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PECO
2301 Market Street
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January 29, 2021

VIA E-FILING ONLY

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

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

Dear Secretary Chiavetta:

Enclosed is PECO's 2020 Quarterly Reliability Report for the period ending December 31, 2020 submitted pursuant to the Electric Service Reliability Regulations at 52 Pa. Code Chapter 57.

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.

As per the stay-at-home orders issued by the Governor and Philadelphia's Mayor, all PECO attorneys and key support staff are working remotely until these restrictions are lifted. Accordingly, PECO will not have its usual access to photocopying and U.S. mail, among other services. PECO is filing this report by e-filing and requests that all communications with PECO, likewise, be transmitted by email.

Thank you for your assistance in this matter and please direct any questions regarding the above to Richard Schlesinger, Manager, Retail Rates at (215)841-5771 or via email: rich.schlesinger@peco-energy.com.

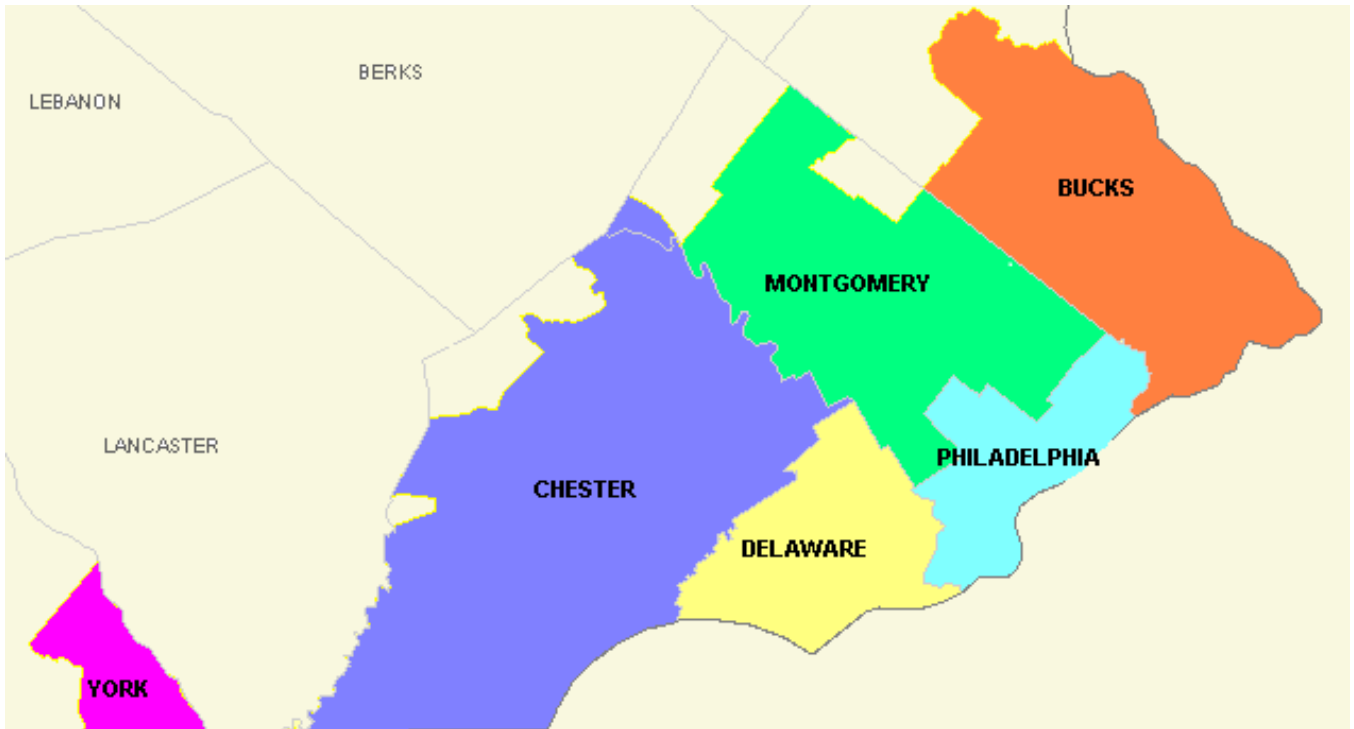
Sincerely,



Enclosure

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

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



January 29, 2021

PECO Energy (“PECO”)

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

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

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

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

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

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

Data reflects 12 months ending 12/31/2020.

