



peco<sup>SM</sup>

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October 31, 2022

**VIA E-FILING**

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

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

Dear Secretary Chiavetta:

Enclosed is PECO's 2022 Quarterly Reliability Report for the period ending September 30, 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.

Due to the continuing COVID-19 pandemic, PECO's employees are working remotely in the office on a part-time basis. Accordingly, PECO employees will have limited access to photocopying and U.S. mail, among other services. PECO requests that all communications with PECO employees continue to be transmitted by email.

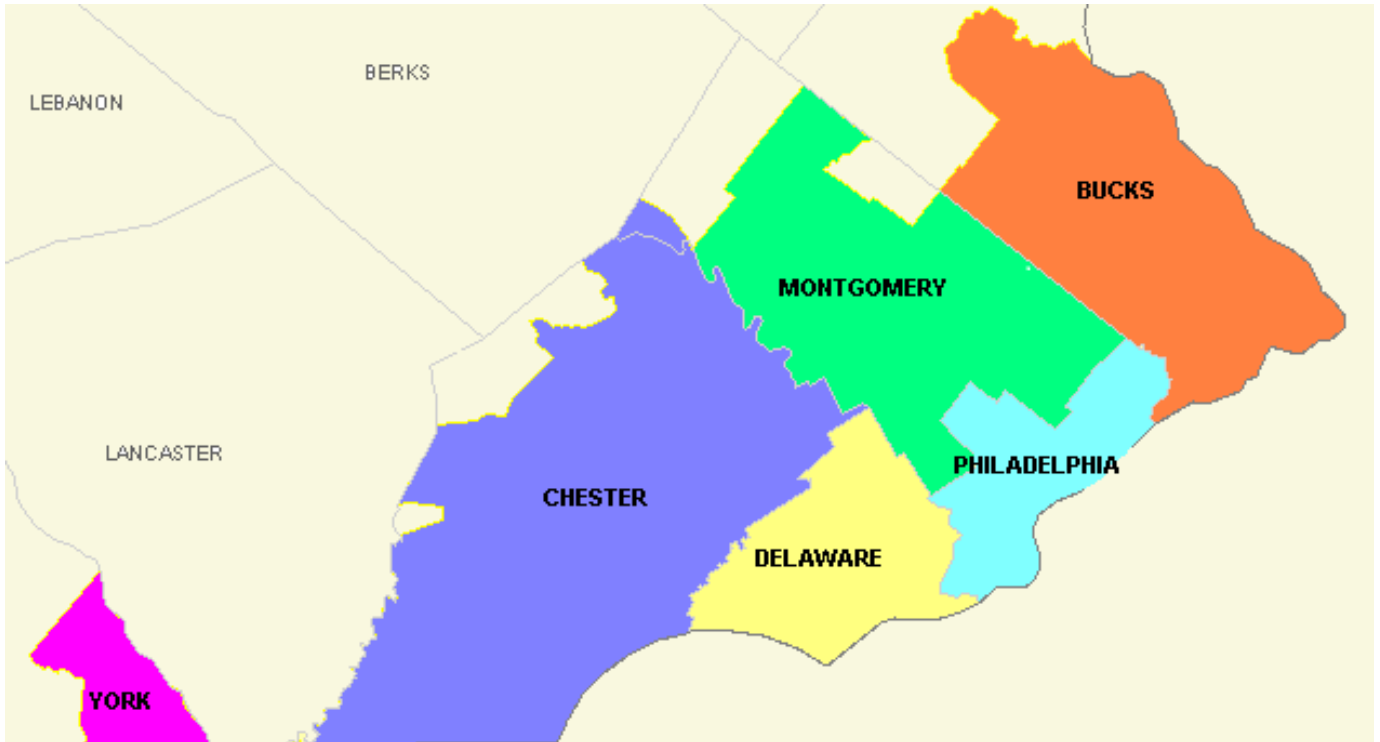
Thank you for your assistance in this matter and please direct any questions regarding the above to Megan McDevitt, Manager, Retail Rates at (215) 841 6361 or via email: [megan.mcdevitt@exeloncorp.com](mailto:megan.mcdevitt@exeloncorp.com).

Sincerely,

Enclosure

Cc: John Van Zant (via email only)  
Dan Searfoorce (via email only)  
Harry R. Bidelspace (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 September 30, 2022



**October 31, 2022**

**PECO Energy (“PECO”)**

**Quarterly Reliability Report for the Period Ending September 30, 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 third 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
1,683,203	1,164,838	1,870,760	1,323,270	112,245,590	0.69	96	67	0.79

Data reflects 12 months ending 09/30/2022.

