



An Exelon Company

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May 2, 2016

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

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

Dear Secretary Chiavetta:

Enclosed is PECO's 2016 Quarterly Reliability Report for the period ending March 31, 2016 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,

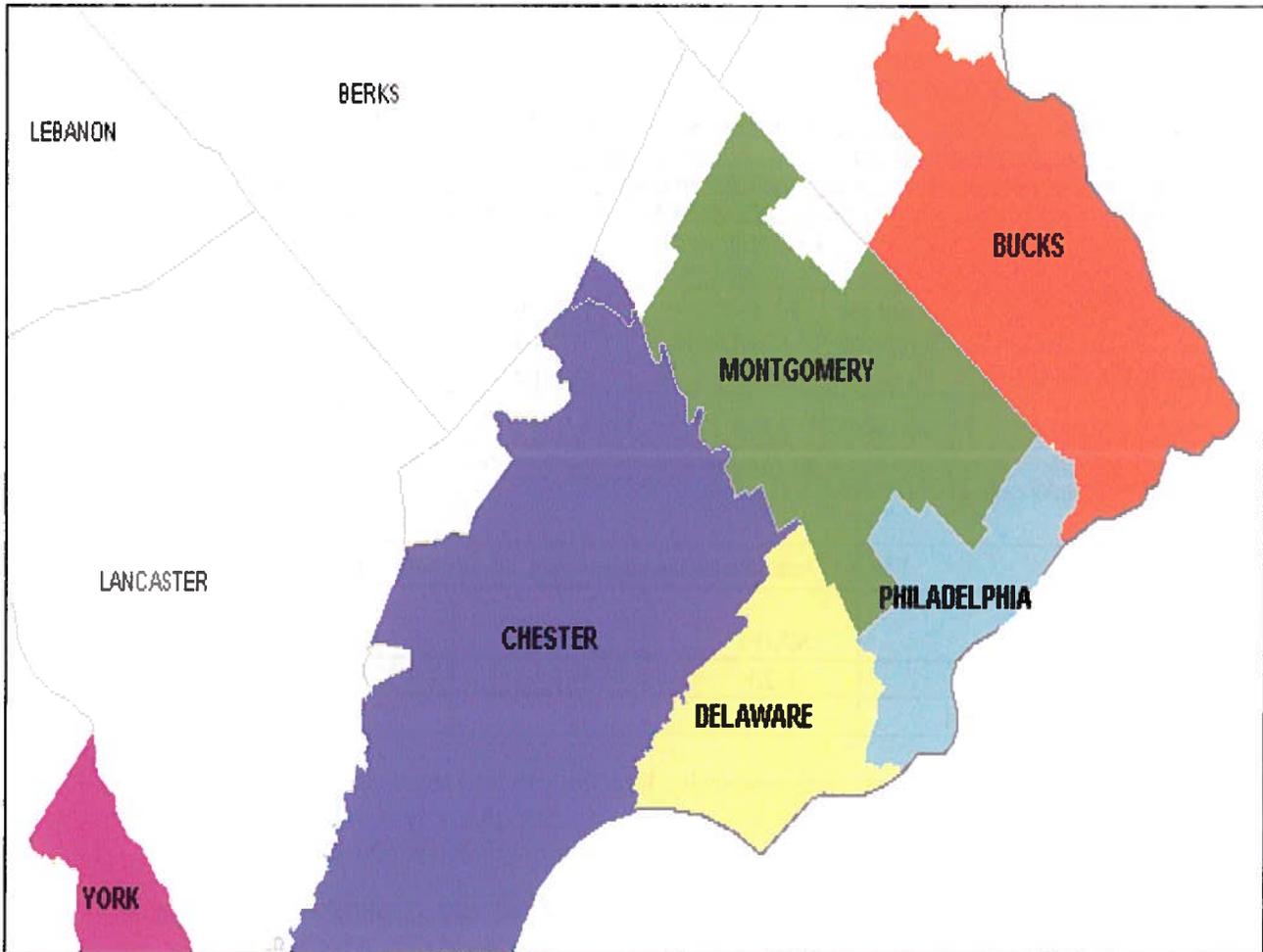
A handwritten signature in black ink, appearing to read "R. Webster", with a long horizontal flourish extending to the right.

Enclosure

MPB/mec



# PECO Energy Company Quarterly Reliability Report For Period Ending March 31, 2016



**May 1, 2016**

**PECO Energy ("PECO")**

**Quarterly Reliability Report for the Period Ending March 31, 2016 filed with the Pennsylvania Public Utility Commission.**

Submitted per Rulemaking Re: Amending Electric Service, Docket No. L-00030161 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 first quarter of 2016.

**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<br>*Customers | Sustained<br>Customer<br>Interruptions | Sustained<br>Customer<br>Hours | Momentary<br>Customer<br>Interruptions | Sustained<br>Customer<br>Minutes | SAIFI | CAIDI | SAIDI | MAIFI |
|--------------------|--|--------------------------------|--|----------------------------------|-------|-------|-------|-------|
| 1,683,986          | 1,290,081                              | 1,905,689                      | 748,722                                | 114,341,338                      | 0.77  | 89    | 68    | 0.44  |

\*Customer Count reflects a reduction due to the removal of inactive customer accounts  
Data reflects 12 months ending 03/31/2016.

