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May 1, 2017

RECEIVED

VIA UNITED PARCEL SERVICE

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120

MAY 1 2017

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

M-2016-2522508

**Re: Joint 1<sup>st</sup> Quarter 2017 Reliability Report – Metropolitan Edison Company,  
Pennsylvania Electric Company, Pennsylvania Power Company and West Penn  
Power Company – Public Version**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 57.195(d) and (e), enclosed for filing on behalf of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company (collectively, the "Companies") are two copies of the Joint 1<sup>st</sup> Quarter 2017 Reliability Report – Public Version ("Joint Report"). Please date stamp the additional copy and return it in the postage-prepaid envelope provided.

On December 22, 2004, the Companies filed an Application for Protective Order at Docket No. L-00030161. The Application was granted, allowing the Companies to file proprietary versions of the quarterly reliability reports. The Proprietary Version of this Joint Report is being filed under separate cover.

Please feel free to contact me if you have any questions or need additional information regarding this matter.

Sincerely,

  
Tori L. Giesler

Enclosures

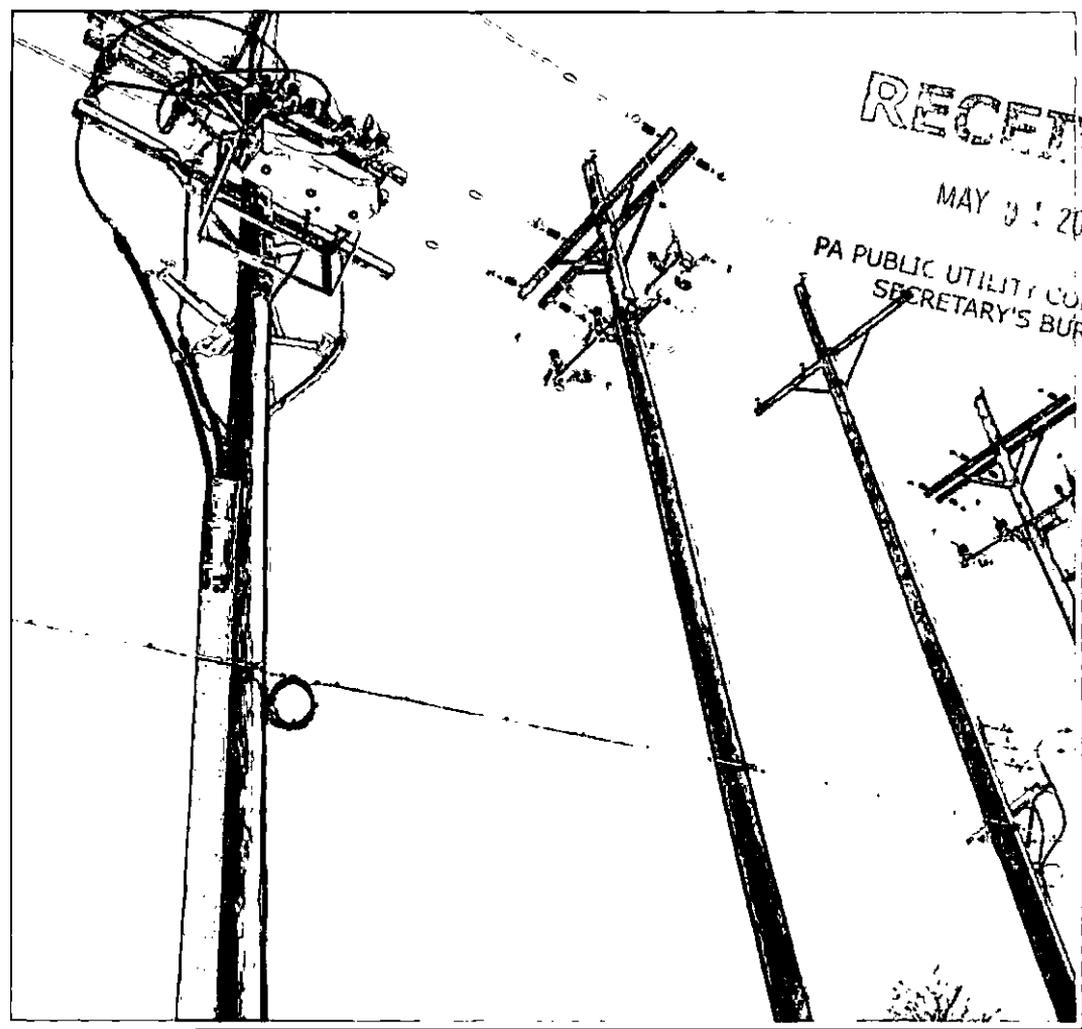
- c: As Per Certificate of Service
- D. Gill – Bureau of Technical Utility Services (via email and first class mail)
- D. Searfoorce - Bureau of Technical Utility Services (via email and first class mail)
- D. Washko – Bureau of Technical Utility Services (via email and first class mail)

**Met-Ed**  
A FirstEnergy Company

**Penelec**  
A FirstEnergy Company

**PennPower**  
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**WestPenn  
Power**  
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PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

## Joint 2017 1<sup>st</sup> Quarter Reliability Report

Metropolitan Edison Company,  
Pennsylvania Electric Company,  
Pennsylvania Power Company, and  
West Penn Power Company

Pursuant to 52 Pa. Code § 57.195(d) and (e)

**Joint 1<sup>st</sup> Quarter 2017 Reliability Report –  
 Metropolitan Edison Company (“Met-Ed”),  
 Pennsylvania Electric Company (“Penelec”),  
 Pennsylvania Power Company (“Penn Power”), and  
 West Penn Power Company (“West Penn”)**

*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. <sup>1</sup>*

*Major Event(s)*

| FirstEnergy Company | Customers Affected | Time and Duration of the Event |                      | Cause of the Event | Commission Approval Status |
|---------------------|--------------------|--------------------------------|----------------------|--------------------|----------------------------|
| Penn Power          | 16,557             | Duration                       | 40 hours, 31 minutes | High Winds         | Approved<br>April 5, 2017  |
|                     |                    | Start Date/Time                | March 8, 2017 11:29  |                    |                            |
|                     |                    | End Date/Time                  | March 11, 2017 04:30 |                    |                            |

<sup>1</sup> For purposes of this Joint Report, all reliability reporting is based upon the Pennsylvania Public Utility Commission’s definitions for momentary outages and major events pursuant to 52 Pa. Code § 57.192.

*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.*

*Reliability Index Values*

| IQ 2017<br>(12-Mo. Rolling)                       | Met-Ed      |                   |                 | Penelec     |                   |                 | Penn Power |                   |                   | West Penn   |                   |                  |
|---|-------------|-------------------|-----------------|-------------|-------------------|-----------------|------------|-------------------|-------------------|-------------|-------------------|------------------|
|   | Benchmark   | 12-Month Standard | 12-Month Actual | Benchmark   | 12-Month Standard | 12-Month Actual | Benchmark  | 12-Month Standard | 12-Month Actual   | Benchmark   | 12-Month Standard | 12-Month Actual  |
| <b>SAIFI</b>                                      | 1.15        | 1.38              | 1.57            | 1.26        | 1.52              | 1.62            | 1.12       | 1.34              | 1.09 <sup>2</sup> | 1.05        | 1.26              | 1.20             |
| <b>CAIDI</b>                                      | 117         | 140               | 127             | 117         | 141               | 125             | 101        | 121               | 99 <sup>3</sup>   | 170         | 204               | 159 <sup>4</sup> |
| <b>SAIDI</b>                                      | 135         | 194               | 199             | 148         | 213               | 202             | 113        | 162               | 108 <sup>5</sup>  | 179         | 257               | 191              |
| <b>MAIFI<sup>6</sup></b>                          |             |                   | 1.10            |             |                   | 4.07            |            |                   | 0.45              |             |                   |                  |
| <b>Customers Served<sup>7</sup></b>               | 558,762     |                   |                 | 581,054     |                   |                 | 162,104    |                   |                   | 713,948     |                   |                  |
| <b>Number of Sustained Interruptions</b>          | 10,188      |                   |                 | 12,624      |                   |                 | 3,265      |                   |                   | 11,979      |                   |                  |
| <b>Customers Affected</b>                         | 875,998     |                   |                 | 942,722     |                   |                 | 176,930    |                   |                   | 858,000     |                   |                  |
| <b>Customer Minutes</b>                           | 111,011,418 |                   |                 | 117,374,443 |                   |                 | 17,500,085 |                   |                   | 136,583,745 |                   |                  |
| <b>Number of Customer Momentary Interruptions</b> | 614,935     |                   |                 | 2,363,239   |                   |                 | 73,251     |                   |                   |             |                   |                  |

<sup>2</sup> Penn Power's SAIFI achieved benchmark performance or better.

<sup>3</sup> Penn Power's CAIDI achieved benchmark performance or better.

<sup>4</sup> West Penn's CAIDI achieved benchmark performance or better.

<sup>5</sup> Penn Power's SAIDI achieved benchmark performance or better.

<sup>6</sup> MAIFI values are not available for West Penn.

<sup>7</sup> Represents the average number of customers served during the reporting period.

While minor storms do not have a regulatory bearing on SAIFI, CAIDI, and SAIDI values, Met-Ed, Penelec, and West Penn are providing this information to provide a complete picture of what was experienced during 1Q 2017. Met-Ed, Penelec, and West Penn performed an analysis<sup>8</sup> to determine the impact minor storms had on their SAIFI and CAIDI performance during 1Q 2017. Specifically, this analysis compared the number of minor storm days experienced during 1Q 2017 to the average number of minor storm days computed from 1Q 2016, 1Q 2015, and 1Q 2014. This analysis also evaluated the impact of minor storm days on SAIFI and CAIDI values by comparing performance during 1Q 2017 - 1Q 2014.

Met-Ed, Penelec and West Penn all showed a higher number of minor storm days in 1Q 2017 and 1Q 2016 when compared to the average number of minor storm days. Further, 1Q 2017 yielded the highest number of minor storm days compared individually to 1Q 2014, 1Q 2015, and 1Q 2016. When looking at SAIFI and CAIDI for a three-month period, Met-Ed, Penelec, and West Penn all showed the highest SAIFI and CAIDI values in 1Q 2017 when compared to SAIFI and CAIDI values for the same three-month periods in 2016 through 2014.

In conclusion, this analysis showed the number of minor storm days experienced in 1Q 2017 linked to SAIFI and CAIDI performance. Specifically, Met-Ed, Penelec, and West Penn all experienced the highest number of minor storm days in 1Q 2017 as well as the highest SAIFI and CAIDI values for 1Q 2017 when compared to the same three-month period for 2016-2014.

Individual Company impacts are provided in Attachment D.

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<sup>8</sup> Penn Power was not included in this analysis.

*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.*

#### *Worst Performing Circuits – Reliability Indices*

The methodology used to identify worst performing circuits is based on both System Average Interruption Frequency Index (“SAIFI”) and System Average Interruption Duration Index (“SAIDI”). The methodology consists of the following steps:

1. For each circuit calculate a circuit SAIFI using only distribution-caused outages.
2. Select the worst 20% of circuits based on the highest circuit SAIFI.
3. Rank the selected circuits based on SAIDI using only distribution-caused customer minutes.
4. Select 5% of the circuits based on the highest customer minutes. These circuits are then identified as the worst performing circuits.

Met-Ed, Penelec, Penn Power, and West Penn’s rankings of the 5% Worst Performing Circuits are provided in Attachment A to this report.

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

*Worst Performing Circuits – Remedial Actions*

Met-Ed, Penelec, Penn Power, and West Penn's Remedial Actions for Worst Performing Circuits are provided in Attachment B to this report.

*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 reported.*

*Outages by Cause*

Outages by Cause – Met-Ed

| <b>Outage by Cause</b>                                  |                         |  |                           |                                     |
|---|-------------------------|--|---------------------------|-------------------------------------|
| <b>1<sup>st</sup> Quarter 2017<br/>12-Month Rolling</b> | <b>Met-Ed</b>           |  |                           |                                     |
| <b>Cause</b>  | <b>Customer Minutes</b> | <b>Number of Sustained Interruptions</b> | <b>Customers Affected</b> | <b>% Based on Number of Outages</b> |
| Equipment failure                                       | 21,151,599              | 2,313                                    | 198,052                   | 22.70%                              |
| Animal  | 3,585,054               | 1,578                                    | 44,526                    | 15.49%                              |
| Trees off ROW - tree                                    | 34,112,077              | 1,333                                    | 148,543                   | 13.08%                              |
| Unknown   | 8,983,158               | 1,230                                    | 91,367                    | 12.07%                              |
| Line failure  | 9,783,491               | 651                                      | 76,231                    | 6.39%                               |
| Trees off ROW - limb                                    | 5,935,903               | 547                                      | 50,098                    | 5.37%                               |
| Forced outage   | 4,201,647               | 492                                      | 84,741                    | 4.83%                               |
| Trees on ROW  | 4,247,096               | 444                                      | 18,511                    | 4.36%                               |
| Bird  | 230,280                 | 426                                      | 2,535                     | 4.18%                               |
| Lightning   | 1,765,092               | 334                                      | 27,566                    | 3.28%                               |
| Vehicle   | 12,319,696              | 296                                      | 71,082                    | 2.91%                               |
| Trees - sec/service                                     | 514,781                 | 244                                      | 1,228                     | 2.39%                               |
| Human error - non-company                               | 701,383                 | 72                                       | 13,095                    | 0.71%                               |
| Overload  | 568,054                 | 48                                       | 6,751                     | 0.47%                               |
| Object contact with line                                | 755,287                 | 38                                       | 3,620                     | 0.37%                               |
| UG dig-up   | 136,748                 | 32                                       | 1,544                     | 0.31%                               |
| Human error - company                                   | 228,112                 | 29                                       | 13,807                    | 0.28%                               |
| Previous lightning                                      | 243,084                 | 21                                       | 6,948                     | 0.21%                               |
| Other electric utility                                  | 372,398                 | 19                                       | 12,439                    | 0.19%                               |
| Wind  | 1,069,202               | 12                                       | 2,644                     | 0.12%                               |
| Customer equipment                                      | 4,453                   | 12                                       | 37                        | 0.12%                               |
| Vandalism   | 37,692                  | 6  | 437                       | 0.06%                               |
| Other utility - non-electric                            | 58,007                  | 4  | 156                       | 0.04%                               |
| Fire  | 5,424                   | 3  | 29                        | 0.03%                               |
| Contamination   | 1,651                   | 3  | 10                        | 0.03%                               |
| Switching error   | 49                      | 1  | 1                         | 0.01%                               |
| <b>Total</b>  | <b>111,011,418</b>      | <b>10,188</b>                            | <b>875,998</b>            | <b>100.00%</b>                      |

### Proposed Solutions – Met-Ed

Met-Ed analyzes its outage data to develop solutions aimed towards improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2017, and associated actions designed to address these outage causes.

To reduce the likelihood of equipment caused outages, Met-Ed follows Inspection and Maintenance (“I&M”) programs<sup>9</sup> that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

Animal guards are installed on equipment where a high frequency of animal-related outages is experienced. When possible, animal guards are installed at the time service is restored for the outages caused by animals. In addition, Met-Ed requires animal guards to be installed on all new overhead and underground riser installations.

To address tree outages, Met-Ed performs cycle based tree trimming and plans to also perform enhanced tree trimming. Enhanced trimming removes overhanging trees in zones one and two,<sup>10</sup> and also clears cross country right-of-ways with mowing in zones one and two. The trees identified during enhanced trimming are determined to be a potential cause of a future outage and are removed to prevent an interruption of electrical service to Met-Ed’s customers.

Generally speaking, there are a number of other reliability projects that have been identified to help reduce the number of, and limit the duration and impact of, interruptions to customers. These include:

- **Protective devices** – In an effort to better ensure the adequate protection of circuits and ultimately minimize outage frequency and duration by reducing the scope of large outages, Met-Ed installs fuses on unprotected segments of distribution circuits.

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<sup>9</sup> Pursuant to 52 Pa. Code § 57.198, every two years an electric distribution company shall file, and receive approval from the Commission of, a biennial plan for the periodic inspection, maintenance, repair and replacement of its facilities. On December 30, 2013, Paul Diskin, Director, Technical Utility Services, issued a letter approving the Company’s biennial inspection, maintenance, repair, and replacement plan effective January 1, 2015 through December 31, 2016. Further, on March 4, 2016 an additional letter was issued approving the plans effective January 1, 2017 – December 31, 2018.

<sup>10</sup> Zone one is defined as the portion of the circuit from the substation breaker to the first protective device. Zone two is defined as the three phase conductor and devices after the first protective device.

- **Circuit ties and loops** – In order to address customers served by radial circuits, Met-Ed continues to build distribution ties and loops between radial sections of its circuits. This allows for circuit switching during outages and enables faster service restoration for customers.
- **Circuit rehabilitation** – Met-Ed continues to perform circuit rehabilitation on select circuits. Specifically, Met-Ed performs inspection to identify equipment replacement needs and then schedules and completes the work.
- **Installation of supervisory control and data acquisition (“SCADA”) devices** – Met-Ed continues to install SCADA to provide communication with circuit breakers, line switches, and reclosers, which provides the ability to remotely operate these devices to reduce restoration time ultimately reducing SAIDI, SAIFI, and CAIDI indices.
- **Underground Residential Distribution (“URD”) Cable Replacement** - Met-Ed’s URD Cable Replacement program targets the replacement of bare concentric neutral cable. This cable was manufactured without an insulating jacket around the concentric neutral wires which often caused it to fail prematurely.
- **Porcelain cutout replacement** – Met-Ed continues to proactively replace porcelain cutouts with polymer cutouts. Failed porcelain cutouts ultimately cause lockouts of reclosers and circuit breakers, as well as other equipment damage.
- **Frequent interruptions** – Met-Ed plans to focus on protective devices that operate multiple times in a defined time period. This not only aims to enhance system performance, but also provides a means to reduce frequency of outages at the device level that might not be otherwise addressed when targeting overall system metrics.

Outages by Cause – Penelec

| <b>Outage by Cause</b>                                  |                         |  |                           |                                     |
|---|-------------------------|--|---------------------------|-------------------------------------|
| <b>1<sup>st</sup> Quarter 2017<br/>12-Month Rolling</b> | <b>Penelec</b>          |  |                           |                                     |
| <b>Cause</b>  | <b>Customer Minutes</b> | <b>Number of Sustained Interruptions</b> | <b>Customers Affected</b> | <b>% Based on Number of Outages</b> |
| Equipment failure                                       | 27,110,695              | 2,943                                    | 290,100                   | 23.31%                              |
| Unknown   | 7,684,999               | 1,949                                    | 99,755                    | 15.44%                              |
| Trees off ROW - tree                                    | 38,860,762              | 1,728                                    | 186,960                   | 13.69%                              |
| Animal  | 3,512,210               | 1,383                                    | 29,327                    | 10.96%                              |
| Line failure  | 14,495,646              | 890                                      | 108,690                   | 7.05%                               |
| Forced outage   | 4,473,796               | 881                                      | 53,574                    | 6.98%                               |
| Lightning   | 5,194,501               | 590                                      | 41,758                    | 4.67%                               |
| Bird  | 1,045,588               | 505                                      | 12,929                    | 4.00%                               |
| Trees off ROW - limb                                    | 4,113,874               | 441                                      | 28,793                    | 3.49%                               |
| Trees - sec/service                                     | 365,294                 | 403                                      | 1,329                     | 3.19%                               |
| Vehicle   | 4,714,470               | 232                                      | 32,892                    | 1.84%                               |
| Trees on ROW  | 970,159                 | 149                                      | 5,189                     | 1.18%                               |
| Human error - non-company                               | 2,516,915               | 125                                      | 24,527                    | 0.99%                               |
| Other electric utility                                  | 333,081                 | 78                                       | 1,693                     | 0.62%                               |
| Previous lightning                                      | 158,051                 | 72                                       | 937                       | 0.57%                               |
| UG dig-up   | 165,734                 | 44                                       | 708                       | 0.35%                               |
| Overload  | 252,748                 | 41                                       | 4,067                     | 0.32%                               |
| Human error - company                                   | 172,557                 | 30                                       | 10,912                    | 0.24%                               |
| Object contact with line                                | 231,531                 | 28                                       | 4,199                     | 0.22%                               |
| Ice   | 234,207                 | 26                                       | 890                       | 0.21%                               |
| Wind  | 517,807                 | 22                                       | 1,728                     | 0.17%                               |
| Customer equipment                                      | 15,810                  | 22                                       | 123                       | 0.17%                               |
| Vandalism   | 48,107                  | 17                                       | 380                       | 0.13%                               |
| Contamination   | 5,463                   | 10                                       | 25                        | 0.08%                               |
| Fire  | 6,669                   | 8  | 50                        | 0.06%                               |
| Other utility - non-electric                            | 169,782                 | 6  | 1,154                     | 0.05%                               |
| Call error  | 3,987                   | 1  | 33                        | 0.01%                               |
| <b>Total</b>  | <b>117,374,443</b>      | <b>12,624</b>                            | <b>942,722</b>            | <b>100.00%</b>                      |

### Proposed Solutions – Penelec

Penelec analyzes its outage data to develop solutions aimed towards improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2017, and associated actions designed to address these outage causes.

To reduce the likelihood of equipment caused outages, Penelec follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

During the investigation of an outage, if the troubleshooter cannot accurately identify the cause of an outage, that outage is coded with an unknown cause. To reduce unknown outages, an outage-by-cause analysis is used to analyze and develop circuit and system reliability improvement plans. In an effort to limit the number of unknown outages and to identify the outage cause, troubleshooters are directed to continue to patrol a circuit even after service has been restored, as long as those patrols will not interfere with restoration of other customers. For certain unknown outages, engineering conducts post outage circuit inspections as needed.

To target tree outages, Penelec not only performs cycle based tree trimming which includes the proactive removal of Ash trees that have been deemed a threat due to the Emerald Ash Borer but also plans to employ additional tree trimming techniques in 2017.

Generally speaking, there are a number of other reliability projects that have been identified to help reduce the number of, and limit the duration and impact of, interruptions to customers. These include:

- **Protective devices** - Penelec continues to proactively install additional protective devices on its 34.5 kV circuits. By reviewing coordination and installing additional protective devices, fewer customers will be affected during an outage ultimately reducing Penelec's SAIFI performance. Planning and protection engineers perform a full circuit coordination study to construct and implement fuse protection and coordination recommendations. The selected circuits are based on overall performance and by the protection needs.

- **Circuit ties and loops** – In order to address customers served by radial circuits, Penelec continues its plans to build distribution ties and loops between radial sections of its circuits. This allows for circuit switching during outages and enables faster service restoration for customers.
- **Circuit rehabilitation** – Penelec continues to perform circuit rehabilitation on select circuits. Specifically, Penelec performs inspections to identify equipment replacement needs and then schedules and completes the work.
- **Installation of SCADA switches** – Penelec continues to install SCADA to provide communication with circuit breakers and line switches, which provides the ability to remotely operate the breakers or switches to reduce restoration time ultimately reducing SAIDI, SAIFI, and CAIDI indices.
- **Porcelain cutout replacement** –Penelec continues to proactively replace porcelain cutouts with polymer. Failed porcelain cutouts ultimately cause lockouts of reclosers and circuit breakers, as well as other equipment damage.
- **Customer Service Improvement (“CSI”) program** – Penelec’s CSI program provides a means to reduce frequency of outages at the customer level that might not be otherwise addressed when targeting overall system metrics. The CSI program continues to focus on customer complaints as a starting point to analyze clusters of customers that experience frequent or repeated outages. This includes a thorough review and analysis of equipment on a customer’s line by Company engineers to determine whether action is required.
- **Cap and Pin Insulator Replacement program** - Penelec’s Cap and Pin Insulator Replacement program targets the reduction of failed insulator caused outages and damage to adjacent equipment caused by failed insulators. The brown porcelain cap and pin style substation insulators are older units and are prone to failure.

Outages by Cause – Penn Power

| <b>Outage by Cause</b>                                  |                         |  |                           |                                     |
|---|-------------------------|--|---------------------------|-------------------------------------|
| <b>1<sup>st</sup> Quarter 2017<br/>12-Month Rolling</b> | <b>Penn Power</b>       |  |                           |                                     |
| <b>Cause</b>  | <b>Customer Minutes</b> | <b>Number of Sustained Interruptions</b> | <b>Customers Affected</b> | <b>% Based on Number of Outages</b> |
| Trees off ROW - tree                                    | 5,504,237               | 592                                      | 29,841                    | 18.13%                              |
| Animal  | 1,674,796               | 488                                      | 17,402                    | 14.95%                              |
| Bird  | 362,059                 | 384                                      | 5,036                     | 11.76%                              |
| Lightning   | 1,365,379               | 379                                      | 12,298                    | 11.61%                              |
| Equipment failure                                       | 2,015,759               | 304                                      | 44,576                    | 9.31%                               |
| Line failure  | 1,670,057               | 288                                      | 22,129                    | 8.82%                               |
| Trees off ROW - limb                                    | 1,233,722               | 223                                      | 7,005                     | 6.83%                               |
| Unknown   | 603,974                 | 144                                      | 8,307                     | 4.41%                               |
| Trees - sec/service                                     | 92,514                  | 126                                      | 400                       | 3.86%                               |
| Vehicle   | 2,128,759               | 93                                       | 16,025                    | 2.85%                               |
| Forced outage   | 277,991                 | 79                                       | 7,940                     | 2.42%                               |
| Previous lightning                                      | 35,204                  | 53                                       | 368                       | 1.62%                               |
| Overload  | 71,857                  | 32                                       | 1,182                     | 0.98%                               |
| Human error - non-company                               | 106,146                 | 24                                       | 1,719                     | 0.74%                               |
| UG dig-up   | 15,561                  | 10                                       | 131                       | 0.31%                               |
| Object contact with line                                | 89,276                  | 10                                       | 456                       | 0.31%                               |
| Trees on ROW  | 17,400                  | 9  | 119                       | 0.28%                               |
| Human error - company                                   | 25,872                  | 8  | 424                       | 0.25%                               |
| Fire  | 177,890                 | 5  | 1,321                     | 0.15%                               |
| Other electric utility                                  | 24,599                  | 4  | 202                       | 0.12%                               |
| Ice   | 5,814                   | 4  | 38                        | 0.12%                               |
| Other utility - non-electric                            | 846                     | 3  | 8                         | 0.09%                               |
| Customer equipment                                      | 373                     | 3  | 3                         | 0.09%                               |
| <b>Total</b>  | <b>17,500,085</b>       | <b>3,265</b>                             | <b>176,930</b>            | <b>100%</b>                         |

### Proposed Solutions – Penn Power

Penn Power analyzes its outage data to develop solutions aimed towards improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2017, and associated actions designed to address these outage causes.