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, CAIDI, and SAIDI are all below their Benchmarks and below their Standards. 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 September 30, 2022					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,400	11.90%	36,880	3.20%	2,204,824
Contact/Dig-In	160	1.40%	19,338	1.70%	1,604,617
Equipment Failure	4,810	40.70%	456,900	39.20%	41,540,702
Lightning	271	2.30%	32,322	2.80%	3,140,318
Other	368	3.10%	46,793	4.00%	3,378,180
T&S	16	0.10%	19,440	1.70%	1,321,186
Unknown	350	3.00%	55,254	4.70%	2,841,143
Vegetation-Broken/Uprooted	3,527	29.90%	401,267	34.50%	45,436,867
Vegetation-Ingrowth	474	4.00%	38,292	3.30%	5,011,999
Vehicles	428	3.60%	57,886	5.00%	5,811,772

\*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 (34.5% of all customer interruptions), as opposed to ingrowth (3.3% 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).”*

Predictive and Preventive Maintenance Program – status as of 9/30/2022					
	3 <sup>rd</sup> Quarter Tasks		YTD Tasks		2022 Total Planned
	Planned	Complete	Planned	Complete	
Recloser Inspections (Number of reclosers inspected)	130	160	300	664	407
Circuit Patrol & Thermography (Number of circuits patrolled)	333	308	970	932	970
Pole Inspections (Number of poles visually inspected)	12,200	9,376	27,160	39,563	34,000
Padmount Transformers (Number of transformers visually inspected)	1,522	1,307	5,272	5,748	6,666
Below Ground Transformers (Number of transformers visually inspected)	360	339	1,063	1,162	1,234
Substations (Number of substations inspections performed (e.g., visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	340	355	1,019	1,056	1,360
Unit Substations (Number of unit substations inspections performed (e.g., visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	708	749	2,124	2,239	2,830

Vegetation Management Preventive Maintenance Program – status as of 9/30/22					
	3 <sup>rd</sup> Quarter Miles		YTD Miles		2022 Total Planned
	Planned	Complete	Planned	Complete	
Distribution Lift and Manual Trimming	599	889	1,797	2,538	2,396
Transmission Trimming and Removals	46	54	140	153	193

PECO is executing a plan to complete all predictive and preventive maintenance scheduled for 2022 by the end of the year.

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

\$Millions	Budgeted 3 <sup>rd</sup> Quarter	Actual 3 <sup>rd</sup> Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$1.0	\$1.5	\$2.8	\$5.7
Capacity Expansion	\$0.0	\$0.2	\$0.1	\$0.4
System Performance	\$21.5	\$25.7	\$65.6	\$72.6
Facility Relocation	\$0.5	\$0.3	\$0.9	\$0.5
Maintenance	\$54.6	\$60.8	\$159.8	\$166.8
Total	\$77.6	\$88.5	\$229.2	\$246.0

**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 3 <sup>rd</sup> Quarter	Actual 3 <sup>rd</sup> Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$19.7	\$26.4	\$56.2	\$64.4
Capacity Expansion	\$0.2	\$5.9	\$9.0	\$19.1
System Performance	\$166.9	\$145.2	\$402.8	\$431.0
Facility Relocation	\$5.3	\$3.5	\$12.4	\$9.2
Maintenance	\$34.6	\$44.3	\$98.6	\$123.0
Total	\$226.7	\$225.3	\$579.0	\$646.7

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

PECO’s full-time trade staff as of September 30, 2022 was as follows:

Aerial Lineman	419
Underground Lineman (Include UTS)	70
Transmission / Substation Mechanics, Operators	113
Energy Technicians	84
Aerial Foreman	78
Underground Foreman	17
Transmission / Substation Foreman	42
ET Foreman	8
Total	831

