

**Richard G. Webster, Jr.**  
Vice President  
Regulatory Policy and Strategy  
  
PECO  
2301 Market Street  
S18  
Philadelphia, PA 19103

Telephone 215.841.5777  
Fax 215.841.6208  
www.peco.com  
dick.webster@peco-energy.com

August 1, 2019

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

**Re: PECO 2019 Second Quarter Reliability Report PUC Docket No. M-2016-2522508**

Dear Secretary Chiavetta:

Enclosed is PECO's 2019 Quarterly Reliability Report for the period ending June 30, 2019 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.

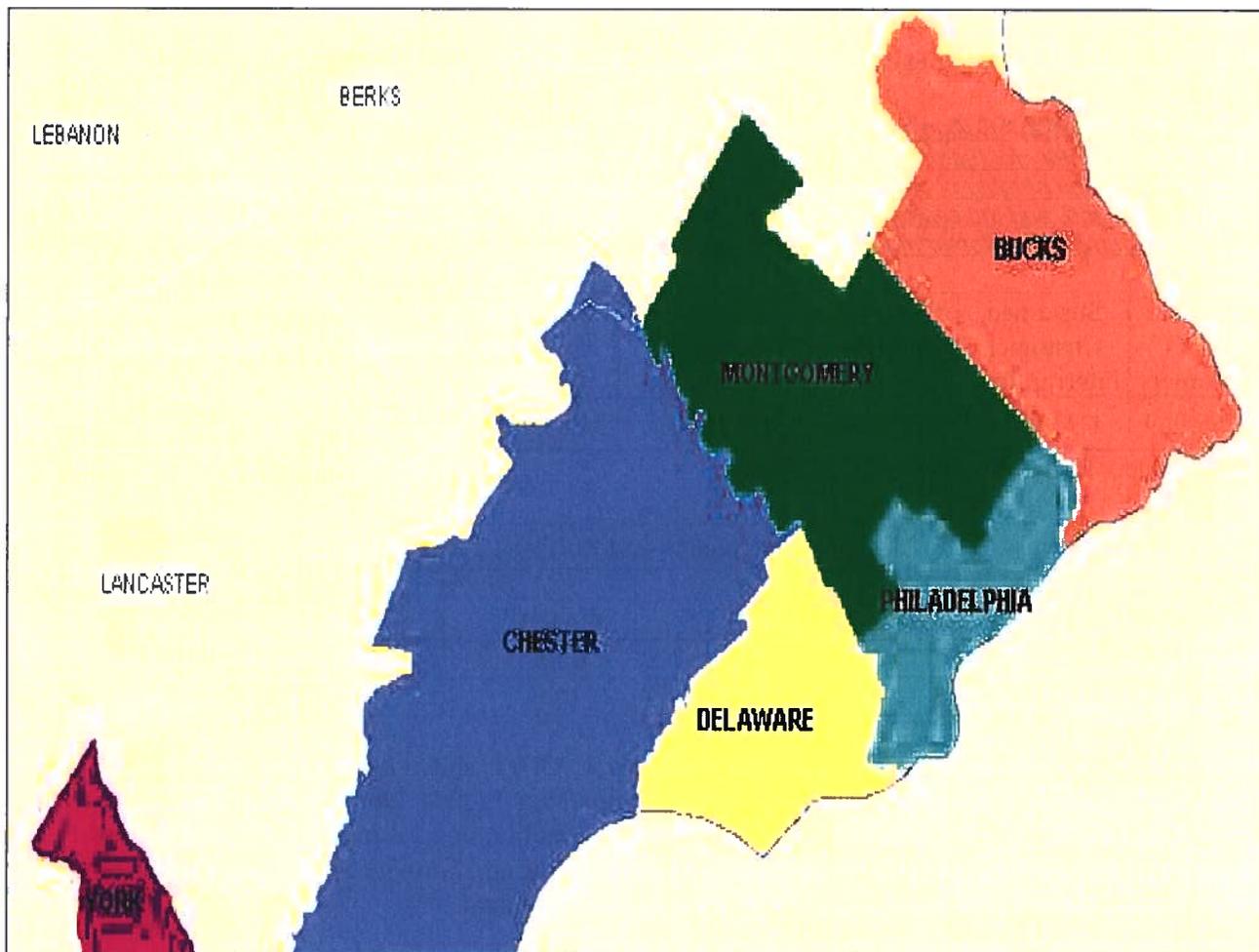
If you have any questions regarding this matter, please call me at 215-841-5777.

Sincerely,



Enclosure

# PECO Energy Company Quarterly Reliability Report For Period Ending June 30, 2019



**August 1, 2019**

**PECO Energy ("PECO")**

Quarterly Reliability Report for the Period Ending June 30, 2019 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 2019.

**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 |
|----------------|----------------------------------|--------------------------|----------------------------------|----------------------------|-------|-------|-------|-------|
| 1,655,969      | 1,739,054                        | 4,009,595                | 1,462,197                        | 240,575,723                | 1.05  | 138   | 145   | 0.89  |

Data reflects 12 months ending 06/30/2019.

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

SAIFI is below its respective benchmarks and standards, CAIDI is above its standard, and SAIDI is above its benchmark and below its standard established on May 7, 2004. No benchmark or standard was established for MAIFI. Extended service restoration times caused by frequent storms during the last twelve months drove the duration indices of rolling 12-month SAIDI and CAIDI higher; SAIDI above the Benchmark and CAIDI above the Standard.

