS_342	58	0.72	44	32	1.98	42	30	115
FERRY_001	304	0.93	82	76	0.07	284	387	20
FLINT_132	1265	3.82	83	317	2.98	4826	6677	3766
FLINT_143	527	1.55	122	189	0.53	815	1656	281
FORREST_002	1218	0.06	338	19	0.00	67	378	0
GAP_000	676	1.45	63	91	3.02	982	1031	2039
GERMANTOWN_014	584	0.24	262	63	1.00	141	617	585
GLADWYNE_001	182	3.14	202	635	1.01	571	1927	184
GOLF_002	391	2.11	151	318	1.12	825	2075	439
GOSHEN_351	2026	1.81	99	179	0.83	3676	6036	1681
GROVE_000	612	3.45	41	142	6.00	2113	1444	3671
HANOVER_001	1056	0.08	120	10	0.00	87	173	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
HARMONY_003	454	1.97	174	343	2.03	894	2596	922
HARVEY_002	663	1.07	40	43	1.00	711	470	664
HEARTWOOD_001	582	0.05	487	25	1.00	30	243	582
HUNTING_PARK_046	801	0.21	54	11	0.86	167	151	688
HUNTING_PARK_047	1115	0.20	44	9	0.03	220	160	29
JENKINTOWN_130	438	0.11	431	49	0.00	50	359	0
JENKINTOWN_143	1498	0.09	119	10	0.00	132	261	0
JORDAN_004	313	0.01	7	0	0.04	2	0	13
KAOLIN_003	228	2.06	55	114	3.19	470	433	727
KELLER_000	393	0.17	110	19	2.01	67	123	790
KENNETT_SQUAR_003	630	1.01	22	22	1.00	634	235	629
KENNETT_SQUAR_005	304	4.20	63	263	1.28	1276	1331	388
KEYSTONE_033	1004	0.65	12	8	0.33	654	134	330
LANDENBERG_000	542	2.56	139	354	2.04	1386	3201	1105
LEDERACH_003	258	1.05	387	405	4.02	270	1740	1037
LENAPE_000	420	0.09	350	31	5.10	37	216	2144
LENAPE_344	2043	0.47	39	18	1.01	961	627	2056
LEOPARD_002	Retired	Retired	Retired	Retired	Retired	Retired	Retired	Retired
LEOPARD_004	143	1.57	249	391	0.00	224	931	0
LEWIS_001	561	4.00	110	438	0.98	2242	4096	550
LINE_116_00BM	639	0.68	98	67	0.61	434	709	388
LINE_162_00	560	2.56	62	158	1.38	1431	1471	773
LINE_2235	2224	0.19	148	28	0.00	424	1049	4
LINE_2381	1003	0.87	102	88	0.41	868	1472	413
LINE_2389	504	3.02	33	100	1.00	1522	836	504
LINE_2787	2796	1.47	87	127	0.64	4112	5939	1798
LINE_4100PB	2298	2.28	96	218	5.59	5246	8360	12852
LINE_708	1687	0.41	49	20	0.01	692	569	18
LINE_7200WH	228	1.53	78	119	0.00	348	450	0
LINE_734	173	0.00	0	0	0.00	0	0	0
LLANERCH_141	1331	1.76	75	132	0.01	2342	2925	19
MALVERN_003	218	0.03	330	11	1.00	7	39	219
MANOR_002	417	1.21	123	148	3.04	503	1031	1268
MARSHALLTON_001	497	2.92	83	243	3.02	1452	2009	1500
MIDDLETOWN_132	1682	1.25	128	160	1.93	2101	4495	3249
MORRISVILLE_012	795	1.03	62	64	1.01	819	844	806
MORWOOD_000	678	1.93	171	330	1.09	1309	3725	741
NEWLINVILLE_341	2352	1.50	49	73	2.16	3529	2860	5070
NEWLINVILLE_344	2648	0.89	136	122	1.61	2364	5378	4273
NEWLINVILLE_354	2094	1.46	68	99	4.69	3048	3466	9818
NEWTOWN_SQUAR_144	1519	0.30	262	77	0.00	449	1957	0
NORTH_OXFORD_002	823	0.43	215	92	0.04	353	1264	35
NORTH_WALES_353	2530	0.56	109	61	1.13	1415	2582	2853
PASSYUNK_138	2783	0.21	35	7	0.13	581	337	370
PENCOYD_133	1256	1.46	210	308	1.14	1839	6451	1435
PENLLYN_001	912	1.01	29	29	1.45	925	445	1319
PENNSBURY_000	299	0.39	437	172	0.00	118	860	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
PENROSE_162	715	0.75	21	16	0.64	536	187	455
PLYMOUTH_140	1249	0.27	268	73	0.00	342	1526	0
PLYMOUTH_160	777	0.09	237	21	0.00	69	273	0
RICKERTS_001	398	0.00	0	0	2.05	0	0	814
SADSBURY_000	617	2.11	98	207	1.01	1303	2125	621
SCHWENKSVILLE_001	537	3.81	164	623	5.88	2045	5575	3155
SCHWENKSVILLE_002	663	5.39	75	403	3.69	3574	4455	2447
SILES_004	494	1.01	156	158	0.00	500	1303	0
SOLEBURY_001	480	4.45	71	317	4.13	2135	2538	1983
SPRING_CITY_002	1189	1.31	119	155	1.05	1556	3077	1250
TACONY_013	940	0.00	0	0	0.00	0	0	1
UPPER_DARBY_135	2237	1.51	48	73	0.28	3379	2729	624
UPPER_DARBY_139	2309	0.04	135	5	0.00	84	189	2
UPPER_PROVIDENCE_343	1511	3.33	257	857	2.50	5030	21586	3781
UPPER_PROVIDENCE_352	825	0.41	86	35	0.58	339	486	477
WARMINSTER_132	1215	0.11	259	28	0.01	130	561	13
WAYNE_142	829	1.35	51	69	0.11	1119	954	91
WAYNE_143	730	1.49	106	157	0.61	1086	1916	443
WEST_OAK_LANE_009	605	0.04	52	2	0.00	22	19	0
WESTOVER_000	629	0.00	0	0	0.00	0	0	0
WILLOWDALE_002	451	1.20	173	208	3.45	543	1563	1555
WOODBOURNE_343	872	0.63	148	94	0.01	551	1361	11