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

SAIFI and SAIDI are below their Benchmark and Standard and CAIDI is above its Benchmark and Standard. Benchmarks and Standards were established on May 7, 2004. No Benchmark or Standard was established for MAIFI. Extended service restoration times caused by several significant storms during the last twelve months drove the duration index of rolling 12-month CAIDI higher.

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

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

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

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

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

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

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

The largest contributors to customer interruptions were equipment failure and tree-related interruptions. The leading groups within the equipment failure category were aerial equipment and underground equipment. Equipment is replaced based on observed trends under reliability programs and the System 2020 Long-term Infrastructure Investment Plan. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (39.9% of all customer interruptions), as opposed to ingrowth (3.8% of all outage customer interruptions). PECO has observed an increase in dead and declining ash trees near its electrical facilities. Emerald ash borers (invasive insects that cause ash tree deaths) are known to be concentrated in the eastern United States and have infested areas across the PECO territory. Limb and tree failures caused by emerald ash borers are expected to occur for several years. PECO is addressing this issue with a vegetation management program to continue to mitigate the threat to its facilities and customer reliability. Through accelerated vegetation maintenance, PECO has completed additional miles of vegetation distribution preventive maintenance in 2020.

Section 57.195(e)(6). “Quarterly and year to date information on progress toward meeting transmission and distribution inspection and maintenance goals /objectives” (For First, Second and Third Quarter reports only).”

No data required for fourth quarter report

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

No data required for fourth quarter report

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

No data required for fourth quarter report

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

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

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

Contact Persons:

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Appendix A
Rolling 12- month reliability index values for 5% worst performing circuits