**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	445	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	76	31	0.48	455	574	533
BIG_OAK_001	527	1.41	121	171	1.11	745	1499	587
BIG_OAK_002	785	0.48	48	23	0.97	375	299	758
BIRCH_000	294	0.53	186	98	0.01	156	483	4
BLUE_GRASS_132	2131	1.10	50	55	0.15	2352	1967	327
BLUE_GRASS_139	1314	4.98	31	157	1.47	6547	3428	1927
BLUE_GRASS_144	1127	1.64	75	123	0.12	1843	2306	139
BOYD_000	438	0.18	355	62	7.04	77	456	3084
BRADFORD_346	2489	1.38	100	138	4.66	3436	5723	11591
BROOMALL_002	439	0.13	134	17	1.01	55	123	443
BRYAN_002	369	3.30	148	487	0.02	1217	2997	7
BUCKINGHAM_346	1489	0.87	96	83	0.11	1290	2061	159
BYBERRY_162	1411	0.29	160	47	0.81	413	1100	1146
BYBERRY_171	1003	0.89	39	35	0.29	889	577	287
CALLOWHILL_142	1477	0.09	68	6	0.89	137	155	1316
CALN_000	507	1.14	120	137	0.10	580	1158	53
CARMEL_002	485	0.00	0	0	0.00	0	0	0
CLAY_352	984	1.43	59	84	2.74	1412	1377	2700
COOPER_353	307	1.02	133	135	1.58	312	693	485
CRESCENTVILLE_138	839	0.99	60	59	0.05	827	830	40
CURLY_000	437	2.89	121	348	0.16	1262	2536	70
DAVISVILLE_004	868	0.03	198	5	0.00	22	73	0
DOYLESTOWN_001	339	1.03	40	41	2.00	350	233	677
EDGELY_001	674	0.04	56	3	1.00	30	28	675
ELLIS_002	540	0.10	566	56	1.01	53	500	544
ELLWOOD_001	808	0.07	534	39	0.00	59	525	0
EMILIE_134	1028	0.16	72	12	0.05	166	200	48
EUREKA_001	222	0.13	210	27	0.91	29	102	201
FAIR_004	389	1.34	23	30	0.68	522	197	264
FALLS_341	1083	1.85	145	269	2.89	2000	4850	3128
FALLS_342	58	0.02	53	1	0.98	1	1	57
FERRY_001	303	0.94	82	77	0.09	284	387	28
FLINT_132	1263	2.69	102	276	2.39	3403	5807	3014
FLINT_143	527	1.54	123	188	0.53	809	1654	281
FORREST_002	1223	1.04	86	90	0.00	1276	1836	0
GAP_000	678	2.51	53	133	2.99	1703	1500	2025
GERMANTOWN_014	584	0.02	828	18	0.00	13	179	0
GLADWYNE_001	182	2.13	250	533	1.01	388	1615	184
GOLF_002	391	2.02	75	151	1.21	788	982	474
GOSHEN_351	2026	2.03	88	178	1.49	4110	6022	3026
GROVE_000	612	2.33	52	121	7.00	1429	1231	4283
HANOVER_001	1055	1.06	30	31	0.00	1115	549	0
HARMONY_003	454	1.97	174	343	2.25	894	2596	1022
HARVEY_002	663	2.09	50	103	2.01	1384	1143	1332
HEARTWOOD_001	582	0.03	612	18	1.00	17	173	582
HUNTING_PARK_046	808	0.20	49	10	0.85	165	135	687
HUNTING_PARK_047	1111	0.49	58	29	0.03	547	531	29