**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 June 30, 2019 |                 |                      |                        |                             |                  |
|--------------------------------|-----------------|----------------------|------------------------|-----------------------------|------------------|
| Cause                          | Service Outages | % of Service Outages | Customer Interruptions | % of Customer Interruptions | Customer Minutes |
| Animal                         | 973             | 6.6%                 | 36,492                 | 2.1%                        | 2,365,489        |
| Contact/Dig-In                 | 129             | 0.9%                 | 13,082                 | 0.8%                        | 1,470,565        |
| Equipment Failure              | 6,259           | 42.4%                | 732,993                | 42.1%                       | 86,421,187       |
| Lightning                      | 462             | 3.1%                 | 53,504                 | 3.1%                        | 9,042,795        |
| Other                          | 1,104           | 7.5%                 | 154,134                | 8.9%                        | 15,381,377       |
| T&S                            | 17              | 0.1%                 | 32,378                 | 1.9%                        | 1,632,393        |
| Unknown                        | 487             | 3.3%                 | 31,972                 | 1.8%                        | 3,354,902        |
| Vegetation-Broken/Uprooted     | 3,687           | 25.0%                | 499,860                | 28.7%                       | 96,590,302       |
| Vegetation-Ingrowth            | 1,210           | 8.2%                 | 106,696                | 6.1%                        | 16,159,542       |
| Vehicles                       | 433             | 2.9%                 | 77,943                 | 4.5%                        | 8,157,170        |

\*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 (28.7% of all customer interruptions), as opposed to ingrowth (6.1% 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 increase through this decade and into the next. PECO is addressing this issue with a vegetation management 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 6/30/2019  |                               |          |           |          |                    |
|---|-------------------------------|----------|-----------|----------|--------------------|
|   | 2 <sup>nd</sup> Quarter Tasks |          | YTD Tasks |          | 2019 Total Planned |
|   | Planned                       | Complete | Planned   | Complete |                    |
| Recloser Inspections<br>(Number of reclosers inspected)   | 44                            | 174      | 77        | 271      | 215                |
| Circuit Patrol & Thermography<br>(Number of circuits patrolled)   | 375                           | 882      | 665       | 1,407    | 972                |
| Pole Inspections<br>(Number of poles visually inspected)  | 9,182                         | 3,926    | 13,723    | 28,400   | 32,834             |
| Padmount Transformers<br>(Number of transformers visually inspected)  | 4,004                         | 3,363    | 5,617     | 5,157    | 9,619              |
| Below Ground Transformers<br>(Number of transformers visually inspected)  | 684                           | 574      | 1,072     | 1,111    | 1,627              |
| Substations<br>(Number of substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)           | 340                           | 355      | 680       | 702      | 1,340              |
| Unit Substations<br>(Number of unit substations inspections performed (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components) | 757                           | 779      | 1,515     | 1,546    | 2,980              |

| Vegetation Management Preventive Maintenance Program – status as of 6/30/19 |                               |          |           |          |                    |
|---|-------------------------------|----------|-----------|----------|--------------------|
|   | 2 <sup>nd</sup> Quarter Miles |          | YTD Miles |          | 2019 Total Planned |
|   | Planned                       | Complete | Planned   | Complete |                    |
| Distribution Lift and Manual Trimming                                       | 555                           | 830      | 1,075     | 1,550    | 2,187              |
| Transmission Trimming and Removals  | 30                            | 32       | 80        | 82       | 198                |

\* Year-to-date completed miles exceed the planned mileage due to an accelerated preventive maintenance schedule in 2019

**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<br>2nd Quarter | Actual<br>2nd Quarter | Budgeted<br>Year-to-Date | Actual<br>Year-to-Date |
|--------------------------|-------------------------|-----------------------|--------------------------|------------------------|
| New Business Connections | \$0.7                   | \$1.2                 | \$1.4                    | \$1.9                  |
| Capacity Expansion       | \$0.8                   | \$0.2                 | \$1.7                    | \$0.3                  |
| System Performance       | \$15.1                  | \$12.8                | \$30.8                   | \$27.1                 |
| Facility Relocation      | \$0.4                   | \$0.2                 | \$0.7                    | \$0.3                  |
| Maintenance              | \$51.7                  | \$52.8                | \$98.4                   | \$105.5                |
| Total                    | \$68.7                  | \$67.2                | \$133.0                  | \$135.1                |

**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<br>2nd Quarter | Actual<br>2nd Quarter | Budgeted<br>Year-to-Date | Actual<br>Year-to-Date |
|--------------------------|-------------------------|-----------------------|--------------------------|------------------------|
| New Business Connections | \$14.0                  | \$18.3                | \$26.1                   | \$33.6                 |
| Capacity Expansion       | \$16.9                  | \$12.9                | \$29.1                   | \$25.7                 |
| System Performance       | \$82.7                  | \$84.7                | \$158.9                  | \$163.8                |
| Facility Relocation      | \$1.9                   | \$3.3                 | \$4.7                    | \$7.7                  |
| Maintenance              | \$30.5                  | \$32.6                | \$58.9                   | \$68.5                 |
| Total                    | \$146.0                 | \$151.8               | \$277.7                  | \$299.3                |

