



peco<sup>SM</sup>

AN EXELON COMPANY

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August 1, 2024

**VIA E-FILING**

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

**Re: PECO 2024 Second Quarter Reliability Report PUC Docket No. M-2023-3039027**

Dear Secretary Chiavetta:

Enclosed is PECO's 2024 Quarterly Reliability Report for the period ending June 30, 2024, 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.

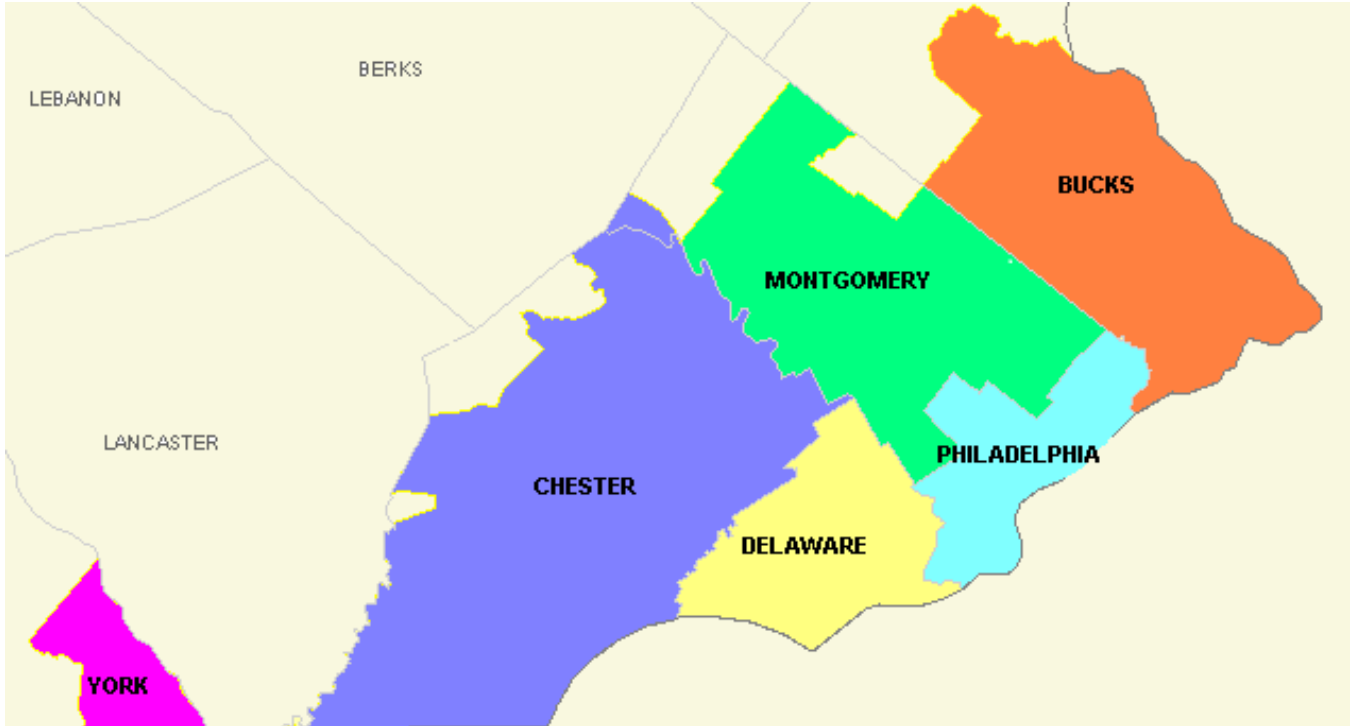
Thank you for your assistance in this matter and please direct any questions regarding the above to Megan McDevitt, Manager, Retail Rates at 267-533-1942 or via email: [megan.mcdevitt@exeloncorp.com](mailto:megan.mcdevitt@exeloncorp.com).