To address tree outages, Penn Power performs cycle based tree trimming and enhanced tree trimming that includes the removal of a large number of trees (healthy or not) located outside of the right-of-way.

To address animal and bird caused outages, Penn Power installs animal guards on equipment that experience a high frequency of animal and bird related outages. When possible, animal guards are installed at the time service is restored to prevent future animal and bird related outages.

In addition to the I&M programs that set forth schedules for regular inspections of distribution and substation facilities and are geared towards specific components such as capacitors, poles, circuits, transformers, substations, and reclosers, there are several other reliability projects that have been identified to help reduce the number of, and limit the duration and impact of, interruptions to customers. These include:

- **Circuit ties, loops and sources** – To improve reliability by reducing long duration outages, Penn Power continues to install new distribution circuit ties and loops and add new sources which create an alternate path from which power is provided to customers affected by an outage.
- **Circuit rehabilitation** - Penn Power continues the rehabilitation of its 69kV transmission lines which includes the replacement of equipment such as poles, switches, crossarms, insulators and braces. This program targets the reduction of CAIDI and SAIDI.
- **Installation of SCADA switches** – SCADA provides communication with circuit breakers and line switches, which provides the ability to remotely operate the breakers or switches to reduce restoration time ultimately reducing SAIDI, SAIFI, and CAIDI indices.
- **URD Cable Replacement** – Penn Power’s URD Cable Replacement program targets the replacement of bare concentric neutral cable. This cable was manufactured without

an insulating jacket around the concentric neutral wires which often caused it to fail prematurely.

- **Clusters of customers** – Penn Power focuses on clusters of customers that experience frequent operations of line protection devices. This not only aims to enhance system performance, but it also provides a means to reduce frequency of outages at the customer level that might not be otherwise addressed when targeting overall system metrics.

Outages by Cause – West Penn

| <b>Outage by Cause</b>                                  |                         |  |                           |                                     |
|---|-------------------------|--|---------------------------|-------------------------------------|
| <b>1<sup>st</sup> Quarter 2017<br/>12-Month Rolling</b> | <b>West Penn</b>        |  |                           |                                     |
| <b>Cause</b>  | <b>Customer Minutes</b> | <b>Number of Sustained Interruptions</b> | <b>Customers Affected</b> | <b>% Based on Number of Outages</b> |
| Trees off ROW - tree                                    | 56,078,185              | 2,630                                    | 211,231                   | 21.96%                              |
| Equipment failure                                       | 20,953,326              | 2,372                                    | 163,875                   | 19.80%                              |
| Unknown   | 10,188,618              | 1,918                                    | 95,921                    | 16.01%                              |
| Animal  | 1,932,015               | 1,128                                    | 27,361                    | 9.42%                               |
| Line failure  | 16,065,387              | 1,096                                    | 93,401                    | 9.15%                               |
| Forced outage   | 5,314,250               | 829                                      | 88,677                    | 6.92%                               |
| Trees on ROW  | 6,550,124               | 402                                      | 30,547                    | 3.36%                               |
| Bird  | 784,461                 | 378                                      | 8,009                     | 3.16%                               |
| Trees off ROW - limb                                    | 4,793,320               | 364                                      | 29,549                    | 3.04%                               |
| Vehicle   | 8,440,118               | 317                                      | 67,703                    | 2.65%                               |
| Trees - sec/service                                     | 220,608                 | 214                                      | 741                       | 1.79%                               |
| Lightning   | 2,688,586               | 131                                      | 14,586                    | 1.09%                               |
| Human error - non-company                               | 1,110,137               | 71                                       | 12,558                    | 0.59%                               |
| UG dig-up   | 185,017                 | 33                                       | 1,872                     | 0.28%                               |
| Human error - company                                   | 116,755                 | 32                                       | 4,180                     | 0.27%                               |
| Object contact with line                                | 102,346                 | 21                                       | 1,365                     | 0.18%                               |
| Overload  | 168,476                 | 13                                       | 704                       | 0.11%                               |
| Customer equipment                                      | 101,414                 | 12                                       | 2,569                     | 0.10%                               |
| Vandalism   | 102,377                 | 5  | 379                       | 0.04%                               |
| Fire  | 152,087                 | 5  | 572                       | 0.04%                               |
| Other electric utility                                  | 221,678                 | 3  | 994                       | 0.03%                               |
| Switching error   | 111,316                 | 2  | 697                       | 0.02%                               |
| Other utility - non-electric                            | 47,972                  | 2  | 364                       | 0.02%                               |
| Wind  | 155,172                 | 1  | 145                       | 0.01%                               |
| <b>Total</b>  | <b>136,583,745</b>      | <b>11,979</b>                            | <b>858,000</b>            | <b>100.00%</b>                      |

### Proposed Solutions – West Penn

West Penn analyzes its outage data to develop solutions aimed towards improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2017, and associated actions designed to address these outage causes.

To reduce tree caused outages, West Penn performs cycle based tree trimming and continues its program to accelerate the mitigation of trees subject to damage by the Emerald Ash Borer.

To reduce the likelihood of equipment caused outages, West Penn follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

To address unknown outages, West Penn employs a root cause analysis for all circuit lockouts that includes patrols of all unknown outage causes. In addition, field personnel investigate recurring outages on specific sectionalizing devices when an unknown outage occurs.

Generally speaking, there are a number of other reliability projects that have been identified to help reduce the number of, and limit the duration and impact of, interruptions to customers. These include:

- **Protective devices** – In an effort to better ensure the adequate protection of circuits and ultimately minimize outage frequency and duration by reducing the scope of large outages, West Penn installs new fused cutouts on unprotected circuits.
- **Circuit rehabilitation** - West Penn continues to perform circuit rehabilitation on select circuits. Specifically, West Penn performs inspections to identify equipment replacement needs and then schedules and completes the work. This program focuses on strengthening zone one and zone two by identifying equipment for replacement such as poles, switches, crossarms, insulators, braces, and cutouts.
- **Enhanced rehabilitation** - West Penn targets select Worst Performing Circuits for enhanced rehabilitation which can include hardware rehabilitation, coordination review, installation of additional protective devices, or recloser installation.
- **Enhanced overcurrent protection and SCADA control** – The enhanced overcurrent protection program installs new electronic reclosers with SCADA control at targeted substations which limits the number of customers affected and allow remote switching

to restore customers more quickly. Adding SCADA control to electronic reclosers in select substations, with existing SCADA capabilities, provides additional monitoring and also allows for remote switching to restore customers at the circuit level more quickly.

- **Subtransmission modernization and automation** – The subtransmission modernization and automation program oversees the installation of SCADA controlled reclosers and switches on the subtransmission system and also includes automatic air switch modernization. To provide enhanced sectionalizing for larger blocks of customers at the substation source level, West Penn installs electronic reclosers at the substation. This enables West Penn to restore large sections of customers more quickly.
- **URD Cable Replacement** - West Penn's URD Cable Replacement program targets the replacement of bare concentric neutral cable. This cable was manufactured without an insulating jacket around the concentric neutral wires which often caused it to fail prematurely.
- **Underground getaway replacement** – The underground getaway replacement program replaced select underground substation exits which is cable that leads out of the substation to the overhead lines. These exits are also referred to as underground getaways. Specifically, this program targets underground getaways that were installed prior to 1988 and are known to be prone to failure. By replacing these getaways, West Penn will reduce the interruptions to a circuit associated with the cable as well as the long interruption times associated with the replacement.
- **Clusters of customers** - West Penn focuses on clusters of customers that experience frequent operations of line protection devices. This not only aims to enhance system performance, but it also provides a means to reduce frequency of outages at the customer level that might not be otherwise addressed when targeting overall system metrics.

*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).*

| Inspection and Maintenance<br>2017 |                                | Met-Ed  |           |       | Penelec |           |        | Penn Power                                  |           |        | West Penn                                  |           |        |
|------------------------------------|--------------------------------|---------|-----------|-------|---------|-----------|--------|---|-----------|--------|--|-----------|--------|
|                                    |                                | Planned | Completed |       | Planned | Completed |        | Planned                                     | Completed |        | Planned                                    | Completed |        |
|                                    |                                | Annual  | 1Q        | YTD   | Annual  | 1Q        | YTD    | Annual                                      | 1Q        | YTD    | Annual                                     | 1Q        | YTD    |
| <b>Forestry</b>                    | Transmission (Miles)           | 288.34  | 64.97     | 64.97 | 435.17  | 141.08    | 141.08 | 61.67                                       | 25.24     | 25.24  | 301.88                                     | 40.18     | 40.18  |
|                                    | Distribution (Miles)           | 2,895   | 451       | 451   | 3,792   | 530       | 530    | 1,187                                       | 224       | 224    | 4,589                                      | 936       | 936    |
| <b>Transmission</b>                | Aerial Patrols                 | 2       | 0         | 0     | 2       | 0         | 0      | 2   | 0         | 0      | 2  | 0         | 0      |
|                                    | Groundline                     | 0       | 0         | 0     | 1,863   | 0         | 0      | 680   | 0         | 0      | 1,076                                      | 0         | 0      |
| <b>Substation</b>                  | Substation Inspections Class A | 422     | 211       | 211   | 800     | 400       | 400    | 146   | 73        | 73     | 970  | 486       | 486    |
|                                    | Substation Inspections Class B | 422     | 0         | 0     | 800     | 0         | 0      | 146   | 0         | 0      | 970  | 2         | 2      |
|                                    | Substation Inspections Class C | 1,688   | 422       | 422   | 3,200   | 800       | 800    | 584   | 146       | 146    | 3,880                                      | 976       | 976    |
|                                    | Transformers                   | 246     | 30        | 30    | 553     | 251       | 251    | 107   | 16        | 16     | 517  | 175       | 175    |
|                                    | Breakers                       | 110     | 25        | 25    | 272     | 48        | 48     | 25  | 0         | 0      | 402  | 32        | 32     |
|                                    | Relay Schemes                  | 270     | 123       | 123   | 300     | 104       | 104    | 45  | 0         | 0      | 160  | 50        | 50     |
| <b>Distribution</b>                | Capacitors                     | 4,754   | 4,754     | 4,754 | 8,766   | 8,766     | 8,766  | 991   | 991       | 991    | 1,308                                      | 1,308     | 1,308  |
|                                    | Poles                          | 29,514  | 0         | 0     | 41,591  | 32,147    | 32,147 | 10,600                                      | 10,833    | 10,833 | 32,856                                     | 15,350    | 15,350 |
|                                    | Reclosers                      | 1,100   | 738       | 738   | 2,569   | 0         | 0      | 814   | 815       | 815    | 3,798                                      | 2,175     | 2,175  |
|                                    | Radio-Controlled Switches      | 446     | 7         | 7     | 2,578   | 219       | 219    | Penn Power has no radio-controlled switches |           |        | West Penn has no radio-controlled switches |           |        |

General Note: Unless specified otherwise, all inspections are reported on a unit basis rather than on a location basis.

*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 as available. (For first, second and third quarter reports only).*

*Budgeted vs. Actual T&D Operation & Maintenance Expenditures<sup>11</sup>*

| <b>Met-Ed</b>                                   |   |                   |                   |                   |                   |                   |
|---|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>T&amp;D O&amp;M - 1Q/YTD March 2017 (\$)</b> |   |                   |                   |                   |                   |                   |
| <b>Transmission</b>                             |   |                   |                   |                   |                   |                   |
| Category  | IQ Actuals  | IQ Budget         | YTD Actuals       | YTD Budget        | Annual Budget     |                   |
| 560   | Operation Supervision and Engineering                   | 1,866             | 0                 | 1,866             | 0                 | 0                 |
| 561   | Load Dispatching  | 45,855            | 161,765           | 45,855            | 161,765           | 647,058           |
| 562   | Station Expenses  | 133,523           | 0                 | 133,523           | 0                 | 0                 |
| 563   | Overhead Lines Expenses                                 | 46,359            | 14,447            | 46,359            | 14,447            | 33,112            |
| 565   | Transmission of Electricity by Others                   | 3,248,282         | 2,258,312         | 3,248,282         | 2,258,312         | 9,193,248         |
| 566   | Miscellaneous Transmission Expenses                     | 2,548             | (1,088)           | 2,548             | (1,088)           | (5,372)           |
| 567   | Rents   | 96,658            | 0                 | 96,658            | 0                 | 0                 |
| 568   | Maintenance Supervision and Engineering                 | 86,761            | 0                 | 86,761            | 0                 | 0                 |
| 569   | Maintenance of Structures                               | 63,250            | 64,599            | 63,250            | 64,599            | 294,556           |
| 570   | Maintenance of Station Equipment                        | 520,759           | 1,021             | 520,759           | 1,021             | 4,085             |
| 571   | Maintenance of Overhead Lines                           | 274,144           | (62,822)          | 274,144           | (62,822)          | (62,822)          |
| 572   | Maintenance of Underground Lines                        | 0                 | 0                 | 0                 | 0                 | 0                 |
| 573   | Maintenance of Miscellaneous Transmission Plant         | 28,119            | 0                 | 28,119            | 0                 | 0                 |
| 575   | Market Administration, Monitoring & Compliance Services | 0                 | 0                 | 0                 | 0                 | 0                 |
| <b>Transmission Total</b>                       |   | <b>4,548,123</b>  | <b>2,436,234</b>  | <b>4,548,123</b>  | <b>2,436,234</b>  | <b>10,103,865</b> |
| <b>Distribution</b>                             |   |                   |                   |                   |                   |                   |
| Category  | IQ Actuals  | IQ Budget         | YTD Actuals       | YTD Budget        | Annual Budget     |                   |
| 580   | Operation Supervision and Engineering                   | 64,224            | (10,880)          | 64,224            | (10,880)          | (46,673)          |
| 581   | Load Dispatching  | 58,147            | 62,763            | 58,147            | 62,763            | 284,556           |
| 582   | Station Expenses  | 87,272            | 163,362           | 87,272            | 163,362           | 673,558           |
| 583   | Overhead Line Expenses                                  | 38,424            | 26,435            | 38,424            | 26,435            | 60,277            |
| 584   | Underground Line Expenses                               | 0                 | 144,119           | 0                 | 144,119           | 576,477           |
| 585   | Distribution-Street Lighting & Signal System Expenses   | 0                 | 0                 | 0                 | 0                 | 0                 |
| 586   | Meter Expenses  | 171,674           | 133,309           | 171,674           | 133,309           | 610,230           |
| 587   | Customer Installations Expenses                         | 0                 | 0                 | 0                 | 0                 | 0                 |
| 588   | Miscellaneous Distribution Expenses                     | 1,613,907         | 1,777,840         | 1,613,907         | 1,777,840         | 7,536,853         |
| 589   | Rents   | 167,291           | 135,218           | 167,291           | 135,218           | 540,873           |
| 590   | Maintenance Supervision and Engineering                 | 69,613            | 50,758            | 69,613            | 50,758            | 229,486           |
| 591   | Maintenance of Structures                               | 1,243             | 2,194             | 1,243             | 2,194             | 9,197             |
| 592   | Maintenance of Station Equipment                        | 789,027           | 1,040,724         | 789,027           | 1,040,724         | 4,721,647         |
| 593   | Maintenance of Overhead Lines                           | 6,752,649         | 5,931,835         | 6,752,649         | 5,931,835         | 23,963,410        |
| 594   | Maintenance of Underground Lines                        | 373,585           | 308,775           | 373,585           | 308,775           | 1,269,502         |
| 595   | Maintenance Line Transformer                            | 59,869            | 67,368            | 59,869            | 67,368            | 269,474           |
| 596   | Maintenance of Street Lighting and Signal Systems       | 187,877           | 62,996            | 187,877           | 62,996            | 257,830           |
| 597   | Maintenance of Meters                                   | 467,196           | 484,157           | 467,196           | 484,157           | 2,214,148         |
| 598   | Maintenance of Miscellaneous Distribution Plant         | 445,377           | 130,428           | 445,377           | 130,428           | 721,416           |
| <b>Distribution Total</b>                       |   | <b>11,347,375</b> | <b>10,511,400</b> | <b>11,347,375</b> | <b>10,511,400</b> | <b>43,892,259</b> |
| <b>Met-Ed Total</b>                             |   | <b>15,895,498</b> | <b>12,947,634</b> | <b>15,895,498</b> | <b>12,947,634</b> | <b>53,996,125</b> |

<sup>11</sup> Budgets are subject to change.

| <b>Penelec</b>                                  |   |                   |                   |                    |                   |                      |
|---|---|-------------------|-------------------|--------------------|-------------------|----------------------|
| <b>T&amp;D O&amp;M - 1Q/YTD March 2017 (\$)</b> |   |                   |                   |                    |                   |                      |
| <b>Transmission</b>                             |   |                   |                   |                    |                   |                      |
| <b>Category</b>                                 |   | <b>1Q Actuals</b> | <b>1Q Budget</b>  | <b>YTD Actuals</b> | <b>YTD Budget</b> | <b>Annual Budget</b> |
| 560   | Operation Supervision and Engineering                   | 2,595             | 0                 | 2,595              | 0                 | 0                    |
| 561   | Load Dispatching  | 31,572            | 115,255           | 31,572             | 115,255           | 461,019              |
| 562   | Station Expenses  | 101,621           | 0                 | 101,621            | 0                 | 0                    |
| 563   | Overhead Lines Expenses                                 | 287,956           | 276,436           | 287,956            | 276,436           | 355,969              |
| 565   | Transmission of Electricity by Others                   | 6,163,766         | 5,394,739         | 6,163,766          | 5,394,739         | 21,918,956           |
| 566   | Miscellaneous Transmission Expenses                     | (7,794)           | 0                 | (7,794)            | 0                 | 0                    |
| 567   | Rents   | 428,111           | 28,674            | 428,111            | 28,674            | 167,963              |
| 568   | Maintenance Supervision and Engineering                 | 125,725           | 0                 | 125,725            | 0                 | 0                    |
| 569   | Maintenance of Structures                               | 97,360            | 69,791            | 97,360             | 69,791            | 319,134              |
| 570   | Maintenance of Station Equipment                        | 554,698           | 14,999            | 554,698            | 14,999            | 60,000               |
| 571   | Maintenance of Overhead Lines                           | 732,205           | (164,227)         | 732,205            | (164,227)         | (140,573)            |
| 572   | Maintenance of Underground Lines                        | 0                 | 0                 | 0                  | 0                 | 0                    |
| 573   | Maintenance of Miscellaneous Transmission Plant         | 359               | 0                 | 359                | 0                 | 0                    |
| 575   | Market Administration, Monitoring & Compliance Services | 0                 | 0                 | 0                  | 0                 | 0                    |
| <b>Transmission Total</b>                       |   | <b>8,518,174</b>  | <b>5,735,667</b>  | <b>8,518,174</b>   | <b>5,735,667</b>  | <b>23,142,469</b>    |
| <b>Distribution</b>                             |   |                   |                   |                    |                   |                      |
| <b>Category</b>                                 |   | <b>1Q Actuals</b> | <b>1Q Budget</b>  | <b>YTD Actuals</b> | <b>YTD Budget</b> | <b>Annual Budget</b> |
| 580   | Operation Supervision and Engineering                   | 86,653            | 105,038           | 86,653             | 105,038           | 427,025              |
| 581   | Load Dispatching  | 88,840            | 49,222            | 88,840             | 49,222            | 219,806              |
| 582   | Station Expenses  | 95,282            | 0                 | 95,282             | 0                 | 0                    |
| 583   | Overhead Line Expenses                                  | 18,740            | 15,163            | 18,740             | 15,163            | 52,827               |
| 584   | Underground Line Expenses                               | 153,035           | 111,190           | 153,035            | 111,190           | 779,118              |
| 585   | Distribution-Street Lighting & Signal System Expenses   | 0                 | 0                 | 0                  | 0                 | 0                    |
| 586   | Meter Expenses  | 165,806           | 145,869           | 165,806            | 145,869           | 616,163              |
| 587   | Customer Installations Expenses                         | 0                 | 0                 | 0                  | 0                 | 0                    |
| 588   | Miscellaneous Distribution Expenses                     | 2,402,708         | 2,631,048         | 2,402,708          | 2,631,048         | 11,351,893           |
| 589   | Rents   | 406,984           | 282,929           | 406,984            | 282,929           | 1,131,717            |
| 590   | Maintenance Supervision and Engineering                 | 80,877            | 58,643            | 80,877             | 58,643            | 264,742              |
| 591   | Maintenance of Structures                               | 0                 | 0                 | 0                  | 0                 | 0                    |
| 592   | Maintenance of Station Equipment                        | 1,166,225         | 1,287,654         | 1,166,225          | 1,287,654         | 5,306,478            |
| 593   | Maintenance of Overhead Lines                           | 7,759,588         | 4,960,267         | 7,759,588          | 4,960,267         | 23,361,832           |
| 594   | Maintenance of Underground Lines                        | 283,748           | (8,661)           | 283,748            | (8,661)           | 69,502               |
| 595   | Maintenance Line Transformer                            | 52,316            | 58,860            | 52,316             | 58,860            | 235,441              |
| 596   | Maintenance of Street Lighting and Signal Systems       | 279,434           | 515,404           | 279,434            | 515,404           | 2,200,704            |
| 597   | Maintenance of Meters                                   | 570,038           | 639,262           | 570,038            | 639,262           | 2,569,856            |
| 598   | Maintenance of Miscellaneous Distribution Plant         | 464,188           | 13,605            | 464,188            | 13,605            | 141,458              |
| <b>Distribution Total</b>                       |   | <b>14,074,460</b> | <b>10,865,493</b> | <b>14,074,460</b>  | <b>10,865,493</b> | <b>48,728,562</b>    |
| <b>Penelec Total</b>                            |   | <b>22,592,634</b> | <b>16,601,160</b> | <b>22,592,634</b>  | <b>16,601,160</b> | <b>71,871,031</b>    |

| <b>Penn Power</b>                               |   |                   |                  |                    |                   |                      |
|---|---|-------------------|------------------|--------------------|-------------------|----------------------|
| <b>T&amp;D O&amp;M - 1Q/YTD March 2017 (\$)</b> |   |                   |                  |                    |                   |                      |
| <b>Transmission</b>                             |   |                   |                  |                    |                   |                      |
| <b>Category</b>                                 |   | <b>1Q Actuals</b> | <b>1Q Budget</b> | <b>YTD Actuals</b> | <b>YTD Budget</b> | <b>Annual Budget</b> |
| 560   | Operation Supervision and Engineering                   | 364               | 477              | 364                | 477               | 2,131                |
| 561   | Load Dispatching  | 1,624             | 32,128           | 1,624              | 32,128            | 129,496              |
| 562   | Station Expenses  | 0                 | (36)             | 0                  | (36)              | (188)                |
| 563   | Overhead Lines Expenses                                 | 0                 | (63)             | 0                  | (63)              | (327)                |
| 565   | Transmission of Electricity by Others                   | 1,420,949         | 1,222,415        | 1,420,949          | 1,222,415         | 4,974,660            |
| 566   | Miscellaneous Transmission Expenses                     | 1,380             | 826              | 1,380              | 826               | 3,312                |
| 567   | Rents   | 0                 | 0                | 0                  | 0                 | 0                    |
| 568   | Maintenance Supervision and Engineering                 | 2,830             | 3,509            | 2,830              | 3,509             | 15,945               |
| 569   | Maintenance of Structures                               | 6,886             | 6,652            | 6,886              | 6,652             | 31,967               |
| 570   | Maintenance of Station Equipment                        | 1,242             | 762              | 1,242              | 762               | 3,047                |
| 571   | Maintenance of Overhead Lines                           | (1,755)           | (13,356)         | (1,755)            | (13,356)          | (113,596)            |
| 572   | Maintenance of Underground Lines                        | 0                 | 0                | 0                  | 0                 | 0                    |
| 573   | Maintenance of Miscellaneous Transmission Plant         | 333               | 0                | 333                | 0                 | 0                    |
| 575   | Market Administration, Monitoring & Compliance Services | 0                 | 0                | 0                  | 0                 | 0                    |
| <b>Transmission Total</b>                       |   | <b>1,433,854</b>  | <b>1,253,314</b> | <b>1,433,854</b>   | <b>1,253,314</b>  | <b>5,046,448</b>     |
| <b>Distribution</b>                             |   |                   |                  |                    |                   |                      |
| <b>Category</b>                                 |   | <b>1Q Actuals</b> | <b>1Q Budget</b> | <b>YTD Actuals</b> | <b>YTD Budget</b> | <b>Annual Budget</b> |
| 580   | Operation Supervision and Engineering                   | 601               | 0                | 601                | 0                 | 0                    |
| 581   | Load Dispatching  | 0                 | 0                | 0                  | 0                 | 0                    |
| 582   | Station Expenses  | 10,111            | 0                | 10,111             | 0                 | 0                    |
| 583   | Overhead Line Expenses                                  | 93,194            | 0                | 93,194             | 0                 | 0                    |
| 584   | Underground Line Expenses                               | 31,503            | 131,883          | 31,503             | 131,883           | 527,329              |
| 586   | Meter Expenses  | 15,632            | 15,407           | 15,632             | 15,407            | 65,503               |
| 587   | Customer Installations Expenses                         | 0                 | 0                | 0                  | 0                 | 0                    |
| 588   | Miscellaneous Distribution Expenses                     | 485,055           | 381,574          | 485,055            | 381,574           | 1,675,198            |
| 589   | Rents   | 86,808            | 79,747           | 86,808             | 79,747            | 318,986              |
| 590   | Maintenance Supervision and Engineering                 | 16,920            | 11,638           | 16,920             | 11,638            | 51,223               |
| 591   | Maintenance of Structures                               | 0                 | 0                | 0                  | 0                 | 0                    |
| 592   | Maintenance of Station Equipment                        | 189,042           | 100,259          | 189,042            | 100,259           | 422,770              |
| 593   | Maintenance of Overhead Lines                           | 3,011,105         | 2,505,036        | 3,011,105          | 2,505,036         | 10,587,759           |
| 594   | Maintenance of Underground Lines                        | 48,098            | 9,285            | 48,098             | 9,285             | 39,446               |
| 595   | Maintenance Line Transformer                            | 6,001             | 12,251           | 6,001              | 12,251            | 49,005               |
| 596   | Maintenance of Street Lighting and Signal Systems       | 16,250            | 0                | 16,250             | 0                 | 0                    |
| 597   | Maintenance of Meters                                   | 174,122           | 139,021          | 174,122            | 139,021           | 569,682              |
| 598   | Maintenance of Miscellaneous Distribution Plant         | 90,329            | 94,597           | 90,329             | 94,597            | 429,707              |
| <b>Distribution Total</b>                       |   | <b>4,274,771</b>  | <b>3,480,697</b> | <b>4,274,771</b>   | <b>3,480,697</b>  | <b>14,736,609</b>    |
| <b>Penn Power Total</b>                         |   | <b>5,708,625</b>  | <b>4,734,011</b> | <b>5,708,625</b>   | <b>4,734,011</b>  | <b>19,783,057</b>    |

