

Richard G. Webster, Jr. Vice President Regulatory Policy and Strategy

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October 31, 2012

<u>Via Federal Express</u> Rosemary Chiavetta, Secretary Pennsylvania Public Utility Commission Commonwealth Keystone Building 400 North Street Second Floor Harrisburg, Pennsylvania 17120

Re: PUC Docket No. L-00030161 Rulemaking Re Amending Electric Service Reliability Regulations at 52 Pa. Code Chapter 57

Dear Secretary Chiavetta:

In accordance with Electric Service Reliability Regulations at 52 Pa. Code Chapter 57, enclosed are an original and six copies of PECO's 2012 Quarterly Reliability Report for the period ending September 30, 2012.

Because portions of the report contain sensitive and proprietary information, 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 and Proprietary" header on each page, be kept confidential, pursuant to Commission Order of March 20, 2006.

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

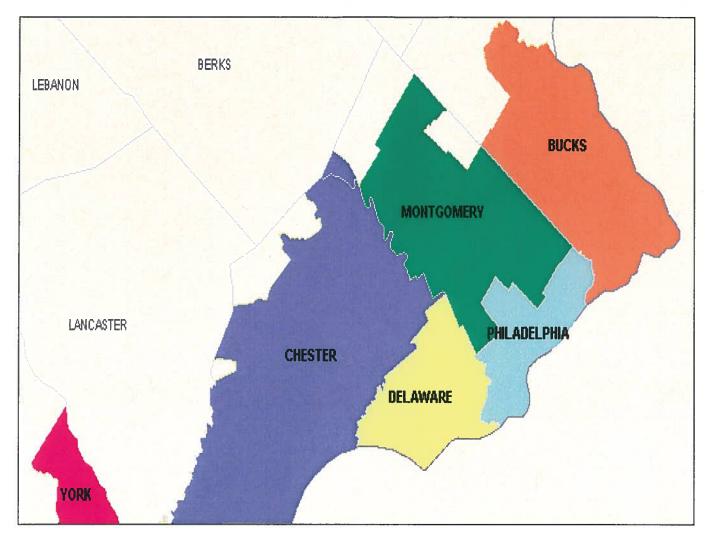
Sincerely,

Richmod G. Webster, JR. / RAS

cc: Office of Consumer Advocate Office of Small Business Advocate

enclosures

PECO Energy Company Quarterly Reliability Report For Period Ending September 30, 2012



October 31, 2012

PECO Energy ("PECO")

Quarterly Reliability Report for the Period Ending September 30, 2012 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) <u>"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."</u>

No Major events occurred during the 3rd quarter.

Section 57.195(e)(2) <u>"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."</u>

| PECO Customers | Sustained Customer Interruptions | Sustained Customer Hours | Momentary Customer Interruptions | Sustained Customer Minutes | SAIFI | CAIDI | SAIDI | MAIFI |
|-------------------|--|--------------------------------|--|----------------------------------|-------|-------|-------|-------|
| 1,693,879 | 1,369,094 | 2,177,764 | 999,812 | 130,665,825 | 0.81 | 95 | 77 | 0.59 |

*Data reflects 12 months ending 09/30/2012

| 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. No benchmark or standard was established for MAIFI.

SAIFI, CAIDI and SAIDI are currently at the best performance levels reported to the Commission since quarterly reports began in December 2003.

Section 57.195(e)(3) <u>"Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available,</u> 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 for 2011 were selected based on a weighted score combining customer interruptions, customer hours, SAIFI and SAIDI, 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) <u>"Specific remedial efforts taken and planned for the worst performing 5% of the circuits as identified in paragraph (3)."</u>

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) <u>"A Rolling 12-month breakdown and analysis of outage causes during the preceding guarter, 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."</u>

| 12 Months Ending September 30, 2012 | | | | | | | | | |
|-------------------------------------|--------------------|----------------------------|---------------------------|-----------------------------------|---------------------|--|--|--|--|
| Cause | Service Outages | % of Service Outages | Customer Interruptions | % of Customer Interruptions | Customer Minutes | | | | |
| Animal | 1,144 | 10.1% | 39,310 | 2.9% | 2,918,662 | | | | |
| Contact/Dig-In | 127 | 1.1% | 9,903 | 0.7% | 1,354,135 | | | | |
| Equipment Failure | 4,105 | 36.1% | 518,004 | 37.8% | 46,920,614 | | | | |
| Lightning | 748 | 6.6% | 106,040 | 7.7% | 14,459,622 | | | | |
| Other | 1,219 | 10.7% | 108,738 | 7.9% | 5,626,027 | | | | |
| T&S | 16 | 0.1% | 33,245 | 2.4% | 1,946,180 | | | | |
| Unknown | 554 | 4.9% | 53,834 | 3.9% | 4,025,068 | | | | |
| Vegetation-Broken/Uprooted | 2,320 | 20.4% | 376,013 | 27.5% | 41,230,762 | | | | |
| Vegetation-Ingrowth | 772 | 6.8% | 41,618 | 3.0% | 4,819,434 | | | | |
| Vehicles | 360 | 3.2% | 82,964 | 6.1% | 7,411,582 | | | | |