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
BALA_131	2216	1233	3532	1598.92	1.59386	27.161721	43.29206	0.55641
BELLEVUE_133	1395	4661	902	3744.22	0.64659	249.0612	161.04172	3.34122
BELLEVUE_134	866	908	1447	789.78	1.6709	32.748307	54.71917	1.0485
BETHAYRES_135	735	3130	256	431.26	0.3483	101.07656	35.2049	4.2585
BLUE_GRASS_134	1359	0	205	581.03	0.15085	170.05756	25.65254	0
BLUE_GRASS_140	1669	276	534	1323.51	0.31995	148.70899	47.57975	0.16537
BRYN_MAWR_131	893	372	731	9464.36	0.81859	776.82845	635.90325	0.41657
BUCK_000	498	1649	1229	1960.78	2.46787	95.725631	236.23855	3.31124
BUCKINGHAM_342	3116	6908	4686	9361.48	1.50385	119.8653	180.25956	2.21694
BUCKINGHAM_344	1610	2	702	812.3	0.43602	69.42735	30.27205	0.00124
BUCKINGHAM_354	1780	3836	5182	8469.42	2.91124	98.063528	285.48607	2.15506
BUCKINGHAM_371	2091	7045	4954	9004.45	2.3692	109.05672	258.37733	3.3692
CALLOWHILL_132	3179	937	3809	4331.83	1.19818	68.235705	81.75835	0.29475
CALLOWHILL_133	2025	3713	2047	1107.29	1.01086	32.455984	32.80859	1.83358
CARMEL_001	430	0	10	46.67	0.02326	280.02	6.51209	0
CARVER_000	364	1474	4163	6873.97	11.43681	99.072352	1,133.07198	4.04945
CEDARBROOK_131	1013	9	346	1315.04	0.34156	228.04162	77.88983	0.00888
CEDARBROOK_136	591	0	737	1188.93	1.24704	96.79213	120.70355	0
CHALFONT_002	508	1521	1050	1528.4	2.06693	87.337143	180.51969	2.99409
CHANDLER_000	405	2121	3035	7988.35	7.49383	157.92455	1,183.45926	5.23704
CHESTNUT_HILL_032	602	67	90	70.67	0.1495	47.113333	7.04352	0.1113
CONCORD_347	1521	1996	1659	6247.92	1.09073	225.96456	246.46627	1.31229
CONCORD_351	2286	21918	10506	23775.81	4.5958	135.78418	624.03701	9.58793
DOYLESTOWN_002	714	0	40	228.1	0.05602	342.15	19.16807	0
DOYLESTOWN_004	814	1632	2409	5020.31	2.95946	125.03885	370.04742	2.00491
DURHAM_005	512	0	99	85.25	0.19336	51.666667	9.99023	0
DUTTON_004	313	1	713	1561.79	2.27796	131.42693	299.38466	0.00319
EAGLE_342	2857	10046	4644	13864	1.62548	179.12145	291.15856	3.51628
EDDINGTON_134	744	636	750	655.82	1.00806	52.4656	52.88871	0.85484
EDDINGTON_142	1154	2343	874	4136.86	0.75737	283.99497	215.08804	2.03033
EMILIE_132	1287	77	1423	2317.73	1.10567	97.725791	108.05268	0.05983
FALLS_351	2238	9557	4024	6111.22	1.79803	91.121571	163.83968	4.27033
FLINT_132	1267	657	2995	7634.5	2.36385	152.94491	361.53907	0.51855
FLINT_144	840	340	1071	2359.36	1.275	132.17703	168.52571	0.40476
FOULK_131	1425	3878	2487	5365.57	1.74526	129.4468	225.91874	2.7214
GERMANTOWN_014	582	39	1382	1689.78	2.37457	73.362373	174.20412	0.06701
GLADWYNE_133	605	3425	376	1450.9	0.62149	231.5266	143.89091	5.66116
GLADWYNE_138	931	2258	2197	3825.9	2.35983	104.48521	246.56713	2.42535
GOSHEN_352	2972	3544	4945	12332.09	1.66386	149.63102	248.96548	1.19246
HUNTING_PARK_030	743	0	920	1898.91	1.23822	123.84196	153.34401	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
JARRETT_132	1403	2433	2434	4281.49	1.73485	105.54207	183.10007	1.73414
KENNETT_SQUAR_005	302	2979	2494	6535.11	8.25828	157.21997	1,298.36623	9.86424
KING_135	399	726	736	1396.47	1.84461	113.84266	209.99549	1.81955
LANDENBERG_000	547	1867	3038	9363.31	5.55393	184.92383	1,027.05411	3.41316
LANE_002	745	2282	2707	9203.66	3.63356	203.9969	741.23436	3.06309
LENAPE_342	1842	8833	2763	8560.81	1.5	185.9025	278.85375	4.79533
LENAPE_351	1807	11470	7520	41811.22	4.16159	333.60016	1,388.30836	6.34754
LEOPARD_001	451	913	592	7753.26	1.31264	785.80338	1,031.47583	2.02439
LINE_1300CR	2525	1425	5476	31706.95	2.16871	347.40997	753.43248	0.56436
LINE_132_00WO	594	682	1427	3438.81	2.40236	144.58907	347.35455	1.14815
LINE_2394	1745	9	161	340.43	0.09226	126.86832	11.70533	0.00516
LINE_300CR	1260	998	849	4381.29	0.67381	309.6318	208.63286	0.79206
LINE_3329	230	6	5	22.8	0.02174	273.6	5.94783	0.02609
LINE_3340	929	11	947	1022.8	1.01938	64.802534	66.05813	0.01184
LINE_6000	15	0	54	403.77	3.6	448.63333	1,615.08	0
LINE_708	1319	1	4012	790.72	3.0417	11.825324	35.96907	0.00076
LINE_744	333	0	1013	772.52	3.04204	45.756367	139.19279	0