| West Penn<br>T&D O&M - IQ/YTD March 2017 (\$) |   |                   |                   |                   |                   |                    |
|---|---|-------------------|-------------------|-------------------|-------------------|--------------------|
| Transmission                                  |   |                   |                   |                   |                   |                    |
| Category                                      | IQ Actuals  | IQ Budget         | YTD Actuals       | YTD Budget        | Annual Budget     |                    |
| 560   | Operation Supervision and Engineering                   | 9,247             | 6,506             | 9,247             | 6,506             | 28,019             |
| 561   | Load Dispatching  | 165,206           | 457,361           | 165,206           | 457,361           | 1,909,320          |
| 562   | Station Expenses  | 76,471            | 144,972           | 76,471            | 144,972           | 564,078            |
| 563   | Overhead Lines Expenses                                 | 80,901            | 51,267            | 80,901            | 51,267            | 232,165            |
| 565   | Transmission of Electricity by Others                   | 16,223,538        | 13,985,302        | 16,223,538        | 13,985,302        | 56,410,511         |
| 566   | Miscellaneous Transmission Expenses                     | 59,556            | 47,192            | 59,556            | 47,192            | 263,677            |
| 567   | Rents   | 29,705            | 6,810             | 29,705            | 6,810             | 27,242             |
| 568   | Maintenance Supervision and Engineering                 | 136,911           | 94,715            | 136,911           | 94,715            | 433,877            |
| 569   | Maintenance of Structures                               | 7,597             | 3,439             | 7,597             | 3,439             | 25,424             |
| 570   | Maintenance of Station Equipment                        | 482,444           | 308,559           | 482,444           | 308,559           | 1,368,824          |
| 571   | Maintenance of Overhead Lines                           | 1,731,118         | 1,384,338         | 1,731,118         | 1,384,338         | 8,314,564          |
| 572   | Maintenance of Underground Lines                        | 283               | 0                 | 283               | 0                 | 0                  |
| 573   | Maintenance of Miscellaneous Transmission Plant         | 0                 | 0                 | 0                 | 0                 | 0                  |
| 575   | Market Administration, Monitoring & Compliance Services | 8                 | 0                 | 8                 | 0                 | 0                  |
| <b>Transmission Total</b>                     |   | <b>19,002,985</b> | <b>16,490,462</b> | <b>19,002,985</b> | <b>16,490,462</b> | <b>69,577,701</b>  |
| Distribution                                  |   |                   |                   |                   |                   |                    |
| Category                                      | IQ Actuals  | IQ Budget         | YTD Actuals       | YTD Budget        | Annual Budget     |                    |
| 580   | Operation Supervision and Engineering                   | 41,460            | 21,237            | 41,460            | 21,237            | 91,738             |
| 581   | Load Dispatching  | 382,855           | 418,092           | 382,855           | 418,092           | 1,570,708          |
| 582   | Station Expenses  | 291,564           | 385,037           | 291,564           | 385,037           | 1,321,663          |
| 583   | Overhead Line Expenses                                  | 474,728           | 373,339           | 474,728           | 373,339           | 938,409            |
| 584   | Underground Line Expenses                               | 211,463           | 210,000           | 211,463           | 210,000           | 1,125,000          |
| 586   | Meter Expenses  | 244,704           | 374,970           | 244,704           | 374,970           | 1,679,034          |
| 587   | Customer Installations Expenses                         | 0                 | 0                 | 0                 | 0                 | 0                  |
| 588   | Miscellaneous Distribution Expenses                     | 3,488,920         | 3,805,883         | 3,488,920         | 3,805,883         | 14,532,066         |
| 589   | Rents   | 0                 | 0                 | 0                 | 0                 | 0                  |
| 590   | Maintenance Supervision and Engineering                 | 88,336            | 89,912            | 88,336            | 89,912            | 403,423            |
| 591   | Maintenance of Structures                               | 0                 | 0                 | 0                 | 0                 | 0                  |
| 592   | Maintenance of Station Equipment                        | 1,447,644         | 1,535,746         | 1,447,644         | 1,535,746         | 6,416,604          |
| 593   | Maintenance of Overhead Lines                           | 7,729,416         | 5,858,465         | 7,729,416         | 5,858,465         | 27,322,843         |
| 594   | Maintenance of Underground Lines                        | 264,666           | 251,352           | 264,666           | 251,352           | 679,004            |
| 595   | Maintenance Line Transformer                            | 25,245            | 63,028            | 25,245            | 63,028            | 252,110            |
| 596   | Maintenance of Street Lighting and Signal Systems       | 338,601           | 200,276           | 338,601           | 200,276           | 841,835            |
| 597   | Maintenance of Meters                                   | 284,596           | 295,148           | 284,596           | 295,148           | 1,243,835          |
| 598   | Maintenance of Miscellaneous Distribution Plant         | 49,396            | 54,029            | 49,396            | 54,029            | 285,821            |
| <b>Distribution Total</b>                     |   | <b>15,363,596</b> | <b>13,936,512</b> | <b>15,363,596</b> | <b>13,936,512</b> | <b>58,704,092</b>  |
| <b>West Penn Total</b>                        |   | <b>34,366,581</b> | <b>30,426,975</b> | <b>34,366,581</b> | <b>30,426,975</b> | <b>128,281,793</b> |

*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).*

*Budgeted vs. Actual T&D Capital Expenditures<sup>12, 13</sup>*

| <b>Met-Ed</b>                                   |                   |                   |                       |                      |                      |
|---|-------------------|-------------------|-----------------------|----------------------|----------------------|
| <b>T&amp;D Capital - 1Q/YTD March 2017 (\$)</b> |                   |                   |                       |                      |                      |
| <b>Category</b>                                 | <b>1Q Actuals</b> | <b>1Q Budget</b>  | <b>1Q YTD Actuals</b> | <b>1Q YTD Budget</b> | <b>Annual Budget</b> |
| Capacity  | 2,717,183         | 2,138,913         | 2,717,183             | 2,138,913            | 12,234,579           |
| Condition                                       | 2,561,485         | 3,400,254         | 2,561,485             | 3,400,254            | 13,651,818           |
| Facilities                                      | 335,028           | 170,405           | 335,028               | 170,405              | 2,234,386            |
| Forced  | 7,857,662         | 7,584,697         | 7,857,662             | 7,584,697            | 31,979,369           |
| Meter Related                                   | 715,889           | 725,568           | 715,889               | 725,568              | 2,915,732            |
| New Business                                    | 3,548,498         | 3,395,856         | 3,548,498             | 3,395,856            | 13,631,743           |
| Other   | 12,758,573        | 11,872,063        | 12,758,573            | 11,872,063           | 38,413,081           |
| Reliability                                     | 1,926,203         | 2,340,125         | 1,926,203             | 2,340,125            | 8,844,156            |
| Street Light                                    | 241,996           | 900,098           | 241,996               | 900,098              | 3,657,218            |
| Tools & Equipment                               | 205,812           | 68,198            | 205,812               | 68,198               | 368,064              |
| Vegetation Management                           | 1,095,653         | 1,735,064         | 1,095,653             | 1,735,064            | 6,963,021            |
| <b>Met-Ed Total</b>                             | <b>33,963,981</b> | <b>34,331,240</b> | <b>33,963,981</b>     | <b>34,331,240</b>    | <b>134,893,168</b>   |

| <b>Penelec</b>                                  |                   |                   |                       |                      |                      |
|---|-------------------|-------------------|-----------------------|----------------------|----------------------|
| <b>T&amp;D Capital - 1Q/YTD March 2017 (\$)</b> |                   |                   |                       |                      |                      |
| <b>Category</b>                                 | <b>1Q Actuals</b> | <b>1Q Budget</b>  | <b>1Q YTD Actuals</b> | <b>1Q YTD Budget</b> | <b>Annual Budget</b> |
| Capacity <sup>14</sup>                          | (1,612,736)       | 1,811,442         | (1,612,736)           | 1,811,442            | 8,849,826            |
| Condition                                       | 1,830,142         | 2,042,567         | 1,830,142             | 2,042,567            | 9,099,508            |
| Facilities                                      | 474,752           | 261,807           | 474,752               | 261,807              | 3,996,302            |
| Forced  | 9,737,317         | 10,605,254        | 9,737,317             | 10,605,254           | 54,075,329           |
| Meter Related                                   | 485,288           | 1,063,268         | 485,288               | 1,063,268            | 4,328,578            |
| New Business                                    | 2,887,923         | 2,386,959         | 2,887,923             | 2,386,959            | 9,706,256            |
| Other   | 11,104,814        | 11,557,753        | 11,104,814            | 11,557,753           | 45,849,832           |
| Reliability                                     | 4,120,850         | 1,875,575         | 4,120,850             | 1,875,575            | 8,682,198            |
| Street Light                                    | 558,484           | 412,946           | 558,484               | 412,946              | 1,677,133            |
| Tools & Equipment                               | 155,602           | 110,572           | 155,602               | 110,572              | 531,684              |
| Vegetation Management                           | 3,850,817         | 5,394,407         | 3,850,817             | 5,394,407            | 22,031,962           |
| <b>Penelec Total</b>                            | <b>33,593,251</b> | <b>37,522,550</b> | <b>33,593,251</b>     | <b>37,522,550</b>    | <b>168,828,609</b>   |

<sup>12</sup> Budgets are subject to change.

<sup>13</sup> General note: Capital reported on Generally Accepted Accounting Principles (GAAP) basis.

<sup>14</sup> Penelec's 1Q and YTD actuals reflect a credit that was recorded to reimburse Penelec for costs incurred in 2016.

| <b>Penn Power</b>                               |                   |                   |                       |                      |                      |
|---|-------------------|-------------------|-----------------------|----------------------|----------------------|
| <b>T&amp;D Capital – IQ/YTD March 2017 (\$)</b> |                   |                   |                       |                      |                      |
| <b>Category</b>                                 | <b>1Q Actuals</b> | <b>1Q Budget</b>  | <b>1Q YTD Actuals</b> | <b>1Q YTD Budget</b> | <b>Annual Budget</b> |
| Capacity  | 470,925           | 1,535,838         | 470,925               | 1,535,838            | 3,344,902            |
| Condition                                       | 449,052           | 1,013,273         | 449,052               | 1,013,273            | 5,130,764            |
| Facilities                                      | 407,769           | 319,046           | 407,769               | 319,046              | 319,077              |
| Forced  | 4,278,133         | 1,934,174         | 4,278,133             | 1,934,174            | 10,123,480           |
| Meter Related                                   | 91,307            | 84,073            | 91,307                | 84,073               | 344,211              |
| New Business                                    | 1,007,100         | 414,532           | 1,007,100             | 414,532              | 1,460,104            |
| Other   | 2,346,493         | 3,563,980         | 2,346,493             | 3,563,980            | 12,007,035           |
| Reliability                                     | 1,391,379         | 1,617,002         | 1,391,379             | 1,617,002            | 11,326,433           |
| Street Light                                    | 216,504           | 355,316           | 216,504               | 355,316              | 1,361,986            |
| Tools & Equipment                               | 26,685            | 3,573             | 26,685                | 3,573                | 25,275               |
| Vegetation Management                           | 795,709           | 891,992           | 795,709               | 891,992              | 3,581,290            |
| <b>Penn Power Total</b>                         | <b>11,481,054</b> | <b>11,732,799</b> | <b>11,481,054</b>     | <b>11,732,799</b>    | <b>49,024,556</b>    |

| <b>West Penn</b>                                |                   |                   |                       |                      |                      |
|---|-------------------|-------------------|-----------------------|----------------------|----------------------|
| <b>T&amp;D Capital – IQ/YTD March 2017 (\$)</b> |                   |                   |                       |                      |                      |
| <b>Category</b>                                 | <b>1Q Actuals</b> | <b>1Q Budget</b>  | <b>1Q YTD Actuals</b> | <b>1Q YTD Budget</b> | <b>Annual Budget</b> |
| Capacity  | 419,415           | 2,922,860         | 419,415               | 2,922,860            | 10,423,339           |
| Condition                                       | 3,427,176         | 2,423,495         | 3,427,176             | 2,423,495            | 12,595,548           |
| Facilities                                      | 433,036           | 221,568           | 433,036               | 221,568              | 4,040,053            |
| Forced  | 7,920,541         | 5,916,558         | 7,920,541             | 5,916,558            | 25,147,542           |
| Meter Related                                   | 671,625           | 716,660           | 671,625               | 716,660              | 2,902,668            |
| New Business                                    | 4,891,174         | 6,835,971         | 4,891,174             | 6,835,971            | 25,816,980           |
| Other   | 7,852,255         | 7,641,712         | 7,852,255             | 7,641,712            | 50,392,586           |
| Reliability                                     | 3,710,237         | 2,902,183         | 3,710,237             | 2,902,183            | 31,804,963           |
| Street Light                                    | 2,217,809         | 2,567,454         | 2,217,809             | 2,567,454            | 11,119,986           |
| Tools & Equipment                               | 789,621           | 383,323           | 789,621               | 383,323              | 1,956,383            |
| Vegetation Management                           | 7,009,720         | 7,111,166         | 7,009,720             | 7,111,166            | 29,255,825           |
| <b>West Penn Total</b>                          | <b>39,342,610</b> | <b>39,642,951</b> | <b>39,342,610</b>     | <b>39,642,951</b>    | <b>205,455,873</b>   |

*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 (for example, linemen, technician, and electrician).<sup>15</sup>*

*Staffing Levels*

| Met-Ed 2017  |                     |                |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|--------------|---------------------|----------------|----|----|----|------------------------|------------------------|---------------------|-----------------------|----------------------|---------------------|------------------------------------|
| Department   | Position            | Staffing Level |    |    |    | Staff Added in Quarter |                        |                     | Staff Lost in Quarter |                      |                     | Plan to Hire in 2018 <sup>18</sup> |
|              |                     | 1Q             | 2Q | 3Q | 4Q | New Hire – Experienced | New Hire – PSI Student | Other <sup>16</sup> | Retirement            | Voluntary Separation | Other <sup>17</sup> |                                    |
| Distribution | Line Leader         | 53             |    |    |    |                        |                        | 1                   |                       |                      |                     |                                    |
|              | Line Troubleshooter | 30             |    |    |    |                        |                        | 1                   |                       | 1                    |                     |                                    |
|              | Lineman             | 115            |    |    |    |                        |                        | 5                   | 1                     |                      | 7                   |                                    |
| Substation   | Substation Leader   | 16             |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|              | Substation Employee | 49             |    |    |    |                        |                        | 1                   | 1                     |                      | 1                   |                                    |
| Transmission | Line Leader         | 1              |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|              | Lineman             | 6              |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|              | <b>Total</b>        | <b>270</b>     |    |    |    |                        |                        | <b>8</b>            | <b>2</b>              | <b>1</b>             | <b>8</b>            |                                    |

<sup>15</sup> As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A) (5): FirstEnergy is directed to provide additional detail as described below in the staff reporting section in the Quarterly Reliability Reports. For each staff member added, provide information on whether they were a new hire, if they are already at the journeyman, or other experienced level of training. For each staff member lost, provide the reason for the loss (retirement, voluntary separation, etc.). The number of staff in each category that the Company is planning to hire in the next calendar year.

<sup>16</sup> Includes transfers, promotions, and promotions within a position.

<sup>17</sup> Includes transfers, involuntary separations, promotions, and promotions within a position.

<sup>18</sup> Hiring plan to be provided annually in the 4Q report.

| Penelec 2017 |                     |                |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|--------------|---------------------|----------------|----|----|----|------------------------|------------------------|---------------------|-----------------------|----------------------|---------------------|------------------------------------|
| Department   | Position            | Staffing Level |    |    |    | Staff Added in Quarter |                        |                     | Staff Lost in Quarter |                      |                     | Plan to Hire in 2018 <sup>21</sup> |
|              |                     | 1Q             | 2Q | 3Q | 4Q | New Hire – Experienced | New Hire – PSI Student | Other <sup>19</sup> | Retirement            | Voluntary Separation | Other <sup>20</sup> |                                    |
| Distribution | Line Leader         | 77             |    |    |    |                        |                        | 1                   |                       |                      | 4                   |                                    |
|              | Line Troubleshooter | 63             |    |    |    |                        |                        | 2                   |                       |                      | 1                   |                                    |
|              | Lineman             | 94             |    |    |    |                        |                        |                     | 1                     | 1                    |                     |                                    |
| Substation   | Substation Leader   | 30             |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|              | Substation Employee | 35             |    |    |    |                        |                        | 1                   |                       |                      |                     |                                    |
| Transmission | Line Leader         | 2              |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|              | Lineman             | 4              |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|              | <b>Total</b>        | <b>305</b>     |    |    |    |                        |                        | <b>4</b>            | <b>1</b>              | <b>1</b>             | <b>5</b>            |                                    |

<sup>19</sup> Includes transfers, promotions, and promotions within a position.

<sup>20</sup> Includes transfers, involuntary separations, promotions, and promotions within a position.

<sup>21</sup> Hiring plan to be provided annually in the 4Q report.

| Penn Power 2017 |                     |           |    |    |                        |                        |                        |                       |            |                      |                                    |                     |
|-----------------|---------------------|-----------|----|----|------------------------|------------------------|------------------------|-----------------------|------------|----------------------|------------------------------------|---------------------|
| Staffing Level  |                     |           |    |    | Staff Added in Quarter |                        |                        | Staff Lost in Quarter |            |                      | Plan to Hire in 2018 <sup>24</sup> |                     |
| Department      | Position            | 1Q        | 2Q | 3Q | 4Q                     | New Hire – Experienced | New Hire – PSI Student | Other <sup>22</sup>   | Retirement | Voluntary Separation |                                    | Other <sup>23</sup> |
| Distribution    | Line Leader         | 23        |    |    |                        |                        |                        | 2                     | 3          |                      | 2                                  |                     |
|                 | Line Troubleshooter | 8         |    |    |                        |                        |                        | 1                     | 1          |                      |                                    |                     |
|                 | Lineman             | 40        |    |    |                        |                        |                        | 3                     | 1          |                      | 4                                  |                     |
| Substation      | Substation Leader   | 4         |    |    |                        |                        |                        |                       |            |                      |                                    |                     |
|                 | Substation Employee | 14        |    |    |                        |                        |                        |                       |            |                      |                                    |                     |
| Transmission    | Line Leader         | 1         |    |    |                        |                        |                        |                       |            |                      |                                    |                     |
|                 | Lineman             | 4         |    |    |                        |                        |                        |                       |            |                      |                                    |                     |
|                 | <b>Total</b>        | <b>94</b> |    |    |                        |                        |                        | <b>6</b>              | <b>5</b>   |                      | <b>6</b>                           |                     |

<sup>22</sup> Includes transfers, promotions, and promotions within a position.

<sup>23</sup> Includes transfers, involuntary separations, promotions, and promotions within a position.

<sup>24</sup> Hiring plan to be provided annually in the 4Q report.

| West Penn 2017 |                     |                |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|----------------|---------------------|----------------|----|----|----|------------------------|------------------------|---------------------|-----------------------|----------------------|---------------------|------------------------------------|
| Department     | Position            | Staffing Level |    |    |    | Staff Added in Quarter |                        |                     | Staff Lost in Quarter |                      |                     | Plan to Hire in 2018 <sup>27</sup> |
|                |                     | 1Q             | 2Q | 3Q | 4Q | New Hire – Experienced | New Hire – PSI Student | Other <sup>25</sup> | Retirement            | Voluntary Separation | Other <sup>26</sup> |                                    |
| Distribution   | Line Leader         | 62             |    |    |    |                        |                        | 3                   | 1                     |                      |                     |                                    |
|                | Line Troubleshooter | 68             |    |    |    |                        |                        | 2                   |                       |                      |                     |                                    |
|                | Lineman             | 85             |    |    |    |                        |                        |                     |                       |                      | 4                   |                                    |
| Substation     | Substation Leader   | 14             |    |    |    |                        |                        |                     |                       |                      |                     |                                    |
|                | Substation Employee | 64             |    |    |    |                        |                        | 2                   |                       |                      | 1                   |                                    |
| Transmission   | Line Leader         | 0              |    |    |    |                        |                        |                     |                       |                      | 1                   |                                    |
|                | Lineman             | 2              |    |    |    | 2                      |                        |                     |                       |                      |                     |                                    |
|                | <b>Total</b>        | <b>295</b>     |    |    |    | <b>2</b>               |                        | <b>7</b>            | <b>1</b>              |                      | <b>6</b>            |                                    |

<sup>25</sup> Includes transfers, promotions, and promotions within a position.

<sup>26</sup> Includes transfers, involuntary separations, promotions, and promotions within a position.

<sup>27</sup> Hiring plan to be provided annually in the 4Q report.

*Section 57.195(e)(10): Quarterly and year-to-date information on contractor hours and dollars for transmission and distribution operation and maintenance.*

*Contractor Expenditures*

Contractor expenses are billed on a lump sum basis and as such, hourly information is not available.

This portion of the report is confidential.

*Section 57.195(e) (11): Monthly call-out acceptance rate for transmission and distribution maintenance workers presented in terms of both the percentage of accepted calls-out and the amount of time it takes the EDC to obtain the necessary personnel. A brief description of the EDC's call-out procedure should be included when appropriate.*

*Call-out Acceptance Rate*

Call-out percentage is defined as the number of workers accepting to total call outs.

This portion of the report is confidential.

*Call-out Response*

This portion of the report is confidential.

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

Confidential and Proprietary Report  
 Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

| Circuit Rank | Substation          | Circuit | District             | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI   | SAIFI | CAIDI  | MAIFI |
|--------------|---------------------|---------|----------------------|-------------------|---------|----------|------------------|--------------------|--------------|---------|-------|--------|-------|
| 1            | S Nazareth          | 00809-3 | Easton District      | 3,202             | 58      | 3        | 2,991,013        | 14,286             | 5.35         | 934.11  | 4.46  | 209.37 | 1.18  |
| 2            | Mountain Substation | 00744-4 | Dillsburg District   | 1,815             | 87      | 1        | 2,008,816        | 10,327             | 3.60         | 1106.79 | 5.69  | 194.52 | 1.00  |
| 3            | Bath Sub            | 00873-3 | Easton District      | 2,123             | 57      | 2        | 1,950,401        | 11,439             | 3.49         | 918.7   | 5.39  | 170.5  | 0.00  |
| 4            | Shawnee Sub         | 00860-3 | Stroudsburg District | 3,133             | 45      | 0        | 1,599,695        | 6,174              | 2.86         | 510.6   | 1.97  | 259.1  | 0.98  |
| 5            | Birchwood Sub       | 00622-3 | Stroudsburg District | 1,845             | 36      | 4        | 1,220,159        | 12,679             | 2.18         | 661.33  | 6.87  | 96.23  | 0.00  |
| 6            | Friedensburg Sub    | 00769-1 | Reading District     | 2,049             | 57      | 2        | 1,182,614        | 7,764              | 2.12         | 577.17  | 3.79  | 152.32 | 1.00  |
| 7            | Carsonia Sub        | 00764-1 | Reading District     | 2,636             | 37      | 1        | 1,123,898        | 4,552              | 2.01         | 426.36  | 1.73  | 246.9  | 16.37 |
| 8            | Shawnee Sub         | 00899-3 | Stroudsburg District | 1,771             | 60      | 0        | 1,105,140        | 7,415              | 1.98         | 624.02  | 4.19  | 149.04 | 1.34  |
| 9            | Shawnee Sub         | 00895-3 | Stroudsburg District | 3,728             | 68      | 1        | 1,017,560        | 9,037              | 1.82         | 272.95  | 2.42  | 112.6  | 0.46  |
| 10           | Birdsboro           | 00757-1 | Reading District     | 1,838             | 70      | 2        | 1,017,105        | 5,526              | 1.82         | 553.38  | 3.01  | 184.06 | 1.06  |
| 11           | Moselem Sub         | 00779-1 | Reading District     | 1,932             | 27      | 3        | 976,495          | 6,061              | 1.75         | 505.43  | 3.14  | 161.11 | 0.00  |
| 12           | Leesport Sub        | 00812-1 | Hamburg District     | 1,412             | 16      | 2        | 931,706          | 3,046              | 1.67         | 659.85  | 2.16  | 305.88 | 0.00  |
| 13           | South Hamburg Sub   | 00741-1 | Hamburg District     | 1,581             | 61      | 4        | 876,904          | 7,824              | 1.57         | 554.65  | 4.95  | 112.08 | 0.00  |
| 14           | Clearfield Sub      | 00631-3 | Easton District      | 1,887             | 37      | 1        | 876,142          | 4,125              | 1.57         | 464.3   | 2.19  | 212.4  | 0.00  |
| 15           | Bernville Sub       | 00787-1 | Hamburg District     | 1,709             | 78      | 1        | 835,005          | 5,009              | 1.49         | 488.59  | 2.93  | 166.7  | 18.17 |
| 16           | Frystown Sub        | 00701-2 | Lebanon District     | 1,209             | 64      | 1        | 829,595          | 4,704              | 1.48         | 686.18  | 3.89  | 176.36 | 0.15  |
| 17           | Swatara Hill Sub    | 00764-2 | Lebanon District     | 1,431             | 31      | 0        | 828,375          | 3,722              | 1.48         | 578.88  | 2.6   | 222.56 | 0.99  |
| 18           | Newberry Sub        | 00576-4 | York District        | 1,779             | 82      | 0        | 827,815          | 6,373              | 1.48         | 465.33  | 3.58  | 129.89 | 0.62  |
| 19           | South Lebanon Sub   | 00780-2 | Lebanon District     | 1,237             | 23      | 1        | 823,376          | 5,914              | 1.47         | 665.62  | 4.78  | 139.22 | 0.43  |
| 20           | Lickdale Substation | 00625-2 | Lebanon District     | 1,000             | 69      | 0        | 817,345          | 2,380              | 1.46         | 817.35  | 2.38  | 343.42 | 18.96 |