**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, 2019 was as follows:

|  |     |
|--|-----|
| Aerial Lineman                                 | 424 |
| Underground Lineman (Include UTS)              | 71  |
| Transmission / Substation Mechanics, Operators | 99  |
| Energy Technicians                             | 82  |
| Aerial Foreman                                 | 63  |
| Underground Foreman                            | 19  |
| Transmission / Substation Foreman              | 33  |
| ET Foreman                                     | 4   |
| Distribution Mech Apprentice                   | 0   |
| Total  | 795 |

**Contact Persons:**

Steven Singh  
 Vice President Technical Services  
 (215) 841-4772  
[steven.singh@exeloncorp.com](mailto:steven.singh@exeloncorp.com)

Dick Webster  
 Vice President Regulatory Policy & Strategy  
 (215) 841-5777  
[dick.webster@peco-energy.com](mailto:dick.webster@peco-energy.com)

**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 |
|-------------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|---------------------------------|--|
| BLUE_GRASS_130    | 1,093.               | 3.69                           | 48                             | 178                            | 0.17                           | 4,031.                                 | 3,234                           | 185.   |
| BLUE_GRASS_144    | 1,126.               | 2.77                           | 108                            | 298                            | 2.11                           | 3,121.                                 | 5,597                           | 2,374.   |
| BLUE_GRASS_160    | 30.                  | 1.07                           | 61                             | 65                             | 0.00                           | 32.                                    | 33                              | 0.   |
| BRADFORD_341      | 1,198.               | 2.56                           | 180                            | 460                            | 3.86                           | 3,065.                                 | 9,194                           | 4,625.   |
| BRADFORD_342      | 2,227.               | 2.95                           | 222                            | 655                            | 1.88                           | 6,569.                                 | 24,321                          | 4,191.   |
| BRADFORD_344      | 2,594.               | 2.95                           | 163                            | 479                            | 5.39                           | 7,646.                                 | 20,721                          | 13,976.  |
| BRADFORD_346      | 2,306.               | 1.87                           | 141                            | 264                            | 4.97                           | 4,322.                                 | 10,133                          | 11,463.  |
| BRADFORD_351      | 866.                 | 2.07                           | 321                            | 664                            | 0.69                           | 1,793.                                 | 9,580                           | 601.   |
| BROOMALL_136      | 1,091.               | 2.77                           | 127                            | 351                            | 2.18                           | 3,025.                                 | 6,391                           | 2,383.   |
| BRYN_MAWR_134     | 431.                 | 4.71                           | 136                            | 642                            | 0.75                           | 2,032.                                 | 4,613                           | 323.   |
| BUCKINGHAM_352    | 2,693.               | 1.42                           | 213                            | 302                            | 2.74                           | 3,812.                                 | 13,535                          | 7,388.   |
| BUCKINGHAM_361    | 794.                 | 2.52                           | 98                             | 247                            | 0.80                           | 2,002.                                 | 3,262                           | 638.   |
| BUCKINGHAM_362    | 3,388.               | 1.80                           | 125                            | 225                            | 2.84                           | 6,094.                                 | 12,696                          | 9,630.   |
| BYBERRY_137       | 1,816.               | 2.26                           | 81                             | 183                            | 0.05                           | 4,101.                                 | 5,541                           | 82.  |
| BYBERRY_144       | 1,085.               | 1.49                           | 186                            | 277                            | 0.00                           | 1,619.                                 | 5,017                           | 0.   |
| BYBERRY_147       | 1,035.               | 0.77                           | 130                            | 100                            | 0.59                           | 796.                                   | 1,726                           | 612.   |
| BYBERRY_163       | 1,581.               | 1.18                           | 43                             | 51                             | 0.00                           | 1,872.                                 | 1,342                           | 0.   |
| BYBERRY_173       | 1,618.               | 1.81                           | 90                             | 164                            | 0.32                           | 2,935.                                 | 4,414                           | 524.   |
| BYBERRY_184       | 1,085.               | 4.48                           | 76                             | 342                            | 4.49                           | 4,862.                                 | 6,183                           | 4,869.   |
| CALLOWHILL_138    | 1,354.               | 3.84                           | 72                             | 276                            | 1.20                           | 5,203.                                 | 6,238                           | 1,630.   |
| CEDARBROOK_134    | 2,138.               | 0.87                           | 137                            | 119                            | 1.37                           | 1,855.                                 | 4,244                           | 2,930.   |
| CHALFONT_001      | 530.                 | 1.29                           | 43                             | 56                             | 3.02                           | 686.                                   | 496                             | 1,599.   |
| CLAY_341          | 789.                 | 3.97                           | 159                            | 631                            | 1.93                           | 3,134.                                 | 8,304                           | 1,524.   |
| CLAY_343          | 1,048.               | 5.52                           | 114                            | 628                            | 10.45                          | 5,782.                                 | 10,963                          | 10,954.  |
| COUNTY_LINE_004   | 572.                 | 3.06                           | 122                            | 375                            | 0.00                           | 1,752.                                 | 3,574                           | 0.   |
| CRESCENTVILLE_135 | 1,910.               | 2.83                           | 40                             | 112                            | 1.27                           | 5,408.                                 | 3,581                           | 2,417.   |
| CRESCENTVILLE_136 | 2,612.               | 2.07                           | 25                             | 52                             | 0.00                           | 5,400.                                 | 2,271                           | 0.   |
| CROYDON_142       | 610.                 | 6.09                           | 73                             | 446                            | 1.04                           | 3,716.                                 | 4,533                           | 634.   |
| CRUSHER_000       | 755.                 | 4.88                           | 658                            | 3,216                          | 2.19                           | 3,687.                                 | 40,463                          | 1,656.   |
| DALEVILLE_341     | 1,572.               | 2.60                           | 278                            | 722                            | 3.62                           | 4,085.                                 | 18,929                          | 5,694.   |
| DANBORO_000       | 574.                 | 5.08                           | 103                            | 524                            | 4.03                           | 2,914.                                 | 5,009                           | 2,311.   |
| DILTOWN_005       | 347.                 | 3.84                           | 143                            | 551                            | 1.02                           | 1,332.                                 | 3,184                           | 355.   |
| DURHAM_003        | 563.                 | 1.32                           | 215                            | 285                            | 1.01                           | 744.                                   | 2,671                           | 567.   |
| EAGLE_352         | 2,018.               | 1.21                           | 131                            | 158                            | 3.81                           | 2,443.                                 | 5,322                           | 7,684.   |
| EDDINGTON_138     | 761.                 | 4.04                           | 46                             | 184                            | 0.00                           | 3,071.                                 | 2,334                           | 3.   |
| EDGELY_003        | 452.                 | 3.29                           | 121                            | 398                            | 0.00                           | 1,489.                                 | 2,998                           | 0.   |
| ELKINS_PARK_004   | 511.                 | 1.64                           | 116                            | 190                            | 0.25                           | 837.                                   | 1,615                           | 128.   |