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

SAIFI, CAIDI and SAIDI are below their respective benchmarks and standards established on May 7, 2004. In addition, 12-month CAIDI is at its lowest level since quarterly reliability reports to the Commission began in 2003. No benchmark or standard was established for MAIFI.

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

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

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

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

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

| 12 Months Ending March 31, 2016 |                 |                      |                        |                             |                  |
|---------------------------------|-----------------|----------------------|------------------------|-----------------------------|------------------|
| Cause                           | Service Outages | % of Service Outages | Customer Interruptions | % of Customer Interruptions | Customer Minutes |
| Animal                          | 1,040           | 9.50%                | 32,346                 | 2.50%                       | 2,065,202        |
| Contact/Dig-In                  | 116             | 1.10%                | 21,359                 | 1.70%                       | 1,292,724        |
| Equipment Failure               | 4,663           | 42.70%               | 530,846                | 41.10%                      | 49,704,138       |
| Lightning                       | 355             | 3.30%                | 49,833                 | 3.90%                       | 7,440,856        |
| Other                           | 1,234           | 11.30%               | 154,440                | 12.00%                      | 7,359,375        |
| T&S                             | 9               | 0.10%                | 34,292                 | 2.70%                       | 1,589,618        |
| Unknown                         | 375             | 3.40%                | 34,399                 | 2.70%                       | 2,225,818        |
| Vegetation-Broken/Uprooted      | 1,932           | 17.70%               | 298,240                | 23.10%                      | 30,307,662       |
| Vegetation-Ingrowth             | 800             | 7.30%                | 59,170                 | 4.60%                       | 6,900,902        |
| Vehicles                        | 386             | 3.50%                | 75,156                 | 5.80%                       | 5,455,042        |

\*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. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (23.1% of all customer interruptions), as opposed to ingrowth (4.6% of all outage customer interruptions). PECO has continued to supplement its regularly scheduled vegetation management cycle with mid-cycle and 34 kV pruning programs and a hazard tree removal program.

**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 3/31/2016   |                               |          |           |          |                    |
|--|-------------------------------|----------|-----------|----------|--------------------|
|  | 1 <sup>st</sup> Quarter Tasks |          | YTD Tasks |          | 2016 Total Planned |
|  | Planned                       | Complete | Planned   | Complete |                    |
| Recloser Inspections<br>(Number of reclosers inspected)  | 51                            | 113      | 51        | 113      | 199                |
| Circuit Patrol & Thermography<br>(Number of circuits patrolled)  | 610                           | 610      | 610       | 610      | 966                |
| Pole Inspections<br>(Number of poles visually inspected)   | 30,790                        | 37,637   | 30,790    | 37,637   | 32,763             |
| Padmount Transformers<br>(Number of transformers visually inspected)   | 2,020                         | 3,785    | 2,020     | 3,785    | 9,733              |
| Below Ground Transformers<br>(Number of transformers visually inspected)   | 486                           | 1,003    | 486       | 1,003    | 1,737              |
| Substations<br>(Number of substations inspections performed.(e.g. visual inspection, reading of currents, voltages, temperature etc) for a variety of substation components)             | 330                           | 344      | 330       | 344      | 1,320              |
| 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) | 767                           | 824      | 767       | 824      | 3,070              |

| Vegetation Management Preventive Maintenance Program – status as of 3/31/16 |                               |          |           |          |                    |
|---|-------------------------------|----------|-----------|----------|--------------------|
|   | 1 <sup>st</sup> Quarter Miles |          | YTD Miles |          | 2016 Total Planned |
|   | Planned                       | Complete | Planned   | Complete |                    |
| Distribution Lift and Manual Trimming                                       | 558                           | 755      | 558       | 755      | 2,708              |
| Transmission Trimming and Removals  | 37                            | 41       | 37        | 41       | 160                |

**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 1 <sup>st</sup> Quarter | Actual 1 <sup>st</sup> Quarter | Budgeted Year-to-Date | Actual Year-to-Date |
|--------------------------|----------------------------------|--------------------------------|-----------------------|---------------------|
| New Business Connections | \$0.2                            | \$0.3                          | \$0.2                 | \$0.3               |
| Capacity Expansion       | \$0.4                            | \$0.7                          | \$0.4                 | \$0.7               |
| System Performance       | \$13.2                           | \$10.5                         | \$13.2                | \$10.5              |
| Facility Relocation      | \$0.2                            | \$0.3                          | \$0.2                 | \$0.3               |
| Maintenance              | \$48.0                           | \$47.9                         | \$48.0                | \$47.9              |
| Total                    | \$62.0                           | \$59.7                         | \$62.0                | \$59.7              |