*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 (27.5% of all outages), as opposed to ingrowth (3.0%) of all outages). PECO has continued with the significant supplemental vegetation management program it began in 2006 to prune or remove trees between cycles of it's regularly scheduled vegetation management 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 | e Program – s | status as of | September | 30, 2012 |
|---|-------------------------------|---------------|--------------|-----------|-----------------------|
| | 3 rd Quarter Tasks | | YTD Tasks | | 2012 Total Planned |
| | Planned | Complete | Planned | Complete | |
| Recloser Inspections (Number of reclosers inspected) | 42 | 49 | 126 | 300 | 168 |
| Circuit Patrol & Thermography (Number of circuits patrolled) | 0 | 0 | 940 | 1,886 | 940 |
| Pole Inspections (Number of poles visually inspected) | 0 | 0 | 32,340 | 38,930 | 32,340 |
| Padmount Transformers (Number of transformers visually inspected) | 2,250 | 1,665 | 6,200 | 8,593 | 8,264 |
| Below Ground Transformers (Number of transformers visually inspected) | 451 | 58 | 1,353 | 3,242 | 1,804 |
| Substations (Number of substations inspections performed.(e.g. visual inspection, reading of currents, voltages, temperature etc) for a variety of substation components) | 332 | 344 | 997 | 1,037 | 1,330 |
| Unit Substations (Number of unit substations inspections performed .(e.g. visual inspection, reading of currents, voltages, temperature etc) for a variety of substation components) | 770 | 838 | 2,310 | 2,468 | 3,080 |

| Vegetation Management Preventive Maintenance Program – status as of September 30, 2012 | | | | | | | | |
|--|-----------------------|-----------|-----------|----------|-----------------------|--|--|--|
| | 3 rd Quart | ter Miles | YTD Miles | | 2012 Total Planned | | | |
| | Planned | Complete | Planned | Complete | | | | |
| Distribution Lift and Manual Trimming | 468 | 362 | 1,899 | 2,202 | 2,532 | | | |
| Transmission Trimming and Removals | 59 | 49 | 152 | 149 | 197 | | | |

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

| \$Millions | Budgeted 3 rd Quarter | Actual 3 rd Quarter | Budgeted Year-to-Date | Actual Year-to-Date |
|--------------------------|-------------------------------------|-----------------------------------|--------------------------|------------------------|
| New Business Connections | \$0.3 | \$0.1 | \$1.2 | \$0.7 |
| Capacity Expansion | \$0.1 | \$(0.4) | \$2.1 | \$2.6 |
| System Performance | \$10.6 | \$8.1 | \$32.9 | \$27.3 |
| Facility Relocation | \$0.4 | \$0.2 | \$1.1 | \$0.4 |
| Maintenance | \$34.9 | \$39.2 | \$108.7 | \$118.6 |
| Total | \$46.3 | \$47.2 | \$146.0 | \$149.6 |

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

| \$Millions | Budgeted 3 rd Quarter | Actual 3 rd Quarter | Budgeted Year-to-Date | Actual Year-to-Date |
|--------------------------|-------------------------------------|-----------------------------------|--------------------------|------------------------|
| New Business Connections | \$9.5 | \$7.0 | \$31.7 | \$25.4 |
| Capacity Expansion | \$7.5 | \$6.2 | \$34.5 | \$42.8 |
| System Performance | \$10.2 | \$9.1 | \$35.3 | \$24.9 |
| Facility Relocation | \$3.8 | \$2.6 | \$12.5 | \$4.5 |
| Maintenance | \$19.8 | \$21.6 | \$58.3 | \$62.3 |
| Total | \$50.8 | \$46.5 | \$172.3 | \$159.9 |