| 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 |
|-----------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|---------------------------------|--|
| FLINT_141       | 831.                 | 2.15                           | 139                            | 299                            | 0.90                           | 1,785.                                 | 4,137                           | 750.   |
| FLINT_146       | 1,116.               | 1.97                           | 118                            | 232                            | 0.69                           | 2,197.                                 | 4,313                           | 767.   |
| FOULK_143       | 1,136.               | 2.19                           | 197                            | 432                            | 0.49                           | 2,488.                                 | 8,187                           | 558.   |
| GLADWYNE_001    | 183.                 | 4.02                           | 290                            | 1,167                          | 8.32                           | 736.                                   | 3,558                           | 1,522.   |
| GLADWYNE_132    | 516.                 | 3.23                           | 319                            | 1,032                          | 5.04                           | 1,669.                                 | 8,879                           | 2,603.   |
| HANOVER_001     | 1,045.               | 1.77                           | 247                            | 438                            | 0.02                           | 1,853.                                 | 7,629                           | 23.  |
| HARMONY_005     | 1,055.               | 3.44                           | 102                            | 350                            | 0.08                           | 3,632.                                 | 6,157                           | 80.  |
| HAYES_000       | 371.                 | 2.17                           | 453                            | 983                            | 2.37                           | 804.                                   | 6,076                           | 881.   |
| HEATON_136      | 1,418.               | 0.38                           | 290                            | 110                            | 0.00                           | 537.                                   | 2,599                           | 0.   |
| HIGHLAND_000    | 316.                 | 7.37                           | 144                            | 1,064                          | 1.00                           | 2,328.                                 | 5,605                           | 317.   |
| HOLMESBURG_139  | 1,048.               | 0.43                           | 46                             | 20                             | 0.00                           | 455.                                   | 346                             | 0.   |
| JARRETT_141     | 997.                 | 0.62                           | 146                            | 91                             | 0.36                           | 621.                                   | 1,509                           | 357.   |
| JENKINTOWN_134  | 1,916.               | 2.51                           | 87                             | 218                            | 2.26                           | 4,806.                                 | 6,963                           | 4,329.   |
| JENKINTOWN_137  | 1,616.               | 0.55                           | 229                            | 125                            | 1.61                           | 885.                                   | 3,374                           | 2,603.   |
| JENKINTOWN_142  | 1,908.               | 1.45                           | 92                             | 133                            | 0.62                           | 2,769.                                 | 4,227                           | 1,188.   |
| JENKINTOWN_144  | 1,854.               | 2.04                           | 58                             | 118                            | 0.42                           | 3,779.                                 | 3,646                           | 774.   |
| LENAPE_000      | 437.                 | 2.08                           | 229                            | 477                            | 2.09                           | 909.                                   | 3,476                           | 914.   |
| LINE_131_00WO   | 543.                 | 0.98                           | 106                            | 104                            | 0.02                           | 534.                                   | 943                             | 12.  |
| LINE_136_00     | 1,351.               | 2.50                           | 163                            | 407                            | 0.70                           | 3,379.                                 | 9,162                           | 947.   |
| LINE_189_00EM   | 970.                 | 4.01                           | 77                             | 310                            | 0.10                           | 3,885.                                 | 5,013                           | 101.   |
| LINE_2200CR     | 750.                 | 2.11                           | 196                            | 414                            | 0.59                           | 1,585.                                 | 5,180                           | 442.   |
| LINE_2507       | 1,969.               | 2.39                           | 32                             | 77                             | 0.05                           | 4,701.                                 | 2,530                           | 106.   |
| LINE_3307NT     | 2,164.               | 3.59                           | 129                            | 464                            | 1.97                           | 7,758.                                 | 16,730                          | 4,259.   |
| LINE_534        | 1,159.               | 2.69                           | 26                             | 70                             | 0.00                           | 3,117.                                 | 1,353                           | 0.   |
| LINE_7200WH     | 222.                 | 0.98                           | 335                            | 329                            | 0.00                           | 218.                                   | 1,216                           | 0.   |
| LINE_7500PB     | 2,964.               | 2.11                           | 172                            | 362                            | 1.20                           | 6,250.                                 | 17,869                          | 3,561.   |
| LINTON_352      | 3,429.               | 0.55                           | 186                            | 103                            | 1.06                           | 1,900.                                 | 5,887                           | 3,630.   |
| LLANERCH_146    | 1,797.               | 1.49                           | 105                            | 157                            | 1.94                           | 2,681.                                 | 4,708                           | 3,481.   |
| LLANERCH_163    | 1,474.               | 2.18                           | 180                            | 393                            | 0.02                           | 3,212.                                 | 9,643                           | 27.  |
| LLANERCH_166    | 1,539.               | 3.10                           | 98                             | 305                            | 0.00                           | 4,764.                                 | 7,817                           | 2.   |
| MASTER_131      | 3,367.               | 1.42                           | 35                             | 50                             | 1.31                           | 4,795.                                 | 2,811                           | 4,418.   |
| MATSON_131      | 765.                 | 2.32                           | 173                            | 402                            | 2.76                           | 1,774.                                 | 5,127                           | 2,114.   |
| MATTHEWS_000    | 376.                 | 2.47                           | 130                            | 321                            | 0.00                           | 929.                                   | 2,014                           | 0.   |
| MEDIA_011       | 576.                 | 4.08                           | 115                            | 469                            | 4.97                           | 2,351.                                 | 4,499                           | 2,863.   |
| MIDDLETOWN_133  | 1,440.               | 3.77                           | 96                             | 361                            | 1.62                           | 5,424.                                 | 8,666                           | 2,329.   |
| MONROE_002      | 677.                 | 6.19                           | 148                            | 918                            | 0.52                           | 4,190.                                 | 10,362                          | 353.   |
| MORRISVILLE_011 | 674.                 | 3.26                           | 373                            | 1,217                          | 3.06                           | 2,197.                                 | 13,665                          | 2,061.   |
| MOSER_013       | 990.                 | 3.04                           | 88                             | 269                            | 1.14                           | 3,010.                                 | 4,433                           | 1,133.   |
| NEWLINVILLE_344 | 2,643.               | 3.00                           | 120                            | 359                            | 3.86                           | 7,926.                                 | 15,833                          | 10,199.  |