**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 1 <sup>st</sup> Quarter | Actual 1 <sup>st</sup> Quarter | Budgeted Year-to-Date | Actual Year-to-Date |
|--------------------------|----------------------------------|--------------------------------|-----------------------|---------------------|
| New Business Connections | \$13.3                           | \$12.9                         | \$13.3                | \$12.9              |
| Capacity Expansion       | \$24.2                           | \$23.3                         | \$24.2                | \$23.3              |
| System Performance       | \$22.0                           | \$24.1                         | \$22.0                | \$24.1              |
| Facility Relocation      | \$2.3                            | \$1.6                          | \$2.3                 | \$1.6               |
| Maintenance              | \$25.0                           | \$23.3                         | \$25.0                | \$23.3              |
| Total                    | \$86.7                           | \$85.1                         | \$86.7                | \$85.1              |

**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 March 31, 2016 was as follows:

|  |     |
|--|-----|
| Aerial Lineman                                 | 376 |
| Underground Lineman (Include UTS)              | 62  |
| Transmission / Substation Mechanics, Operators | 102 |
| Energy Technicians                             | 100 |
| Aerial Foreman                                 | 63  |
| Underground Foreman                            | 17  |
| Transmission / Substation Foreman              | 30  |
| ET Foreman                                     | 5   |
|  | 755 |