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

PECO's full-time trade staff as of September 30th 2012 was as follows:

| Aerial Lineman | 383 | |
|--|-----|--------|
| Underground Lineman (Include UTS) | 53 | |
| Transmission / Substation Mechanics, Operators | 98 | |
| Energy Technicians | 104 | |
| Aerial Foreman | 61 | |
| Underground Foreman (Includes UTS) | 17 | |
| Transmission / Substation Foreman | 27 | |
| ET Foreman | 5 | |
| Total | 748 | Nicola |

Contact Persons: J. Coffman Director, Engineering (215) 841-4201 jearl.coffman@peco-energy.com

Dick Webster VP Regulatory Policy & Strategy (215) 841-5777 <u>dick.webster@peco-energy.com</u>

12 Month Rolling Rolling Rolling Rolling Rolling Rolling Rolling Momentary CUSTOMERS Circuit Circuit Circuit Circuit Customers Customer Customers ON CIRCUIT SAIFI CAIDI SAIDI MAIFI Interrupted Hours Interrupted CIRCUIT ABINGTON 006 242 4.43 91 405 1.00 1,071 1,632 242 2.84 975 AQUE 000 343 162 460 1.49 2,629 510 ARDMORE 018 529 2.26 131 297 0.00 1.198 2,615 0 AVONDALE 003 183 1.00 123 123 1.00 183 375 183 BALA 134 1,746 92 10 0.00 190 292 0.11 0 BALA 141 519 0.17 235 39 1.18 86 337 613 BERWYN 002 566 1.77 95 167 1.99 1,001 1,580 1129 **BETHAYRES 004** 392 3.52 90 318 0.00 1.378 2.078 0 79 BETHAYRES 135 768 1.05 83 1.20 809 1,059 925 BLUE GRASS 130 1,112 0.12 86 10 0.00 130 186 0 BLUE GRASS 136 1,214 0.21 80 17 0.00 257 342 0 BLUE GRASS 144 62 73 1,465 1.18 0.84 1,723 1,785 1230 170 105 BLUE GRASS 145 515 0.62 0.60 320 905 310 BROOMALL 136 1,136 1.12 108 120 0.06 1,269 2,280 70 BRYN MAWR 147 223 1,583 1.69 132 1.46 2,681 5,894 2311 **BUCKINGHAM 353** 1,389 0.90 82 74 1.63 1.252 1.708 2260 **BUCKINGHAM 361** 746 1.80 35 63 1.24 1,345 928 788 **BUCKINGHAM 372** 1,113 0.90 107 1,000 890 96 0.80 1,783 **BYBERRY 132** 734 2.52 96 241 0.00 1,851 2,951 0 2,034 **BYBERRY 137** 1,871 0.95 68 1,786 0 65 0.00 BYBERRY 145 1,511 0.13 132 17 0.00 191 419 0 31 BYBERRY 161 984 0.12 258 0.00 120 515 0 BYBERRY 162 1,618 2.23 76 170 2.23 3,607 4,578 3603 CALLOWHILL 144 1,005 0.00 37 0 0.00 3 2 0 CEDARBROOK 132 690 0.22 90 20 0.00 150 226 0 CHADDS 000 483 1.57 178 280 0.42 760 2,254 205 CORNOG 001 476 2.20 126 277 0.00 1,048 2,199 0 COUNTY LINE 006 524 257 524 2.19 117 1.00 1,148 2,245 CROYDON 131 628 1.03 60 62 0.00 649 652 0 CROYDON 132 1,220 0.54 50 27 0.00 663 549 0 97 CRUM LYNNE 138 0.06 1.03 99 1,617 6 160 1670 DALEVILLE 342 101 684 2.00 203 0.07 1,367 2,310 49 DELTA 002 627 74 93 1.26 0.00 792 973 0 347 89 DOYLESTOWN 001 0.01 1.00 347 1 2 3 EDDINGTON 137 1,397 71 150 2,972 3,496 2.13 0.00 0 EDGMONT 001 607 2.04 122 249 0.00 1,238 2,516 0 2.05 93 190 EMILIE 132 1,381 0.00 4,384 0 2,832 **FAIR 002** 476 3.46 82 283 2,245 1904 4.00 1,646 314 76 HAGYS 004 6.29 480 0.00 1,976 2,514 0 472 4.08 70 285 3.00 1,924 1416 HARMONY 003 2,242 HARMONY 005 1,077 3.09 27 84 2.00 3,323 1,517 2154 HARTMAN 351 3,502 2.78 73 204 1.52 9,739 5337 11,890 HEARTWOOD 003 536 3.10 53 163 1.00 1,660 1,456 535 HEATON 163 933 3.10 63 195 0.00 2,893 3,025 0 HEATON 167 811 1.69 200 0.00 118 1,369 2,700 1 HEATON 168 1,140 0.92 102 94 0.49 1,048 1,787 562 HEATON 169 1,461 2.20 59 130 1.23 3,209 3,163 1791 231 HIGHLAND 000 345 0.22 51 2.01 76 293 693 JARRETT 142 1,027 1.64 71 117 0.70 1,686 2,003 714