Confidential and Proprietary Report  
 Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

| Circuit Rank | Substation         | Circuit | District             | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI  | SAIFI | CAIDI  | MAIFI |
|--------------|--------------------|---------|----------------------|-------------------|---------|----------|------------------|--------------------|--------------|--------|-------|--------|-------|
| 21           | Allen Sub          | 00501-4 | Dillsburg District   | 1.985             | 40      | 2        | 810,774          | 5,275              | 1.45         | 408.45 | 2.66  | 153.7  | 0.00  |
| 22           | Birchwood Sub      | 00624-3 | Stroudsburg District | 2.016             | 40      | 5        | 763,404          | 13,721             | 1.37         | 378.67 | 6.81  | 55.64  | 4.36  |
| 23           | Lynnville Sub      | 00737-1 | Hamburg District     | 1.061             | 51      | 1        | 737,388          | 2,484              | 1.32         | 694.99 | 2.34  | 296.86 | 0.00  |
| 24           | Lynnville Sub      | 00735-1 | Hamburg District     | 1,260             | 37      | 3        | 729,735          | 4,726              | 1.31         | 579.15 | 3.75  | 154.41 | 0.00  |
| 25           | Baldy Sub          | 00736-1 | Reading District     | 847               | 43      | 1        | 664,968          | 3,027              | 1.19         | 785.09 | 3.57  | 219.68 | 0.00  |
| 26           | Crossroads Sub     | 00728-4 | York District        | 1.152             | 51      | 0        | 632,267          | 3,052              | 1.13         | 548.84 | 2.65  | 207.16 | 1.00  |
| 27           | Germantown Sub     | 00757-4 | Hanover District     | 1.365             | 30      | 1        | 623,169          | 3,238              | 1.12         | 456.53 | 2.37  | 192.45 | 1.17  |
| 28           | Shawnee Sub        | 00837-3 | Stroudsburg District | 1,255             | 24      | 1        | 612,100          | 2,660              | 1.10         | 487.73 | 2.12  | 230.11 | 2.25  |
| 29           | North Cornwall Sub | 00610-2 | Lebanon District     | 2,055             | 51      | 2        | 587,119          | 8,349              | 1.05         | 285.7  | 4.06  | 70.32  | 3.86  |
| 30           | Glendon            | 00805-3 | Easton District      | 974               | 6       | 1        | 574,679          | 1,755              | 1.03         | 590.02 | 1.8   | 327.45 | 0.27  |
| 31           | Northwood Sub      | 00821-3 | Easton District      | 1,705             | 16      | 3        | 571,385          | 5,548              | 1.02         | 335.12 | 3.25  | 102.99 | 0.13  |
| 32           | Shawnee Sub        | 00822-3 | Stroudsburg District | 3,658             | 58      | 3        | 565,232          | 9,553              | 1.01         | 154.52 | 2.61  | 59.17  | 12.10 |
| 33           | South Hamburg Sub  | 00801-1 | Hamburg District     | 2,077             | 39      | 1        | 564,438          | 3,299              | 1.01         | 271.76 | 1.59  | 171.09 | 0.00  |
| 34           | Belfast Sub        | 00849-3 | Easton District      | 2,038             | 8       | 1        | 559,730          | 5,122              | 1.00         | 274.65 | 2.51  | 109.28 | 1.00  |
| 35           | Belfast Sub        | 00817-3 | Easton District      | 907               | 48      | 2        | 544,900          | 3,775              | 0.98         | 600.77 | 4.16  | 144.34 | 4.37  |
| 36           | Glenside           | 00535-1 | Reading District     | 1,122             | 22      | 2        | 514,142          | 2,739              | 0.92         | 458.24 | 2.44  | 187.71 | 0.00  |
| 37           | No Bangor          | 00814-3 | Easton District      | 1,588             | 16      | 2        | 508,435          | 4,657              | 0.91         | 320.17 | 2.93  | 109.18 | 8.64  |
| 38           | Baldy Sub          | 00738-1 | Reading District     | 1,035             | 26      | 2        | 498,042          | 2,487              | 0.89         | 481.2  | 2.4   | 200.26 | 0.00  |
| 39           | Windsor            | 00797-4 | York District        | 1,541             | 86      | 0        | 484,938          | 2,401              | 0.87         | 314.69 | 1.56  | 201.97 | 1.00  |

Confidential and Proprietary Report  
 Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

| <b>PennState</b> |                     |          |             |                   |         |          |                  |                    |              |       |       |       |       |
|------------------|---------------------|----------|-------------|-------------------|---------|----------|------------------|--------------------|--------------|-------|-------|-------|-------|
| Circuit Rank     | Substation          | Circuit  | District    | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI | SAIFI | CAIDI | MAIFI |
| 1                | Warren South        | 00220-41 | Warren      | 2,900             | 97      | 0        | 2,196,384        | 12,212             | 3.78         | 757   | 4.21  | 180   | 3.76  |
| 2                | Russell Hill        | 00282-65 | Montrose    | 1,113             | 49      | 1        | 1,512,466        | 2,332              | 2.60         | 1,359 | 2.10  | 649   | 5.01  |
| 3                | Union City          | 00206-43 | Erie        | 3,164             | 128     | 0        | 1,420,456        | 6,020              | 2.44         | 449   | 1.90  | 236   | 8.00  |
| 4                | East Pike           | 00096-13 | Indiana     | 2,592             | 35      | 1        | 1,275,894        | 8,347              | 2.20         | 492   | 3.22  | 153   | 2.39  |
| 5                | Brookville          | 00125-23 | DuBois      | 752               | 39      | 0        | 1,144,250        | 3,786              | 1.97         | 1,522 | 5.03  | 302   | 2.65  |
| 6                | Springboro          | 00237-52 | Meadville   | 2,793             | 74      | 1        | 1,064,536        | 15,182             | 1.83         | 381   | 5.44  | 70    | 1.92  |
| 7                | Blairsville East    | 00081-13 | Indiana     | 1,613             | 30      | 5        | 959,500          | 6,394              | 1.65         | 595   | 3.96  | 150   | 10.09 |
| 8                | North Towanda       | 00521-62 | Towanda     | 967               | 55      | 4        | 921,118          | 3,582              | 1.59         | 953   | 3.70  | 257   | 3.14  |
| 9                | Marienville         | 00328-51 | Oil City    | 1,197             | 48      | 0        | 909,129          | 2,683              | 1.56         | 760   | 2.24  | 339   | 7.36  |
| 10               | Osceola             | 00318-63 | Mansfield   | 756               | 8       | 0        | 861,407          | 1,277              | 1.48         | 1,139 | 1.69  | 675   | 3.02  |
| 11               | Warren 5th Avenue   | 00250-41 | Warren      | 859               | 29      | 2        | 845,891          | 3,724              | 1.46         | 985   | 4.34  | 227   | 13.46 |
| 12               | Union City          | 00208-43 | Erie        | 1,518             | 53      | 1        | 837,807          | 5,188              | 1.44         | 552   | 3.42  | 161   | 21.37 |
| 13               | Tunkhannock         | 00533-65 | Montrose    | 1,227             | 51      | 2        | 781,703          | 5,255              | 1.35         | 637   | 4.28  | 149   | 35.02 |
| 14               | Mount Union         | 00154-82 | Lewistown   | 1,140             | 34      | 4        | 763,601          | 5,361              | 1.31         | 670   | 4.70  | 142   | 21.92 |
| 15               | Utica Junction      | 00318-51 | Oil City    | 840               | 45      | 0        | 735,209          | 1,973              | 1.27         | 875   | 2.35  | 373   | 2.78  |
| 16               | Tionesta Jct Sw Sta | 00498-51 | Oil City    | 627               | 57      | 2        | 717,843          | 6,630              | 1.24         | 1,145 | 10.57 | 108   | 6.58  |
| 17               | Philipsburg         | 00164-22 | Philipsburg | 2,130             | 35      | 0        | 714,902          | 6,062              | 1.23         | 336   | 2.85  | 118   | 7.48  |
| 18               | DuBois              | 00137-23 | DuBois      | 2,834             | 79      | 1        | 706,250          | 7,237              | 1.22         | 249   | 2.55  | 98    | 2.93  |
| 19               | Logan               | 00700-81 | Lewistown   | 957               | 39      | 0        | 680,718          | 3,512              | 1.17         | 711   | 3.67  | 194   | 3.16  |
| 20               | Bradford South      | 00106-42 | Bradford    | 1,185             | 28      | 0        | 658,293          | 3,046              | 1.13         | 556   | 2.57  | 216   | 0.56  |
| 21               | Tiffany             | 00440-65 | Montrose    | 1,507             | 31      | 1        | 613,963          | 5,127              | 1.06         | 407   | 3.40  | 120   | 6.19  |
| 22               | East Hickory        | 00200-41 | Warren      | 461               | 32      | 1        | 593,493          | 2,401              | 1.02         | 1,287 | 5.21  | 247   | 19.37 |
| 23               | Edinboro            | 00420-34 | Erie        | 1,576             | 27      | 3        | 581,874          | 5,106              | 1.00         | 369   | 3.24  | 114   | 5.67  |
| 24               | Brooklyn            | 00749-65 | Montrose    | 502               | 14      | 2        | 555,185          | 1,266              | 0.96         | 1,106 | 2.52  | 439   | 2.03  |
| 25               | Punxsutawney        | 00625-23 | DuBois      | 503               | 19      | 0        | 547,724          | 1,703              | 0.94         | 1,089 | 3.39  | 322   | 0.00  |
| 26               | Crown               | 00320-51 | Oil City    | 461               | 32      | 3        | 536,142          | 2,454              | 0.92         | 1,163 | 5.32  | 218   | 6.63  |
| 27               | Morgan Street       | 00240-52 | Meadville   | 1,891             | 34      | 1        | 529,052          | 4,073              | 0.91         | 280   | 2.15  | 130   | 10.52 |
| 28               | Knox                | 00323-51 | Oil City    | 1,326             | 50      | 1        | 527,557          | 3,499              | 0.91         | 398   | 2.64  | 151   | 6.05  |

Confidential and Proprietary Report  
 Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

| Circuit Rank | Substation            | Circuit  | District    | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI | SAIFI | CAIDI | MAIFI |
|--------------|-----------------------|----------|-------------|-------------------|---------|----------|------------------|--------------------|--------------|-------|-------|-------|-------|
| 29           | Pemberton             | 00096-82 | Altoona     | 415               | 23      | 0        | 519,649          | 1,025              | 0.89         | 1,252 | 2.47  | 507   | 6.85  |
| 30           | Grandview             | 00354-51 | Oil City    | 545               | 39      | 2        | 505,327          | 1,818              | 0.87         | 927   | 3.34  | 278   | 2.26  |
| 31           | Somerset              | 00030-12 | Somerset    | 2,392             | 29      | 1        | 497,797          | 7,218              | 0.86         | 208   | 3.02  | 69    | 1.54  |
| 32           | North Warren          | 00207-41 | Warren      | 1,369             | 57      | 1        | 485,133          | 2,334              | 0.83         | 354   | 1.70  | 208   | 4.41  |
| 33           | Erie East             | 00234-31 | Erie        | 1,014             | 54      | 0        | 478,236          | 2,679              | 0.82         | 472   | 2.64  | 179   | 8.40  |
| 34           | Sykesville            | 00726-23 | DuBois      | 698               | 26      | 1        | 465,254          | 1,714              | 0.80         | 667   | 2.46  | 271   | 1.80  |
| 35           | Utica Junction        | 00331-51 | Oil City    | 634               | 34      | 0        | 464,937          | 1,345              | 0.80         | 733   | 2.12  | 346   | 3.10  |
| 36           | South Mansfield       | 00617-63 | Mansfield   | 296               | 11      | 5        | 449,281          | 3,802              | 0.77         | 1,518 | 12.84 | 118   | 0.00  |
| 37           | Falls                 | 00297-65 | Montrose    | 799               | 37      | 0        | 436,453          | 1,708              | 0.75         | 546   | 2.14  | 256   | 2.55  |
| 38           | DuBois                | 00134-23 | DuBois      | 747               | 15      | 0        | 436,102          | 1,656              | 0.75         | 584   | 2.22  | 263   | 0.79  |
| 39           | Summit Hall           | 00500-31 | Erie        | 498               | 15      | 2        | 431,823          | 2,018              | 0.74         | 867   | 4.05  | 214   | 8.98  |
| 40           | Mansfield             | 00559-63 | Mansfield   | 503               | 34      | 4        | 421,555          | 3,379              | 0.73         | 838   | 6.72  | 125   | 26.46 |
| 41           | Boyer                 | 00583-31 | Erie        | 1,688             | 33      | 1        | 404,834          | 4,672              | 0.70         | 240   | 2.77  | 87    | 5.29  |
| 42           | Tyrone North          | 00944-22 | Philipsburg | 1,486             | 37      | 0        | 398,451          | 3,239              | 0.69         | 268   | 2.18  | 123   | 11.23 |
| 43           | Thompson              | 00436-65 | Montrose    | 1,328             | 59      | 0        | 398,158          | 2,048              | 0.69         | 300   | 1.54  | 194   | 4.37  |
| 44           | North Warren          | 00596-41 | Warren      | 1,119             | 46      | 0        | 389,970          | 2,125              | 0.67         | 348   | 1.90  | 184   | 1.02  |
| 45           | Timblin               | 00103-23 | DuBois      | 724               | 38      | 1        | 389,649          | 3,416              | 0.67         | 538   | 4.72  | 114   | 8.93  |
| 46           | DuBois                | 00124-23 | DuBois      | 1,931             | 21      | 0        | 387,802          | 5,699              | 0.67         | 201   | 2.95  | 68    | 7.09  |
| 47           | Punxsutawney          | 00118-23 | DuBois      | 1,230             | 26      | 0        | 384,180          | 2,507              | 0.66         | 312   | 2.04  | 153   | 1.73  |
| 48           | Edgewood              | 00089-13 | Indiana     | 877               | 25      | 0        | 381,930          | 1,634              | 0.66         | 435   | 1.86  | 234   | 1.10  |
| 49           | Somerset              | 00017-12 | Somerset    | 1,380             | 44      | 1        | 367,643          | 6,290              | 0.63         | 266   | 4.56  | 58    | 0.26  |
| 50           | Lake Como             | 00786-65 | Montrose    | 468               | 18      | 0        | 357,325          | 956                | 0.61         | 764   | 2.04  | 374   | 16.49 |
| 51           | National Forge Sw Sta | 00577-41 | Warren      | 1,035             | 43      | 0        | 351,704          | 4,846              | 0.61         | 340   | 4.68  | 73    | 1.44  |
| 52           | Birmingham            | 00168-22 | Philipsburg | 1,072             | 50      | 0        | 343,332          | 1,790              | 0.59         | 320   | 1.67  | 192   | 3.81  |
| 53           | Starrucca             | 00744-65 | Montrose    | 851               | 38      | 0        | 340,167          | 1,358              | 0.59         | 400   | 1.60  | 250   | 6.52  |
| 54           | East Hickory          | 00201-41 | Warren      | 265               | 15      | 3        | 338,085          | 1,418              | 0.58         | 1,276 | 5.35  | 238   | 18.97 |
| 55           | Wyalusing             | 00532-62 | Towanda     | 709               | 33      | 1        | 337,459          | 3,016              | 0.58         | 476   | 4.25  | 112   | 25.87 |
| 56           | Monroeton             | 00716-62 | Towanda     | 225               | 12      | 1        | 332,946          | 475                | 0.57         | 1,480 | 2.11  | 701   | 3.96  |

| Penelec      |                   |          |           |                   |         |          |                  |                    |              |       |       |       |       |
|--------------|-------------------|----------|-----------|-------------------|---------|----------|------------------|--------------------|--------------|-------|-------|-------|-------|
| Circuit Rank | Substation        | Circuit  | District  | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI | SAIFI | CAIDI | MAIFI |
| 57           | West Tunkhannock  | 00231-65 | Montrose  | 368               | 13      | 1        | 323,558          | 785                | 0.56         | 879   | 2.13  | 412   | 2.48  |
| 58           | Cambridge Springs | 00462-52 | Meadville | 139               | 8       | 1        | 323,322          | 905                | 0.56         | 2,326 | 6.51  | 357   | 7.65  |
| 59           | North Meshoppen   | 00437-65 | Montrose  | 492               | 21      | 1        | 319,089          | 1,361              | 0.55         | 649   | 2.77  | 234   | 3.40  |
| 60           | Fairview East     | 00216-34 | Erie      | 680               | 13      | 1        | 318,453          | 2,188              | 0.55         | 468   | 3.22  | 146   | 18.94 |
| 61           | Logan             | 00701-81 | Lewistown | 1,459             | 21      | 0        | 316,324          | 2,229              | 0.54         | 217   | 1.53  | 142   | 3.86  |
| 62           | Mansfield         | 00699-63 | Mansfield | 758               | 27      | 1        | 312,927          | 2,234              | 0.54         | 413   | 2.95  | 140   | 0.00  |
| 63           | Page Road         | 00445-43 | Erie      | 682               | 27      | 0        | 309,582          | 2,136              | 0.53         | 454   | 3.13  | 145   | 5.08  |

| Penn Power   |            |         |            |                   |         |          |                  |                    |              |        |       |       |       |
|--------------|------------|---------|------------|-------------------|---------|----------|------------------|--------------------|--------------|--------|-------|-------|-------|
| Circuit Rank | Substation | Circuit | District   | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI  | SAIFI | CAIDI | MAIFI |
| 1            | Stoneboro  | W-132   | Clark      | 1,070             | 60      | 0        | 681,114          | 3,316              | 4.30         | 636.56 | 3.099 | 205.4 | 0.00  |
| 2            | Seneca     | W701    | Zelienople | 2,011             | 47      | 1        | 524,130          | 2,758              | 3.31         | 260.63 | 1.371 | 190.0 | 0.00  |
| 3            | Mercer     | W-129   | Clark      | 1,626             | 86      | 0        | 520,203          | 2,835              | 3.28         | 319.93 | 1.744 | 183.5 | 0.03  |
| 4            | Stoneboro  | W-131   | Clark      | 1,446             | 78      | 0        | 404,213          | 2,233              | 2.55         | 279.54 | 1.544 | 181.0 | 0.15  |
| 5            | McDowell   | W-120   | Clark      | 1,056             | 44      | 1        | 361,394          | 2,165              | 2.28         | 342.23 | 2.050 | 166.9 | 0.00  |
| 6            | Mercer     | W-128   | Clark      | 1,228             | 49      | 1        | 352,288          | 2,235              | 2.22         | 286.88 | 1.820 | 157.6 | 0.00  |
| 7            | Hermitage  | W-260   | Clark      | 2,403             | 72      | 1        | 345,921          | 4,106              | 2.18         | 143.95 | 1.709 | 84.2  | 0.00  |
| 8            | Ingomar    | D619    | Zelienople | 1,186             | 7       | 0        | 334,761          | 2,204              | 2.11         | 282.26 | 1.858 | 151.9 | 0.00  |
| 9            | Perry      | W-156   | Clark      | 1,058             | 48      | 0        | 333,500          | 1,668              | 2.10         | 315.22 | 1.577 | 199.9 | 0.00  |

| Circuit Rank | Substation    | Circuit         | District                 | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI | SAIFI | CAIDI |
|--------------|---------------|-----------------|--------------------------|-------------------|---------|----------|------------------|--------------------|--------------|-------|-------|-------|
| 1            | Rutan         | Bristoria       | Jefferson District       | 1,187             | 88      | 1        | 2,619,066        | 5,849              | 3.7          | 2,206 | 4.93  | 448   |
| 2            | Piney Fork    | Stoltz          | Charleroi District       | 2,152             | 31      | 4        | 1,494,678        | 9,754              | 2.1          | 695   | 4.53  | 153   |
| 3            | North Fayette | Beechcliff      | McDonald District        | 2,153             | 40      | 1        | 1,306,103        | 5,701              | 1.8          | 607   | 2.65  | 229   |
| 4            | Donegal       | Donegal         | Pleasant Valley District | 932               | 41      | 2        | 1,173,511        | 3,072              | 1.6          | 1,259 | 3.30  | 382   |
| 5            | Cooperstown   | Twin Willows    | Butler District          | 1,450             | 38      | 1        | 1,064,992        | 3,116              | 1.5          | 734   | 2.15  | 342   |
| 6            | Westraver     | Pittsburgh Coal | Charleroi District       | 1,914             | 25      | 1        | 1,055,508        | 4,901              | 1.5          | 551   | 2.56  | 215   |
| 7            | Smithton      | Smithton        | Charleroi District       | 984               | 41      | 0        | 990,352          | 3,196              | 1.4          | 1,006 | 3.25  | 310   |
| 8            | Mateer        | Dime Rd         | Arnold District          | 1,198             | 56      | 1        | 877,814          | 3,652              | 1.2          | 733   | 3.05  | 240   |
| 9            | Amity         | Banetown        | Washington Pa District   | 1,526             | 52      | 0        | 822,858          | 2,535              | 1.1          | 539   | 1.66  | 325   |
| 10           | Saltsburg     | Saltsburg       | Arnold District          | 1,407             | 42      | 2        | 817,301          | 5,060              | 1.1          | 581   | 3.60  | 162   |
| 11           | Krendale      | Unionville      | Butler District          | 1,291             | 33      | 2        | 807,034          | 4,201              | 1.1          | 625   | 3.25  | 192   |
| 12           | Franklin      | Rogersville     | Jefferson District       | 840               | 36      | 0        | 788,745          | 1,791              | 1.1          | 939   | 2.13  | 440   |
| 13           | Henry Clay    | Markleysburg    | Uniontown District       | 1,105             | 33      | 0        | 782,096          | 2,346              | 1.1          | 708   | 2.12  | 333   |
| 14           | Fort Palmer   | West Fairfield  | Latrobe District         | 968               | 62      | 0        | 767,757          | 2,885              | 1.1          | 793   | 2.98  | 266   |
| 15           | Bethel Park   | Coverdale       | Boyce District           | 1,279             | 18      | 1        | 752,736          | 4,339              | 1.1          | 589   | 3.39  | 173   |
| 16           | North Union   | Gallatin        | Uniontown District       | 2,574             | 16      | 2        | 741,974          | 5,973              | 1.0          | 288   | 2.32  | 124   |
| 17           | Bethlen       | Laughlintown    | Latrobe District         | 1,096             | 59      | 2        | 730,646          | 3,814              | 1.0          | 667   | 3.48  | 192   |
| 18           | Avella        | Penowa          | McDonald District        | 669               | 27      | 2        | 716,940          | 3,424              | 1.0          | 1,072 | 5.12  | 209   |
| 19           | Hempfield     | Cool Valley     | Jeannette District       | 1,101             | 36      | 1        | 703,643          | 4,322              | 1.0          | 639   | 3.93  | 163   |
| 20           | Emporium      | Emporium Jct    | St Mary's District       | 594               | 30      | 1        | 692,447          | 1,887              | 1.0          | 1,166 | 3.18  | 367   |
| 21           | Frazier       | Perry           | Pleasant Valley District | 741               | 21      | 0        | 667,951          | 1,783              | 0.9          | 901   | 2.41  | 375   |
| 22           | Vandergrift   | Grifflo Park    | Arnold District          | 2,752             | 41      | 1        | 660,345          | 4,479              | 0.9          | 240   | 1.63  | 147   |
| 23           | Amity         | Amity           | Washington Pa District   | 487               | 35      | 0        | 657,872          | 1,949              | 0.9          | 1,351 | 4.00  | 338   |
| 24           | Thompson Farm | Oakwood         | State College District   | 1,059             | 8       | 6        | 654,529          | 6,144              | 0.9          | 618   | 5.80  | 107   |
| 25           | Bethel Park   | Hillcrest       | Boyce District           | 1,181             | 13      | 1        | 642,907          | 2,710              | 0.9          | 544   | 2.29  | 237   |
| 26           | Bethlen       | Laurel Valley   | Latrobe District         | 1,407             | 79      | 0        | 638,921          | 3,393              | 0.9          | 454   | 2.41  | 188   |

<sup>28</sup> MAIFI values are not available for West Penn.

| West Penn    |                |              |                          |                   |         |          |                  |                    |              |       |       |       |
|--------------|----------------|--------------|--------------------------|-------------------|---------|----------|------------------|--------------------|--------------|-------|-------|-------|
| Circuit Rank | Substation     | Circuit      | District                 | Average Customers | Outages | Lockouts | Customer Minutes | Customers Affected | SAIDI Impact | SAIDI | SAIFI | CAIDI |
| 27           | Smith          | Florence     | McDonald District        | 805               | 43      | 1        | 620,151          | 2,057              | 0.9          | 770   | 2.56  | 301   |
| 28           | Luxor          | Forbes Road  | Latrobe District         | 1,232             | 28      | 2        | 618,145          | 4,607              | 0.9          | 502   | 3.74  | 134   |
| 29           | Crossgates     | Robinhood    | Boyce District           | 891               | 19      | 1        | 617,629          | 2,216              | 0.9          | 693   | 2.49  | 279   |
| 30           | Piney Fork     | Gillhall     | Charleroi District       | 2,144             | 30      | 0        | 612,809          | 3,278              | 0.9          | 286   | 1.53  | 187   |
| 31           | Cecil          | Murray Hill  | Boyce District           | 2,061             | 25      | 4        | 610,250          | 9,056              | 0.9          | 296   | 4.39  | 67    |
| 32           | Harwick        | Harmar       | Arnold District          | 940               | 14      | 2        | 592,535          | 3,193              | 0.8          | 630   | 3.40  | 186   |
| 33           | Donegal        | Buchanan     | Pleasant Valley District | 1,105             | 24      | 1        | 591,467          | 1,776              | 0.8          | 535   | 1.61  | 333   |
| 34           | Smithton       | Yukon        | Charleroi District       | 1,310             | 22      | 0        | 590,609          | 2,005              | 0.8          | 451   | 1.53  | 295   |
| 35           | Murrysville    | Wallace Lane | Arnold District          | 738               | 37      | 1        | 587,946          | 2,853              | 0.8          | 797   | 3.87  | 206   |
| 36           | Driftwood      | Driftwood    | St Mary's District       | 971               | 23      | 0        | 583,846          | 1,845              | 0.8          | 601   | 1.90  | 316   |
| 37           | Hickory        | Fort Cherry  | McDonald District        | 996               | 45      | 0        | 582,396          | 2,448              | 0.8          | 585   | 2.46  | 238   |
| 38           | Lake Lynn-Unio | Fancy Hill   | Uniontown District       | 937               | 26      | 1        | 570,952          | 2,396              | 0.8          | 609   | 2.56  | 238   |
| 39           | Lantz          | Meadow       | Jefferson District       | 1,165             | 31      | 0        | 557,123          | 1,931              | 0.8          | 478   | 1.66  | 289   |
| 40           | White Valley   | Borlands Rd  | Jeannette District       | 1,351             | 23      | 0        | 545,770          | 2,069              | 0.8          | 404   | 1.53  | 264   |

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A)(1): FirstEnergy is directed to provide additional detail in its reporting of the 5% of worst performing circuits in its Commission Quarterly Reliability Reports to highlight those circuits that appear multiple times on Quarterly Reliability Reports, but not necessarily in four quarters in a calendar year. For each Quarterly Reliability Report filed pursuant to 52 Pa. Code § 57.195, this additional detail shall include highlighting those worst performing circuits that have appeared in two or more Quarterly Reliability Reports in the past four quarters.