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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 |
|-----------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|---------------------------------|--|
| AIRY_004        | 670                  | 1.17                           | 93                             | 24                             | 1.48                           | 196                                    | 305                             | 1114   |
| BALA_132        | 1,505                | 2.18                           | 99                             | 215                            | 0.06                           | 3275                                   | 5384                            | 93   |
| BALA_135        | 1,154                | 2.63                           | 65                             | 171                            | 0.52                           | 3033                                   | 3286                            | 605  |
| BELLEVUE_001    | 574                  | 1.25                           | 348                            | 434                            | 3.09                           | 715                                    | 4152                            | 1773   |
| BELLEVUE_002    | 624                  | 0.11                           | 357                            | 41                             | 1.07                           | 19                                     | 113                             | 177  |
| BELLEVUE_134    | 784                  | 3.46                           | 95                             | 329                            | 0.45                           | 2713                                   | 4301                            | 351  |
| BETHAYRES_002   | 487                  | 3.23                           | 42                             | 136                            | 3.13                           | 555                                    | 390                             | 538  |
| BETHAYRES_135   | 743                  | 5.4                            | 29                             | 70                             | 3.15                           | 786                                    | 376                             | 1017   |
| BRADFORD_346    | 2,270                | 1.63                           | 92                             | 150                            | 1.75                           | 3690                                   | 5671                            | 3977   |
| BRYAN_002       | 364                  | 5.66                           | 126                            | 7                              | 0                              | 784                                    | 1220                            | 0  |
| BRYN MAWR_144   | 1,124                | 1.49                           | 107                            | 160                            | 0.5                            | 1680                                   | 1749                            | 537  |
| BUCKINGHAM_346  | 2,624                | 1.06                           | 14                             | 15                             | 0                              | 540                                    | 1015                            | 1  |
| BUCKINGHAM_351  | 1,894                | 3.42                           | 65                             | 171                            | 0.52                           | 3033                                   | 3286                            | 605  |
| BYBERRY_143     | 518                  | 1.07                           | 41                             | 86                             | 0                              | 109                                    | 92                              | 0  |
| CALLOWHILL_131  | 2,112                | 0.05                           | 555                            | 27                             | 0                              | 109                                    | 92                              | 0  |
| CALLOWHILL_142  | 1,371                | 2.87                           | 48                             | 49                             | 0                              | 109                                    | 92                              | 0  |
| CANAL_000       | 171                  | 2.37                           | 50                             | 4                              | 0                              | 109                                    | 92                              | 0  |
| CHICHESTER_134  | 1,894                | 3.42                           | 65                             | 171                            | 0.52                           | 3033                                   | 3286                            | 605  |
| CHURCH_003      | 560                  | 2.14                           | 416                            | 891                            | 0                              | 109                                    | 92                              | 0  |
| CLAY_343        | 1,488                | 2.66                           | 66                             | 176                            | 5.13                           | 2107                                   | 2285                            | 3996   |
| COLWYN_132      | 2,272                | 3.55                           | 81                             | 104                            | 0                              | 52                                     | 237                             | 0  |
| CONCORD_351     | 1,771                | 1.67                           | 102                            | 170                            | 0                              | 29                                     | 268                             | 0  |
| COOPER_371      | 233                  | 4.53                           | 137                            | 190                            | 0                              | 30                                     | 367                             | 0  |
| CROYDON_142     | 586                  | 0.23                           | 83                             | 19                             | 3.03                           | 84                                     | 116                             | 1098   |
| DALEVILLE_342   | 653                  | 3.85                           | 80                             | 310                            | 1.29                           | 2515                                   | 3374                            | 844  |
| DAVISVILLE_004  | 810                  | 0.57                           | 14                             | 15                             | 0                              | 55                                     | 72                              | 1  |
| DAVISVILLE_007  | 643                  | 0                              | 881                            | 3                              | 0                              | 344                                    | 443                             | 0  |
| DURHAM_005      | 519                  | 1.12                           | 218                            | 104                            | 0                              | 2824                                   | 3825                            | 0  |
| DUTTON_001      | 867                  | 1.06                           | 14                             | 15                             | 0                              | 2824                                   | 3825                            | 0  |
| EDDINGTON_138   | 766                  | 0.08                           | 128                            | 10                             | 0                              | 2824                                   | 3825                            | 0  |
| EDGMONT_001     | 605                  | 2.04                           | 54                             | 110                            | 0                              | 409                                    | 931                             | 0  |
| ELMWOOD_135     | 2,891                | 2.21                           | 71                             | 1                              | 0                              | 409                                    | 931                             | 0  |
| EMILIE_010      | 247                  | 2.1                            | 41                             | 86                             | 0                              | 409                                    | 931                             | 0  |
| EMILIE_017      | 522                  | 2.05                           | 60                             | 0                              | 0                              | 33                                     | 70                              | 0  |
| EMILIE_134      | 910                  | 6.86                           | 56                             | 55                             | 0                              | 65                                     | 395                             | 0  |
| FALLS_343       | 531                  | 3.27                           | 175                            | 6                              | 0                              | 19                                     | 2                               | 0  |
| FIN_002         | 418                  | 2.63                           | 65                             | 171                            | 0.52                           | 3033                                   | 3286                            | 605  |
| FLINT_132       | 1,116                | 2.85                           | 71                             | 1                              | 0                              | 549                                    | 450                             | 0  |