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 |
|-------------------|-------------------------|---|---|---|---|---|--|--|
| JARRETT 143 | 734 | 2.51 | 136 | 342 | 0.00 | 1,843 | 4,188 | 0 |
| JENKINTOWN 138 | 1,884 | 0.56 | 58 | 33 | 2.47 | 1,063 | 1,035 | 4658 |
| KENIL 000 | 582 | 2.06 | 174 | 358 | 0.00 | 1,199 | 3,474 | 0 |
| KENNETT_SQUAR_001 | 399 | 1.04 | 34 | 35 | 3.00 | 414 | 235 | 1197 |
| LANDENBERG 000 | 553 | 4.45 | 129 | 574 | 1.00 | 2,461 | 5,295 | 553 |
| LARCHMONT 007 | 529 | 3.17 | 114 | 361 | 1.00 | 1,678 | 3,181 | 528 |
| LENAPE 352 | 1,746 | 0.54 | 409 | 222 | 0.26 | 949 | 6,469 | 456 |
| LINE 104 00BY | 6 | 6.67 | 242 | 1611 | 0.20 | 40 | 161 | 0 |
| LINE 116 00BM | 4 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| LINE 1300CR | 2,074 | 2.11 | 75 | 158 | 0.00 | | | |
| LINE 145 00UP | 177 | 0.00 | | | | 4,382 | 5,448 | 1606 |
| | | | 0 | 0 | 2.00 | 0 | 0 | 354 |
| LINE_161_00CO | 1,244 | 1.23 | 115 | 141 | 0.49 | 1,526 | 2,926 | 605 |
| LINE_2610 | 12 | 0.75 | 66 | 50 | 0.33 | 9 | 10 | 4 |
| LINE_2781 | 1,078 | 1.15 | 128 | 147 | 0.00 | 1,237 | 2,646 | 0 |
| LINE_3329 | 248 | 0.00 | 39 | 0 | 0.01 | 1 | 1 | 3 |
| LINE_800CR | 1,856 | 1.16 | 166 | 193 | 0.57 | 2,158 | 5,967 | 1052 |
| LINTON_341 | 2,273 | 4.16 | 145 | 602 | 1.63 | 9,466 | 22,807 | 3696 |
| LLANERCH_163 | 1,370 | 0.14 | 124 | 17 | 1.00 | 193 | 398 | 1370 |
| LOMBARD_042 | 174 | 3.00 | 100 | 301 | 0.00 | 522 | 874 | 0 |
| MACDADE_146 | 1,988 | 1.48 | 69 | 102 | 0.00 | 2,940 | 3,394 | 0 |
| MATSON_131 | 794 | 2.34 | 90 | 210 | 3.34 | 1,858 | 2,773 | 2648 |
| MIDDLETOWN_132 | 1,656 | 3.87 | 58 | 223 | 2.47 | 6,405 | 6,162 | 4093 |
| MIDDLETOWN_133 | 1,478 | 1.79 | 93 | 167 | 0.88 | 2,648 | 4,125 | 1298 |
| MIDDLETOWN_142 | 1,389 | 2.42 | 74 | 179 | 0.33 | 3,362 | 4,133 | 456 |
| MIDDLETOWN_143 | 1,673 | 0.54 | 89 | 49 | 0.00 | 910 | 1,353 | 0 |
| MONROE_004 | 420 | 0.06 | 129 | 7 | 1.00 | 24 | 52 | 420 |
| MONROE_005 | 299 | 0.25 | 396 | 98 | 1.30 | 74 | 489 | 390 |
| MONROE_006 | 369 | 0.15 | 45 | 7 | 1.00 | 55 | 41 | 368 |
| MOON_005 | 347 | 1.05 | 42 | 44 | 0.00 | 364 | 257 | 0 |
| NESHAMINY_133 | 947 | 1.35 | 69 | 94 | 0.00 | 1,281 | 1,481 | 0 |
| NEWLINVILLE_352 | 2,261 | 1.38 | 158 | 217 | 1.70 | 3,111 | 8,189 | 3849 |
| NEWLINVILLE_361 | 731 | 1.36 | 138 | 187 | 0.48 | 991 | 2,275 | 352 |