LINE_800CR	1814	3186	5170	19501.86	2.85006	226.3272	645.04498	1.75634
LINTON_343	2885	2823	5247	20932.79	1.81872	239.36867	435.34399	0.97851
LINTON_351	3085	6741	2185	8834.92	0.70827	242.6065	171.82989	2.18509
MIDDLETOWN_131	923	11	964	2302.65	1.04442	143.31846	149.68472	0.01192
MIDDLETOWN_142	1368	1658	1479	11739.95	1.08114	476.26572	514.91009	1.21199
MIDDLETOWN_143	1561	4544	2275	5858.84	1.4574	154.51886	225.19564	2.91095
MIDDLETOWN_349	2311	3244	8061	22318.84	3.4881	166.1246	579.45928	1.40372
MONROE_004	400	987	855	2918.64	2.1375	204.81684	437.796	2.4675
MOON_006	277	809	553	1914.74	1.99639	207.74756	414.74513	2.92058
MORTON_140	1338	0	924	719.79	0.69058	46.73961	32.27758	0
MORTON_142	1873	4846	5166	10940.58	2.75814	127.06829	350.4724	2.58729
NEW_HOPE_001	492	5644	2538	5715	5.15854	135.10638	696.95122	11.47154
NEW_HOPE_002	616	6163	1720	1699.43	2.79221	59.282442	165.5289	10.00487
NEWLINVILLE_351	1398	4553	3682	12206.52	2.63376	198.91124	523.88498	3.2568
NEWLINVILLE_352	2412	3072	2560	4603.94	1.06136	107.90484	114.52587	1.27363
NEWLINVILLE_361	1032	1159	1729	10222.99	1.67539	354.75963	594.35988	1.12306
NEWTOWN_SQUAR_133	784	679	876	8051.93	1.11735	551.50205	616.21913	0.86607
NEWTOWN_SQUAR_134	984	1309	1961	5699.95	1.99289	174.39929	347.55793	1.33028
NOLAN_002	698	3955	1183	7649.86	1.69484	387.98952	657.58109	5.66619
NORTH_WALES_366	2688	2051	2010	5867.31	0.74777	175.14358	130.96674	0.76302
PARRISH_139	1039	349	680	533.65	0.65448	47.086765	30.81713	0.3359
PLYMOUTH_181	980	91	783	2795.86	0.79898	214.24215	171.1751	0.09286
POOLS_001	640	0	776	1066.13	1.2125	82.432732	99.94969	0
PULASKI_133	3048	6260	6104	7578.98	2.00262	74.498493	149.19252	2.05381
PULASKI_137	380	0	491	365.23	1.29211	44.630957	57.66789	0
RICHBORO_004	407	1265	59	517.21	0.14496	525.97627	76.24717	3.10811
RICHMOND_143	2180	0	66	54.55	0.03028	49.590909	1.50138	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
ROXBOROUGH_131	2026	37	1704	3444.73	0.84107	121.29331	102.0157	0.01826
ROXBOROUGH_135	1318	401	264	373.4	0.2003	84.863636	16.99848	0.30425
SAVILLE_136	2047	2718	2702	3853.35	1.31998	85.566617	112.94626	1.3278
SCOTT_002	266	18	301	3235.08	1.13158	644.86645	729.71729	0.06767
SILES_135	1343	2011	130	806.64	0.0968	372.29538	36.03753	1.49739
STONY_001	398	854	2965	9305.4	7.44975	188.30489	1,402.82412	2.14573
TACONY_131	1032	0	1083	591.69	1.04942	32.780609	34.40058	0
TANGUY_000	193	576	523	2658.3	2.70984	304.9675	826.41451	2.98446
TREDFFRIN_132	619	480	1145	6136.38	1.84976	321.55703	594.80258	0.77544
TREVOSE_138	1190	1255	291	923.32	0.24454	190.37526	46.55395	1.05462
TULIP_000	487	0	0	0	0	0	0	0
UPPER_MERION_132	1140	1445	1713	13785.16	1.50263	482.84273	725.53474	1.26754
UPPER_MERION_141	740	821	1309	14359.72	1.76892	658.19954	1,164.30162	1.10946
UPPER_MERION_351	3025	1677	2353	11137.32	0.77785	283.99456	220.90552	0.55438
WAGONTOWN_000	567	2263	1744	1962	3.07584	67.5	207.61905	3.99118
WANEETA_137	1202	2347	3920	2132.15	3.26123	32.634949	106.43012	1.95258
WARMINSTER_141	1845	2078	3572	4469.8	1.93604	75.080627	145.35935	1.12629
WARRINGTON_364	1678	8	1889	3734.78	1.12574	118.62721	133.54398	0.00477
WAYNE_131	976	1542	830	708.59	0.85041	51.223373	43.56086	1.57992
WAYNE_136	939	1788	1364	12027.49	1.45261	529.06848	768.52971	1.90415
WAYNE_146	579	1684	2587	10536.55	4.46805	244.37302	1,091.87047	2.90846
WEST_BUCK_002	444	505	186	2449.29	0.41892	790.09355	330.98514	1.13739
WEST_CHESTER_011	604	200	1186	4018.46	1.96358	203.29477	399.18477	0.33113
WESTTOWN_000	241	2701	1317	4178.65	5.46473	190.3713	1,040.3278	11.20747
WHITEMARSH_132	1755	5081	2239	3497.18	1.27578	93.716302	119.56171	2.89516
WHITEMARSH_141	1140	41	1375	1031.77	1.20614	45.022691	54.30368	0.03596
WHITEMARSH_142	1037	1825	2810	3083.57	2.70974	65.841352	178.41292	1.75988
WHITEMARSH_164	1145	5	986	2061.39	0.86114	125.43955	108.02044	0.00437
WOODBOURNE_351	2825	9024	3375	3542.91	1.19469	62.985067	75.24765	3.19434
WOODBOURNE_353	2055	2711	1229	7819.42	0.59805	381.74548	228.30423	1.31922