| FLINT_143       | 518                  | 1.07                           | 41                             | 86                             | 0                              | 3                                      | 15                              | 0  |
| FLINT_144       | 839                  | 2.47                           | 109                            | 167                            | 1.81                           | 2137                                   | 3866                            | 2504   |
| FLINT_147       | 155                  | 0.37                           | 260                            | 97                             | 0                              | 58                                     | 251                             | 0  |
| GARDENVILLE_000 | 306                  | 3.81                           | 115                            | 11                             | 3.44                           | 37                                     | 32                              | 578  |
| GLADWYNE_133    | 592                  | 3.61                           | 43                             | 154                            | 0                              | 58                                     | 251                             | 0  |
| HARMONY_001     | 344                  | 2.09                           | 265                            | 555                            | 0                              | 58                                     | 251                             | 0  |
| HARMONY_008     | 942                  | 2.43                           | 62                             | 2                              | 0                              | 10                                     | 3                               | 0  |
| HEATON_136      | 1,409                | 2.69                           | 85                             | 97                             | 0.47                           | 50                                     | 334                             | 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 |
|-------------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|---------------------------------|--|
| HEATON 142        | 629                  | 2.15                           | 36                             | 82                             | 1                              | 303                                    | 502                             | 267  |
| HEATON 163        | 917                  | 0.37                           | 146                            | 73                             | 0.12                           | 575                                    | 1396                            | 133  |
| JARRETT 135       | 548                  | 2.43                           | 62                             | 2                              | 0                              | 28                                     | 321                             | 0  |
| JENKINTOWN 130    | 431                  | 0.34                           | 38                             | 47                             | 0.88                           | 753                                    | 1965                            | 2217   |
| JENKINTOWN 135    | 945                  | 1.81                           | 62                             | 2                              | 0                              | 563                                    | 2078                            | 0  |
| JENKINTOWN 138    | 1,855                | 1.14                           | 71                             | 1                              | 0                              | 391                                    | 1072                            | 0  |
| KEYSTONE 037      | 268                  | 5.47                           | 425                            | 2321                           | 0                              | 391                                    | 1072                            | 0  |
| KING 135          | 392                  | 2.97                           | 95                             | 329                            | 0.45                           | 2713                                   | 4301                            | 351  |
| KNOWLTON 001      | 327                  | 3.98                           | 1193                           | 4745                           | 0                              | 99                                     | 425                             | 0  |
| KNOWLTON 003      | 432                  | 2.29                           | 85                             | 97                             | 0.47                           | 50                                     | 334                             | 0  |
| LANE 002          | 738                  | 0.06                           | 126                            | 7                              | 0                              | 167                                    | 196                             | 0  |
| LENAPE 342        | 1,821                | 1.42                           | 87                             | 207                            | 0                              | 167                                    | 196                             | 0  |
| LENAPE 351        | 1,713                | 2.52                           | 82                             | 16                             | 2.08                           | 527                                    | 127                             | 964  |
| LESTER 003        | 606                  | 4.37                           | 48                             | 137                            | 0                              | 3                                      | 5                               | 0  |
| LINE 131 00WO     | 527                  | 2.08                           | 34                             | 70                             | 0                              | 3                                      | 5                               | 0  |
| LINE 2266         |                      |                                |                                |                                |                                |  |                                 |  |
| LINE 2675         | 1,275                | 2.43                           | 62                             | 2                              | 0                              | 2238                                   | 4565                            | 0  |
| LINE 3308NT       | 1,198                | 2.23                           | 95                             | 329                            | 0.45                           | 2713                                   | 4301                            | 351  |
| LINE 3340         | 923                  | 0.57                           | 14                             | 15                             | 0                              | 2238                                   | 4565                            | 0  |
| LINE 3500         | 194                  | 3.35                           | 148                            | 18                             | 0                              | 2238                                   | 4565                            | 0  |
| LINE 7500PB       | 2,943                | 1.89                           | 53                             | 2                              | 0                              | 2238                                   | 4565                            | 0  |
| LLANERCH 161      | 1,200                | 1.93                           | 28                             | 53                             | 0                              | 945                                    | 1605                            | 0  |
| LOMBARD 042       | 168                  | 0.22                           | 52                             | 11                             | 3.44                           | 37                                     | 32                              | 578  |
| MACDADE 133       | 1,460                | 2.43                           | 62                             | 2                              | 0                              | 945                                    | 1605                            | 0  |
| MACDADE 135       | 2,121                | 0.16                           | 154                            | 25                             | 0                              | 239                                    | 1045                            | 0  |
| MACDADE 139       | 2,270                | 1.63                           | 92                             | 150                            | 1.75                           | 3690                                   | 5671                            | 3977   |
| MACDADE 146       | 1,894                | 3.42                           | 65                             | 176                            | 5.13                           | 2107                                   | 2285                            | 3996   |
| MAIN 000          | 48                   | 0.04                           | 69                             | 2                              | 0                              | 18                                     | 21                              | 0  |
| MAINLAND 000      | 363                  | 3.42                           | 65                             | 176                            | 5.13                           | 2107                                   | 2285                            | 3996   |