Sincerely,

Enclosure

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

# PECO Energy Company Quarterly Reliability Report For Period Ending June 30, 2024



**August 1, 2024**

**PECO Energy (“PECO”)**

**Quarterly Reliability Report for the Period Ending June 30, 2024, 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 second quarter of 2024.

**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
1,679,430	1,333,778	3,044,601	1,419,485	182,675,682	0.79	137	109	0.85

Data reflects 12 months ending 06/30/2024.

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

CAIDI is above its Benchmark and 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. 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-Month Ending June 30, 2024					
Cause	Service Outages	% of Service Outages	Customer Interruptions	% of Customer Interruptions	Customer Minutes
Animal	1,492	11.0%	33,678	2.5%	2,139,146
Contact/Dig-In	97	0.7%	8,041	0.6%	758,300
Equipment Failure	4,378	32.4%	434,026	32.5%	41,157,011
Lightning	330	2.4%	38,119	2.9%	4,156,246
Other	539	4.0%	43,777	3.3%	3,152,799
T&S	33	0.2%	35,936	2.7%	1,370,572
Unknown	663	4.9%	140,729	10.6%	31,736,759
Vegetation-Broken/Uprooted	5,022	37.2%	497,080	37.3%	87,986,964
Vegetation-Ingrowth	613	4.5%	41,945	3.1%	5,122,942
Vehicles	336	2.5%	60,447	4.5%	5,094,943

\*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 (37.3% of all customer interruptions), as opposed to ingrowth (3.1% 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 6/30/2024					
	2 <sup>nd</sup> Quarter Tasks		YTD Tasks		2024 Total Planned
	Planned	Complete	Planned	Complete	
Recloser Inspections (Number of reclosers inspected)	152	331	258	582	413
Circuit Patrol & Thermography (Number of circuits patrolled)	330	305	630	632	970
Pole Inspections (Number of poles visually inspected)	12,721	20,371	17,227	20,371	34,000
Padmount Transformers (Number of transformers visually inspected)	1,974	3,381	3,289	3,859	6,577
Below Ground Transformers (Number of transformers visually inspected)	324	395	638	684	1,173
Substations (Number of substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)	333	346	665	692	1,330
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	750	1,415	1,465	2,830

Vegetation Management Preventive Maintenance Program – status as of 6/30/2024					
	2 <sup>nd</sup> Quarter Miles		YTD Miles		2024 Total Planned
	Planned	Complete	Planned	Complete	
Distribution Lift and Manual Trimming	742	718	1,484	1,564	2,967
Transmission Trimming and Removals	52	52	101	95	198

PECO’s additional completed miles YTD under its vegetation distribution preventive maintenance are due to accelerated maintenance.

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

\$Millions	Budgeted 2 <sup>nd</sup> Quarter	Actual 2 <sup>nd</sup> Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$0.8	\$0.5	\$1.7	\$0.9
Capacity Expansion	\$0.0	\$0.7	\$0.1	\$0.2
System Performance	\$25.6	\$26.1	\$47.2	\$45.2
Facility Relocation	\$0.3	\$0.1	\$0.3	\$0.2
Maintenance	\$55.6	\$52.9	\$107.4	\$108.0
Total	\$82.3	\$80.3	\$156.7	\$155.5

**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 2 <sup>nd</sup> Quarter	Actual 2 <sup>nd</sup> Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	\$29.2	\$26.5	\$67.3	\$55.8
Capacity Expansion	\$9.7	\$10.0	\$16.4	\$18.2
System Performance	\$169.5	\$202.6	\$325.7	\$344.2
Facility Relocation	\$12.5	\$6.5	\$19.1	\$12.7
Maintenance	\$39.0	\$41.7	\$81.1	\$90.9
Total	\$259.9	\$287.5	\$509.7	\$521.8

**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 June 30, 2024 was as follows:

Aerial Lineman	437
Underground Lineman (Include UTS)	71
Transmission / Substation Mechanics, Operators	123
Energy Technicians	86
Aerial Foreman	73
Underground Foreman	15
Transmission / Substation Foreman	47
ET Foreman	8
Total	860