| 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 |
|-------------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|---------------------------------|--|
| NEWLINVILLE_353   | 2,860.               | 2.93                           | 188                            | 550                            | 3.26                           | 8,392.                                 | 26,226                          | 9,312.   |
| NEWLINVILLE_362   | 2,532.               | 2.49                           | 139                            | 346                            | 2.21                           | 6,306.                                 | 14,608                          | 5,605.   |
| NEWTOWN_SQUAR_136 | 1,368.               | 6.32                           | 86                             | 544                            | 1.98                           | 8,646.                                 | 12,398                          | 2,704.   |
| NOLAN_004         | 863.                 | 2.58                           | 152                            | 392                            | 3.34                           | 2,225.                                 | 5,634                           | 2,883.   |
| NORTH_WALES_354   | 1,204.               | 2.58                           | 149                            | 383                            | 1.00                           | 3,101.                                 | 7,679                           | 1,203.   |
| NORTH_WALES_361   | 1,875.               | 0.30                           | 250                            | 76                             | 0.13                           | 570.                                   | 2,373                           | 242.   |
| NORTH_WALES_362   | 2,004.               | 1.24                           | 120                            | 148                            | 1.29                           | 2,478.                                 | 4,947                           | 2,581.   |
| NORTH_WALES_363   | 3,502.               | 2.30                           | 169                            | 388                            | 1.18                           | 8,047.                                 | 22,635                          | 4,147.   |
| NOTTINGHAM_011    | 252.                 | 2.52                           | 360                            | 907                            | 0.00                           | 636.                                   | 3,811                           | 0.   |
| OAKMONT_002       | 616.                 | 1.99                           | 131                            | 262                            | 2.02                           | 1,228.                                 | 2,690                           | 1,242.   |
| PAGE_000          | 866.                 | 3.02                           | 206                            | 623                            | 1.00                           | 2,618.                                 | 8,994                           | 866.   |
| PARRISH_136       | 2,951.               | 2.44                           | 42                             | 101                            | 1.45                           | 7,200.                                 | 4,989                           | 4,288.   |
| PERKIOMEN_354     | 2,775.               | 2.09                           | 56                             | 118                            | 0.57                           | 5,810.                                 | 5,446                           | 1,583.   |
| PERKIOMEN_363     | 2,609.               | 1.82                           | 964                            | 1,751                          | 1.04                           | 4,740.                                 | 76,140                          | 2,709.   |
| PLANEBROOK_344    | 1,859.               | 3.98                           | 202                            | 803                            | 1.88                           | 7,404.                                 | 24,887                          | 3,499.   |
| PLYMOUTH_135      | 588.                 | 3.68                           | 179                            | 658                            | 1.80                           | 2,162.                                 | 6,451                           | 1,057.   |
| PLYMOUTH_160      | 783.                 | 1.64                           | 139                            | 228                            | 0.59                           | 1,285.                                 | 2,974                           | 461.   |
| PLYMOUTH_172      | 2,042.               | 1.14                           | 215                            | 246                            | 0.00                           | 2,327.                                 | 8,356                           | 0.   |
| PULASKI_134       | 2,873.               | 2.08                           | 51                             | 106                            | 0.75                           | 5,989.                                 | 5,076                           | 2,150.   |
| PULASKI_136       | 1,923.               | 2.95                           | 19                             | 56                             | 1.24                           | 5,665.                                 | 1,800                           | 2,392.   |
| SADSBURY_000      | 613.                 | 2.30                           | 84                             | 192                            | 2.04                           | 1,408.                                 | 1,960                           | 1,252.   |
| SAVILLE_131       | 1,081.               | 2.54                           | 58                             | 149                            | 0.00                           | 2,751.                                 | 2,677                           | 0.   |
| SCHWENKSVILLE_001 | 533.                 | 2.58                           | 323                            | 833                            | 0.20                           | 1,373.                                 | 7,399                           | 107.   |
| SNOWDEN_000       | 574.                 | 1.24                           | 99                             | 122                            | 0.00                           | 709.                                   | 1,164                           | 0.   |
| STARKEY_000       | 381.                 | 1.38                           | 297                            | 410                            | 0.38                           | 526.                                   | 2,605                           | 144.   |
| TACONY_134        | 1,967.               | 1.27                           | 54                             | 69                             | 0.55                           | 2,496.                                 | 2,263                           | 1,075.   |
| TREDFFRIN_131     | 1,273.               | 1.22                           | 98                             | 120                            | 0.76                           | 1,555.                                 | 2,539                           | 972.   |
| TREVOSE_136       | 1,070.               | 5.11                           | 49                             | 253                            | 9.34                           | 5,472.                                 | 4,503                           | 9,995.   |
| TROOPER_002       | 655.                 | 3.58                           | 121                            | 433                            | 2.12                           | 2,344.                                 | 4,725                           | 1,389.   |
| UPPER_DARBY_134   | 1,995.               | 0.93                           | 73                             | 68                             | 0.17                           | 1,855.                                 | 2,248                           | 333.   |
| UPPER_DARBY_141   | 1,384.               | 1.00                           | 71                             | 71                             | 0.00                           | 1,388.                                 | 1,631                           | 0.   |
| WARMINSTER_161    | 1,498.               | 0.23                           | 421                            | 96                             | 0.00                           | 341.                                   | 2,392                           | 0.   |
| WARRINGTON_362    | 2,334.               | 1.51                           | 86                             | 129                            | 1.40                           | 3,513.                                 | 5,019                           | 3,267.   |
| WEST_GROVE_002    | 422.                 | 3.27                           | 280                            | 917                            | 4.02                           | 1,380.                                 | 6,448                           | 1,697.   |
| WESTMORELAND_132  | 1,408.               | 0.43                           | 192                            | 82                             | 0.00                           | 599.                                   | 1,920                           | 0.   |
| WHITEMARSH_133    | 655.                 | 3.15                           | 109                            | 342                            | 0.02                           | 2,062.                                 | 3,736                           | 12.  |
| WHITEMARSH_161    | 1,217.               | 0.28                           | 92                             | 26                             | 0.02                           | 340.                                   | 522                             | 30.  |
| WHITEMARSH_163    | 331.                 | 2.75                           | 112                            | 308                            | 1.64                           | 910.                                   | 1,701                           | 544.   |