| NEWTOWN_SQUAR_143 | 1,053 | 2.25 | 98 | 221 | 0.69 | 2,373 | 3,883 | 727 |
| NOLAN_001 | 919 | 1.72 | 264 | 455 | 4.29 | 1,580 | 6,964 | 3946 |
| PARKESBURG_002 | 620 | 1.07 | 134 | 143 | 0.00 | 662 | 1,481 | 0 |
| PARRISH_133 | 3,228 | 0.09 | 151 | 13 | 0.00 | 275 | 694 | 0 |
| PERKIOMEN_363 | 2,563 | 0.49 | 130 | 64 | 0.00 | 1,252 | 2,721 | 0 |
| PHOENIXVILLE_003 | 883 | 1.02 | 71 | 72 | 0.00 | 904 | 1,063 | 0 |
| PLANEBROOK_342 | 739 | 2.77 | 69 | 191 | 0.80 | 2,046 | 2,350 | 593 |
| PLANEBROOK_344 | 1,847 | 1.55 | 91 | 141 | 0.00 | 2,856 | 4,339 | 0 |
| PLANEBROOK_353 | 465 | 0.07 | 333 | 24 | 0.00 | 34 | 188 | 0 |
| RADNOR 131 | 33 | 0.00 | 0 | 0 | 2.00 | 0 | 0 | 66 |
| ROXBOROUGH 131 | 2,040 | 0.32 | 140 | 45 | 0.00 | 657 | 1,536 | 0 |
| ROYERSFORD 001 | 866 | 2.06 | 52 | 108 | 0.00 | 1,782 | 1,554 | 0 |
| SAVILLE 132 | 2,636 | 1.47 | 58 | 85 | 0.64 | 3,876 | 3,716 | 1692 |
| SAVILLE 135 | 1,318 | 2.79 | 101 | 282 | 1.82 | 3,673 | 6,199 | 2395 |
| SHERWOOD 024 | 394 | 0.63 | 101 | 81 | 0.00 | 249 | | 0 |
| | | | | | | | 533 | |
| SNYDER_001 | 366 | 1.46 | 45 | 65 | 0.00 | 534 | 396 | 0 |
| SOLEBURY_002 | 320 | 0.28 | 82 | 23 | 3.00 | 91 | 125 | 960 |
| SPROUL_003 | 590 | 0.15 | 79 | 12 | 0.00 | 89 | 117 | 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 |
|----------------------|-------------------------|---|---|---|---|---|--|--|
| SPROUL_004 | 372 | 2.01 | 71 | 142 | 0.68 | 746 | 879 | 253 |
| SUGARTOWN_000 | 641 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0 |
| TABOR_139 | 1,890 | 1.10 | 36 | 40 | 0.00 | 2,080 | 1,251 | 0 |
| TANGUY_000 | 334 | 0.34 | 394 | 134 | 1.00 | 114 | 748 | 334 |
| TAYLOR_001 | 280 | 0.01 | 592 | 4 | 0.00 | 2 | 20 | 0 |
| TREDYFFRIN_131 | 1,313 | 0.36 | 279 | 100 | 2.00 | 472 | 2,196 | 2626 |
| TREVOSE_003 | 414 | 1.07 | 167 | 179 | 0.00 | 443 | 1,233 | 0 |
| TREVOSE_136 | 1,067 | 3.43 | 55 | 188 | 1.07 | 3,657 | 3,348 | 1145 |
| UPPER_DARBY_140 | 1,905 | 0.13 | 65 | 9 | 0.00 | 254 | 276 | 0 |
| UPPER_PROVIDENCE_351 | 3,457 | 1.52 | 122 | 186 | 1.12 | 5,259 | 10,699 | 3864 |
| WARRINGTON_363 | 1,491 | 2.03 | 92 | 186 | 0.00 | 3,024 | 4,629 | 0 |
| WAWA_000 | 403 | 1.54 | 111 | 172 | 1.00 | 622 | 1,153 | 403 |
| WAYNE_143 | 832 | 3.69 | 78 | 290 | 0.32 | 3,074 | 4,016 | 269 |
| WENTZ_000 | 344 | 1.55 | 48 | 75 | 2.00 | 533 | 428 | 688 |
| WILLOWDALE_002 | 471 | 1.57 | 200 | 314 | 1.00 | 739 | 2,467 | 471 |