| MALL 025          | 78                   | 2.23                           | 95                             | 303                            | 2.13                           | 1225                                   | 1936                            | 817  |
| MIDDLETOWN 133    | 1,437                | 1.12                           | 218                            | 104                            | 0                              | 19                                     | 20                              | 0  |
| MIDDLETOWN 143    | 1,587                | 2.75                           | 135                            | 58                             | 0                              | 4                                      | 6                               | 0  |
| MIDDLETOWN 349    | 1,956                | 0.39                           | 347                            | 136                            | 0                              | 459                                    | 104                             | 0  |
| MIDWAY 003        | 688                  | 0.24                           | 72                             | 17                             | 0.04                           | 516                                    | 618                             | 78   |
| NESHAMINY 133     | 934                  | 0.16                           | 154                            | 25                             | 0                              | 1331                                   | 1380                            | 0  |
| NEWLINVILLE 342   | 1,979                | 1.07                           | 41                             | 86                             | 0                              | 1331                                   | 1380                            | 0  |
| NEWLINVILLE 352   | 2,280                | 1.83                           | 59                             | 63                             | 0.72                           | 2778                                   | 2748                            | 1879   |
| NEWTOWN SQUAR 136 | 1,246                | 5.47                           | 425                            | 2321                           | 0                              | 1331                                   | 1380                            | 0  |
| NEWTOWN SQUAR 146 | 1,243                | 1.79                           | 94                             | 123                            | 1.13                           | 1264                                   | 1970                            | 1085   |
| OVERBROOK 131     | 2,969                | 1.3                            | 88                             | 114                            | 1.33                           | 841                                    | 1232                            | 860  |
| PARRISH 139       | 1,196                | 1.79                           | 94                             | 123                            | 1.13                           | 1264                                   | 1970                            | 1085   |
| PERKIOMEN 343     | 2,351                | 2.46                           | 80                             | 310                            | 1.29                           | 2515                                   | 3374                            | 844  |
| PIPER 000         | 370                  | 0.71                           | 48                             | 137                            | 0                              | 284                                    | 993                             | 0  |
| PLYMOUTH 135      | 584                  | 0.05                           | 70                             | 4                              | 0                              | 284                                    | 993                             | 0  |
| PLYMOUTH 164      | 1,352                | 1.93                           | 28                             | 53                             | 0                              | 30                                     | 63                              | 0  |
| PULASKI 014       | 941                  | 2.99                           | 69                             | 8                              | 0                              | 30                                     | 63                              | 0  |
| RADNOR 131        | 30                   | 2.6                            | 167                            | 434                            | 0                              | 386                                    | 1903                            | 0  |
| RICHMOND 144      | 1,658                | 1.33                           | 157                            | 47                             | 0.88                           | 753                                    | 1965                            | 2217   |
| SPRUCE 028        | 379                  | 3.56                           | 33                             | 4                              | 0                              | 154                                    | 128                             | 0  |
| SPRUCE 029        | 434                  | 1.65                           | 76                             | 7                              | 0                              | 154                                    | 128                             | 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 |
|-------------------|----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|---------------------------------|--|
| SUNNYBURN_002     | 290                  | 1.49                           | 107                            | 160                            | 0.5                            | 1680                                   | 1749                            | 537  |
| TABOR_135         | 2,028                | 0.88                           | 108                            | 95                             | 0                              | 154                                    | 128                             | 0  |
| TANGUY_000        | 310                  | 0.26                           | 41                             | 86                             | 0                              | 154                                    | 128                             | 0  |
| TUNA_132          | 755                  | 0.02                           | 554                            | 12                             | 0                              | 341                                    | 873                             | 0  |
| TUNA_142          | 1,328                | 0.05                           | 70                             | 4                              | 0.02                           | 69                                     | 81                              | 21   |
| TUNA_143          | 729                  | 0.23                           | 144                            | 227                            | 1.08                           | 710                                    | 1708                            | 485  |
| UNIVERSITY_012    | 198                  | 0.38                           | 131                            | 49                             | 1.45                           | 594                                    | 1297                            | 2290   |
| UPPER_DARBY_139   | 2,314                | 1.76                           | 33                             | 4                              | 0                              | 0                                      | 0                               | 0  |
| UPPER_MERION_351  | 2,680                | 3.01                           | 74                             | 71                             | 0.61                           | 1229                                   | 1521                            | 781  |
| WARMINSTER_006    | 428                  | 4.48                           | 83                             | 94                             | 0.83                           | 1054                                   | 1455                            | 771  |
| WARRINGTON_341    | 2,247                | 2.23                           | 95                             | 92                             | 0.55                           | 2060                                   | 4314                            | 202  |
| WASHINGTON_SQ_003 | 370                  | 0.71                           | 48                             | 137                            | 0                              | 0                                      | 0                               | 0  |
| WAYNE_142         | 827                  | 5.27                           | 113                            | 93                             | 0.98                           | 1097                                   | 819                             | 519  |
| WAYNE_146         | 547                  | 3.23                           | 102                            | 7                              | 0                              | 159                                    | 680                             | 0  |
| WORTH_000         | 275                  | 1.84                           | 62                             | 116                            | 0.59                           | 1680                                   | 1749                            | 537  |
| WRIGHT_000        | 399                  | 5.54                           | 185                            | 34                             | 0                              | 1828                                   | 3672                            | 0  |
| YEADON_134        | 1,763                | 3.72                           | 99                             | 113                            | 0                              | 1038                                   | 935                             | 0  |