**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
BEIDLER_131	320	1.25	106	133	0.00	399	707	0
BELMONT_003	506	0.13	260	33	0.00	65	281	0
BRADFORD_344	2666	1.84	138	253	7.11	4902	11238	18947
BRYAN_001	404	4.09	263	1075	0.04	1654	7237	18
BRYAN_002	368	3.46	232	802	0.35	1275	4921	130
BUCKINGHAM_354	1783	1.10	99	110	2.34	1969	3263	4179
CLAY_342	1958	4.63	433	2000	3.35	9056	65282	6569
COOPER_371	437	2.90	344	1000	0.18	1269	7280	79
CORNOG_002	310	1.28	133	170	1.83	397	879	566
CURLY_000	460	2.34	51	119	1.03	1078	913	473
DOWNINGTOWN_003	944	2.93	24	71	2.63	2770	1110	2481
EAGLE_341	1811	0.41	231	95	0.40	743	2863	718
EAGLE_353	2237	3.13	115	361	3.13	7008	13445	7000
ELLWOOD_001	800	2.08	42	88	0.00	1666	1169	1
EMILIE_131	398	0.05	321	15	0.00	19	102	0
EMILIE_132	1440	0.73	187	138	0.00	1058	3304	0
EVANS_002	339	1.82	67	122	1.01	618	687	343
FLINT_132	1265	1.26	84	106	1.14	1597	2233	1440
FLINT_144	837	2.41	205	494	3.27	2014	6897	2735
FOULK_131	1420	2.76	200	553	3.16	3921	13080	4487
FURNACE_000	481	4.60	379	1746	3.80	2215	13998	1827
GARRETT_006	863	2.07	101	209	0.00	1787	3000	0
GERMANTOWN_022	574	0.64	154	99	0.00	369	949	0
GLADWYNE_001	179	7.27	136	991	4.37	1302	2956	782
GLADWYNE_132	509	6.33	123	777	6.25	3224	6592	3182
GOLF_002	288	0.16	467	75	1.49	46	358	430
GOSHEN_351	2004	1.99	83	165	0.66	3990	5497	1332
GROVE_000	609	1.55	635	986	1.25	946	10013	764
HAGYS_004	301	6.55	254	1666	2.02	1973	8357	607
HARMONY_003	448	1.20	160	192	3.09	536	1433	1386
HEATON_147	1123	0.54	82	44	0.56	606	831	626
HUNTING_PARK_040	417	0.00	1544	7	0.00	2	51	0
KEMBLE_002	377	2.28	934	2125	1.83	858	13352	691
KENNETT_SQUAR_005	297	5.74	91	523	2.17	1706	2590	644
KING_135	390	0.92	56	51	0.96	359	334	375
LAMOKIN_001	588	1.03	37	39	0.00	608	379	0
LANDENBERG_000	543	5.04	305	1537	2.58	2738	13912	1402
LENAPE_341	1138	0.51	141	72	0.59	578	1359	674