| Rank | Substation  | Circuit | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
|------|-------------|---------|---|-----------------------------------|---|--|
| 1    | S. Nazareth | 00809-3 | <i>Performance was driven by line failure (49%) and trees off ROW (34%).</i>  |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |             |         | On cycle tree trimming  | Complete                          | Jun-16                                      |  |
|      |             |         | Forestry zone 1 aerial patrol   | Complete                          | Jul-16                                      |  |
|      |             |         | Perform accelerated backbone and three phase circuit assessment   | Complete                          | Dec-16                                      |  |
|      |             |         | Overhead circuit inspection   | To be completed 2017              | 0%  |  |
|      |             |         | Replace/repair high priority items identified during circuit assessment   | To be completed 2017              | 50%   |  |
|      |             |         | Replace switch  | To be completed 2017              | 50%   |  |
| 2    | Mountain    | 00744-4 | <i>Performance was driven by trees off ROW (58%), vehicle (20%), and equipment failures (9%).</i>   |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |             |         | Overhead circuit inspection   | Complete                          | Apr-16                                      |  |
|      |             |         | Replace porcelain cutouts on circuit backbone with polymer cutouts  | Complete                          | Apr-16                                      |  |
|      |             |         | Upgrade main line recloser to EMS radio controlled  | Complete                          | Jun-16                                      |  |
|      |             |         | Upgrade main line Group Operated Air Break (GOAB) to EMS radio controlled Motor Operated Air Break (MOAB) with faulted circuit indicators | Complete                          | Aug-16                                      |  |
|      |             |         | Replace/repair high priority items identified during circuit patrol   | Complete                          | Feb-17                                      |  |
|      |             |         | Mid-cycle forestry inspection   | Complete                          | Mar-17                                      |  |
| 3    | Bath        | 00873-3 | <i>Performance was driven by an unknown outage (70%).</i>   |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |             |         | Install Supervisory Control and Data Acquisition (SCADA) switch   | Complete                          | Oct-16                                      |  |
|      |             |         | Install Supervisory Control and Data Acquisition (SCADA) recloser   | Complete                          | Oct-16                                      |  |
|      |             |         | Perform accelerated backbone and three phase circuit assessment   | Complete                          | Dec-16                                      |  |

| Rank                         | Substation           | Circuit | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
|------------------------------|----------------------|---------|---|-----------------------------------|---|--|
| 4                            | Shawnee              | 00860-3 | <i>Performance was driven by equipment failure (62%) and trees off ROW (29%).</i>                 |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                              |                      |         | Replace porcelain side-post insulators on circuit three phase with polymer insulators             | Complete                          | May-16                                      |  |
|                              |                      |         | Install additional Supervisory Control and Data Acquisition (SCADA) switches                      | Complete                          | Jun-16                                      |  |
|                              |                      |         | Install Supervisory Control and Data Acquisition (SCADA) on recloser                              | Complete                          | Nov-16                                      |  |
|                              |                      |         | Perform accelerated backbone and three phase circuit assessment                                   | Complete                          | Dec-16                                      |  |
|                              |                      |         | Overhead circuit inspection   | Complete                          | Mar-17                                      |  |
|                              |                      |         | Enhanced three phase tree trimming  | To be completed 2017              | 0%  |  |
| 5                            | Birchwood            | 00622-3 | <i>Performance was driven by trees off ROW (46%), equipment failure (24%), and vehicle (18%).</i> |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                              |                      |         | On cycle tree trimming  | Complete                          | Oct-16                                      |  |
|                              |                      |         | Perform accelerated backbone and three phase circuit assessment                                   | Complete                          | Dec-16                                      |  |
|                              |                      |         | Replace switch  | To be completed 2017              | 50%   |  |
| 6                            | Friendsburg          | 00769-1 | <i>Performance was driven by trees off ROW (59%) and vehicle (32%).</i>                           |                                   |   | 4Q 2016<br>1Q 2017                       |
|                              |                      |         | Replace pin insulator from inspection   | Complete                          | Jun-16                                      |  |
|                              |                      |         | Replace crossarms from inspection   | Complete                          | Jan-17                                      |  |
|                              |                      |         | Repair or replace pole top from inspection  | Complete                          | Jan-17                                      |  |
|                              |                      |         | Replace crossarms from inspection   | Complete                          | Mar-17                                      |  |
|                              |                      |         | Upgrade main line reclosers   | Complete                          | Mar-17                                      |  |
| Targeted forestry inspection | Complete             | Mar-17  |   |                                   |   |  |
| 7                            | Carsonia             | 00764-1 | <i>Performance was driven by line failure (83%).</i>  |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                              |                      |         | Targeted overhead circuit inspection  | Complete                          | Jun-16                                      |  |
| 8                            | Shawnee              | 00899-3 | <i>Performance was driven by trees off ROW (78%).</i>   |                                   |   | 2Q 2016<br>4Q 2016<br>1Q 2017            |
|                              |                      |         | Post storm forestry inspection  | Complete                          | Apr-16                                      |  |
|                              |                      |         | Danger tree removal from post storm inspection  | Complete                          | May-16                                      |  |
|                              |                      |         | Forestry zone I aerial patrol   | Complete                          | Jul-16                                      |  |
|                              |                      |         | Overhead circuit inspection   | To be completed 2017              | 0%  |  |
| On cycle tree trimming       | To be completed 2017 | 15%     |   |                                   |   |  |

| Mid-Ed   |                      |         |  |                                   |   |                             |  |
|--|----------------------|---------|--|-----------------------------------|---|-----------------------------|--|
| Rank   | Substation           | Circuit | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 9  | Shawnee              | 00895-3 | <i>Performance was driven by trees off ROW (52%) and vehicle (20%).</i>                    |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|  |                      |         | Post storm forestry inspection   | Complete                          | Apr-16                                      |                             |  |
|  |                      |         | Install additional Supervisory Control and Data Acquisition (SCADA) switch                 | Complete                          | May-16                                      |                             |  |
|  |                      |         | Install additional Supervisory Control and Data Acquisition (SCADA) recloser               | Complete                          | Jul-16                                      |                             |  |
|  |                      |         | On cycle tree trimming   | Complete                          | Oct-16                                      |                             |  |
|  |                      |         | Perform accelerated backbone and three phase circuit assessment                            | Complete                          | Dec-16                                      |                             |  |
|  |                      |         | Overhead circuit inspection  | To be completed 2017              | 0%  |                             |  |
|  |                      |         | Replace porcelain cutouts on circuit three phase with polymer cutouts                      | To be completed 2017              | 50%   |                             |  |
|  |                      |         | Targeted main line circuit rehabilitation  | To be completed 2017              | 20%   |                             |  |
|  |                      |         | Install additional Supervisory Control and Data Acquisition (SCADA) switches               | To be completed 2017              | 0%  |                             |  |
|  |                      |         | Enhanced three phase tree trimming   | To be completed 2017              | 0%  |                             |  |
|  |                      |         | Create circuit tie   | To be completed 2017              | 50%   |                             |  |
| 10   | Birdsboro            | 00757-1 | <i>Performance was driven by trees off ROW (73%).</i>                                      |                                   |   |                             | 2Q 2016<br>1Q 2017                       |
|  |                      |         | Proactive every-other-month main line forestry inspection                                  | Complete                          | Jun-16                                      |                             |  |
|  |                      |         | Targeted tree trimming to improve reliability  | Complete                          | Jun-16                                      |                             |  |
|  |                      |         | Proactive every-other-month main line forestry inspection                                  | Complete                          | Aug-16                                      |                             |  |
|  |                      |         | Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers | Complete                          | Aug-16                                      |                             |  |
|  |                      |         | Targeted tree trimming to improve reliability  | Complete                          | Oct-16                                      |                             |  |
|  |                      |         | Replace porcelain cutouts on circuit three phase with polymer cutouts                      | Complete                          | Nov-16                                      |                             |  |
|  |                      |         | Tap recloser replacement   | Complete                          | Mar-17                                      |                             |  |
|  |                      |         | Targeted overhead circuit inspection   | Complete                          | Mar-17                                      |                             |  |
|  |                      |         | Enhanced three phase tree trimming   | To be completed 2017              | 34%   |                             |  |
|  |                      |         | Targeted Mainline Circuit Rehabilitation   | To be completed 2017              | 25%   |                             |  |
| Replace additional porcelain cutouts on circuit three phase with polymer cutouts | To be completed 2017 | 0%      |  |                                   |   |                             |  |

| Rank                                  | Substation           | Circuit | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
|---------------------------------------|----------------------|---------|--|-----------------------------------|---|-----------------------------|--|
| 11                                    | Moselem              | 00779-1 | <i>Performance was driven by wind (70% and line failure (24%).</i>   |                                   |   |                             |  |
|                                       |                      |         | Replace mainline insulator from inspection   | Complete                          | Jun-16                                      |                             |  |
|                                       |                      |         | Repair mainline conductor  | Complete                          | Dec-16                                      |                             |  |
|                                       |                      |         | Re-sag mainline conductor  | Complete                          | Jan-17                                      |                             |  |
|                                       |                      |         | Replace mainline poles   | Complete                          | Feb-17                                      |                             |  |
| 12                                    | Leesport             | 00812-1 | <i>Performance was driven by vehicle (84%) and trees off ROW (11%).</i>  |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                                       |                      |         | Targeted forestry inspection   | Complete                          | Jun-16                                      |                             |  |
|                                       |                      |         | Replace pole associated with vehicle accident  | Complete                          | Sep-16                                      |                             |  |
|                                       |                      |         |  |                                   |   |                             |  |
| 13                                    | South Hamburg        | 00741-1 | <i>Performance was driven by trees off ROW (42%), equipment failure (31%), and lightning (16%).</i>                        |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                                       |                      |         | Targeted mainline forestry inspection  | Complete                          | Aug-16                                      |                             |  |
|                                       |                      |         | Targeted tree trimming and removals to improve reliability   | Complete                          | Sep-16                                      |                             |  |
|                                       |                      |         | Targeted forestry inspection   | Complete                          | Oct-16                                      |                             |  |
|                                       |                      |         | Targeted overhead circuit inspection   | Complete                          | Oct-16                                      |                             |  |
|                                       |                      |         | Targeted tree removals to improve reliability  | Complete                          | Oct-16                                      |                             |  |
|                                       |                      |         | Install additional fault indicators  | Complete                          | Nov-16                                      |                             |  |
|                                       |                      |         | Targeted mainline forestry inspection  | Complete                          | Feb-17                                      |                             |  |
|                                       |                      |         | Overhead circuit inspection  | To be completed 2017              | 37%   |                             |  |
|                                       |                      |         | Replace porcelain cutouts on circuit backbone with polymer cutouts   | To be completed 2017              | 0%  |                             |  |
| Install additional main line recloser | To be completed 2017 | 50%     |  |                                   |   |                             |  |
| 14                                    | Clearfield           | 00631-3 | <i>Performance was driven by trees off ROW (58%) and vehicle (37%).</i>  |                                   |   |                             | 4Q 2016<br>1Q 2017                       |
|                                       |                      |         | On cycle tree trimming   | To be completed 2017              | 0%  |                             |  |
| 15                                    | Bernville            | 00787-1 | <i>Performance was driven by equipment failures (30%), trees on ROW (26%), line failure (14%), and trees off ROW (9%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                                       |                      |         | Targeted overhead circuit inspection   | Complete                          | Jun-16                                      |                             |  |
|                                       |                      |         | Targeted forestry inspection   | Complete                          | Aug-16                                      |                             |  |
|                                       |                      |         | Targeted forestry inspection   | Complete                          | Sep-16                                      |                             |  |
|                                       |                      |         | Targeted tree trimming to improve reliability  | Complete                          | Nov-16                                      |                             |  |
|                                       |                      |         | Install Supervisory Control and Data Acquisition (SCADA) switch  | Complete                          | Nov-16                                      |                             |  |
|                                       |                      |         | Targeted overhead circuit inspection   | Complete                          | Dec-16                                      |                             |  |
|                                       |                      |         | Replace crossarm from inspection   | To be completed 2017              | 50%   |                             |  |
|                                       |                      |         | Overhead circuit inspection  | To be completed 2017              | 0%  |                             |  |
|                                       |                      |         | On cycle tree trimming   | To be completed 2017              | 0%  |                             |  |

| Rank   | Substation           | Circuit | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |                               |
|--|----------------------|---------|---|-----------------------------------|---|-----------------------------|-------------------------------|
| 16   | Frystown             | 00701-2 | <i>Performance was driven by equipment failure (65%), unknown (15%), and vehicle (15%).</i>       |                                   |   |                             |                               |
|  |                      |         | Install fault indicators  | Complete                          | Mar-17                                      |                             |                               |
|  |                      |         | Corrected recloser operation  | Complete                          | Mar-17                                      |                             |                               |
| 17   | Swatara Hill         | 00764-2 | <i>Performance was driven by trees (65%) and equipment problems (26%).</i>                        |                                   |   |                             | 2Q 2016<br>1Q 2017            |
|  |                      |         | Spot tree trimming  | Complete                          | Jul-16                                      |                             |                               |
|  |                      |         | Replaced failed underground cable   | Complete                          | Jul-16                                      |                             |                               |
|  |                      |         | Overhead circuit inspection   | Complete                          | Feb-17                                      |                             |                               |
|  |                      |         | Scada control devices to be installed   | To be completed 2017              | 0%  |                             |                               |
|  |                      |         | Porcelain cutouts to be replaced with polymers  | To be completed 2017              | 0%  |                             |                               |
|  |                      |         | Construct circuit tie   | To be completed 2017              | 0%  |                             |                               |
|  |                      |         | Main line rehabilitation  | To be completed 2017              | 0%  |                             |                               |
| Enhanced three phase tree trimming   | To be completed 2017 | 0%      |   |                                   |   |                             |                               |
| 18   | Newberry             | 00576-4 | <i>Performance was driven by trees off ROW (79%).</i>   |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|  |                      |         | Replace porcelain cutouts on recloser backbone with polymer cutouts                               | Complete                          | Aug-16                                      |                             |                               |
|  |                      |         | Install additional Supervisory Control and Data Acquisition (SCADA) switch                        | Complete                          | Nov-16                                      |                             |                               |
|  |                      |         | Mid-cycle backbone and three phase forestry inspection  | Complete                          | Nov-16                                      |                             |                               |
|  |                      |         | Perform accelerated backbone and three phase circuit assessment                                   | Complete                          | Nov-16                                      |                             |                               |
|  |                      |         | Targeted main line circuit rehabilitation   | To be completed 2017              | 10%   |                             |                               |
|  |                      |         | Overhead circuit inspection   | To be completed 2017              | 99%   |                             |                               |
|  |                      |         | Enhanced three phase tree trimming  | To be completed 2017              | 39%   |                             |                               |
| 19   | South Lebanon        | 00780-2 | <i>Performance was driven by trees off ROW (65 %) and vehicle (20%).</i>                          |                                   |   |                             | 4Q 2016<br>1Q 2017            |
|  |                      |         | Spot tree trimming  | Complete                          | Oct-16                                      |                             |                               |
|  |                      |         | Circuit reconfiguration   | To be completed 2017              | 0%  |                             |                               |
| 20   | Lickdale             | 00625-2 | <i>Performance was driven by trees off ROW (57%) and unknown (18%).</i>                           |                                   |   |                             | 4Q 2016<br>1Q 2017            |
|  |                      |         | Spot tree trimming  | Complete                          | Oct-16                                      |                             |                               |
| 21   | Allen                | 00501-4 | <i>Performance was driven by equipment failure (60%), vehicle (17%), and trees off ROW (15%).</i> |                                   |   |                             |                               |
|  |                      |         | Underground circuit inspection  | Complete                          | Apr-16                                      |                             |                               |
|  |                      |         | Overhead circuit inspection   | Complete                          | Oct-16                                      |                             |                               |
|  |                      |         | Pole was replaced and equipment repaired  | Complete                          | Mar-17                                      |                             |                               |
|  |                      |         | Replace/repair high priority items identified during underground circuit patrol                   | Complete                          | Mar-17                                      |                             |                               |
| Replace/repair high priority items identified during overhead circuit patrol | To be completed 2017 | 0%      |   |                                   |   |                             |                               |

| Rank | Substation | Circuit | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
|------|------------|---------|--|-----------------------------------|---|--|
| 22   | Birchwood  | 00624-3 | <i>Performance was driven by vehicle (32%), trees off ROW (30%), and forced outages (18%).</i>     |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |            |         | Upgrade main line recloser   | Complete                          | Jun-16                                      |  |
|      |            |         | Perform accelerated backbone and three phase circuit assessment                                    | Complete                          | Dec-16                                      |  |
|      |            |         | Replace/repair high priority items identified during circuit assessment                            | To be completed 2017              | 0%  |  |
|      |            |         | Install additional Supervisory Control and Data Acquisition (SCADA) switch                         | To be completed in 2017           | 50%   |  |
| 23   | Lynnville  | 00737-1 | <i>Performance was driven by trees off ROW (%), vehicle (27%), and trees on ROW (20%).</i>         |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |            |         | Replace main line crossarm   | Complete                          | Apr-16                                      |  |
|      |            |         | Overhead circuit inspection  | Complete                          | Mar-17                                      |  |
|      |            |         | Replace crossarms from inspection (Location #1)  | To be completed 2017              | 0%  |  |
|      |            |         | Replace crossarms from inspection (Location #2)  | To be completed 2017              | 0%  |  |
|      |            |         | Replace insulator from inspection  | To be completed 2017              | 0%  |  |
| 24   | Lynnville  | 00735-1 | <i>Performance was driven by wind (44%) and trees off ROW (30%).</i>                               |                                   |   |  |
|      |            |         | Engineering circuit coordination review  | Complete                          | Aug-16                                      |  |
|      |            |         | Mainline recloser replacement  | Complete                          | Nov-16                                      |  |
|      |            |         | Circuit coordination improvements  | Complete                          | Nov-16                                      |  |
|      |            |         | Replace tap recloser   | Complete                          | Feb-17                                      |  |
|      |            |         | Overhead circuit inspection  | To be completed 2017              | 19%   |  |
| 25   | Baldy      | 00736-1 | <i>Performance was driven by line failures (57%), trees on ROW (16%), and trees off ROW (11%).</i> |                                   |   | 4Q 2016<br>1Q 2017                       |
|      |            |         | Overhead circuit inspection  | Complete                          | May-16                                      |  |
|      |            |         | Repair pole tops from inspection   | Complete                          | Sep-16                                      |  |
|      |            |         | Upgrade main line recloser   | Complete                          | Jan-17                                      |  |
|      |            |         | Replace main line poles  | Complete                          | Feb-17                                      |  |
|      |            |         | Insulator repair from inspection   | To be completed 2017              | 25%   |  |
|      |            |         | On cycle tree trimming   | To be completed 2017              | 33%   |  |
| 26   | Crossroads | 00728-4 | <i>Performance was driven by equipment failure (33%) and trees off ROW (51%).</i>                  |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |            |         | Replace/repair high priority items identified during circuit patrol                                | Complete                          | May-16                                      |  |
|      |            |         | Overhead circuit inspection  | Complete                          | Sep-16                                      |  |
|      |            |         | Replace poles identified during wood pole inspection   | Complete                          | Nov-16                                      |  |

| Rank | Substation     | Circuit | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
|------|----------------|---------|---|-----------------------------------|---|--|
| 27   | Germantown     | 00757-4 | <i>Performance was driven by vehicle (75%) and line failures (11%).</i>                 |                                   |   | 4Q 2016<br>1Q 2017                       |
|      |                |         | Overhead circuit inspection   | Complete                          | Oct-16                                      |  |
|      |                |         | On cycle tree trimming  | Complete                          | Dec-16                                      |  |
|      |                |         | Replace the vehicle contact pole and make associated repairs at the time of restoration | Complete                          | Dec-16                                      |  |
| 28   | Shawnee        | 00837-3 | <i>Performance was driven by unknown (44%) and trees off ROW (41%).</i>                 |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                |         | Perform accelerated backbone and three phase circuit assessment                         | Complete                          | Dec-16                                      |  |
|      |                |         | Replace/repair high priority items identified during circuit assessment                 | Complete                          | Dec-16                                      |  |
|      |                |         | Overhead circuit inspection   | To be completed 2017              | 0%  |  |
|      |                |         | Install Supervisory Control and Data Acquisition (SCADA) switch                         | To be completed 2017              | 50%   |  |
| 29   | North Cornwall | 00610-2 | <i>Performance was driven by trees off ROW (28% and equipment failure (57%).</i>        |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1 Q2017 |
|      |                |         | Install additional main line recloser   | Complete                          | Jun-16                                      |  |
|      |                |         | On cycle tree trimming  | Complete                          | Sep-16                                      |  |
|      |                |         | Replace recloser  | Complete                          | Sep-16                                      |  |
|      |                |         | Conduct thermal scan of the three phase main line and replace damaged equipment         | Complete                          | Nov-16                                      |  |
|      |                |         | Overhead circuit inspection   | Complete                          | Dec-16                                      |  |
|      |                |         | Install fuses   | To be completed 2017              | 5%  |  |
| 30   | Glendon        | 00805-3 | <i>Performance was driven by trees off ROW (98%).</i>                                   |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                |         | Forestry zone 1 aerial patrol   | Complete                          | Jul-16                                      |  |
|      |                |         | On cycle tree trimming  | Complete                          | Aug-16                                      |  |
|      |                |         | Perform accelerated backbone and three phase circuit assessment                         | Complete                          | Dec-16                                      |  |
| 31   | Northwood      | 00821-3 | <i>Performance was driven by vehicle (71%).</i>   |                                   |   | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|      |                |         | Perform accelerated backbone and three phase circuit assessment                         | Complete                          | Dec-16                                      |  |
|      |                |         | Replace crossarms   | To be completed 2017              | 50%   |  |
| 32   | Shawnee        | 00822-3 | <i>Performance was driven by equipment failure (44%) and trees off ROW (28%).</i>       |                                   |   | 3Q 2016<br>1Q 2017                       |
|      |                |         | Install additional Supervisory Control and Data Acquisition (SCADA) switches            | Complete                          | Dec-16                                      |  |
|      |                |         | Targeted Mainline Circuit Rehabilitation  | To be completed 2017              | 0%  |  |
|      |                |         | Enhanced three phase tree trimming  | To be completed 2017              | 2%  |  |

| Rank | Substation    | Circuit | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |                               |
|------|---------------|---------|---|-----------------------------------|---|-----------------------------|-------------------------------|
| 33   | South Hamburg | 00801-1 | <i>Performance was driven by trees off ROW (50%), equipment failure (17%), and vehicle (16%).</i> |                                   |   |                             | 4Q 2016<br>1Q 2017            |
|      |               |         | Upgrade main line reclosers   | Complete                          | Jul-16                                      |                             |                               |
|      |               |         | On cycle tree trimming  | Complete                          | Aug-16                                      |                             |                               |
|      |               |         | Replace crossarms from inspection   | Complete                          | Dec-16                                      |                             |                               |
|      |               |         | Engineering circuit coordination review   | Complete                          | Dec-16                                      |                             |                               |
|      |               |         | Circuit coordination improvements   | Complete                          | Jan-17                                      |                             |                               |
| 34   | Belfast       | 00849-3 | <i>Performance was driven by line failure (88%).</i>  |                                   |   |                             | 4Q 2016<br>1Q 2017            |
|      |               |         | On cycle tree trimming  | Complete                          | Jan-17                                      |                             |                               |
| 35   | Belfast       | 00817-3 | <i>Performance was driven by trees off ROW (49%) and vehicle (22%).</i>                           |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |               |         | Forestry zone 1 aerial patrol   | Complete                          | Jul-16                                      |                             |                               |
|      |               |         | Perform accelerated backbone and three phase circuit assessment                                   | Complete                          | Dec-16                                      |                             |                               |
|      |               |         | Install Supervisory Control and Data Acquisition (SCADA) on recloser                              | To be completed 2017              | 50%   |                             |                               |
|      |               |         | Install Supervisory Control and Data Acquisition (SCADA) switch                                   | To be completed 2017              | 50%   |                             |                               |
|      |               |         | Replace/repair high priority items identified during circuit assessment                           | To be completed 2017              | 50%   |                             |                               |
|      |               |         | Install fault indicators  | To be completed 2017              | 50%   |                             |                               |
| 36   | Glenside      | 00535-1 | <i>Performance was driven by wind (52%) and equipment failure (16%).</i>                          |                                   |   |                             |                               |
|      |               |         | Upgrade mainline underground distribution cable and equipment                                     | Complete                          | Jan-17                                      |                             |                               |
|      |               |         | Repair mainline guy wire  | Complete                          | Feb-17                                      |                             |                               |
| 37   | North Bangor  | 00814-3 | <i>Performance was driven by unknown (82%).</i>   |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |               |         | Forestry zone 1 aerial patrol   | Complete                          | Jul-16                                      |                             |                               |
|      |               |         | Overhead circuit inspection   | Complete                          | Oct-16                                      |                             |                               |
| 38   | Baldy         | 00738-1 | <i>Performance was driven by wind (47%) and trees off ROW (30%).</i>                              |                                   |   |                             |                               |
|      |               |         | Overhead circuit inspection   | Complete                          | Nov-16                                      |                             |                               |
|      |               |         | Replace crossarms from inspection   | Complete                          | Jan-17                                      |                             |                               |
|      |               |         | Replace arresters from inspection   | To be completed 2017              | 0%  |                             |                               |
| 39   | Windsor       | 00797-4 | <i>Performance was driven by trees off ROW (51%).</i>   |                                   |   |                             | 4Q 2016<br>1Q 2017            |
|      |               |         | Upgrade reclosers   | Complete                          | Sep-16                                      |                             |                               |
|      |               |         | On cycle tree trimming  | To be completed 2017              | 0%  |                             |                               |

| Unranked circuits appearing 2 or more quarters in the last 4 quarters |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| Substation  | Circuit | Q2 2016 | Q3 2016 | Q4 2016 | Q1 2017 |
| Barto   | 00705-1 | X       | X       |         |         |
| Birdsboro   | 00756-1 | X       | X       |         |         |
| Collins   | 00761-2 |         | X       | X       |         |
| Fairview  | 00519-4 | X       | X       |         |         |
| Flying Hills  | 00776-1 | X       | X       |         |         |
| Fox Hill  | 00850-3 | X       | X       | X       |         |
| Lickdale  | 00626-2 | X       | X       |         |         |
| Menges Mills  | 00543-4 |         | X       | X       |         |
| North Bangor  | 00813-3 | X       | X       |         |         |
| North Lebanon   | 00712-2 | X       | X       | X       |         |
| Raubsville  | 00079-3 | X       | X       |         |         |
| Ringing Rocks   | 00708-1 | X       | X       |         |         |
| South Hamburg   | 00743-1 | X       | X       |         |         |
| South Lebanon   | 00772-2 | X       | X       | X       |         |
| Swatara Hill  | 00763-2 | X       | X       | X       |         |
| Weisenberg  | 00602-1 |         | X       | X       |         |

| Unranked circuits with remedial actions scheduled to be or recently completed |         |  |                         |                           |
|---|---------|--|-------------------------|---------------------------|
| Substation  | Circuit | Remedial Action Planned  | Status of Remedial Work | Progress of Remedial Work |
| Annville  | 00743-2 | Enhanced three phase tree trimming   | To be completed 2017    | 0%                        |
|   |         | Targeted main line circuit rehabilitation                                      | To be completed 2017    | 0%                        |
| Barto   | 00705-1 | Replace porcelain cutouts on circuit three phase with polymer cutouts          | To be completed 2017    | 0%                        |
|   |         | Enhanced three phase tree trimming   | To be completed 2017    | 0%                        |
|   |         | Install Supervisory Control and Data Acquisition (SCADA) switches and recloser | To be completed 2017    | 0%                        |

| Unranked circuits with remedial actions scheduled to be or recently completed |         |   |                                    |                           |
|---|---------|---|------------------------------------|---------------------------|
| Substation  | Circuit | Remedial Action Planned   | Status of Remedial Work            | Progress of Remedial Work |
| Bern Church   | 00789-1 | Enhanced three phase tree trimming  | To be completed 2017               | 0%                        |
|   |         | Targeted main line circuit rehabilitation                                       | To be completed 2017               | 0%                        |
|   |         | Eliminate two off-road line sections  | To be completed 2017               | 0%                        |
| Birdsboro   | 00756-1 | Install additional Supervisory Control and Data Acquisition (SCADA) switches    | To be completed 2017               | 0%                        |
|   |         | Enhanced three phase tree trimming  | To be completed 2017               | 0%                        |
|   |         | Targeted main line circuit rehabilitation                                       | To be completed 2017               | 0%                        |
|   |         | Create circuit tie  | To be completed 2017               | 0%                        |
| Collins   | 00761-2 | Install fault indicators  | To be completed 2017               | 50%                       |
|   |         | Replace fuse with recloser  | To be completed 2017               | 15%                       |
|   |         | Install animal guarding   | To be completed 2017               | 5%                        |
| Clearfield  | 00631-3 | On cycle tree trimming  | To be completed 2017               | 0%                        |
| Flying Hills  | 00776-1 | Repair/replace poles from overhead inspection                                   | To be completed 2017               | 0%                        |
|   |         | Replace main line arrester from overhead inspection                             | To be completed 2017               | 0%                        |
|   |         | Install additional Supervisory Control and Data Acquisition (SCADA) switches    | To be completed 2017               | 0%                        |
|   |         | Create circuit tie  | To be completed 2017               | 0%                        |
| Fox Hill  | 00816-3 | Create circuit ties and loops   | To be completed 2017 <sup>29</sup> | 0%                        |
|   |         | Enhanced three phase tree trimming  | To be completed 2017               | 8%                        |
|   |         | Install Supervisory Control and Data Acquisition (SCADA) switches and reclosers | To be completed 2017               | 0%                        |
| Leesport  | 00811-1 | Replace porcelain cutouts on circuit three phase with polymer cutouts           | To be completed 2017               | 0%                        |
|   |         | Enhanced three phase tree trimming  | To be completed 2017               | 0%                        |
|   |         | Targeted main line circuit rehabilitation                                       | To be completed 2017               | 0%                        |
| Menges Mills  | 00543-4 | On cycle tree trimming  | To be completed 2017               | 0%                        |