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 06/30/19

### **BLUE\_GRASS\_130**

*Philadelphia County*

#### **Completed:**

- Inspect circuit visually and with thermographic camera
- Complete corrective reliability work orders
- Install animal protection
- Upgrade secondary wire
- Upgrade fusing

#### **Planned:**

- Install cutout-mounted recloser

### **BLUE\_GRASS\_144**

*Philadelphia County*

#### **Completed:**

- Complete corrective reliability work orders
- Install animal protection

#### **Planned:**

- Inspect circuit visually and with thermographic camera

### **BLUE\_GRASS\_160**

*Philadelphia County*

#### **Completed:**

- Replace underground cable
- Remedial efforts completed

### **BRADFORD\_341**

*Chester County*

#### **Completed:**

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

### **BRADFORD\_342**

*Chester County*

#### **Completed:**

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

### **BRADFORD\_344**

*Chester County*

#### **Completed:**

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

#### **Planned:**

- Complete corrective reliability work orders
- Upgrade fusing

**BRADFORD\_346***Chester County***Completed:**

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

**BRADFORD\_351***Chester County***Completed:**

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

**BROOMALL\_136***Delaware County***Completed:**

Perform regularly scheduled tree clearance  
Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**BRYN\_MAWR\_134***Delaware County***Completed:**