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 12/31/22

### **ABINGTON\_002**

*Montgomery County*

#### **Completed:**

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

### **BALA\_039**

*Delaware County*

#### **Completed:**

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

### **BALA\_134**

*Philadelphia County*

#### **Completed:**

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

### **BALA\_135**

*Delaware County*

#### **Completed:**

- Inspect circuit visually and with thermographic camera
- Install cut-out mounted recloser
- Remedial efforts completed

### **BIG\_OAK\_001**

*Bucks County*

#### **Completed:**

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

### **BIG\_OAK\_002**

*Bucks County*

#### **Completed:**

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

### **BIRCH\_000**

*Bucks County*

#### **Completed:**

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

**BLUE\_GRASS\_132***Philadelphia County***Completed:**

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

**BLUE\_GRASS\_139***Philadelphia County***Completed:**

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

**BLUE\_GRASS\_144***Philadelphia County***Completed:**

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

**BOYD\_000***Chester County***Completed:**

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

**BRADFORD\_346***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

**BROOMALL\_002***Delaware County***Completed:**

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

**BRYAN\_002***York County***Completed:**

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

**BUCKINGHAM\_346***Bucks 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

**BYBERRY\_162**

*Bucks County*

**Completed:**

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

**BYBERRY\_171**

*Bucks County*

**Completed:**

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

**CALLOWHILL\_142**

*Philadelphia County*

**Completed:**

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

**CALN\_000**

*Chester County*

**Completed:**

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

**CARMEL\_002**

*Montgomery County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**CLAY\_352**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Upgrade fusing  
Remedial efforts completed

**COOPER\_353**

*York County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Inspect selected areas of circuit for vegetation issues and correct as needed  
Install cut-out mounted recloser  
Remedial efforts completed

**CRESCENTVILLE\_138***Philadelphia County***Completed:**

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

**CURLY\_000***Bucks County***Completed:**

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

**DAVISVILLE\_004***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
- Upgrade fusing
- Remedial efforts completed

**DOYLESTOWN\_001***Bucks County***Completed:**

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

**EDGELY\_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

**ELLIS\_002***Chester County***Completed:**

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

**ELLWOOD\_001***Bucks County***Completed:**

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

**EMILIE\_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
- Remedial efforts completed

**EUREKA\_001**

*Bucks County*

**Completed:**

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

**FAIR\_004**

*Montgomery County*

**Completed:**

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

**FALLS\_341**

*Bucks County*

**Completed:**

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

**FALLS\_342**

*Bucks County*

**Completed:**

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

**FERRY\_001**

*Philadelphia County*

**Completed:**

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

**FLINT\_132**

*Montgomery County*

**Completed:**

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

**FLINT\_143**

*Montgomery County*

**Completed:**

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

**FORREST\_002**

*Montgomery County*

**Completed:**

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

**GAP\_000**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Install cut-out mounted recloser  
Perform regularly scheduled tree clearance  
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  
Install new fusing  
Upgrade insulators  
Remedial efforts completed

**GLADWYNE\_001**

*Delaware County*

**Completed:**

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

**GOLF\_002**

*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 new fusing  
Upgrade fusing  
Remedial efforts completed

**GOSHEN\_351**

*Chester County*

**Completed:**

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

**GROVE\_000**

*Chester 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

**HANOVER\_001**

*Montgomery County*

**Completed:**

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

**HARMONY\_003**

*Chester County*

**Completed:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install cut-out mounted recloser
- Perform regularly scheduled tree clearance
- Remedial efforts completed