<sup>29</sup> Project was listed with a 2016 completion date but has been deferred to 2017.

| Unranked circuits with remedial actions scheduled to be or recently completed |         |   |                         |                           |
|---|---------|---|-------------------------|---------------------------|
| Substation  | Circuit | Remedial Action Planned   | Status of Remedial Work | Progress of Remedial Work |
| North Bangor  | 00813-3 | Targeted main line circuit rehabilitation                           | To be completed 2017    | 0%                        |
|   |         | Enhanced three phase tree trimming                                  | To be completed 2017    | 0%                        |
| North Bangor  | 00826-3 | Enhanced three phase tree trimming                                  | To be completed 2017    | 0%                        |
| North Hanover   | 00509-4 | On cycle tree trimming  | To be completed 2017    | 0%                        |
| North Lebanon   | 00712-2 | On cycle tree trimming  | To be completed 2017    | 0%                        |
| Snydersville  | 00621-3 | Enhanced three phase tree trimming                                  | To be completed 2017    | 0%                        |
|   |         | Targeted main line circuit rehabilitation                           | To be completed 2017    | 0%                        |
| South Lebanon   | 00772-2 | Repair/replace recloser from inspection                             | To be completed 2017    | 0%                        |
| Swatara Hill  | 00763-2 | Repair items found during inspection                                | To be completed 2017    | 5%                        |
|   |         | Overhead circuit inspection   | To be completed 2017    | 0%                        |
|   |         | Construct circuit tie   | To be completed 2017    | 0%                        |
| Violet Hill   | 00527-4 | On cycle tree trimming  | To be completed 2017    | 0%                        |
| Weisenberg  | 00602-1 | Replace broken tap recloser   | To be completed 2017    | 0%                        |
|   |         | Install additional tap fuses  | To be completed 2017    | 0%                        |
| West Boyertown  | 00714-1 | Replace main line switch  | To be completed 2017    | 75%                       |
|   |         | Replace crossarms from inspection                                   | To be completed 2017    | 50%                       |
|   |         | Repair ground wire connections from inspection                      | To be completed 2017    | 25%                       |
|   |         | On cycle tree trimming  | To be completed 2017    | 10%                       |
| Whiteford   | 00687-4 | Replace a pole and repair equipment                                 | To be completed 2017    | 0%                        |
|   |         | Replace/repair high priority items identified during circuit patrol | To be completed 2017    | 0%                        |
| Windsor   | 00797-4 | On cycle tree trimming  | To be completed 2017    | 0%                        |

| Pended |              |          |  |                                   |   |                             |         |
|--------|--------------|----------|--|-----------------------------------|---|-----------------------------|---------|
| Rank   | Substation   | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |         |
| 1      | Warren South | 00220-41 | <i>Performance was driven by trees off ROW (67%) and vehicle (16%).</i>                  |                                   |   |                             | 2Q 2016 |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Aug-16                                      | 3Q 2016                     |         |
|        |              |          | On cycle tree trimming   | Complete                          | Nov-16                                      | 4Q 2016                     |         |
|        |              |          | Repair damage caused by a vehicle  | Complete                          | Jan-17                                      | 1Q 2017                     |         |
| 2      | Russell Hill | 00282-65 | <i>Performance was driven by trees off ROW (93%).</i>                                    |                                   |   |                             | 2Q 2016 |
|        |              |          | Repair damage caused by trees  | Complete                          | Sep-16                                      | 3Q 2016                     |         |
|        |              |          | On cycle tree trimming   | Complete                          | Oct-16                                      | 4Q 2016<br>1Q 2017          |         |
| 3      | Union City   | 00206-43 | <i>Performance was driven by trees off ROW (67%) and lightning (21%).</i>                |                                   |   |                             |         |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Jun-16                                      | 2Q 2016                     |         |
|        |              |          | Create circuit tie with Morgan Street substation   | Complete                          | Aug-16                                      | 3Q 2016                     |         |
|        |              |          | Repair damage caused by lightning during a storm   | Complete                          | Sep-16                                      | 4Q 2016                     |         |
|        |              |          | On cycle tree trimming   | Complete                          | Dec-16                                      | 1Q 2017                     |         |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |         |
| 4      | East Pike    | 00096-13 | <i>Performance was driven by lightning (43%) and equipment failure (42%).</i>            |                                   |   |                             |         |
|        |              |          | Repair damage caused by lightning  | Complete                          | Jul-16                                      |                             |         |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Jul-16                                      | 4Q 2016                     |         |
|        |              |          | Repair equipment failure   | Complete                          | Nov-16                                      | 1Q 2017                     |         |
| 5      | Brookville   | 00125-23 | <i>Performance was driven by trees off ROW (72%) and equipment failure (21%).</i>        |                                   |   |                             |         |
|        |              |          | Porcelain cutout replacement   | Complete                          | Aug-16                                      |                             |         |
|        |              |          | Repair equipment failure   | Complete                          | Sep-16                                      | 3Q 2016                     |         |
|        |              |          | Repair equipment failure   | Complete                          | Jan-17                                      | 4Q 2016                     |         |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Feb-17                                      | 1Q 2017                     |         |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |         |
| 6      | Springboro   | 00237-52 | <i>Performance was driven by trees off ROW (42%), animal (25%), and lightning (17%).</i> |                                   |   |                             |         |
|        |              |          | Repair damage caused by trees during a storm   | Complete                          | Jun-16                                      | 2Q 2016                     |         |
|        |              |          | Repair damage caused by lightning  | Complete                          | Jul-16                                      | 3Q 2016                     |         |
|        |              |          | Circuit inspection   | Complete                          | Sep-16                                      | 4Q 2016                     |         |
|        |              |          | Repair damage from animal contact  | Complete                          | Oct-16                                      | 1Q 2017                     |         |
|        |              |          | Repair damage caused by trees  | Complete                          | Dec-16                                      |                             |         |
|        |              |          | Targeted circuit rehabilitation  | To be completed 2017              | 0%  |                             |         |

| Rank | Substation                    | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
|------|-------------------------------|----------|--|-----------------------------------|---|-----------------------------|--|
| 7    | Blairsville East              | 00081-13 | <i>Performance was driven by lightning (25%), trees off ROW (27%), and animal (18%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                               |          | Repair equipment failure   | Complete                          | May-16                                      |                             |  |
|      |                               |          | Repair damage caused by lightning during a storm   | Complete                          | Jul-16                                      |                             |  |
|      |                               |          | Repair damage caused by animals  | Complete                          | Aug-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees  | Complete                          | Aug-16                                      |                             |  |
|      |                               |          | Circuit inspection   | To be completed 2017              | 0%  |                             |  |
| 8    | North Towanda                 | 00521-62 | <i>Performance was driven by trees off ROW (43%) and line failure (40%).</i>             |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                               |          | Repair line failure  | Complete                          | Apr-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Jul-16                                      |                             |  |
| 9    | Marienville                   | 00328-51 | <i>Performance was driven by trees off ROW (82%) and lightning (12%).</i>                |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                               |          | Repair damage caused by lightning during a storm   | Complete                          | Aug-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees  | Complete                          | Sep-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |
|      |                               |          | Install new radio controlled switch  | To be completed 2017              | 0%  |                             |  |
| 10   | Osceola                       | 00318-63 | <i>Performance was driven by trees off ROW (95%).</i>                                    |                                   |   |                             |  |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Oct-16                                      |                             |  |
| 11   | Warren 5 <sup>th</sup> Avenue | 00250-41 | <i>Performance was driven by trees off ROW (96%).</i>                                    |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Jun-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees  | Complete                          | Jun-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Aug-16                                      |                             |  |
| 12   | Union City                    | 00208-43 | <i>Performance was driven by trees off ROW (56%) and equipment failure (31%).</i>        |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Aug-16                                      |                             |  |
|      |                               |          | Circuit inspection   | Complete                          | Oct-16                                      |                             |  |
|      |                               |          | Porcelain cutout replacement   | Complete                          | Jan-17                                      |                             |  |
|      |                               |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |
| 13   | Tunkhannock                   | 00533-65 | <i>Performance was driven by non-company human error (64%) and trees off ROW (15%).</i>  |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                               |          | Repair equipment failure   | Complete                          | Apr-16                                      |                             |  |
|      |                               |          | Repair damage caused by trees  | Complete                          | Oct-16                                      |                             |  |
|      |                               |          | Repair damage caused by non-company human error  | Complete                          | Jan-17                                      |                             |  |
|      |                               |          | Repair damage caused by non-company human error  | Complete                          | Feb-17                                      |                             |  |
|      |                               |          | Targeted circuit rehabilitation  | To be completed 2017              | 0%  |                             |  |
|      |                               |          | Install new radio controlled recloser  | To be completed 2017              | 0%  |                             |  |
|      |                               |          | Circuit inspection   | To be completed 2017              | 0%  |                             |  |

| Rank               | Substation           | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
|--------------------|----------------------|----------|--|-----------------------------------|---|-----------------------------|--|
| 14                 | Mount Union          | 00154-82 | <i>Performance was driven by vehicle (45%), line failure (31%), and trees off ROW (22%).</i>           |                                   |   |                             | 4Q 2016<br>1Q 2017                       |
|                    |                      |          | Repair damage caused by a vehicle  | Complete                          | Oct-16                                      |                             |  |
|                    |                      |          | Repair line failure  | Complete                          | Nov-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Nov-16                                      |                             |  |
|                    |                      |          | Repair damage caused by a vehicle  | Complete                          | Mar-17                                      |                             |  |
| 15                 | Utica Junction       | 00318-51 | <i>Performance was driven by trees off ROW (90%).</i>  |                                   |   |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |
| 16                 | Tionesta Junction    | 00498-51 | <i>Performance was driven by equipment failure (32%), trees off ROW (31%), and line failure (20%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                    |                      |          | Repair equipment failure   | Complete                          | Jun-16                                      |                             |  |
|                    |                      |          | Repair line failure  | Complete                          | Jun-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Aug-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees  | Complete                          | Sep-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Nov-16                                      |                             |  |
|                    |                      |          | Targeted circuit rehabilitation  | To be completed 2017              | 0%  |                             |  |
| Circuit inspection | To be completed 2017 | 0%       |  |                                   |   |                             |  |
| 17                 | Philipsburg          | 00164-22 | <i>Performance was driven by equipment failure (61%) and line failure (25%).</i>                       |                                   |   |                             |  |
|                    |                      |          | Repair equipment failure   | Complete                          | Mar-17                                      |                             |  |
|                    |                      |          | Repair line failure  | Complete                          | Mar-17                                      |                             |  |
| 18                 | DuBois               | 00137-23 | <i>Performance was driven by trees off ROW (56%) and equipment failure (36%).</i>                      |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                    |                      |          | Repair equipment failure   | Complete                          | May-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees  | Complete                          | Jul-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Nov-16                                      |                             |  |
|                    |                      |          | Repair damage caused by tree during a storm  | Complete                          | Mar-17                                      |                             |  |
| 19                 | Logan                | 00700-81 | <i>Performance was driven by trees off ROW (92%).</i>  |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                    |                      |          | Repair damage caused by trees  | Complete                          | Jun-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees  | Complete                          | Jul-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees  | Complete                          | Aug-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Nov-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Nov-16                                      |                             |  |
|                    |                      |          | Repair damage caused by trees  | Complete                          | Dec-16                                      |                             |  |
| 20                 | Bradford South       | 00106-42 | <i>Performance was driven by trees off ROW (47%) and equipment failure (46%).</i>                      |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                    |                      |          | Repair equipment failure   | Complete                          | Dec-16                                      |                             |  |
|                    |                      |          | Repair equipment failure   | Complete                          | Jan-17                                      |                             |  |
|                    |                      |          | Repair equipment failure   | Complete                          | Jan-17                                      |                             |  |
|                    |                      |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |

| Rank                   | Substation           | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
|------------------------|----------------------|----------|--|-----------------------------------|---|-----------------------------|--|
| 21                     | Tiffany              | 00440-65 | <i>Performance was driven by equipment failure (89%).</i>  |                                   |   |                             |  |
|                        |                      |          | Repair equipment failure   | Complete                          | Jan-17                                      |                             |  |
|                        |                      |          | Repair equipment failure   | Complete                          | Feb-17                                      |                             |  |
|                        |                      |          | Repair equipment failure   | Complete                          | Mar-17                                      |                             |  |
| 22                     | East Hickory         | 00200-41 | <i>Performance was driven by trees off ROW (91%).</i>  |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Apr-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Jun-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees  | Complete                          | Aug-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Sep-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Oct-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |
| 23                     | Edinboro             | 00420-34 | <i>Performance was driven by line failure (37%), equipment failure (30%), and a breaker operation of an unknown cause (24%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                        |                      |          | Restore breaker operation of unknown cause during a storm  | Complete                          | Apr-16                                      |                             |  |
|                        |                      |          | Repair equipment failure   | Complete                          | May-16                                      |                             |  |
|                        |                      |          | Repair line failure  | Complete                          | Jul-16                                      |                             |  |
|                        |                      |          | Circuit inspection   | To be completed 2017              | 0%  |                             |  |
| 24                     | Brooklyn             | 00749-65 | <i>Performance was driven by wind (62%) and non-company human error (32%).</i>   |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Apr-16                                      |                             |  |
|                        |                      |          | Repair damage caused by non-company human error  | Complete                          | Jun-16                                      |                             |  |
|                        |                      |          | Circuit inspection   | To be completed 2017              | 0%  |                             |  |
| 25                     | Punxsutawney         | 00625-23 | <i>Performance was driven by trees off ROW (73%) and line failure (25%).</i>   |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Apr-16                                      |                             |  |
|                        |                      |          | Repair line failure  | Complete                          | May-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees  | Complete                          | Sep-16                                      |                             |  |
|                        |                      |          | Circuit inspection   | To be completed 2017              | 0%  |                             |  |
| On cycle tree trimming | To be completed 2017 | 0%       |  |                                   |   |                             |  |
| 26                     | Crown                | 00320-51 | <i>Performance was driven by trees off ROW (55%) and equipment failure (32%).</i>  |                                   |   |                             | 4Q 2016<br>1Q 2017                       |
|                        |                      |          | Repair equipment failure   | Complete                          | Apr-16                                      |                             |  |
|                        |                      |          | Repair damage caused by trees  | Complete                          | Oct-16                                      |                             |  |
|                        |                      |          | Repair equipment failure   | Complete                          | Jan-17                                      |                             |  |
|                        |                      |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |

| Rank | Substation    | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
|------|---------------|----------|--|-----------------------------------|---|--|
| 27   | Morgan Street | 00240-52 | <i>Performance was driven by vehicles (28%), a recloser operation of an unknown cause (26%), and line failure (19%).</i>     |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |               |          | Repair damage caused by a vehicle  | Complete                          | May-16                                      |  |
|      |               |          | Repair damage caused by trees  | Complete                          | Jun-16                                      |  |
|      |               |          | Restore recloser operation of unknown cause  | Complete                          | Jul-16                                      |  |
|      |               |          | Repair line failure  | Complete                          | Mar-17                                      |  |
|      |               |          | Restore breaker operation of unknown cause   | Complete                          | Mar-17                                      |  |
| 28   | Knox          | 00323-51 | <i>Performance was driven by trees off ROW (69%) and line failure (21%).</i>   |                                   |   | 4Q 2016<br>1Q 2017                       |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Aug-16                                      |  |
|      |               |          | Repair line failure  | Complete                          | Nov-16                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |  |
| 29   | Pemberton     | 00096-82 | <i>Performance was driven by trees off ROW (97%).</i>  |                                   |   |  |
|      |               |          | Repair damage caused by trees  | Complete                          | Jan-17                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |  |
| 30   | Grandview     | 00354-51 | <i>Performance was driven by trees off ROW (79%) and line failure (11%).</i>   |                                   |   | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|      |               |          | Repair damage caused by trees  | Complete                          | Jun-16                                      |  |
|      |               |          | Repair line failure  | Complete                          | Aug-16                                      |  |
|      |               |          | Circuit inspection   | Complete                          | Aug-16                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Sep-16                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |  |
| 31   | Somerset      | 00030-12 | <i>Performance was driven by trees off ROW (41%), a breaker operation of an unknown cause (23%), and line failure (19%).</i> |                                   |   | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|      |               |          | Restored breaker operation of unknown cause  | Complete                          | Apr-16                                      |  |
|      |               |          | Repair equipment failure   | Complete                          | May-16                                      |  |
|      |               |          | Repair line failure  | Complete                          | Aug-16                                      |  |
|      |               |          | Circuit inspection   | Complete                          | Aug-16                                      |  |
|      |               |          | Repair line failure  | Complete                          | Nov-16                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Feb-17                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Feb-17                                      |  |
|      |               |          | On cycle tree trimming   | To be completed 2017              | 0%  |  |
| 32   | North Warren  | 00207-41 | <i>Performance was driven by trees off ROW (59%) and line failure (28%).</i>   |                                   |   | 2Q 2016<br>3Q 2016<br>1Q 2017            |
|      |               |          | Repair damage caused by lighting   | Complete                          | Aug-16                                      |  |
|      |               |          | Repair line failure  | Complete                          | Feb-17                                      |  |
|      |               |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |  |

| Rank | Substation      | Circuit  | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
|------|-----------------|----------|---|-----------------------------------|---|-----------------------------|--|
| 33   | Erie East       | 00234-31 | <i>Performance was driven by equipment failure (37%), animal (28%, and trees off ROW (16%).</i>             |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                 |          | Repair damage caused by animal contact  | Complete                          | Aug-16                                      |                             |  |
|      |                 |          | Repair equipment failure  | Complete                          | Aug-16                                      |                             |  |
|      |                 |          | Repair equipment failure  | Complete                          | Nov-16                                      |                             |  |
|      |                 |          | Repair damage caused by trees   | Complete                          | Mar-17                                      |                             |  |
|      |                 |          | Circuit inspection  | To be completed 2017              | 0%  |                             |  |
|      |                 |          | On cycle tree trimming  | To be completed 2017              | 0%  |                             |  |
| 34   | Sykesville      | 00726-23 | <i>Performance was driven by vehicle (57%) and trees off ROW (24%).</i>                                     |                                   |   |                             | 4Q 2016<br>1Q 2017                       |
|      |                 |          | Repair damage caused by a vehicle   | Complete                          | Dec-16                                      |                             |  |
|      |                 |          | Repair damage caused by trees during a storm  | Complete                          | Mar-17                                      |                             |  |
| 35   | Utica Junction  | 00331-51 | <i>Performance was driven by trees off ROW (77%) and vehicle (15%).</i>                                     |                                   |   |                             | 3Q 2016<br>1Q 2017                       |
|      |                 |          | Repair damage caused by a vehicle   | Complete                          | Jun-16                                      |                             |  |
|      |                 |          | Repair damage caused by trees during a storm  | Complete                          | Sep-16                                      |                             |  |
|      |                 |          | Repair damage caused by trees during a storm  | Complete                          | Mar-17                                      |                             |  |
|      |                 |          | Circuit inspection  | To be completed 2017              | 0%  |                             |  |
| 36   | South Mansfield | 00617-63 | <i>Performance was driven by a breaker operation of an unknown cause (66%) and equipment failure (25%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|      |                 |          | Restore breaker operation of unknown cause  | Complete                          | Apr-16                                      |                             |  |
|      |                 |          | Repair damage caused by animal contact  | Complete                          | Jun-16                                      |                             |  |
|      |                 |          | Repair equipment failure  | Complete                          | Jul-16                                      |                             |  |
|      |                 |          | Circuit inspection  | To be completed 2017              | 0%  |                             |  |
| 37   | Falls           | 00297-65 | <i>Performance was driven by trees off ROW (81%) and lightning (12%).</i>                                   |                                   |   |                             | 2Q 2016<br>1Q 2017                       |
|      |                 |          | Repair damage caused by lightning   | Complete                          | May-16                                      |                             |  |
|      |                 |          | Circuit inspection  | Complete                          | Aug-16                                      |                             |  |
|      |                 |          | Repair damage caused by trees during a storm  | Complete                          | Mar-17                                      |                             |  |
| 38   | DuBois          | 00134-23 | <i>Performance was driven by line failure (51%), equipment failure (27%) and trees off ROW (18%).</i>       |                                   |   |                             |  |
|      |                 |          | Repair equipment failure  | Complete                          | Jul-16                                      |                             |  |
|      |                 |          | Repair damage caused by tress during a storm  | Complete                          | Feb-17                                      |                             |  |
|      |                 |          | Repair line failure   | Complete                          | Mar-17                                      |                             |  |
| 39   | Summit Hill     | 00500-31 | <i>Performance was driven by line failure (51% and trees off ROW (36%).</i>                                 |                                   |   |                             |  |
|      |                 |          | Repair line failure   | Complete                          | Mar-17                                      |                             |  |
|      |                 |          | Repair damage caused by tress during a storm  | Complete                          | Mar-17                                      |                             |  |

| Penelec |              |          |  |                                   |   |                             |  |
|---------|--------------|----------|--|-----------------------------------|---|-----------------------------|--|
| Rank    | Substation   | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 40      | Mansfield    | 00559-63 | <i>Performance was driven by equipment failure (71%), vehicle accident (10%), and trees off ROW (10%).</i> |                                   |   |                             |  |
|         |              |          | Repair damage caused by a vehicle  | Complete                          | Sep-16                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Jan-17                                      |                             |  |
|         |              |          | Repair equipment failure   | Complete                          | Mar-17                                      |                             |  |
|         |              |          | Repair equipment failure   | Complete                          | Mar-17                                      |                             |  |
| 41      | Boyer        | 00583-31 | <i>Performance was driven by trees off ROW (47%), line failure (13%), and trees on ROW (11%).</i>          |                                   |   |                             | 2Q 2016<br>1Q 2017                       |
|         |              |          | Repair line failure  | Complete                          | Apr-16                                      |                             |  |
|         |              |          | Repair damage caused by trees on ROW during a storm  | Complete                          | Jan-17                                      |                             |  |
|         |              |          | Repair line failure  | Complete                          | Feb-17                                      |                             |  |
| 42      | Tyrone North | 00944-22 | <i>Performance was driven by equipment failure (39%), line failure (33%), and trees off ROW (9%).</i>      |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|         |              |          | Repair equipment failure   | Complete                          | May-16                                      |                             |  |
|         |              |          | Repair line failure  | Complete                          | May-16                                      |                             |  |
|         |              |          | Repair damage caused by trees  | Complete                          | Nov-16                                      |                             |  |
|         |              |          | On cycle tree trimming   | To be completed 2017              | 0%  |                             |  |
| 43      | Thompson     | 00436-65 | <i>Performance was driven by equipment failure (49%) and trees off ROW (43%).</i>                          |                                   |   |                             | 2Q 2016<br>4Q 2016<br>1Q 2017            |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Apr-16                                      |                             |  |
|         |              |          | Repair equipment failure during a storm  | Complete                          | Jun-16                                      |                             |  |
|         |              |          | Repair damage caused by trees  | Complete                          | Oct-16                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Oct-16                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Nov-16                                      |                             |  |
|         |              |          | Repair equipment failure   | Complete                          | Feb-17                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |  |
| 44      | North Warren | 00596-41 | <i>Performance was driven by equipment failure (45%) and trees off ROW (41%).</i>                          |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|         |              |          | Repair equipment failure   | Complete                          | Apr-16                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Jun-16                                      |                             |  |
|         |              |          | Repair equipment failure during a storm  | Complete                          | Jun-16                                      |                             |  |
|         |              |          | Repair damage caused by trees  | Complete                          | Oct-16                                      |                             |  |
|         |              |          | Circuit inspection   | To be completed 2017              | 0%  |                             |  |
| 45      | Timblin      | 00103-23 | <i>Performance was driven by trees off ROW (66%) and equipment failure (17%).</i>                          |                                   |   |                             |  |
|         |              |          | Install new radio controlled switch  | Complete                          | Jun-16                                      |                             |  |
|         |              |          | Porcelain cutout replacement   | Complete                          | Aug-16                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Feb-17                                      |                             |  |
|         |              |          | Repair damage caused by trees  | Complete                          | Feb-17                                      |                             |  |
|         |              |          | Repair damage caused by trees during a storm   | Complete                          | Feb-17                                      |                             |  |
|         |              |          | Targeted circuit rehabilitation  | To be completed 2017              | 0%  |                             |  |