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 06/30/12 **ABINGTON 006** 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 fuses **Planned:** Install cutout mounted single phase recloser. Complete reliability corrective workorders **AQUE 000**

Bucks County Completed: Inspected circuit visually and with thermographic camera Completed reliability corrective workorders Upgraded transformer Inspected selected areas of circuit for vegetation issues and corrected as needed **Planned:** Remedial efforts completed

ARDMORE 018

Delaware County

Completed:

Repaired Station Leg Cable Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed **Planned:** Install switch

AVONDALE 003

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 fuses Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

BALA 134

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 fuses Installed animal protection **Planned:** Remedial efforts completed

BALA_141

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 Upgraded fuses Installed additional lightning protection Installed animal protection Planned: Remedial efforts completed

BERWYN_002

Chester 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 Planned: Remedial efforts completed

BETHAYRES_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 Replaced station leg cable Installed spacer cable 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 Completed reliability corrective workorders Installed animal protection Planned: Remedial efforts completed

BLUE_GRASS_130

Philadelphia County Completed: Inspected circuit visually and with thermographic camera Completed reliability corrective workorders Installed animal protection Inspected selected areas of circuit for vegetation issues and corrected as needed Upgrade lightning protection Planned: Remedial efforts completed

BLUE_GRASS_136

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 fuses Installed wildlife protection Installed Faulted Circuit Indicators **Planned:** Remedial efforts completed

BLUE_GRASS_144

Philadelphia County **Completed:** Inspected circuit visually and with thermographic camera Completed reliability corrective workorders Tested/Inspected recloser operation Upgraded cable insulation Installed additional fuses Installed wildlife protection Inspected selected areas of circuit for vegetation issues and corrected as needed **Planned:** Remedial efforts completed

BLUE_GRASS_145

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 lightning protection Installed additional fuses **Planned:** Remedial efforts completed

BROOMALL_136

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 **Planned:** Install three phase recloser

BRYN_MAWR_147

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 fuse Upgraded transformers Installed single phase recloser **Planned:** Remedial efforts completed

BUCKINGHAM_353

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

BUCKINGHAM_361

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 spacer cable Installed additional fuses **Planned:** Remedial efforts completed

BUCKINGHAM_372

Bucks County

Completed:

Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Replaced capacitor Upgraded transformer Installed 3 Phase recloser **Planned:** Remedial efforts completed

BYBERRY_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 Replaced primary wire Planned: Remedial efforts completed

BYBERRY_137

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 lightning protection Installed additional fuses Installed additional fuses Installed additional animal protection Planned: Remedial efforts completed

BYBERRY_145

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 fuses Upgraded wildlife protection Upgraded cable insulation Planned: Remedial efforts completed

BYBERRY 161

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 3 phase recloser Installed wildlife protection Planned: Remedial efforts completed

BYBERRY_162

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 wildlife protection Installed (2) 3 phase reclosers **Planned:** Remedial efforts completed

CALLOWHILL_144

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:

Remedial efforts completed

CEDARBROOK_132

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 fuse coordination Installed additional fuses Planned: Remedial efforts completed

CHADDS_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 Replaced transformer Installed compact single phase recloser **Planned:** Upgrade aerial cable

CORNOG_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 Installed additional fuses Installed 3 phase recloser Adjusted recloser timing settings Planned: Remedial efforts completed

COUNTY_LINE_006

Montgomery County

Completed:

Inspected circuit visually and with thermographic camera Completed reliability corrective workorders Installed additional fuses Completed regularly scheduled tree trimming Installed additional fuses **Planned:** Remedial efforts completed

CROYDON_131

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 wildlife protection **Planned:** Complete regularly scheduled tree trimming

Complete regularly scheduled tree trimming Install 3 phase recloser

CROYDON_132

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 wildlife protection Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

CRUM_LYNNE_138

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 3 phase recloser Installed animal protection Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

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 Installed 3 phase recloser Replaced primary wire Installed additional lightning protection Installed wildlife protection Completed regularly scheduled tree trimming Planned: Remedial efforts completed

DELTA_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:** Remedial efforts completed

DOYLESTOWN_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 Installed vacuum fault interrupter Installed three phase recloser on supply circuits Repaired switch **Planned:** Remedial efforts completed **EDDINGTON 137** 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 Completed regularly scheduled tree trimming Installed additional fuses Installed additional animal protection Reconfigured primary wire **Planned:** Upgraded fuses