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 03/31/16

### **AIRY\_004**

Montgomery County

#### **Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Performed regularly schedule tree clearance  
Completed reliability corrective workorders  
Installed aerial cable

#### **Planned:**

Remedial efforts completed

### **BALA\_132**

Delaware County

#### **Completed:**

Circuit under analysis

### **BALA\_135**

Delaware County

#### **Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders  
Tested / Inspected recloser operation

#### **Planned:**

Remedial efforts completed

### **BELLEVUE\_001**

Bucks County

#### **Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders  
Tested / Inspected recloser operation

#### **Planned:**

Remedial efforts completed

### **BELLEVUE\_002**

Bucks County

#### **Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders

#### **Planned**

Remedial efforts completed

**BELLEVUE\_134**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Install additional fuses

**Planned:**

Complete reliability corrective workorders

**BETHAYRES\_002**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**BETHAYRES\_135**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Complete regularly scheduled tree trimming

Completed reliability corrective workorders

Inspected- tested recloser operation

Installed additional wildlife protection

**Planned:**

Remedial efforts completed

**BRADFORD\_346**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**BRYAN\_002**

York County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Replaced fuses

Replaced cable

Completed reliability corrective workorders

**Planned:**

Upgrade cable insulation

**BRYN\_MAWR\_144**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

**Planned:**

Remedial efforts completed

**BUCKINGHAM\_346**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional lightning protection

Installed additional wildlife protection

**Planned:**

Remedial efforts completed

**BUCKINGHAM\_351**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Installed transformer

Installed additional lightning protection

Installed additional wildlife protection

**Planned:**

Remedial efforts completed

**BYBERRY\_143**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Test inspect recloser operation

**Planned:**

Complete reliability corrective workorders

### **CALLOWHILL\_131**

Philadelphia County

#### **Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

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

Replaced cable

Replaced lightning protection

#### **Planned:**

Install 3 phase recloser

### **CALLOWHILL\_142**

Philadelphia County

#### **Completed:**

Inspected circuit visually and with thermographic camera

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

Completed reliability corrective workorders

Installed transformer

Upgraded cable

Upgraded lightning protection

Installed additional fuses

#### **Planned:**

Complete reliability corrective workorders

### **CANAL\_000**

Bucks County

#### **Completed:**

Inspected circuit and with thermographic camera

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

Completed reliability corrective workorders

Replaced lightning protection

#### **Planned:**

Remedial efforts completed

### **CHICHESTER\_134**

Delaware County

#### **Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

#### **Planned:**

Remedial efforts completed

**CLAY\_343**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed switch

**Planned:**

Inspect recloser operation

Complete reliability corrective workorders

**COLWYN\_132**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Reconfigure circuit

**Planned:**

Remedial efforts completed

**CONCORD\_351**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Test/Inspect recloser operation

Repaired switch

Installed additional fuses

**Planned:**

Remedial efforts completed

**COOPER\_371**

York County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced switch

Tested /Inspected recloser

**Planned:**

Remedial efforts completed

**CROYDON\_142**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

**Planned:**

Complete reliability corrective workorders

**DALEVILLE\_342**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced switch

**Planned:**

Complete reliability corrective workorders

Inspect / Test breaker

Install additional transformer

**DAVISVILLE\_004**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Repaired switch

**Planned:**

Install additional fuses

**DAVISVILLE\_007**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

Install additional fuses

**DURHAM\_005**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Installed additional fuses

Upgraded lightning protection

Replaced secondary wires

**Planned:**

Complete reliability corrective workorders

**DUTTON\_001**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

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

**EDDINGTON\_138**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Install animal protection

**Planned:**

Complete reliability corrective workorders

**EDGEMONT\_001**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

Upgraded recloser communications

Installed &amp; tested recloser operations

**Planned:**

Complete reliability corrective workorders

**ELMWOOD\_135**  
Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders  
Replaced cable  
Installed additional lightning protection  
Installed additional fuses

**Planned:**

Remedial efforts completed

**EMILIE\_010**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders  
Replaced Cable  
Inspect breaker operation

**Planned:**

Remedial efforts completed

**EMILIE\_017**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**EMILIE\_134**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**FALLS\_343**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera  
Inspected selected areas of circuit for vegetation issues and corrected as needed  
Completed reliability corrective workorders  
Tested / Inspected recloser operation

**Planned:**

Remedial efforts completed

**FIN\_002**

York County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

**Planned:**

Remedial efforts completed

**FLINT\_132**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed animal protection

Adjust recloser settings

**Planned:**

Remedial efforts completed

**FLINT\_143**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Inspect breaker operation

**Planned:**

Remedial efforts completed

**FLINT\_144**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgrade fuse

Installed animal protection

**Planned:**

Remedial efforts completed

**FLINT\_147**

Delaware County

**Completed:**

Inspected circuit and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Install additional lightning protection

Inspect circuit breaker operation

**Planned:**

Upgrade cable

Install capacitor bank

Complete reliability corrective workorders

**GARDENVILLE\_000**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Tested / Repaired capacitor

**Planned:**

Complete reliability corrective workorders

**GLADWYNE\_133**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded cable

**Planned:**

Complete reliability corrective workorders

**HARMONY\_001**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested switch operation

Replaced cable section

Replaced recloser

**Planned:**

Remedial efforts completed

**HARMONY\_008**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**HEATON\_136**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgrade secondary wires

Install additional fuses

**Planned:**

Complete reliability corrective workorders

**HEATON\_142**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded cable insulation

**Planned:**

Remedial efforts completed

**HEATON\_163**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

**Planned:**

Install 3 phase recloser

**JARRETT\_135**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded secondary wires

**Planned:**

Complete reliability corrective workorders

**JENKINTOWN\_130**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**JENKINTOWN\_135**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed tree wire

Installed additional fuses

**Planned:**

Complete reliability corrective workorders

**JENKINTOWN\_138**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced recloser

Replaced cable sections

**Planned:**

Completed reliability corrective workorders

**KEYSTONE\_037**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspect switches

**Planned:**

Install switch

Complete reliability corrective workorders

**KING\_135**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed animal protection

Installed recloser

**Planned:**

Remedial efforts completed

**KNOWLTON\_001**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**KNOWLTON\_003**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Completed reliability corrective workorders

Upgraded secondary wire

**LANE\_002**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Upgrade fuses

Complete reliability corrective workorders

**LENAPE\_342**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

**Planned:**

Complete reliability corrective workorders

**LENAPE\_351**

Chester County

**Completed:**

Inspected circuit and with thermographic camera

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

Replace cable

Upgrade recloser

**LESTER\_003**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**LINE\_109\_00**

Bucks County

**Completed:**

Circuit under analysis

**LINE\_131\_00WO**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Completed reliability corrective workorders

**LINE\_2266**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Installed switch

**Planned:**

Remedial efforts completed

**LINE\_2675**

Philadelphia County

**Completed:**

Circuit under analysis

**LINE\_3308NT**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded controller

Upgraded transformer

Upgraded lightning protection

**Planned:**

Complete reliability corrective workorders

Upgrade wires

**LINE\_3340**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed switch

Replaced cable

**Planned:**

Completed reliability corrective workorders

**LINE\_3500**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Completed reliability corrective workorders

**LINE\_7500PB**

Chester County

**Completed:**

Circuit Under analysis

**LLANERCH\_161**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced cable

**Planned:**

Complete reliability corrective workorders

**LOMBARD\_042**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Installed faulted circuit indicators

**Planned:**

Completed reliability corrective workorders

**MACDADE\_133**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded secondary wires

Inspected breaker operation

Installed animal protection

**Planned:**

Complete reliability corrective workorders

**MACDADE\_135**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded fuse

**Planned:**

Completed reliability corrective workorders

**MACDADE\_139**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

**Planned:**

Remedial efforts completed

**MACDADE\_146**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

**Planned:**

Remedial efforts completed

**MAIN\_000**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Transfer portion of load to supply circuit

Complete reliability corrective workorders

**MAINLAND\_000**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**MALL\_025**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