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
JENKINTOWN_130	438	0.13	386	52	0.00	59	379	0
JENKINTOWN_143	1498	0.60	52	31	0.52	905	782	774
JORDAN_004	313	0.01	313	2	0.04	2	10	12
KAOLIN_003	228	2.06	55	114	4.21	470	433	960
KELLER_000	393	0.19	227	43	0.01	74	280	4
KENNETT_SQUAR_003	630	1.01	22	22	2.00	634	235	1258
KENNETT_SQUAR_005	305	2.49	56	140	2.17	758	713	663
KEYSTONE_033	0	0.00	0	0	0.00	0	0	0
LANDENBERG_000	544	2.67	150	402	5.13	1455	3641	2791
LEDERACH_003	258	1.08	79	85	4.02	279	366	1036
LENAPE_000	427	0.04	479	17	3.07	15	120	1310
LENAPE_344	2045	0.35	22	8	1.01	718	261	2057
LEOPARD_002	Retired	Retired	Retired	Retired	Retired	Retired	Retired	Retired
LEOPARD_004	144	1.59	251	399	0.00	229	957	0
LEWIS_001	562	1.59	73	116	0.14	891	1082	80
LINE_116_00BM	639	1.31	123	161	1.45	838	1719	926
LINE_162_00	560	2.56	62	158	1.38	1432	1479	773
LINE_2235	2222	0.19	82	15	0.01	414	563	12
LINE_2381	1000	2.00	115	231	0.41	2004	3855	413
LINE_2389	504	4.08	35	143	0.01	2058	1204	3
LINE_2787	2805	1.58	80	126	0.65	4418	5880	1815
LINE_4100PB	2298	2.67	106	284	4.31	6144	10863	9905
LINE_708	1688	0.08	205	15	0.00	127	434	2
LINE_7200WH	228	1.39	66	92	0.00	318	351	0
LINE_734	173	0.00	0	0	0.00	0	0	0
LLANERCH_141	1332	2.90	51	149	0.01	3859	3300	19
MALVERN_003	218	0.03	330	11	1.00	7	39	219
MANOR_002	417	2.18	84	184	6.04	909	1278	2519
MARSHALLTON_001	497	3.37	71	238	4.52	1673	1975	2246
MIDDLETOWN_132	1682	1.01	91	92	1.38	1698	2583	2320
MORRISVILLE_012	798	1.03	62	63	1.01	819	844	806
MORWOOD_000	679	1.81	159	287	2.09	1226	3245	1421
NEWLINVILLE_341	2349	1.89	54	102	3.05	4443	3989	7172
NEWLINVILLE_344	2648	0.64	110	70	0.48	1696	3111	1276
NEWLINVILLE_354	2094	1.51	78	118	4.69	3166	4126	9817
NEWTOWN_SQUAR_144	1516	0.28	245	69	0.00	428	1748	0
NORTH_OXFORD_002	822	0.43	215	92	0.04	354	1266	35
NORTH_WALES_353	2530	0.44	116	50	0.41	1103	2128	1041
PASSYUNK_138	1580	0.09	56	5	0.24	135	126	382
PENCOYD_133	1258	0.47	60	28	1.27	593	589	1598
PENLLYN_001	912	1.01	28	28	1.45	918	433	1319
PENNSBURY_000	298	1.34	140	186	0.00	398	926	0
PENROSE_162	705	0.76	21	16	0.64	535	186	454
PLYMOUTH_140	1249	0.32	234	74	0.00	394	1535	1
PLYMOUTH_160	778	0.14	359	50	0.00	109	651	1
RICKERTS_001	398	0.11	37	4	0.12	42	26	46
SADSBURY_000	617	1.13	148	168	0.00	699	1723	3
SCHWENKSVILLE_001	537	1.58	123	195	3.64	848	1743	1957
SCHWENKSVILLE_002	664	3.42	91	311	2.72	2271	3442	1803
SILES_004	495	0.99	158	156	0.00	490	1289	0
SOLEBURY_001	481	3.29	119	391	5.09	1581	3132	2450
SPRING_CITY_002	1190	1.12	120	135	1.26	1337	2680	1497

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
TACONY_013	940	0.00	0	0	0.00	0	0	1
UPPER_DARBY_135	2237	1.29	151	194	1.30	2875	7239	2903
UPPER_DARBY_139	2315	0.04	102	4	0.00	92	156	0
UPPER_PROVIDENCE_343	1511	1.86	114	213	0.78	2815	5370	1181
UPPER_PROVIDENCE_352	825	0.96	67	64	0.63	795	881	520
WARMINSTER_132	1215	0.11	283	31	0.01	134	631	13
WAYNE_142	830	1.48	62	92	0.11	1229	1279	91
WAYNE_143	731	1.63	105	171	0.64	1190	2089	470
WEST_OAK_LANE_009	605	0.04	52	2	0.00	22	19	0
WESTOVER_000	639	0.00	0	0	0.00	0	0	0
WILLOWDALE_002	451	0.65	288	187	4.11	293	1407	1854
WOODBOURNE_343	873	0.98	140	137	0.99	858	1995	864

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

## Appendix B

Remedial efforts taken and planned for 5% worst performing circuits as of 09/30/22

### **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

**Planned:**

- Perform regularly scheduled tree clearance

**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:**

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

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

##### **Planned:**

Perform regularly scheduled tree clearance

#### **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:**

Inspect circuit visually and with thermographic camera

**Planned:**

Complete corrective reliability work orders

Perform regularly scheduled tree clearance

**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

**Planned:**

Perform regularly scheduled tree clearance

**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

**Planned:**

Install tree resistant wire

**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

**Planned:**

Perform regularly scheduled tree clearance

**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

**Planned:**

Perform regularly scheduled tree clearance

**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:**

- Inspect circuit visually and with thermographic camera

**Planned:**

- Complete corrective reliability work orders

**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

**Planned:**

- Perform regularly scheduled tree clearance

**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).