| Rank | Substation        | Circuit  | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |
|------|-------------------|----------|--|-----------------------------------|---|-----------------------------|
| 46   | DuBois            | 00124-23 | <i>Performance was driven by trees off ROW (65%) and equipment failure (26%).</i>                  |                                   |   | 4Q 2016<br>1Q 2017          |
|      |                   |          | Repair damage caused by trees during a storm   | Complete                          | Apr-16                                      |                             |
|      |                   |          | Repair equipment failure   | Complete                          | Jun-16                                      |                             |
|      |                   |          | Repair equipment failure   | Complete                          | Aug-16                                      |                             |
|      |                   |          | Repair damage caused by trees  | Complete                          | Dec-16                                      |                             |
| 47   | Punxsutawney      | 00118-23 | <i>Performance was driven by line failure (80%).</i>   |                                   |   |                             |
|      |                   |          | Repair line failure  | Complete                          | Feb-17                                      |                             |
|      |                   |          | Repair line failure  | Complete                          | Mar-17                                      |                             |
|      |                   |          | Repair line failure  | Complete                          | Mar-17                                      |                             |
| 48   | Edgewood          | 00089-13 | <i>Performance was driven by trees off ROW (77%) and line failure (10%).</i>                       |                                   |   |                             |
|      |                   |          | Repair line failure  | Complete                          | Feb-17                                      |                             |
|      |                   |          | Repair damage caused by trees during a storm   | Complete                          | Feb-17                                      |                             |
|      |                   |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |
|      |                   |          | On cycle tree trimming   | To be completed 2017              | 0%  |                             |
| 49   | Somerset          | 00017-12 | <i>Performance was driven by equipment failure (39%), trees off ROW (27%), and vehicle (18%).</i>  |                                   |   | 4Q 2016<br>1Q 2017          |
|      |                   |          | Repair equipment failure   | Complete                          | Apr-16                                      |                             |
|      |                   |          | Repair damage caused by vehicle accident   | Complete                          | Aug-16                                      |                             |
|      |                   |          | Repair equipment failure   | Complete                          | Oct-16                                      |                             |
|      |                   |          | Restored fuse operation of unknown cause   | Complete                          | Oct-16                                      |                             |
|      |                   |          | Repair damage caused by trees during a storm   | Complete                          | Mar-17                                      |                             |
|      |                   |          | On cycle tree trimming   | To be completed 2017              | 0%  |                             |
| 50   | Lake Como         | 00786-65 | <i>Performance was driven by trees off ROW (66%) and vehicle (32%).</i>                            |                                   |   | 4Q 2016<br>1Q 2017          |
|      |                   |          | Repair damage caused by a vehicle  | Complete                          | Apr-16                                      |                             |
|      |                   |          | Repair damage caused by trees during a storm   | Complete                          | Oct-16                                      |                             |
| 51   | Natl Forge Sw Sta | 00577-41 | <i>Performance was driven by trees off ROW (72%) and forced outage due to primary fault (12%).</i> |                                   |   |                             |
|      |                   |          | Porcelain cutout replacement   | Complete                          | May-16                                      |                             |
|      |                   |          | Restored forced outage due to primary fault  | Complete                          | Jun-16                                      |                             |
|      |                   |          | Repair damage caused by trees  | Complete                          | Feb-17                                      |                             |

| Penelec   |                   |          |   |                                   |   |                             |  |
|---|-------------------|----------|---|-----------------------------------|---|-----------------------------|--|
| Rank  | Substation        | Circuit  | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 52  | Birmingham        | 00168-22 | <i>Performance was driven by trees off ROW (39%), line failure (18%), non-company human error (13%), and equipment failure (10%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|   |                   |          | Circuit inspection  | Complete                          | Jun-16                                      |                             |  |
|   |                   |          | Repair equipment failure  | Complete                          | Jul-16                                      |                             |  |
|   |                   |          | On cycle tree trimming  | Complete                          | Jul-16                                      |                             |  |
|   |                   |          | Targeted circuit rehabilitation   | Complete                          | Jul-16                                      |                             |  |
|   |                   |          | Repair damage caused by trees   | Complete                          | Aug-16                                      |                             |  |
|   |                   |          | Repair equipment failure  | Complete                          | Oct-16                                      |                             |  |
| Repair damage caused by non-company human error | Complete          | Dec-16   |   |                                   |   |                             |  |
| 53  | Starruca          | 00744-65 | <i>Performance was driven by trees off ROW (57%) and line failure (23%).</i>  |                                   |   |                             | 4Q 2016<br>1Q 2017                       |
|   |                   |          | Repair line failure   | Complete                          | Apr-16                                      |                             |  |
|   |                   |          | Repair damage caused by trees during a storm  | Complete                          | Oct-16                                      |                             |  |
|   |                   |          | Porcelain cutout replacement  | To be completed 2017              | 0%  |                             |  |
| 54  | East Hickory      | 00201-41 | <i>Performance was driven by trees off ROW (76%) and line failure (20%).</i>  |                                   |   |                             |  |
|   |                   |          | Repair damage caused by trees during a storm  | Complete                          | Sep-16                                      |                             |  |
|   |                   |          | Repair line failure   | Complete                          | Feb-17                                      |                             |  |
|   |                   |          | Repair damage caused by trees during a storm  | Complete                          | Mar-17                                      |                             |  |
| 55  | Wyalusing Sub     | 00532-62 | <i>Performance was driven by equipment failure (65%) and trees off ROW (22%).</i>   |                                   |   |                             |  |
|   |                   |          | Repair damage caused by trees   | Complete                          | Apr-16                                      |                             |  |
|   |                   |          | Repair equipment failure during a storm   | Complete                          | Jan-17                                      |                             |  |
|   |                   |          | Targeted circuit rehabilitation   | To be completed 2017              | 0%  |                             |  |
|   |                   |          | Circuit inspection  | To be completed 2017              | 0%  |                             |  |
| 56  | Monroeton         | 00716-62 | <i>Performance was driven by trees off ROW (88%) and ice (11%).</i>   |                                   |   |                             |  |
|   |                   |          | Repair damage caused by trees during a storm  | Complete                          | Jul-16                                      |                             |  |
|   |                   |          | Repair damage caused by ice   | Complete                          | Jan-17                                      |                             |  |
| 57  | West Tunkhannock  | 00231-65 | <i>Performance was driven by trees off ROW (89%).</i>   |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|   |                   |          | Repair damage caused by trees   | Complete                          | Jul-16                                      |                             |  |
| 58  | Cambridge Springs | 00462-52 | <i>Performance was driven by trees off ROW (98%).</i>   |                                   |   |                             |  |
|   |                   |          | Repair damage caused by trees during a storm  | Complete                          | Mar-17                                      |                             |  |
|   |                   |          | Repair damage caused by trees during a storm  | Complete                          | Mar-17                                      |                             |  |
| 59  | N Meshoppen Tran  | 00437-65 | <i>Performance was driven by line failure (60%) and vehicle (36%).</i>  |                                   |   |                             |  |
|   |                   |          | Repair line failure   | Complete                          | Aug-16                                      |                             |  |
|   |                   |          | Repair line failure   | Complete                          | Jan-17                                      |                             |  |
|   |                   |          | Repair damage caused by a vehicle   | Complete                          | Feb-17                                      |                             |  |

| Penelec |               |          |   |                                   |   |                             |  |
|---------|---------------|----------|---|-----------------------------------|---|-----------------------------|--|
| Rank    | Substation    | Circuit  | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 60      | Fairview East | 00216-34 | <i>Performance was driven by equipment failure (49%), lightning (34%), and recloser operation of unknown cause (11%).</i>     |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|         |               |          | Porcelain cutout replacement  | Complete                          | Jun-16                                      |                             |  |
|         |               |          | Repair equipment failure  | Complete                          | Jul-16                                      |                             |  |
|         |               |          | Repair damage caused by lightning   | Complete                          | Aug-16                                      |                             |  |
|         |               |          | Restore recloser operation of unknown cause   | Complete                          | Mar-17                                      |                             |  |
| 61      | Logan         | 00701-81 | <i>Performance was driven by equipment failure (63%) and trees off ROW (31%).</i>   |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|         |               |          | Repair damage caused by trees   | Complete                          | May-16                                      |                             |  |
|         |               |          | Repair equipment failure  | Complete                          | Jul-16                                      |                             |  |
|         |               |          | Circuit inspection  | Complete                          | Oct-16                                      |                             |  |
| 62      | Mansfield     | 00699-63 | <i>Performance was driven by line failure (63%) and equipment failure (19%).</i>  |                                   |   |                             |  |
|         |               |          | Repair line failure   | Complete                          | Nov-16                                      |                             |  |
|         |               |          | Repair equipment failure  | Complete                          | Jan-17                                      |                             |  |
| 63      | Page Road     | 00445-43 | <i>Performance was driven by trees off ROW (38%), line failure (34%), and a recloser operation of an unknown cause (23%).</i> |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|         |               |          | Repair damage caused by trees during a storm  | Complete                          | Apr-16                                      |                             |  |
|         |               |          | Restore recloser operation of unknown cause   | Complete                          | Apr-16                                      |                             |  |
|         |               |          | Repair line failure   | Complete                          | Apr-16                                      |                             |  |
|         |               |          | Repair line failure   | Complete                          | Jul-16                                      |                             |  |

| Unranked circuits appearing 2 or more quarters in the last 4 quarters |          |         |         |         |         |
|---|----------|---------|---------|---------|---------|
| Substation  | Circuit  | Q2 2016 | Q3 2016 | Q4 2016 | Q1 2017 |
| Athens  | 00514-61 | X       | X       | X       |         |
| Boyer   | 00584-31 | X       | X       |         |         |
| Brockway  | 00127-23 | X       | X       |         |         |
| Crown   | 00319-51 | X       | X       | X       |         |
| Fairview East   | 00218-34 | X       | X       | X       |         |
| French Road   | 00223-31 | X       | X       |         |         |
| Gold  | 00714-63 | X       | X       | X       |         |
| Grover  | 00527-63 | X       | X       |         |         |
| Hammett   | 00504-31 | X       | X       |         |         |
| Hilltop   | 00048-11 | X       | X       |         |         |
| Lake Como   | 00787-65 | X       | X       | X       |         |
| Madera  | 00166-22 | X       | X       | X       |         |
| Meshoppen   | 00283-65 | X       | X       |         |         |
| Mercer Pike   | 00473-52 | X       |         | X       |         |
| Millfair Road   | 00283-34 | X       | X       | X       |         |
| Mill Street   | 00144-42 | X       | X       |         |         |
| Morgan Street   | 00479-52 | X       | X       | X       |         |
| Northeast   | 00592-31 | X       | X       |         |         |
| North Warren  | 00207-41 | X       | X       |         |         |
| Philipsburg   | 00162-22 | X       | X       | X       |         |
| Portage   | 00081-72 | X       | X       |         |         |
| Powell Avenue   | 00237-31 | X       | X       | X       |         |
| Powell Avenue   | 00513-31 |         | X       | X       |         |
| Rolling Meadows   | 00310-31 | X       | X       | X       |         |
| Shawville   | 00151-21 | X       | X       |         |         |
| Spangler  | 00052-72 |         | X       | X       |         |
| Tiffany   | 00435-65 | X       | X       | X       |         |
| Warren 5 <sup>th</sup> Avenue   | 00252-41 | X       | X       | X       |         |

| <b>Pennepc</b>   |                |  |                                |                                  |
|--|----------------|--|--------------------------------|----------------------------------|
| <b>Unranked circuits with remedial actions scheduled to be or recently completed</b> |                |  |                                |                                  |
| <b>Substation</b>  | <b>Circuit</b> | <b>Remedial Action Planned</b>                     | <b>Status of Remedial Work</b> | <b>Progress of Remedial Work</b> |
| Athens   | 00514-61       | Targeted circuit rehabilitation                    | To be completed 2017           | 0%                               |
| Crown  | 00319-51       | Install new radio controlled switch                | To be completed 2017           | 0%                               |
|  |                | On cycle tree trimming                             | To be completed 2017           | 0%                               |
| Fairview East  | 00218-34       | Circuit inspection                                 | To be completed 2017           | 0%                               |
| Lake Como  | 00787-65       | Porcelain cutout replacement                       | To be completed 2017           | 0%                               |
| Mercer Pike  | 00473-52       | Circuit inspection                                 | To be completed 2017           | 0%                               |
| Philipsburg  | 00162-22       | Targeted circuit rehabilitation                    | To be completed 2017           | 0%                               |
|  |                | On cycle tree trimming                             | To be completed 2017           | 0%                               |
| Powell Avenue  | 00513-31       | Install new radio controlled switch                | To be completed 2017           | 0%                               |
| Powell Avenue  | 00237-31       | Targeted circuit rehabilitation                    | To be completed 2017           | 0%                               |
| Rolling Meadows  | 00310-31       | Targeted circuit rehabilitation                    | To be completed 2017           | 0%                               |
| Spangler   | 00052-72       | Add additional protection per circuit coordination | To be completed 2017           | 0%                               |
| Thompson   | 00442-65       | Circuit inspection                                 | To be completed 2017           | 0%                               |

| Penn Power                        |            |         |  |                                   |   |                             |  |
|-----------------------------------|------------|---------|--|-----------------------------------|---|-----------------------------|--|
| Rank                              | Substation | Circuit | Remedial Action Planned or Taken   | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 1                                 | Stoneboro  | W-132   | <i>Performance was driven by trees off ROW (71%) and line failure (9%).</i>                                      |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                                   |            |         | Repair damage caused by a tree   | Complete                          | Sep-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a vehicle  | Complete                          | Oct-16                                      |                             |  |
|                                   |            |         | Enhanced tree trimming   | Complete                          | Dec-16                                      |                             |  |
|                                   |            |         | Repair line failure.   | Complete                          | Mar-17                                      |                             |  |
| 2                                 | Seneca     | W701    | <i>Performance was driven by vehicle (86%), trees off ROW (4%), and bird (4%).</i>                               |                                   |   |                             |  |
|                                   |            |         | Repair damage caused by tree   | Complete                          | Mar-17                                      |                             |  |
|                                   |            |         | Repair damage caused by a vehicle  | Complete                          | Mar-17                                      |                             |  |
| 3                                 | Mercer     | W-129   | <i>Performance was driven by trees off ROW (30%), equipment failure (11%), and line failure (9%).</i>            |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                                   |            |         | Repair damage caused by a vehicle  | Complete                          | Jun-16                                      |                             |  |
|                                   |            |         | Repair equipment failure   | Complete                          | Jul-16                                      |                             |  |
|                                   |            |         | Enhanced tree trimming   | Complete                          | Jul-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a tree   | Complete                          | Sep-16                                      |                             |  |
|                                   |            |         | Repair line failure  | Complete                          | Dec-16                                      |                             |  |
| Repair damage caused by a tree    | Complete   | Mar-17  |  |                                   |   |                             |  |
| 4                                 | Stoneboro  | W-131   | <i>Performance was driven by trees off ROW (50%), vehicle (24%), equipment failure (9%), and unknown (7%).</i>   |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                                   |            |         | Repair damage caused by a tree   | Complete                          | Sep-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a vehicle  | Complete                          | Oct-16                                      |                             |  |
|                                   |            |         | Enhanced tree trimming   | Complete                          | Dec-16                                      |                             |  |
| 5                                 | McDowell   | W-120   | <i>Performance was driven by unknown (34%), trees off ROW (29%), and vehicle (22%).</i>                          |                                   |   |                             | 2Q 2016<br>1Q 2017                       |
|                                   |            |         | Repair damage caused by a vehicle  | Completed                         | May-16                                      |                             |  |
|                                   |            |         | No cause found, restored circuit   | Completed                         | Feb-17                                      |                             |  |
| 6                                 | Mercer     | W-128   | <i>Performance was driven by vehicle (48%), trees off ROW (27%), and lightning (9%).</i>                         |                                   |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                                   |            |         | Reliability job to install fuses   | Complete                          | May-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a vehicle  | Complete                          | May-16                                      |                             |  |
|                                   |            |         | Enhanced tree trimming   | Complete                          | Jul-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a tree   | Complete                          | Sep-16                                      |                             |  |
| Reliability job to install fuses. | Completed  | Jan-17  |  |                                   |   |                             |  |
| 7                                 | Hermitage  | W-260   | <i>Performance was driven by lightning (43%), trees off ROW (24%), equipment failure (14%), and animal (6%).</i> |                                   |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                                   |            |         | Enhanced tree trimming   | Complete                          | Jul-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a tree   | Complete                          | Sep-16                                      |                             |  |
|                                   |            |         | Repair equipment failure   | Complete                          | Oct-16                                      |                             |  |
|                                   |            |         | Repair damage caused by a tree   | Completed                         | Jan-17                                      |                             |  |

| Penn Power |            |         |   |                                   |   |  |
|------------|------------|---------|---|-----------------------------------|---|--|
| Rank       | Substation | Circuit | Remedial Action Planned or Taken  | Status of Remedial Work Completed | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
| 8          | Ingomar    | D619    | <i>Performance was driven by vehicle (38%), animal (33%), and trees off ROW (23%).</i>                        |                                   |   | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|            |            |         | Repair damage caused by an animal   | Complete                          | May-16                                      |  |
|            |            |         | Repair damage caused by a tree  | Complete                          | Jun-16                                      |  |
|            |            |         | Repair damage caused by a vehicle   | Complete                          | Sep-16                                      |  |
| 9          | Perry      | W-156   | <i>Performance was driven by trees off ROW (61%), equipment failure (10%), unknown (9%), and animal (5%).</i> |                                   |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|            |            |         | Repair damage caused by tree  | Complete                          | Jun-16                                      |  |
|            |            |         | Repair damage caused by tree  | Complete                          | Jul-16                                      |  |
|            |            |         | Repair damage caused by tree  | Complete                          | Oct-16                                      |  |
|            |            |         | Reliability job to install fuses.   | Completed                         | Jan-17                                      |  |

| Penn Power  |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| Unranked circuits appearing 2 or more quarters in the last 4 quarters |         |         |         |         |         |
| Substation  | Circuit | Q2 2016 | Q3 2016 | Q4 2016 | Q1 2017 |
| Thompson Run  | D-550   | X       |         | X       |         |
| Canal   | W-103   | X       |         | X       |         |

| Penn Power   |         |                         |                         |                           |
|--|---------|-------------------------|-------------------------|---------------------------|
| Unranked circuits with remedial actions scheduled to be or recently completed                    |         |                         |                         |                           |
| Substation   | Circuit | Remedial Action Planned | Status of Remedial Work | Progress of Remedial Work |
| Penn Power has no unranked circuits with remedial actions scheduled to be or recently completed. |         |                         |                         |                           |

| West Penn.             |                      |            |   |                         |   |                             |  |
|------------------------|----------------------|------------|---|-------------------------|---|-----------------------------|--|
| Rank                   | Substation           | Circuit    | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 1                      | Rutan                | Bristoria  | <i>Performance was driven by trees off ROW (62%) and equipment failure (20%).</i>               |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                        |                      |            | Repair damage caused by a tree  | Complete                | May-16                                      |                             |  |
|                        |                      |            | Zone 1 circuit patrol. Seventy-six trees found and remediated.                                  | Complete                | May-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Jun-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Jun-16                                      |                             |  |
|                        |                      |            | Repair line failure during a storm  | Complete                | Jun-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree  | Complete                | Sep-16                                      |                             |  |
|                        |                      |            | Reliability job to install fuses  | Complete                | Oct-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a vehicle   | Complete                | Dec-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Feb-17                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
| On cycle tree trimming | To be completed 2017 | 0%         |   |                         |   |                             |  |
| 2                      | Piney Fork           | Stoltz     | <i>Performance was driven by trees off ROW (72%) and unknown (13%).</i>                         |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                        |                      |            | Repair damage caused by animal contact  | Complete                | May-16                                      |                             |  |
|                        |                      |            | Repair line failure during a storm  | Complete                | Aug-16                                      |                             |  |
|                        |                      |            | Targeted circuit rehabilitation   | Complete                | Oct-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Dec-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Dec-16                                      |                             |  |
|                        |                      |            | Restore unknown outage  | Complete                | Mar-17                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
| On cycle tree trimming | To be completed 2017 | 0%         |   |                         |   |                             |  |
| 3                      | North Fayette        | Beechcliff | <i>Performance was driven by equipment failure (39%), vehicle (27%) and line failure (26%).</i> |                         |   |                             | 2Q 2016<br>4Q 2016<br>1Q 2017            |
|                        |                      |            | Repair damage caused by a vehicle   | Complete                | Nov-16                                      |                             |  |
|                        |                      |            | On cycle tree trimming  | Complete                | Dec-16                                      |                             |  |
|                        |                      |            | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
|                        |                      |            | Repair equipment failure during a storm   | Complete                | Mar-17                                      |                             |  |

| West Penn              |                      |                 |   |                         |   |                               |
|------------------------|----------------------|-----------------|---|-------------------------|---|-------------------------------|
| Rank                   | Substation           | Circuit         | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters   |
| 4                      | Donegal              | Donegal         | <i>Performance was driven by trees off ROW (84%).</i>   |                         |   | 4Q 2016<br>1Q 2017            |
|                        |                      |                 | Restore unknown outage during a storm   | Complete                | Oct-16                                      |                               |
|                        |                      |                 | Restore damage caused by a tree during a storm  | Complete                | Oct-16                                      |                               |
|                        |                      |                 | Repair damage caused by a vehicle   | Complete                | Nov -16                                     |                               |
|                        |                      |                 | Repair damage caused by a tree during a storm   | Complete                | Jan-17                                      |                               |
|                        |                      |                 | Zone 2 Ash Tree removal   | Complete                | Mar-17                                      |                               |
| 5                      | Cooperstown          | Twin Willows    | <i>Performance was driven by trees off ROW (85%).</i>   |                         |   | 2Q 2016<br>3Q 2016<br>4Q 2016 |
|                        |                      |                 | Repair damage caused by a tree  | Complete                | Apr-16                                      |                               |
|                        |                      |                 | Zone 1 circuit patrol. Twenty-nine trees found and remediated.                                      | Complete                | May-16                                      |                               |
|                        |                      |                 | Forced outage during a storm to replace conductor   | Complete                | Jun-16                                      |                               |
|                        |                      |                 | Repair line failure during a storm  | Complete                | Jul-16                                      |                               |
|                        |                      |                 | Reliability job to install fuses  | Complete                | Aug-16                                      |                               |
|                        |                      |                 | Reliability job to install fuses  | Complete                | Oct-16                                      |                               |
|                        |                      |                 | Repair damage caused by a tree during a storm   | Complete                | Nov-16                                      |                               |
|                        |                      |                 | Restore unknown outage during a storm   | Complete                | Mar-17                                      |                               |
| On cycle tree trimming | To be completed 2017 | 95%             |   |                         |   |                               |
| 6                      | Westraver            | Pittsburgh Coal | <i>Performance was driven by line failure (52%), trees off ROW (22%), and forced outages (21%).</i> |                         |   |                               |
|                        |                      |                 | Repair damage caused by a tree during a storm   | Complete                | Jan-17                                      |                               |
|                        |                      |                 | Forced outage to repair regulator during a storm  | Complete                | Feb-17                                      |                               |
|                        |                      |                 | Repair line failure   | Complete                | Mar-17                                      |                               |
|                        |                      |                 | Line Rehabilitation   | To be completed 2017    | 0%  |                               |

| West Penn |            |          |   |                         |   |                             |  |
|-----------|------------|----------|---|-------------------------|---|-----------------------------|--|
| Rank      | Substation | Circuit  | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 7         | Smithton   | Smithton | <i>Performance was driven by trees off ROW (81%) and trees on ROW (6%).</i>       |                         |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|           |            |          | Zone 1 circuit patrol. Six trees found and remediated.                            | Complete                | Jun-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree  | Complete                | Jul-16                                      |                             |  |
|           |            |          | Repair damage caused by trees during a storm                                      | Complete                | Jul-16                                      |                             |  |
|           |            |          | Repair damage caused by trees during a storm                                      | Complete                | Aug-16                                      |                             |  |
|           |            |          | Restore unknown outage during a storm   | Complete                | Sep-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree  | Complete                | Dec-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Dec-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Feb-17                                      |                             |  |
|           |            |          | Repair damage caused by a tree  | Complete                | Feb-17                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Mar-17                                      |                             |  |
|           |            |          | On cycle tree trimming  | To be completed 2017    | 0%  |                             |  |
| 8         | Mateer     | Dime Rd  | <i>Performance was driven by trees off ROW (53%) and equipment failure (40%).</i> |                         |   |                             | 2Q 2016<br>3Q 2016<br>1Q 2017            |
|           |            |          | Repair equipment failure  | Complete                | Jan-17                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Feb-17                                      |                             |  |
|           |            |          | Repair damage caused by a tree  | Complete                | Mar-17                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Mar-17                                      |                             |  |
|           |            |          | Zone 2 Ash Removal  | To be completed 2017    | 0%  |                             |  |
| 9         | Amity      | Banetown | <i>Performance was driven by tree on ROW (39%) and trees off ROW (37%).</i>       |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|           |            |          | Repair line failure during a storm  | Complete                | Apr-16                                      |                             |  |
|           |            |          | Restore unknown outage during a storm   | Complete                | Apr-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Jun-16                                      |                             |  |
|           |            |          | Repair damage caused by tree  | Complete                | Jul-16                                      |                             |  |
|           |            |          | Targeted line rehabilitation  | Complete                | Aug-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Oct-16                                      |                             |  |
|           |            |          | Repair damage caused by a tree during a storm                                     | Complete                | Mar-17                                      |                             |  |
|           |            |          | On cycle tree trimming  | To be completed 2017    | 0%  |                             |  |