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

Planned:

Remedial efforts completed

EMILIE_132

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 3 phase recloser Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

FAIR_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

HAGYS_004

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 Repaired cable Installed additional lightning protection Planned: Remedial efforts completed

HARMONY_003

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

HARMONY_005

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

HARTMAN_351

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 transformer **Planned:** Remedial efforts completed

HEARTWOOD_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 Repaired station leg cable 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 Planned: Remedial efforts completed

HEATON_167

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 Install cutout mounted single phase recloser. Planned: Remedial efforts completed

HEATON_168

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 fuses Replaced cable Upgraded transformer Installed wildlife protection Installed (2) three phase reclosers **Planned:** Remedial efforts completed

HEATON 169

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 three phase recloser **Planned:** Upgrade secondary wires Install transformer

HIGHLAND_000

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 fuses Upgraded lightning protection Completed regularly scheduled tree trimming Planned: Remedial efforts completed

JARRETT_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 Installed wildlife protection Planned: Upgrade wires

JARRETT_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 Upgraded cable Planned: Remedial efforts completed

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 Upgrade fuse Replaced cable Planned: Remedial efforts completed KENIL_000 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 lightning protection Installed additional fuses Planned: Remedial efforts completed

KENNETT_SQUARE_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 Installed additional fuses Planned: Remedial efforts completed

LANDENBERG_000

Chester County Completed: Inspected circuit visually and with thermographic camera Completed reliability corrective work orders Inspected selected areas of circuit for vegetation issues and corrected as needed Installed single phase recloser Replaced cable Planned: Remedial efforts complete

LARCHMONT 007

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 Faulted Circuit Indicators Planned:

Remedial efforts completed

LENAPE_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 (2) 3 phase reclosers Tested/Corrected recloser operation Planned:

Remedial efforts completed

LINE-104_00BY 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 primary wire Planned: Demedical efforts according to d

Remedial efforts completed

LINE_116_00BM

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 Repaired cable Installed 3 phase recloser **Planned:** Remedial efforts completed

LINE_1300CR

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

LINE_145_00UP

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 Repaired switch Inspected/Tested Recloser operation **Planned:** Install (2) three phase recloser

LINE_161_00CO

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 lightning protection Installed single phase recloser Upgraded fuses Planned: Remedial efforts completed LINE_2610 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 primary cable Installed fuses Repaired station leg cable Planned:

Remedial efforts completed

LINE_2781

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 fuses Completed regularly scheduled tree trimming Installed (2) reclosers **Planned:** Remedial efforts completed

LINE_3329

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

LINE_800CR

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 additional fuses Planned:

Completed reliability corrective workorders

LINTON_341

Bucks County **Completed:** Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Installed 3 single phase reclosers Tested / Inspected recloser operation Installed 3 phase recloser Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

LLANERCH 163

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 **Planned:**

Remedial efforts completed

LOMBARD 042

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 Faulted Circuit Indicators Upgrade transformer

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 **Planned:**

Remedial efforts completed

MATSON 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 compact single phase recloser Installed wildlife protection Installed spacer cable Installed three phase recloser **Planned:**

Remedial efforts completed

MIDDLETOWN 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 Upgraded cable insulation Replaced cable Installed wildlife protection Installed three phase recloser Tested/Corrected recloser operation Replaced transformer Installed spacer cable Install additional fuses **Planned:** Remedial efforts completed

MIDDLETOWN_133

Delaware County Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Upgraded fuses Installed three phase recloser Installed three phase recloser Installed transformers **Completed:**

Remedial efforts completed

MIDDLETOWN_142

Delaware County **Completed:** Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Installed three phase recloser Upgraded fusing **Planned:** Install three phase recloser Install three phase recloser Install additional fusing Completed reliability corrective work orders

MIDDLETOWN_143

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 three phase recloser Replaced transformer Planned: Remedial efforts completed

MONROE 004

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 Installed spacer cable Installed additional fuses **Planned:** Remedial efforts completed

MONROE_005

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 Inspected/Tested recloser settings Replaced transformer Planned: Remedial efforts completed

MONROE_006

Delaware County

Completed:

Inspected circuit visually and with thermographic camera

Completed reliability corrective workorders

Planned:

Test/Inspect recloser operation Inspect selected areas of circuit for vegetation issues and corrected as needed

MOON_005

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 Upgraded transformer Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

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 Installed small compact single phase recloser Completed regularly scheduled tree trimming Replaced cable **Planned:** Remedial efforts completed