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
LEWIS_001	566	1.60	166	266	0.42	907	2514	240
LINE_106_00	124	0.31	255	80	0.02	39	166	2
LINE_1068	515	0.00	0	0	0.00	0	0	0
LINE_1073	11	0.82	26	22	0.09	9	4	1
LINE_132_00WO	594	0.00	522	2	0.98	2	17	580
LINE_189_00EM	977	1.13	110	124	0.32	1104	2020	316
LINE_1900BA	8	0.25	148	37	0.00	2	5	0
LINE_2200CR	748	2.31	289	668	1.51	1731	8334	1126
LINE_2278	69	0.00	0	0	0.00	0	0	0
LINE_2292	211	1.78	887	1576	0.08	375	5542	16
LINE_3300	652	0.00	0	0	1.01	0	0	657
LINE_3700EM	309	3.08	69	214	4.32	951	1101	1335
LINE_4100PB	2345	1.96	119	233	0.55	4607	9123	1300
LINE_800CR	1895	2.12	141	299	3.21	4019	9431	6083
MARSHALLTON_001	492	4.59	148	680	6.35	2256	5574	3123
MARSHALLTON_002	402	5.19	134	698	5.93	2086	4674	2385
MEDIA_012	757	4.91	67	331	5.40	3720	4180	4087
MIDDLETOWN_142	1125	1.66	129	215	3.02	1873	4034	3393
MONTGOMERY_000	642	1.21	59	71	1.00	778	764	643
MORWOOD_000	675	4.17	179	746	6.87	2814	8397	4636
MOUNTAIN_000	277	1.03	15	16	0.00	286	74	1
NEWLINVILLE_353	3034	2.44	97	238	8.85	7418	12048	26863
NEWLINVILLE_361	1030	2.65	339	897	2.38	2725	15391	2455
NORCO_001	421	4.87	56	274	3.19	2052	1920	1345
NORTH_WALES_346	1364	0.81	157	128	0.11	1111	2904	155
PARRISH_138	8	0.00	0	0	0.00	0	0	0
PEACH_BOTTOM_361	206	5.46	833	4546	1.77	1124	15608	364
PENLLYN_002	247	1.99	35	69	4.05	491	285	1001
PENTRIDGE_015	726	3.12	49	153	0.74	2262	1847	540
PENTRIDGE_017	875	1.13	307	346	0.67	987	5049	582
PERKIOMEN_341	1551	1.64	72	119	3.39	2542	3071	5253
PERKIOMEN_344	2140	0.28	73	20	1.32	600	726	2830
PERKIOMEN_361	3283	1.99	63	125	2.83	6518	6820	9276
PERKIOMEN_363	2494	2.47	70	172	1.04	6163	7165	2600
POINT_001	494	2.02	190	384	0.00	1000	3164	1
POPLAR_003	844	0.37	75	28	0.20	316	395	170
PORTERS_MILL_002	258	4.07	174	707	2.10	1049	3040	542
RAHNS_000	632	1.02	24	25	1.03	643	260	652
SADSBURY_000	600	1.04	94	98	3.34	626	981	2002
SCHWENKSVILLE_001	531	6.54	134	879	4.01	3474	7775	2129

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
SCHWENKSVILLE_002	660	1.63	70	114	3.33	1073	1257	2200
SOLEBURY_001	470	4.01	157	627	1.22	1883	4912	574
SOLEBURY_002	276	2.37	105	250	2.46	655	1149	679
STONY_002	202	0.65	136	89	0.04	132	299	8
STREET_000	317	2.11	217	458	4.20	669	2421	1330
THORNDALE_002	466	0.33	74	24	2.65	153	189	1233
TREDYFFRIN_132	619	1.61	180	290	0.63	997	2996	390
TUNA_132	758	0.70	270	188	0.42	528	2380	315
TUNA_133	1683	0.36	54	20	0.02	612	547	30
TUNA_143	373	1.89	99	186	2.64	706	1159	984
TUNA_146	1598	0.02	63	1	0.00	27	28	0
TUNNEL_137	6	0.00	0	0	0.00	0	0	0
UNIVERSITY_012	17	0.94	64	61	0.00	16	17	0
UPPER_DARBY_134	2020	0.71	403	287	1.49	1438	9670	3014
UPPER_DARBY_135	2079	0.22	47	10	0.02	458	356	41
UPPER_MERION_144	904	0.47	80	38	0.13	425	570	116
UPPER_PROVIDENCE_343	1501	2.02	95	192	0.82	3038	4793	1230
UPPER_PROVIDENCE_344	1531	1.09	113	123	1.63	1664	3128	2501
WANEETA_133	1568	0.06	424	27	0.57	100	707	891
WARRINGTON_341	2358	0.63	131	82	1.17	1474	3219	2756
WARRINGTON_364	1750	1.05	66	69	4.17	1837	2017	7294
WAVERLY_136	24	0.13	75	9	0.00	3	4	0
WAYNE_134	545	1.33	252	336	1.79	727	3047	978
WAYNE_143	698	2.00	120	240	4.60	1396	2794	3211
WENTZ_000	320	1.01	70	71	1.30	323	378	417
WEST_OAK_LANE_005	763	0.26	103	27	0.09	197	338	72
WHITAKER_000	177	0.23	24	6	1.02	41	16	181
WHITEMARSH_133	1666	1.19	111	132	2.67	1979	3665	4455
WHITEMARSH_142	1016	0.00	201	1	0.00	4	13	4
WHITEMARSH_144	766	0.60	163	97	0.92	457	1239	701
WHITEMARSH_163	330	1.29	90	116	1.39	425	636	459
WHITEMARSH_164	1144	1.00	227	226	0.45	1142	4315	515
WILLOWDALE_001	318	0.34	751	253	0.04	107	1339	14
WISTER_010	151	1.25	64	80	0.79	189	200	120
WOODBOURNE_341	4758	0.61	118	72	1.47	2883	5687	7008
WOODBOURNE_352	1516	1.16	183	213	1.06	1765	5371	1608