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

Appendix B

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

BALA_131

Philadelphia County

Completed:

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

BELLEVUE_133

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Remedial efforts completed

BELLEVUE_134

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Install tree-resistant wire
- Remedial efforts completed

BETHAYRES_135

Montgomery County

Completed:

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

BLUE_GRASS_134

Philadelphia County

Completed:

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

BLUE_GRASS_140

Philadelphia County

Completed:

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

BRYN_MAWR_131*Delaware County***Completed:**

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

BUCKINGHAM_342*Bucks County***Completed:**

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

BUCKINGHAM_344*Bucks County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install Recloser
- Upgrade fusing
- Remedial efforts completed

BUCKINGHAM_354*Bucks County***Completed:**

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

BUCKINGHAM_371*Bucks County***Completed:**

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

BUCK_000*Chester County***Completed:**

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

CALLOWHILL_132*Philadelphia County***Completed:**

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

CALLOWHILL_133*Philadelphia County***Completed:**

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

CARMEL_001*Montgomery County***Completed:**

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

CARVER_000*Bucks County***Completed:**

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

CEDARBROOK_131*Montgomery County***Completed:**

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

CEDARBROOK_136*Montgomery County***Completed:**

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

CHALFONT_002*Bucks County***Completed:**

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

CHANDLER_000*Chester County***Completed:**

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

CHESTNUT_HILL_032*Philadelphia County***Completed:**

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

CONCORD_347*Delaware County***Completed:**

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

CONCORD_351*Delaware County***Completed:**

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

DOYLESTOWN_002*Bucks County***Completed:**

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

DOYLESTOWN_004*Bucks County***Completed:**

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

DURHAM_005*Bucks County***Completed:**

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

DUTTON_004*Delaware County***Completed:**

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

EAGLE_342

Chester County

Completed:

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

EDDINGTON_134

Bucks County

Completed:

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

EDDINGTON_142

Bucks County

Completed:

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

EMILIE_132

Bucks County

Completed:

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

FALLS_351

Bucks County

Completed:

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

FLINT_132

Montgomery County

Completed:

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

FLINT_144

Delaware County

Completed:

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

Remedial efforts completed

FOULK_131

Delaware County

Completed:

Inspect circuit visually and with thermographic camera
Remedial efforts completed

GERMANTOWN_014

Philadelphia County

Completed:

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

GLADWYNE_133

Delaware County

Completed:

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

GLADWYNE_138

Delaware County

Completed:

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

GOSHEN_352

Chester County

Completed:

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

HUNTING_PARK_030

Philadelphia County

Completed:

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

JARRETT_132

Montgomery County

Completed:

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

Remedial efforts completed

KENNETT_SQUAR_005

Chester County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Install tree-resistant wire
- Perform regularly scheduled tree clearance
- Remedial efforts completed

KING_135

Montgomery County

Completed:

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

LANDENBERG_000

Chester County

Completed:

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

LANE_002

Montgomery County

Completed:

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

LENAPE_342

Chester County

Completed:

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

LENAPE_351

Chester County

Completed:

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

LEOPARD_001*Chester County***Completed:**

Inspect circuit visually and with thermographic camera
Remedial efforts completed

LINE_1300CR*Chester County***Completed:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Install tree-resistant wire
Remedial efforts completed

LINE_132_00WO*Bucks County***Completed:**

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

LINE_2394*Philadelphia County***Completed:**

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

LINE_300CR*Chester County***Completed:**

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Install cutout-mounted recloser
Upgrade primary wire
Remedial efforts completed

LINE_3329*Delaware County***Completed:**

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

LINE_3340*Delaware County***Completed:**

Complete corrective reliability work orders

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

LINE_6000

Bucks County

Completed:

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

LINE_708

Philadelphia County

Completed:

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

LINE_744

Philadelphia County

Completed:

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

LINE_800CR

Chester County

Completed:

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Install cutout-mounted recloser
Remedial efforts completed

LINTON_343

Bucks County

Completed:

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

LINTON_351

Bucks County

Completed:

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

MIDDLETOWN_131*Delaware County***Completed:**

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

MIDDLETOWN_142*Delaware County***Completed:**

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

MIDDLETOWN_143*Delaware County***Completed:**

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

MIDDLETOWN_349*Delaware County***Completed:**

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

MONROE_004*Delaware County***Completed:**

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

MOON_006*Bucks County***Completed:**

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

MORTON_140*Delaware County***Completed:**

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

MORTON_142

Delaware County

Completed:

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

NEWLINVILLE_351

Chester County

Completed:

Complete corrective reliability work orders
Inspect circuit visually and with thermographic camera
Inspect selected areas of circuit for vegetation issues and correct as needed
Install tree-resistant wire
Upgrade Transformer
Remedial efforts completed

NEWLINVILLE_352

Chester County

Completed:

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

NEWLINVILLE_361

Chester County

Completed:

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

NEWTOWN_SQUAR_133

Chester County

Completed:

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

NEWTOWN_SQUAR_134

Delaware County

Completed:

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

NEW_HOPE_001

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install fuses and switches
- Remedial efforts completed

NEW_HOPE_002*Bucks County***Completed:**

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

NOLAN_002*Bucks County***Completed:**

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

NORTH_WALES_366*Bucks County***Completed:**

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

PARRISH_139*Philadelphia County***Completed:**

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

PLYMOUTH_181*Montgomery County***Completed:**

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

Planned:

- Perform regularly scheduled tree clearance

POOLS_001*Bucks County***Completed:**

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

PULASKI_133*Philadelphia County***Completed:**

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

PULASKI_137*Philadelphia County***Completed:**

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

RICHBORO_004*Bucks County***Completed:**

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

RICHMOND_143*Philadelphia County***Completed:**

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

ROXBOROUGH_131*Philadelphia County***Completed:**

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

ROXBOROUGH_135*Philadelphia County***Completed:**

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

Planned:

- Perform regularly scheduled tree clearance

SAVILLE_136

Delaware County

Completed:

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

SCOTT_002

Delaware County

Completed:

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

SILES_135

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Replace underground cable
- Remedial efforts completed

STONY_001

Bucks County

Completed:

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

TACONY_131

Philadelphia County

Completed:

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

TANGUY_000

Delaware County

Completed:

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

TREDYFFRIN_132

Chester County

Completed:

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

TREVOSE_138*Bucks County***Completed:**

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

TULIP_000*Philadelphia County***Completed:**

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

UPPER_MERION_132*Chester County***Completed:**

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

UPPER_MERION_141*Chester County***Completed:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install cutout-mounted recloser
- Perform regularly scheduled tree clearance
- Remedial efforts completed

UPPER_MERION_351*Chester County***Completed:**

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

WAGONTOWN_000*Chester County***Completed:**

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

Remedial efforts completed

WANEETA_137

Philadelphia County

Completed:

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

WARMINSTER_141

Bucks County

Completed:

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Install animal protection
- Remedial efforts completed

WARRINGTON_364

Bucks County

Completed:

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

WAYNE_131

Delaware County

Completed:

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

WAYNE_136

Delaware County

Completed:

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

WAYNE_146

Delaware County

Completed:

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

WESTTOWN_000

Chester County

Completed:

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

WEST_BUCK_002*Bucks County***Completed:**

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

WEST_CHESTER_011*Chester County***Completed:**

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

WHITEMARSH_132*Montgomery County***Completed:**

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

WHITEMARSH_141*Montgomery County***Completed:**

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

WHITEMARSH_142*Montgomery County***Completed:**

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

WHITEMARSH_164*Montgomery County***Completed:**

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

WOODBOURNE_351

Bucks County

Completed:

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

WOODBOURNE_353

Bucks County

Completed:

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

Appendix C

New Business Connections

This work category includes all the facility work required to add a new customer or to increase the load to an existing customer. The facility work will include the facilities required to directly connect the customer to the system and the upgrade/replacement of any existing facility to serve the requested additional load.

Capacity Expansion

This work category includes only capacity work generated by the system design engineer to prevent system failure and to assure the delivery of voltage as specified in the tariff. The addition of new substations and substation enlargements for future load growth will also be included in this project.

System Performance

This work category includes projects designed to upgrade, modify or improve the performance of the distribution system. Also included in this category are indirect costs in support of all categories and one-time accounting adjustment items.

Facility Relocation

This work category includes all requests for relocation of PECO facilities including municipal as well as customer related relocation requests.

Maintenance

This work category includes work performed to repair and restore equipment to its normal state of operation, along with planned preventive maintenance work such as visual and thermographic inspections and tree trimming around transmission and distribution lines.

Storm Funds

Incremental costs (primarily; overtime, contractors, mutual assistance, and meals) incurred while responding to major storms (storms that meet customer outage and duration criteria).