**Planned:**

Installed switch

Replace cable stretch

**MIDDLETOWN\_133**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Replace cable

Install additional fuses

Complete reliability corrective workorders

**MIDDLETOWN\_143**

Delaware County

**Completed:**

Circuit under analysis

**MIDDLETOWN\_349**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded fuses

Test / Inspect recloser operation

**Planned:**

Complete reliability corrective workorders

**MIDWAY\_003**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Install additional fuses

Complete reliability corrective workorders

**NESHAMINY\_133**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Replace cable

Complete reliability corrective workorders

**NEWLINVILLE\_342**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Tested / Inspected recloser operations

**Planned:**

Install lightning protection

Complete reliability corrective workorders

**NEWLINVILLE\_352**

Chester County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed 3 phase recloser

Replaced cable

**Planned:**

Complete reliability corrective workorders

### **NEWTOWN\_SQUARE\_136**

Delaware County

#### **Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Installed wildlife protection

#### **Planned:**

Remedial efforts completed

### **NEWTOWN\_SQUARE\_146**

Delaware County

#### **Completed:**

Completed reliability corrective workorders

Inspected circuit visually and with thermographic camera

Inspect / Test recloser operation

Inspected selected areas of circuit for vegetation issues and corrected as needed

#### **Planned:**

Remedial efforts completed

### **OVERBROOK\_131**

Philadelphia County

#### **Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

#### **Planned:**

Install additional lightning protection

Install wildlife protection

Complete reliability corrective workorders

### **PARRISH\_139**

Philadelphia County

#### **Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Install additional lightning protection

Install additional fuses

#### **Planned:**

Complete reliability corrective workorders

**PERKIOMEN\_343**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced 3 phase recloser

Installed 3 phase recloser

**Planned:**

Remedial efforts completed

**PIPER\_000**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Remedial efforts completed

**PLYMOUTH\_135**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed wildlife protection

**Planned:**

Remedial efforts completed

**PLYMOUTH\_164**

Montgomery County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded fuse

Upgraded wires

Installed additional animal protection

**Planned:**

Complete reliability corrective workorders

**PULASKIE\_014**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional wildlife protection

Upgraded transformer

**Planned:**

Complete reliability corrective workorders

**RADNOR\_131**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional wildlife protection

Replaced recloser

**Planned:**

Complete reliability corrective workorders

**RICHMOND\_144**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Inspected selected areas of circuit for vegetation issues and corrected as needed

Replaced cable

Installed wildlife protection

Installed additional fuses

**Planned:**

Installed wildlife protection

Installed additional fuses

Complete reliability corrective workorders

**SPRUCE\_028**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

**Planned:**

Replace switch

Replace cable section

Complete reliability corrective workorders

**SPRUCE\_029**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

**Planned:**

Replace cable section

Completed reliability corrective workorders

**SUNNYBURN\_002**

York County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Completed reliability corrective workorders

**TABOR\_135**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded transformer

Installed additional fuses

**Planned:**

Complete reliability corrective workorders

**TANGUY\_000**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

**Planned:**

Install additional fuses

Complete reliability corrective workorders

**TUNA\_132**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Inspected recloser operation

Installed transformer

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**TUNA\_142**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced stretch of cable

**Planned:**

Complete reliability corrective workorders

**TUNA\_143**

Philadelphia County

**Completed:**

Completed reliability corrective workorders

Installed vacuum fault interrupter

**Planned:**

Complete reliability corrective workorders

**UNIVERSITY\_012**

Philadelphia County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced stretch of cable

Upgraded transformer

**Planned:**

Completed reliability corrective workorders

**UPPER\_DARBY\_139**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed additional fuses

Upgraded fuses

**Planned:**

Remedial efforts completed

**UPPER\_MERION\_351**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Upgraded transformer

Inspect recloser operation

**Planned:**

Remedial efforts completed

**WARMINSTER\_006**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**WARRINGTON\_341**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Installed additional fuses****Planned:**

Complete reliability corrective workorders

**WAYNE\_142**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**WAYNE\_146**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Replaced recloser

Upgraded wires

Replaced cable

**Planned:**

Complete reliability corrective workorders

**WORTH\_000**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed three phase recloser

**Planned:**

Coordinate fuses

Completed reliability corrective workorders

**WRIGHT\_000**

Bucks County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Relocated transformer

Completed reliability corrective workorders

**Planned:**

Complete reliability corrective workorders

**YEADON\_134**

Delaware County

**Completed:**

Inspected circuit visually and with thermographic camera

Inspected selected areas of circuit for vegetation issues and corrected as needed

Completed reliability corrective workorders

Installed three phase recloser

**Planned:**

Complete reliability corrective workorders

## **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).