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 06/30/2024

### **BEIDLER\_131**

*Montgomery County*

#### **Completed:**

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

### **BELMONT\_003**

*Montgomery County*

#### **Completed:**

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

#### **Planned:**

- Inspect circuit visually and with thermographic camera

### **BRADFORD\_344**

*Chester County*

#### **Completed:**

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

#### **Planned:**

- Inspect circuit visually and with thermographic camera

### **BRYAN\_001**

*York County*

#### **Completed:**

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

### **BRYAN\_002**

*York County*

#### **Completed:**

- Inspect circuit visually and with thermographic camera

#### **Planned:**

- Upgrade primary

### **BUCKINGHAM\_354**

*Bucks County*

#### **Completed:**

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

**CLAY\_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
- Upgrade fusing
- Remedial efforts completed

**COOPER\_371***York County***Completed:**

- Inspect circuit visually and with thermographic camera

**Planned:**

- Upgrade primary

**CORNOG\_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
- Remedial efforts completed

**CURLY\_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
- Remedial efforts completed

**DOWNINGTOWN\_003***Chester County***Planned:**

- Inspect circuit visually and with thermographic camera

**EAGLE\_341***Chester County***Completed:**

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

**EAGLE\_353***Chester County***Completed:**

- Complete corrective reliability work orders
- Upgrade insulators

**Planned:**

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

**ELLWOOD\_001**

*Bucks County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**EMILIE\_131**

*Bucks County*

**Completed:**

Complete corrective reliability work orders  
nan

**Planned:**

Inspect circuit visually and with thermographic camera

**EMILIE\_132**

*Bucks County*

**Completed:**

Complete corrective reliability work orders  
Upgrade secondary

**Planned:**

Inspect circuit visually and with thermographic camera

**EVANS\_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  
Remedial efforts completed

**FLINT\_132**

*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  
Install new fusing  
Remedial efforts completed

**FLINT\_144**

*Delaware County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**FOULK\_131**

*Delaware County*

**Completed:**

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

**FURNACE\_000***York 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

**Planned:**

- Upgrade primary

**GARRETT\_006***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

**GERMANTOWN\_022***Philadelphia County***Completed:**

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

**GLADWYNE\_001***Delaware County***Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

**GLADWYNE\_132***Delaware County***Completed:**

- Upgrade insulators

**Planned:**

- Inspect circuit visually and with thermographic camera
- Upgrade primary

**GOLF\_002***Chester County***Planned:**

- Inspect circuit visually and with thermographic camera
- Upgrade primary

**GOSHEN\_351***Chester County***Planned:**

- Inspect circuit visually and with thermographic camera

**GROVE\_000***Chester County***Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**HAGYS\_004**

*Delaware County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

**HARMONY\_003**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**HEATON\_147**

*Montgomery County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**HUNTING\_PARK\_040**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Complete corrective reliability work orders