**HARVEY\_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
- Remedial efforts completed

**HEARTWOOD\_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
- Upgrade secondary
- Remedial efforts completed

**HUNTING\_PARK\_046**

*Philadelphia County*

**Completed:**

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

**HUNTING\_PARK\_047**

*Philadelphia County*

**Completed:**

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

Remedial efforts completed

**JENKINTOWN\_130**

*Montgomery County*

**Completed:**

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

**JENKINTOWN\_143**

*Montgomery County*

**Completed:**

Complete corrective reliability work orders  
Inspect circuit visually and with thermographic camera  
Install new reclosers  
Install tree resistant wire  
Remedial efforts completed

**JORDAN\_004**

*Bucks County*

**Completed:**

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

**KAOLIN\_003**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**KELLER\_000**

*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  
Perform regularly scheduled tree clearance  
Remedial efforts completed

**KENNETT\_SQUAR\_003**

*Chester County*

**Completed:**

Complete corrective reliability work orders  
Inspect circuit visually and with thermographic camera  
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 new underground direction feed  
Install tree resistant wire  
Remedial efforts completed

**KEYSTONE\_033**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**LANDENBERG\_000**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**LEDERACH\_003**

*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

**LENAPE\_000**

*Chester County*

**Completed:**

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

**LENAPE\_344**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**LEOPARD\_002**

*Chester County*

**Completed:**

Circuit retired

**LEOPARD\_004**

*Chester County*

**Completed:**

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

**LEWIS\_001**

*Montgomery 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\_116\_00BM***Delaware County***Completed:**

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

**LINE\_162\_00***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\_2235***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

**LINE\_2381***Philadelphia County***Completed:**

- Inspect circuit visually and with thermographic camera
- Install animal protection
- Remedial efforts completed

**LINE\_2389***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 new fusing
- Upgrade transformer
- Remedial efforts completed.

**LINE\_2787***Philadelphia County***Completed:**

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

**LINE\_4100PB***Chester County***Completed:**

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

**LINE\_708**

*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
- Remedial efforts completed

**LINE\_7200WH**

*Montgomery 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\_734**

*Philadelphia County*

**Completed:**

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

**LLANERCH\_141**

*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

**MALVERN\_003**

*Chester County*

**Completed:**

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

**MANOR\_002**

*Chester County*

**Completed:**

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

**MARSHALLTON\_001**

*Chester County*

**Completed:**

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

**MIDDLETOWN\_132**

*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
- Remedial efforts completed

**MORRISVILLE\_012**

*Bucks County*

**Completed:**

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

**MORWOOD\_000**

*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
- Upgrade fusing
- Remedial efforts completed

**NEWLINVILLE\_341**

*Chester County*

**Completed:**

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

**NEWLINVILLE\_344**

*Chester County*

**Completed:**

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

**NEWLINVILLE\_354**

*Chester County*

**Completed:**

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

**NEWTOWN\_SQUAR\_144**

*Delaware 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

**NORTH\_OXFORD\_002**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**NORTH\_WALES\_353**

*Montgomery County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**PASSYUNK\_138**

*Philadelphia County*

**Completed:**

Complete corrective reliability work orders  
Inspect circuit visually and with thermographic camera  
Install animal protection  
Upgrade transformer  
Remedial efforts completed

**PENCOYD\_133**

*Delaware County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**PENLLYN\_001**

*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  
Upgrade transformer  
Remedial efforts completed

**PENNSBURY\_000**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**PENROSE\_162**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**PLYMOUTH\_140**

*Montgomery County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**PLYMOUTH\_160**

*Montgomery County*

**Completed:**

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

**RICKERTS\_001**

*Bucks County*

**Completed:**

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

**SADSBURY\_000**

*Chester County*

**Completed:**

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

**SCHWENKSVILLE\_001**

*Montgomery County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**SCHWENKSVILLE\_002**

*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  
Upgrade fusing  
Upgrade transformer  
Remedial efforts completed

**SILES\_004**

*Bucks County*

**Completed:**

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

**SOLEBURY\_001**

*Bucks County*

**Completed:**

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

**SPRING\_CITY\_002**

*Chester County*

**Completed:**

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

**TACONY\_013***Philadelphia County***Completed:**

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

**UPPER\_DARBY\_135***Delaware County***Completed:**

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

**UPPER\_DARBY\_139***Delaware County***Completed:**

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

**UPPER\_PROVIDENCE\_343***Montgomery County***Completed:**

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

**UPPER\_PROVIDENCE\_352***Montgomery County***Completed:**

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

**WARMINSTER\_132***Bucks County***Completed:**

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

**WAYNE\_142***Delaware County***Completed:**

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

**WAYNE\_143***Delaware County***Completed:**

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

**WESTOVER\_000***Montgomery County***Completed:**

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

**WEST\_OAK\_LANE\_009***Philadelphia County***Completed:**

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

**WILLOWDALE\_002***Chester County***Completed:**

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

**WOODBOURNE\_343***Bucks County***Completed:**

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