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

**Planned:**

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

**BUCKINGHAM\_352***Bucks County***Completed:**

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

**BUCKINGHAM\_361***Bucks County***Completed:**

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

**BUCKINGHAM\_362***Bucks County***Completed:**

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

Remedial efforts completed

**BYBERRY\_137**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Complete corrective reliability work orders

**BYBERRY\_144**

*Montgomery County*

**Completed:**

Inspect circuit visually and with thermographic camera

Upgrade secondary wire

Remedial efforts completed

**BYBERRY\_147**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

Reconfigure circuit

**Planned:**

Install cutout-mounted recloser

**BYBERRY\_163**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera

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

Complete corrective reliability work orders

Install animal protection

**Planned:**

Install cutout-mounted recloser

**BYBERRY\_173**

*Philadelphia County*

**Completed:**

Inspect circuit visually and with thermographic camera

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

Complete corrective reliability work orders

Install animal protection

Replace transformer

Upgrade secondary wire

Remedial efforts completed

**BYBERRY\_184**

*Bucks County*

**Completed:**

Inspect circuit visually and with thermographic camera

Complete corrective reliability work orders

**Planned:**

Upgrade secondary wire

**CALLOWHILL\_138***Philadelphia County***Completed:**

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

**Planned:**

- Complete corrective reliability work orders
- Install animal protection

**CEDARBROOK\_134***Philadelphia County***Completed:**

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

**CHALFONT\_001***Bucks County***Completed:**

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

**CLAY\_341***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

**CLAY\_343***Chester County***Completed:**

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

**COUNTY\_LINE\_004***Montgomery County***Completed:**

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

**Planned:**

- Upgrade secondary wire

**CRESCENTVILLE\_135***Philadelphia County***Completed:**

- Complete corrective reliability work orders
- Install animal protection

**Planned:**

- Inspect circuit visually and with thermographic camera

**CRESCENTVILLE\_136***Philadelphia County***Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

**CROYDON\_142***Bucks County***Completed:**

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

**CRUSHER\_000***Montgomery County***Completed:**

- Perform regularly scheduled tree clearance
- Complete corrective reliability work orders
- Replace transformer

**Planned:**

- Inspect circuit visually and with thermographic camera

**DALEVILLE\_341***Chester County***Completed:**

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

**DANBORO\_000***Bucks County***Completed:**

- Perform regularly scheduled tree clearance
- Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

- Inspect circuit visually and with thermographic camera

**DILTOWN\_005***Chester County***Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**DURHAM\_003***Bucks County***Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Perform regularly scheduled tree clearance  
Upgrade secondary wire

**EAGLE\_352***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

**EDDINGTON\_138***Bucks County***Completed:**

Inspect circuit visually and with thermographic camera  
Remedial efforts completed

**EDGELY\_003***Bucks County***Completed:**

Inspect circuit visually and with thermographic camera  
Upgrade secondary wire

**Planned:**

Perform regularly scheduled tree clearance

**ELKINS\_PARK\_004***Montgomery County***Completed:**

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

**Planned:**

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

**FLINT\_141***Montgomery County***Completed:**

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

**Planned:**

Install tree-resistant wire  
Upgrade secondary wire

**FLINT\_146***Montgomery County***Completed:**

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

**Planned:**

- Install tree-resistant wire

**FOULK\_143***Delaware County***Completed:**

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

**Planned:**

- Complete corrective reliability work orders

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

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

**Planned:**

- Inspect circuit visually and with thermographic camera

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

- Perform regularly scheduled tree clearance
- Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

- Inspect circuit visually and with thermographic camera

**HANOVER\_001***Montgomery County***Completed:**

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

**Planned:**

- Install tree-resistant wire

**HARMONY\_005***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

**HAYES\_000***Chester County***Completed:**

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

Remedial efforts completed

### **HEATON\_136**

*Montgomery County*

**Completed:**

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

**Planned:**

- Complete corrective reliability work orders
- Install tree-resistant wire
- Extend circuit and install switches

### **HIGHLAND\_000**

*Chester County*

**Completed:**

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

**Planned:**

- Inspect circuit visually and with thermographic camera

### **HOLMESBURG\_139**

*Philadelphia County*

**Completed:**

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

### **JARRETT\_141**

*Montgomery County*

**Completed:**

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

### **JENKINTOWN\_134**

*Montgomery County*

**Completed:**

- Inspect circuit visually and with thermographic camera

**Planned:**

- Upgrade secondary wire

### **JENKINTOWN\_137**

*Montgomery County*

**Completed:**

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

**Planned:**

- Upgrade secondary wire

**JENKINTOWN\_142***Philadelphia County***Completed:**

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

**Planned:**

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

**JENKINTOWN\_144***Montgomery County***Completed:**

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

**Planned:**

- Complete corrective reliability work orders
- Upgrade secondary wire

**LENAPE\_000***Chester County***Completed:**

- Inspect circuit visually and with thermographic camera

**Planned:**

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

**LINE\_131\_00WO***Bucks County***Completed:**

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

**LINE\_136\_00***Bucks County***Completed:**

- Complete corrective reliability work orders

**Planned:**

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

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

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

**Planned:**

- Perform regularly scheduled tree clearance

**LINE\_2200CR***Chester County***Completed:**

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

**LINE\_2507***Delaware County***Completed:**

Inspect circuit visually and with thermographic camera  
Replace transformer  
Remedial efforts completed

**LINE\_3307NT***Chester County***Completed:**

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

**Planned:**

Complete corrective reliability work orders  
Install recloser

**LINE\_534***Philadelphia County***Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Complete corrective reliability work orders

**LINE\_7200WH***Montgomery County***Completed:**

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

**Planned:**

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

**LINE\_7500PB***Chester County***Completed:**

Inspect circuit visually and with thermographic camera  
Replace recloser  
Remedial efforts completed