**KEMBLE\_002**

*Chester County*

**Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Upgrade primary

**KENNETT\_SQUAR\_005**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**KING\_135**

*Montgomery County*

**Planned:**

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

**LAMOKIN\_001***Delaware County***Completed:**

Complete corrective reliability work orders

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

**Planned:**

Inspect circuit visually and with thermographic camera

**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

**LENAPE\_341***Chester County***Planned:**

Inspect circuit visually and with thermographic camera

**LEWIS\_001***Montgomery County***Completed:**

Install tree resistant wire

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_1068***Philadelphia County***Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_106\_00***Bucks County***Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_1073***Philadelphia County***Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_132\_00WO***Bucks County***Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_189\_00EM***Bucks County***Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_1900BA**

*Montgomery County*

**Completed:**

Complete corrective reliability work orders  
Install animal protection

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_2200CR**

*Chester County*

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_2278**

*Philadelphia County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_2292**

*Philadelphia County*

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_3300**

*Bucks County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_3700EM**

*Bucks County*

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_4100PB**

*Chester County*

**Planned:**

Inspect circuit visually and with thermographic camera

**LINE\_800CR**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**MARSHALLTON\_001**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**MARSHALLTON\_002**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**MEDIA\_012**

*Delaware County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**MIDDLETOWN\_142**

*Delaware County*

**Planned:**

Inspect circuit visually and with thermographic camera

Upgrade secondary

**MONTGOMERY\_000**

*Bucks County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**MORWOOD\_000**

*Montgomery County*

**Planned:**

Inspect circuit visually and with thermographic camera

**MOUNTAIN\_000**

*Bucks County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**NEWLINVILLE\_353**

*Chester County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**NEWLINVILLE\_361**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**NORCO\_001**

*Chester County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

**NORTH\_WALES\_346**

*Montgomery County*

**Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**PARRISH\_138**

*Philadelphia County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**PEACH\_BOTTOM\_361**

*York County*

**Completed:**

Complete corrective reliability work orders  
Upgrade fusing

**Planned:**

Inspect circuit visually and with thermographic camera

**PENLLYN\_002**

*Montgomery County*

**Planned:**

Inspect circuit visually and with thermographic camera

**PENTRIDGE\_015**

*Philadelphia County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**PENTRIDGE\_017**

*Philadelphia County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**PERKIOMEN\_341**

*Montgomery County*

**Completed:**

Complete corrective reliability work orders  
Upgrade primary

**Planned:**

Inspect circuit visually and with thermographic camera

**PERKIOMEN\_344**

*Montgomery County*

**Completed:**

Upgrade fusing

**Planned:**

Inspect circuit visually and with thermographic camera

**PERKIOMEN\_361**

*Montgomery County*

**Completed:**

Complete corrective reliability work orders  
Upgrade secondary

**Planned:**

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

**PERKIOMEN\_363**

*Montgomery County*

**Planned:**

Inspect circuit visually and with thermographic camera

**POINT\_001**

*Montgomery County*

**Planned:**

Inspect circuit visually and with thermographic camera

**POPLAR\_003**

*Montgomery County*

**Planned:**

Inspect circuit visually and with thermographic camera

**PORTERS\_MILL\_002**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

**RAHNS\_000**

*Montgomery County*

**Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**SADSBURY\_000**

*Chester County*

**Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

**SCHWENKSVILLE\_001**

*Montgomery County*

**Completed:**

Install new FCI'S

**Planned:**

Inspect circuit visually and with thermographic camera

**SCHWENKSVILLE\_002**

*Montgomery County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**SOLEBURY\_001**