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 three phase recloser **Planned:** Remedial efforts completed

NEWLINVILLE_361

Chester County Completed: Inspected circuit visually and with thermographic camera Completed reliability corrective workorders Replaced single phase recloser Installed additional fuse Replaced switch Inspected selected areas of circuit for vegetation issues and corrected as needed Planned: Remedial efforts completed

NEWTOWN_SQUARE_143

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 fuse

Installed wildlife protection

Upgraded transformer

Installed compact single phase reclosers

Planned:

Remedial efforts completed

NOLAN_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 Upgraded transformer Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

PARKESBURG_002

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 transformer Completed regularly scheduled tree trimming **Planned:** Remedial efforts completed

PARRISH_133

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 Repaired station leg cable Installed additional fuses Planned: Remedial efforts completed

PERKIOMEN_363

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 three phase recloser Planned: Remedial efforts completed

PHOENIXVILLE_003

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 operation Work completed on supply circuit - Installed three reclosers Planned: Remedial efforts completed

PLANEBROOK_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 operation **Planned:** Remedial efforts completed

PLANEBROOK 344

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 compact single phase recloser Planned: Remedial efforts completed

PLANEBROOK_353

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 three phase recloser Planned: Remedial efforts completed

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 Work completed on supply circuit – repaired switch Planned:

Install 2- three phase reclosers

ROXBOROUGH_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 Rearranged circuit for better automatic transfer Upgraded fuses Installed additional fuses Upgraded lightning protection Upgraded service wire Installed three phase reclosers **Planned:** Remedial efforts completed

ROYERSFORD_001

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

SAVILLE_132

Delaware County **Completed:** Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Installed wildlife protection Complete reliability corrective workorders **Planned:** Remedial efforts completed

SAVILLE_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 Planned: Complete regularly scheduled tree trimming

Complete regularly scheduled tree trimming Install 3 phase recloser Complete reliability corrective workorders

SHERWOOD_024

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 lightning protection Complete regularly scheduled tree trimming Planned: Remedial efforts completed

SNYDER 001

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 lightning protection

Completed regularly scheduled tree trimming

Replaced underground cable

Planned:

Remedial efforts completed

SOLEBURY 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 Upgraded transformers

Planned:

Remedial efforts completed

SPROUL 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 Work completed on supply circuit - completed reliability corrective workorders

Tested/Inspected switch operation

Planned:

Remedial efforts completed

SPROUL 004

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

SUGARTOWN_000

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

TABOR_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 Complete regularly scheduled tree trimming Installed additional fuses Installed additional lightning protection **Planned:**

Remedial efforts completed

TANGUY_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 Checked recloser settings Installed spacer cable Planned: Remedial efforts completed

TAYLOR_001

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 underground cable Planned: Remedial efforts completed

TREDYFFRIN_131

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 (2) single phase reclosers Planned: Remedial efforts completed

TREVOSE_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 Installed single phase recloser Installed switch Planned: Remedial efforts completed TREVOSE_136 Bucks County Completed: Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Installed three phase recloser Upgraded cable insulation Upgraded wire Planned: Install three phase recloser Inspect selected areas of circuit for vegetation issues and corrected as needed

UPPER_DARBY_140

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 Complete regularly scheduled tree trimming Planned: Remedial efforts completed

Remedial efforts completed

UPPER_PROVIDENCE_351

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 Installed additional fuses Installed three phase recloser **Planned:** Remedial efforts completed

WARRINGTON_363

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 Repaired switch Completed regularly scheduled tree trimming Planned: Remedial efforts completed

WAWA_000 Delaware County Completed: Inspected circuit visually and with thermographic camera Completed reliability corrective workorders Installed three phase recloser Inspected selected areas of circuit for vegetation issues and corrected as needed Installed (3) single phase reclosers Upgraded lightning protection Planned: Remedial efforts completed

WAYNE 143 Delaware County **Completed:** Completed reliability corrective work orders Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Replaced capacitor Installed three phase recloser **Planned:** Remedial efforts completed

WENTZ_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:** Remedial efforts completed

WILLOWDALE_002

Chester County

Completed:

Inspected circuit visually and with thermographic camera Inspected selected areas of circuit for vegetation issues and corrected as needed Installed faulted circuit indicators Installed compact single phase recloser Completed reliability corrective workorders **Planned:**

Remedial efforts completed

Appendix C

New Business Connections

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

Capacity Expansion

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

System Performance

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

Facility Relocation

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

Maintenance

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

Storm Funds

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