**LINTON\_352***Bucks County***Completed:**

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

**LLANERCH\_146***Delaware County***Completed:**

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

**LLANERCH\_163***Delaware County***Completed:**

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

**Planned:**

- Install tree-resistant wire

**LLANERCH\_166***Delaware County***Completed:**

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

**MASTER\_131***Philadelphia County***Completed:**

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

**MATSON\_131***Delaware County***Completed:**

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

**MATTHEWS\_000***Chester County***Completed:**

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

**MEDIA\_011***Delaware County***Completed:**

- Perform regularly scheduled tree clearance

**Planned:**

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

**MIDDLETOWN\_133***Delaware County***Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**MONROE\_002***Delaware County***Completed:**

Perform regularly scheduled tree clearance  
Install tree-resistant wire

**Planned:**

Inspect circuit visually and with thermographic camera

**MORRISVILLE\_011***Bucks County***Completed:**

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

**Planned:**

Complete corrective reliability work orders

**MOSER\_013***Chester County***Completed:**

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

**NEWLINVILLE\_344***Chester County***Completed:**

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

**NEWLINVILLE\_353***Chester County***Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Complete corrective reliability work orders  
Install tree-resistant wire

**NEWLINVILLE\_362***Chester County***Completed:**

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

**Planned:**

Install recloser

**NEWTOWN\_SQUAR\_136***Delaware County***Completed:**

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**NOLAN\_004***Bucks County***Completed:**

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

**Planned:**

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

**NORTH\_WALES\_354***Montgomery County***Completed:**

Complete corrective reliability work orders

**Planned:**

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

**NORTH\_WALES\_361***Montgomery County***Completed:**

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

**Planned:**

Inspect circuit visually and with thermographic camera

**NORTH\_WALES\_362***Montgomery County***Completed:**

Complete corrective reliability work orders  
Replace transformer

**Planned:**

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

**NORTH\_WALES\_363***Montgomery County***Completed:**

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

**Planned:**

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

**NOTTINGHAM\_011***Chester County***Completed:**

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

**OAKMONT\_002***Delaware County***Completed:**

Perform regularly scheduled tree clearance  
Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

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

**PAGE\_000***Chester County***Completed:**

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

**PARRISH\_136***Philadelphia County***Completed:**

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

**Planned:**

Complete corrective reliability work orders

**PERKIOMEN\_354***Montgomery County***Completed:**

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

**PERKIOMEN\_363***Montgomery County***Completed:**

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

**PLANEBROOK\_344***Chester County***Completed:**

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

**PLYMOUTH\_135***Montgomery County***Completed:**

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

**Planned:**

- Upgrade secondary wire

**PLYMOUTH\_160***Montgomery County***Completed:**

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

**Planned:**

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

**PLYMOUTH\_172***Montgomery County***Completed:**

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

**PULASKI\_134***Philadelphia County***Completed:**

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

**Planned:**

- Complete corrective reliability work orders
- Upgrade fusing
- Install animal protection
- Upgrade primary wire

**PULASKI\_136***Philadelphia County***Completed:**

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

**Planned:**

- Complete corrective reliability work orders

**SADSBURY\_000***Chester County***Completed:**

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

**Planned:**

- Upgrade secondary wire

**SAVILLE\_131***Delaware County***Completed:**

- Inspect circuit visually and with thermographic camera
- Install animal protection

**Planned:**

- Complete corrective reliability work orders
- Install cutout-mounted recloser

**SCHWENKSVILLE\_001***Montgomery County***Completed:**

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

**Planned:**

- Install tree-resistant wire

**SNOWDEN\_000***Chester County***Completed:**

- Inspect circuit visually and with thermographic camera

**Planned:**

- Install recloser
- Replace poles and cross arms

**STARKEY\_000***Bucks County***Completed:**

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

**TACONY\_134***Philadelphia County***Completed:**

- Inspect circuit visually and with thermographic camera
- Complete corrective reliability work orders
- Replace transformer
- Upgrade fusing

**Planned:**

- Complete corrective reliability work orders
- Replace transformer

**TREDYFFRIN\_131***Chester County***Completed:**

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

**Planned:**

- Complete corrective reliability work orders

**TREVOSE\_136***Bucks County***Completed:**

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

**Planned:**

- Upgrade secondary wire

**TROOPER\_002***Montgomery County***Completed:**

- Inspect circuit visually and with thermographic camera
- Perform regularly scheduled tree clearance
- Replace cable
- Upgrade secondary wire

**Planned:**

- Complete corrective reliability work orders
- Install tree-resistant wire

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

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

**Planned:**

- Install recloser

**UPPER\_DARBY\_141***Delaware County***Completed:**

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

**Planned:**

Install recloser

**WARMINSTER\_161***Bucks County***Completed:**

Inspect circuit visually and with thermographic camera  
Inspect selected areas of circuit for vegetation issues and correct as needed  
Complete corrective reliability work orders  
Upgrade fusing  
Install animal protection  
Replace transformer  
Upgrade secondary wire  
Remedial efforts completed

**WARRINGTON\_362***Bucks County***Completed:**

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

**Planned:**

Complete corrective reliability work orders

**WESTMORELAND\_132***Philadelphia County***Completed:**

Inspect circuit visually and with thermographic camera  
Complete corrective reliability work orders  
Install animal protection  
Replace transformer

**Planned:**

Complete corrective reliability work orders  
Upgrade secondary wire

**WEST\_GROVE\_002***Chester County***Completed:**

Inspect circuit visually and with thermographic camera

**Planned:**

Complete corrective reliability work orders

**WHITEMARSH\_133***Montgomery County***Planned:**

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

**WHITEMARSH\_161***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

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

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

**Planned:**

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

## **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).