*Bucks County*

**Completed:**

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

**Planned:**

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

**SOLEBURY\_002**

*Bucks County*

**Completed:**

Complete corrective reliability work orders  
Upgrade transformer

**Planned:**

Inspect circuit visually and with thermographic camera

**STONY\_002**

*Bucks County*

**Completed:**

Complete corrective reliability work orders  
Upgrade transformer

**Planned:**

Inspect circuit visually and with thermographic camera

**STREET\_000**

*Chester County*

**Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

**THORNDALE\_002***Chester County***Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**TREDYFFRIN\_132***Chester County***Completed:**

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

**Planned:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

**TUNA\_132***Philadelphia County***Planned:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Install new recloser

**TUNA\_133***Philadelphia County***Completed:**

Complete corrective reliability work orders

**Planned:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

**TUNA\_143***Philadelphia County***Planned:**

Inspect circuit visually and with thermographic camera

**TUNA\_146***Philadelphia County***Completed:**

Complete corrective reliability work orders

Upgrade primary

**Planned:**

Complete corrective reliability work orders

Inspect circuit visually and with thermographic camera

Upgrade transformer

**TUNNEL\_137***Philadelphia County***Planned:**

Inspect circuit visually and with thermographic camera

**UNIVERSITY\_012***Philadelphia County***Planned:**

Inspect circuit visually and with thermographic camera

Upgrade primary

**UPPER\_DARBY\_134***Delaware County***Completed:**

- Complete corrective reliability work orders
- Upgrade primary

**Planned:**

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

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

- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera

**UPPER\_MERION\_144***Chester County***Completed:**

- Complete corrective reliability work orders
- Install cut-out mounted recloser

**Planned:**

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

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

- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera

**UPPER\_PROVIDENCE\_344***Montgomery County***Completed:**

- Complete corrective reliability work orders
- Upgrade transformer

**Planned:**

- Inspect circuit visually and with thermographic camera

**WANEETA\_133***Philadelphia County***Completed:**

- Complete corrective reliability work orders

**Planned:**

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

**WARRINGTON\_341***Bucks County***Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

**WARRINGTON\_364***Bucks County***Completed:**

- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install new fusing
- Upgrade secondary

**Planned:**

- Inspect circuit visually and with thermographic camera

**WAVERLY\_136***Philadelphia County***Planned:**

- Inspect circuit visually and with thermographic camera

**WAYNE\_134***Delaware County***Completed:**

- Upgrade primary

**Planned:**

- Inspect circuit visually and with thermographic camera
- Install new fusing
- Upgrade secondary

**WAYNE\_143***Delaware County***Planned:**

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

**WENTZ\_000***Montgomery County***Completed:**

- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera

**WEST\_OAK\_LANE\_005***Philadelphia County***Completed:**

- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera
- Upgrade infrastructure

**WHITAKER\_000***Philadelphia County***Completed:**

- Complete corrective reliability work orders

**Planned:**

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

**WHITEMARSH\_133***Montgomery County*

**Completed:**

- Complete corrective reliability work orders
- Install new fusing
- Upgrade fusing
- Upgrade secondary
- nan

**Planned:**

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

**WHITEMARSH\_142***Montgomery County***Completed:**

- Complete corrective reliability work orders
- Install new fusing

**Planned:**

- Inspect circuit visually and with thermographic camera

**WHITEMARSH\_144***Montgomery County***Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

**WHITEMARSH\_163***Montgomery County***Completed:**

- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera

**WHITEMARSH\_164***Montgomery County***Completed:**

- Complete corrective reliability work orders
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install new fusing
- Upgrade secondary

**Planned:**

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

**WILLOWDALE\_001***Chester County***Planned:**

- Inspect circuit visually and with thermographic camera
- Upgrade secondary

**WISTER\_010***Philadelphia County***Planned:**

- Inspect circuit visually and with thermographic camera

**WOODBOURNE\_341**

*Bucks County*

**Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

**WOODBOURNE\_352**

*Bucks County*

**Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

## **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).