| West Penn               |                      |              |   |                         |   |                             |                               |
|-------------------------|----------------------|--------------|---|-------------------------|---|-----------------------------|-------------------------------|
| Rank                    | Substation           | Circuit      | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |                               |
| 10                      | Saltsburg            | Saltsburg    | <i>Performance was driven by trees off ROW (78%) and forced outages (14%).</i>          |                         |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|                         |                      |              | Zone 1 circuit patrol. Thirty trees found and remediated.                               | Complete                | Jun-16                                      |                             |                               |
|                         |                      |              | Forced outage to repair conductor during a storm  | Complete                | Jul-16                                      |                             |                               |
|                         |                      |              | Repair damage caused by trees during a storm  | Complete                | Aug-16                                      |                             |                               |
|                         |                      |              | Targeted line rehabilitation  | Complete                | Aug-16                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Oct-16                                      |                             |                               |
|                         |                      |              | Repair damage caused by trees during a storm  | Complete                | Feb-17                                      |                             |                               |
|                         |                      |              | Repair damage caused by trees during a storm  | Complete                | Mar-17                                      |                             |                               |
| On cycle tree trimming  | To be completed 2017 | 0%           |   |                         |   |                             |                               |
| 11                      | Krendale             | Unionville   | <i>Performance was driven by trees off ROW (67%), vehicle (16%), and unknown (11%).</i> |                         |   |                             |                               |
|                         |                      |              | On cycle tree trimming  | Complete                | Dec-16                                      |                             |                               |
|                         |                      |              | Restore unknown outage during a storm   | Complete                | Feb-17                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Feb-17                                      |                             |                               |
|                         |                      |              | Restore unknown outage during a storm   | Complete                | Mar-17                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |                               |
| On cycle tree trimming  | Complete             | Dec-16       |   |                         |   |                             |                               |
| 12                      | Franklin             | Rogersville  | <i>Performance was driven by trees off ROW (64%) and unknown (25%).</i>                 |                         |   |                             | 2Q 2016<br>4Q 2016<br>1Q 2017 |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Oct-16                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Dec-16                                      |                             |                               |
|                         |                      |              | Restore unknown outage during a storm   | Complete                | Feb-17                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Feb-17                                      |                             |                               |
|                         |                      |              | Line rehabilitation   | Complete                | Mar-17                                      |                             |                               |
|                         |                      |              | Overhead circuit inspection   | To be completed 2017    | 0%  |                             |                               |
| 13                      | Henry Clay           | Markleysburg | <i>Performance was driven by trees off ROW (77%) and line failure (13%).</i>            |                         |   |                             | 4Q 2016<br>1Q 2017            |
|                         |                      |              | Repair line failure   | Complete                | Nov-16                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Dec-16                                      |                             |                               |
|                         |                      |              | On cycle tree trimming  | Complete                | Dec-16                                      |                             |                               |
|                         |                      |              | Repair damage caused by a tree during a storm   | Complete                | Feb-17                                      |                             |                               |
| Zone 2 Ash Tree removal | To be completed 2017 | 0%           |   |                         |   |                             |                               |

| West Penn                                    |             |                |   |                         |   |                             |  |
|--|-------------|----------------|---|-------------------------|---|-----------------------------|--|
| Rank   | Substation  | Circuit        | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 14   | Fort Palmer | West Fairfield | <i>Performance was driven by trees off ROW (80%) and trees on ROW (9%).</i>                         |                         |   |                             | 2Q 2016<br>3Q 2016<br>1Q 2017            |
|  |             |                | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
|  |             |                | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
|  |             |                | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
|  |             |                | On cycle tree trimming  | To be completed 2017    | 0%  |                             |  |
| 15   | Bethel Park | Coverdale      | <i>Performance was driven by trees off ROW (56%), trees on ROW (21%), and forced outages (14%).</i> |                         |   |                             |  |
|  |             |                | Repair damage caused by a tree during a storm   | Complete                | Feb-17                                      |                             |  |
|  |             |                | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
|  |             |                | Zone 2 Ash Tree removal   | To be completed 2017    | 0%  |                             |  |
| 16   | North Union | Gallatin       | <i>Performance was driven by line failure (70%) and vehicle (18%).</i>                              |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|  |             |                | Repair line failure   | Complete                | May-16                                      |                             |  |
|  |             |                | Repair damage caused by a vehicle   | Complete                | Jun-16                                      |                             |  |
|  |             |                | Forced outage to repair a pin insulator   | Complete                | Jun-16                                      |                             |  |
|  |             |                | Overhead circuit patrol   | Complete                | Jun-16                                      |                             |  |
|  |             |                | Repair damage caused by a bird  | Complete                | Jul-16                                      |                             |  |
|  |             |                | Repair equipment failure  | Complete                | Oct-16                                      |                             |  |
|  |             |                | Reliability job to install fuses  | Complete                | Nov-16                                      |                             |  |
| On cycle tree trimming                       | Complete    | Mar-17         |   |                         |   |                             |  |
| 17   | Bethlen     | Laughlintown   | <i>Performance was driven by trees off ROW (66%) and equipment failure (16%).</i>                   |                         |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|  |             |                | Zone 1 circuit patrol. Seventeen trees found and remediated.  | Complete                | Jun-16                                      |                             |  |
|  |             |                | Repair damage caused by a tree  | Complete                | Jul-16                                      |                             |  |
|  |             |                | Repair equipment failure during a storm   | Complete                | Jul-16                                      |                             |  |
|  |             |                | Repair damage caused by trees during a storm  | Complete                | Jul-16                                      |                             |  |
|  |             |                | Repair damage caused by trees during a storm  | Complete                | Aug-16                                      |                             |  |
|  |             |                | On cycle tree trimming  | Complete                | Oct-16                                      |                             |  |
|  |             |                | Repair damage caused by trees during a storm  | Complete                | Nov-16                                      |                             |  |
| Repair damage caused by trees during a storm | Complete    | Feb-17         |   |                         |   |                             |  |

| West Penn |             |              |  |                         |   |  |
|-----------|-------------|--------------|--|-------------------------|---|--|
| Rank      | Substation  | Circuit      | Remedial Actions Planned or Taken  | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
| 18        | Avella      | Penowa       | <i>Performance was driven by trees off ROW (52%) and trees on ROW (20%).</i>                           |                         |   | 4Q 2016<br>1Q 2017                       |
|           |             |              | Repair line failure  | Complete                | Nov-16                                      |  |
|           |             |              | Repair damage caused by a tree   | Complete                | Dec-16                                      |  |
|           |             |              | Install Tollgrade monitors   | Complete                | Dec-16                                      |  |
|           |             |              | Repair equipment failure   | Complete                | Feb-17                                      |  |
|           |             |              | Repair damage caused by trees during a storm   | Complete                | Feb-17                                      |  |
| 19        | Hempfield   | Cool Valley  | <i>Performance was driven by line failure (48%), equipment failure (32%), and trees off ROW (12%).</i> |                         |   |  |
|           |             |              | Repair line failure during a storm   | Complete                | Jan-17                                      |  |
|           |             |              | Restore unknown outage during a storm  | Complete                | Mar-17                                      |  |
|           |             |              | Repair equipment failure   | Complete                | Mar-17                                      |  |
|           |             |              | CEMI Review  | To be completed 2017    | 0%  |  |
|           |             |              | Reliability job to install fuses   | To be completed 2017    | 0%  |  |
| 20        | Emporium    | Emporium Jct | <i>Performance was driven by trees off ROW (98%).</i>  |                         |   |  |
|           |             |              | Repair damage caused by a tree   | Complete                | Jan-17                                      |  |
|           |             |              | Repair damage caused by a tree during a storm  | Complete                | Mar-17                                      |  |
|           |             |              | On cycle tree trimming   | To be completed 2017    | 0%  |  |
| 21        | Frazier     | Perry        | <i>Performance was driven by line failure (61%) and trees off ROW (29%).</i>                           |                         |   | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|           |             |              | Zone 1 circuit patrol. No hardware or tree issues found.   | Complete                | Jun-16                                      |  |
|           |             |              | Repair damage caused by trees during a storm   | Complete                | Jul-16                                      |  |
|           |             |              | Restore unknown outage   | Complete                | Jul-16                                      |  |
|           |             |              | Repair line failure during a storm   | Complete                | Aug-16                                      |  |
|           |             |              | Repair damage caused by a tree   | Complete                | Dec-16                                      |  |
|           |             |              | Repair damage caused by trees during a storm   | Complete                | Feb-17                                      |  |
|           |             |              | Zone 2 Ash Tree removal  | To be completed 2017    | 0%  |  |
| 22        | Vandergrift | Grifflo Park | <i>Performance was driven by trees off ROW (39%), equipment failure (38%), and line failure (12%).</i> |                         |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|           |             |              | Repair damage caused by equipment failure  | Complete                | Apr-16                                      |  |
|           |             |              | Repair damage caused by trees during a storm   | Complete                | Jun-16                                      |  |
|           |             |              | Enhanced overcurrent protection  | Complete                | Aug-16                                      |  |
|           |             |              | Targeted circuit rehabilitation  | Complete                | Sep-16                                      |  |
|           |             |              | Repair damage caused by a tree during a storm  | Complete                | Oct-16                                      |  |
|           |             |              | Repair damage caused by a tree during a storm  | Complete                | Jan-17                                      |  |
|           |             |              | Repair damage caused by a tree during a storm  | Complete                | Feb-17                                      |  |

| West Penn |               |               |  |                         |   |                               |
|-----------|---------------|---------------|--|-------------------------|---|-------------------------------|
| Rank      | Substation    | Circuit       | Remedial Actions Planned or Taken  | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters   |
| 23        | Amity         | Amity         | <i>Performance was driven by trees off ROW (71%) and line failure (18%).</i> |                         |   | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|           |               |               | Zone 1 circuit patrol. Ninety-one trees found and remediated.                | Complete                | Jun-16                                      |                               |
|           |               |               | Repair damage caused by trees during a storm                                 | Complete                | Aug-16                                      |                               |
|           |               |               | Forced outage to repair conductor during a storm                             | Complete                | Aug-16                                      |                               |
|           |               |               | Repair line failure  | Complete                | Dec-16                                      |                               |
|           |               |               | Repair damage caused by trees during a storm                                 | Complete                | Mar-17                                      |                               |
|           |               |               | Zone 2 Ash Tree removal  | To be completed 2017    | 0%  |                               |
| 24        | Thompson Farm | Oakwood       | <i>Performance was driven by line failure (99%).</i>                         |                         |   | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|           |               |               | Zone 1 circuit patrol. No hardware or tree issues found.                     | Complete                | Jun-16                                      |                               |
|           |               |               | Repair line failure during a storm   | Complete                | Aug-16                                      |                               |
|           |               |               | Repair line failure  | Complete                | Aug-16                                      |                               |
|           |               |               | Repair line failure  | Complete                | Sep-16                                      |                               |
|           |               |               | Repair line failure  | Complete                | Oct-16                                      |                               |
|           |               |               | Replace underground primary  | Complete                | Feb-17                                      |                               |
| 25        | Bethel Park   | Hillcrest     | <i>Performance was driven by trees off ROW (71%) and trees on ROW (27%).</i> |                         |   | 4Q 2016<br>1Q 2017            |
|           |               |               | Repair damage caused by a tree during a storm                                | Complete                | Dec-16                                      |                               |
|           |               |               | Repair damage caused by a tree during a storm                                | Complete                | Mar-17                                      |                               |
|           |               |               | On cycle tree trimming   | To be completed 2017    | 0%  |                               |
| 26        | Bethlen       | Laurel Valley | <i>Performance was driven by trees off ROW (64%) and line failure (10%).</i> |                         |   | 3Q 2016<br>1Q 2017            |
|           |               |               | Repair damage caused by a tree during a storm                                | Complete                | Feb-17                                      |                               |
|           |               |               | Repair damage caused by a tree   | Complete                | Feb-17                                      |                               |
|           |               |               | Repair equipment failure during a storm                                      | Complete                | Mar-17                                      |                               |
|           |               |               | Overhead circuit inspection  | To be completed 2017    | 13%   |                               |

| West Penn               |                      |             |   |                         |   |                             |  |
|-------------------------|----------------------|-------------|---|-------------------------|---|-----------------------------|--|
| Rank                    | Substation           | Circuit     | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 27                      | Smith                | Florence    | <i>Performance was driven by trees off ROW (66%) and line failure (19%).</i>                      |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016            |
|                         |                      |             | Repair damage caused by trees during a storm  | Complete                | May-16                                      |                             |  |
|                         |                      |             | Restore unknown outage during a storm   | Complete                | Jun-16                                      |                             |  |
|                         |                      |             | Repair line failure during a storm  | Complete                | Jul-16                                      |                             |  |
|                         |                      |             | Repair line failure during a storm  | Complete                | Dec-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree  | Complete                | Jan-17                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree during a storm   | Complete                | Mar-17                                      |                             |  |
| Zone 2 Ash Tree removal | To be completed 2017 | 0%          |   |                         |   |                             |  |
| 28                      | Luxor                | Forbes Road | <i>Performance was driven by trees off ROW (36%), line failure (34%), and trees on ROW (27%).</i> |                         |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|                         |                      |             | Zone 1 circuit patrol. Eighty-five trees found and remediated.                                    | Complete                | Jun-16                                      |                             |  |
|                         |                      |             | Repair line failure during a storm  | Complete                | Aug-16                                      |                             |  |
|                         |                      |             | Repair line failure   | Complete                | Sep-16                                      |                             |  |
|                         |                      |             | Repair damage caused by trees during a storm  | Complete                | Sep-16                                      |                             |  |
|                         |                      |             | Overhead circuit patrol   | Complete                | Sep-16                                      |                             |  |
|                         |                      |             | Repair line failure   | Complete                | Oct-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree during a storm   | Complete                | Jan-17                                      |                             |  |
| On cycle tree trimming  | Complete             | Jan-17      |   |                         |   |                             |  |
| 29                      | Crossgates           | Robinhood   | <i>Performance was driven by trees off ROW (71%) and trees on ROW (12%).</i>                      |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|                         |                      |             | Repair line failure during a storm  | Complete                | Apr-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree during a storm   | Complete                | Jun-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree  | Complete                | Jun-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree during a storm   | Complete                | Jun-16                                      |                             |  |
|                         |                      |             | Overhead circuit patrol   | Complete                | Jun-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree during a storm   | Complete                | Jul-16                                      |                             |  |
|                         |                      |             | Repair equipment failure  | Complete                | Nov-16                                      |                             |  |
|                         |                      |             | Repair damage caused by a tree during a storm   | Complete                | Feb-17                                      |                             |  |
| On cycle tree trimming  | To be completed 2017 | 0%          |   |                         |   |                             |  |

| West Penn |            |             |   |                         |   |                             |  |
|-----------|------------|-------------|---|-------------------------|---|-----------------------------|--|
| Rank      | Substation | Circuit     | Remedial Actions Planned or Taken   | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |  |
| 30        | Piney Fork | Gillhall    | <i>Performance was driven by trees off ROW (65%) and equipment failure (20%).</i> |                         |   |                             | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|           |            |             | Repair damage caused by tree  | Complete                | May-16                                      |                             |  |
|           |            |             | Repair equipment failure  | Complete                | Jun-16                                      |                             |  |
|           |            |             | Repair equipment failure during a storm   | Complete                | Jul-16                                      |                             |  |
|           |            |             | On cycle tree trimming  | Complete                | Sep-16                                      |                             |  |
|           |            |             | Restore unknown outage  | Complete                | Oct-16                                      |                             |  |
|           |            |             | Repair damage caused by a tree during a storm                                     | Complete                | Feb-17                                      |                             |  |
| 31        | Cecil      | Murray Hill | <i>Performance was driven by trees off ROW (52%) and equipment failure (38%).</i> |                         |   |                             | 4Q 2016<br>1Q 2017                       |
|           |            |             | Zone 2 Ash Tree removal   | Complete                | Oct-16                                      |                             |  |
|           |            |             | On cycle tree trimming  | Complete                | Oct-16                                      |                             |  |
|           |            |             | Repair damage caused by a tree  | Complete                | Dec-16                                      |                             |  |
|           |            |             | Repair damage caused by a tree during a storm                                     | Complete                | Mar-17                                      |                             |  |
| 32        | Harwick    | Harmar      | <i>Performance was driven by trees off ROW (56%) and lightning (25%).</i>         |                         |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017            |
|           |            |             | Zone 1 circuit patrol. Eighteen trees found and remediated.                       | Complete                | Jun-16                                      |                             |  |
|           |            |             | Repair equipment failure during a storm   | Complete                | Aug-16                                      |                             |  |
|           |            |             | Forced outage to repair a cutout during a storm                                   | Complete                | Aug-16                                      |                             |  |
|           |            |             | Repair damage caused by lightning during a storm                                  | Complete                | Aug-16                                      |                             |  |
|           |            |             | Repair damage caused by a tree during a storm                                     | Complete                | Dec-16                                      |                             |  |
|           |            |             | Repair damage caused by a tree during a storm                                     | Complete                | Feb-17                                      |                             |  |
|           |            |             | Overhead circuit inspection   | To be completed 2017    | 0%  |                             |  |
| 33        | Donegal    | Buchanan    | <i>Performance was driven by trees on ROW (57%) and trees off ROW (27%).</i>      |                         |   |                             | 4Q 2016<br>1Q 2017                       |
|           |            |             | Repair damage caused by a tree during a storm                                     | Complete                | Oct-16                                      |                             |  |
|           |            |             | Repair damage caused by a vehicle   | Complete                | Nov-16                                      |                             |  |
|           |            |             | Repair damage caused by a tree during a storm                                     | Complete                | Jan-17                                      |                             |  |
|           |            |             | Zone 2 Ash Tree removal   | To be completed 2017    | 0%  |                             |  |

| West Penn                                     |                      |              |  |                         |   |  |
|---|----------------------|--------------|--|-------------------------|---|--|
| Rank  | Substation           | Circuit      | Remedial Actions Planned or Taken  | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters              |
| 34  | Westraver            | West Newton  | <i>Performance was driven by trees off ROW (52%) and line failure (47%).</i>                       |                         |   | 2Q 2016<br>3Q 2016<br>4Q 2016<br>1Q 2017 |
|   |                      |              | Restore unknown outage   | Complete                | Jun-16                                      |  |
|   |                      |              | On cycle tree trimming   | Complete                | Sep-16                                      |  |
|   |                      |              | Repair damage caused by a tree   | Complete                | Jan-17                                      |  |
|   |                      |              | Repair line failure during a storm   | Complete                | Feb-17                                      |  |
|   |                      |              | Targeted circuit rehabilitation  | To be completed 2017    | 0%  |  |
| Zone 2 Ash Tree removal                       | To be completed 2017 | 0%           |  |                         |   |  |
| 35  | Murrysville          | Wallace Lane | <i>Performance was driven by trees off ROW (60%) and trees on ROW (29%).</i>                       |                         |   |  |
|   |                      |              | Repair damage caused by a tree during a storm  | Complete                | Jan-17                                      |  |
|   |                      |              | Repair damage caused by a tree during a storm  | Complete                | Feb-17                                      |  |
|   |                      |              | Repair damage caused by a tree during a storm  | Complete                | Mar-17                                      |  |
|   |                      |              | Repair damage caused by a tree during a storm  | Complete                | Mar-17                                      |  |
| On cycle tree trimming                        | To be completed 2017 | 24%          |  |                         |   |  |
| 36  | Driftwood            | Driftwood    | <i>Performance was driven by trees off ROW (45%) and line failure (40%).</i>                       |                         |   | 2Q 2016<br>1Q 2017                       |
|   |                      |              | On cycle tree trimming   | Complete                | Jun-16                                      |  |
|   |                      |              | Repair equipment failure   | Complete                | Jan-17                                      |  |
|   |                      |              | Repair line failure during a storm   | Complete                | Feb-17                                      |  |
|   |                      |              | Repair damage caused by a tree   | Complete                | Mar-17                                      |  |
| Repair damage caused by a tree during a storm | Complete             | Mar-17       |  |                         |   |  |
| 37  | Hickory              | Fort Cherry  | <i>Performance was driven by trees off ROW (45%), forced outages (30%), and trees on ROW (9%).</i> |                         |   | 2Q 2016<br>4Q 2016<br>1Q 2017            |
|   |                      |              | Repair damage caused by a tree   | Complete                | Dec-16                                      |  |
|   |                      |              | Repair damage caused by a tree during a storm  | Complete                | Dec-16                                      |  |
|   |                      |              | Forced outage to repair conductor  | Complete                | Mar-17                                      |  |
|   |                      |              | Perform CEMI review  | To be completed 2017    | 0%  |  |
| Overhead circuit inspection                   | To be completed 2017 | 0%           |  |                         |   |  |

| AVest Remit             |                      |             |  |                         |   |                             |                               |
|-------------------------|----------------------|-------------|--|-------------------------|---|-----------------------------|-------------------------------|
| Rank                    | Substation           | Circuit     | Remedial Actions Planned or Taken  | Status of Remedial Work | Progress of Remedial Work or Date Completed | Appeared in 2 of 4 Quarters |                               |
| 38                      | Lake Lynn-Union      | Fancy Hill  | <i>Performance was driven by trees off ROW (69%) and unknown (22%).</i>                                |                         |   |                             | 3Q 2016<br>4Q 2016<br>1Q 2017 |
|                         |                      |             | Zone 1 circuit patrol. Forty-seven trees found and remediated.   | Complete                | Jun-16                                      |                             |                               |
|                         |                      |             | Repair damage caused by trees during a storm   | Complete                | Jul-16                                      |                             |                               |
|                         |                      |             | Restore unknown outage during a storm  | Complete                | Jul-16                                      |                             |                               |
|                         |                      |             | Repair damage caused by trees during a storm   | Complete                | Jul-16                                      |                             |                               |
|                         |                      |             | Repair line failure  | Complete                | Nov-16                                      |                             |                               |
|                         |                      |             | Repair damage caused by a tree during a storm  | Complete                | Jan-17                                      |                             |                               |
|                         |                      |             | Repair damage caused by a tree   | Complete                | Feb-17                                      |                             |                               |
| Zone 2 Ash Tree removal | To be completed 2017 | 0%          |  |                         |   |                             |                               |
| 39                      | Lantz                | Meadow      | <i>Performance was driven by trees off ROW (34%), line failure (27%), and equipment failure (23%).</i> |                         |   |                             |                               |
|                         |                      |             | Repair line failure during a storm   | Complete                | Feb-17                                      |                             |                               |
|                         |                      |             | Repair damage caused by a tree during a storm  | Complete                | Feb-17                                      |                             |                               |
|                         |                      |             | Repair equipment failure during a storm  | Complete                | Feb-17                                      |                             |                               |
|                         |                      |             | Repair damage caused by a tree   | Complete                | Feb-17                                      |                             |                               |
| Zone 2 Ash Removal      | To be completed 2017 | 0%          |  |                         |   |                             |                               |
| 40                      | White Valley         | Borlands Rd | <i>Performance was driven by trees off ROW (82%).</i>  |                         |   |                             |                               |
|                         |                      |             | Repair damage caused by a tree during a storm  | Complete                | Feb-17                                      |                             |                               |
|                         |                      |             | Repair line failure during a storm   | Complete                | Mar-17                                      |                             |                               |
|                         |                      |             | Reliability job to install fuses   | To be completed 2017    | 0%  |                             |                               |

| West Penn   |                |         |         |         |         |
|---|----------------|---------|---------|---------|---------|
| Unranked circuits appearing 2 or more quarters in the last 4 quarters |                |         |         |         |         |
| Substation  | Circuit        | Q2 2016 | Q3 2016 | Q4 2016 | Q1 2017 |
| Diamond Street  | Hansen Ave     |         | X       | X       |         |
| Donegal   | Champion       | X       | X       |         |         |
| Dutch Fork  | Claysville     | X       | X       | X       |         |
| Eastgate  | West Point     |         | X       | X       |         |
| Enlow   | Summit         | X       | X       |         |         |
| Fawn  | Bull Creek     | X       | X       | X       |         |
| Fort Palmer   | West Fairfield | X       | X       |         |         |
| Kane  | Russell City   | X       | X       |         |         |
| Loyalhanna  | Center Drive   | X       | X       | X       |         |
| Mateer  | Dime Rd        | X       | X       |         |         |
| North Union   | Phillips       | X       | X       | X       |         |
| North Washington  | Poke Run       |         | X       | X       |         |
| Parker  | Parker         |         | X       | X       |         |
| Rutan   | Windridge      | X       | X       | X       |         |
| South Union   | Fairchance     | X       | X       |         |         |
| Stahlstown  | Kreager        | X       | X       |         |         |

| West Penn   |              |                                  |                         |                           |
|---|--------------|----------------------------------|-------------------------|---------------------------|
| Unranked circuits with remedial actions scheduled to be or recently completed |              |                                  |                         |                           |
| Substation  | Circuit      | Remedial Action Planned          | Status of Remedial Work | Progress of Remedial Work |
| Charleroi   | Speers       | On cycle tree trimming           | To be completed 2017    | 32%                       |
| Dutch Fork  | Claysville   | Overhead circuit inspection      | To be completed 2017    | 0%                        |
| Eastgate  | West Point   | Zone 2 Ash Tree removal          | Complete                | Feb-17                    |
| Fawn  | Bull Creek   | Overhead circuit inspection      | To be completed 2017    | 0%                        |
| New Bethlehem   | Clarion Road | Overhead circuit inspection      | To be completed 2017    | 0%                        |
| North Union   | Phillips     | Reliability job to install fuses | To be completed 2017    | 0%                        |
| North Washington  | Poke Run     | On cycle tree trimming           | Complete                | Apr-17                    |
| Parker  | Parker       | On cycle tree trimming           | To be completed 2017    | 0%                        |
| Rowes Run   | Grindstone   | Overhead circuit inspection      | To be completed 2017    | 0%                        |

ATTACHMENT C

FirstEnergy's Compliance with Terms of the March 30, 2015 Management Audit Order

*Pursuant to Docket Nos. D-2014-2365991 and D-2014-2365992, (Appendix A)(2): Met-Ed and Penelec are directed to provide a quarterly report that shall consist of a chart documenting the Open Priority 3 repairs and the Overdue Priority 3 (P3) Repairs for each company each quarter.*

|    | Met-Ed             |                       | Penelec            |                       |
|----|--------------------|-----------------------|--------------------|-----------------------|
|    | Open P3 Conditions | Overdue P3 Conditions | Open P3 Conditions | Overdue P3 Conditions |
| 1Q | 1,459              | 1,201                 | 2,143              | 1,956                 |
| 2Q |                    |                       |                    |                       |
| 3Q |                    |                       |                    |                       |
| 4Q |                    |                       |                    |                       |

**Open P3 Conditions:** Total number of open P3 conditions recorded on the last day of the quarter, including overdue P3 conditions.

**Overdue P3 Conditions:** Number of open P3 conditions that have been open for more than 365 days.

*Pursuant to Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, (Appendix A) (3): FirstEnergy is directed to track and measure line hit incidents, causes of line hits, and damage recovery amounts for all third-party line hit incidents for each company.*

| <b>Met-Ed - Third Party Line Hit Incidents</b><br>1 <sup>st</sup> Quarter 2017 12-Month Rolling <sup>30</sup> |                            |                            |                             |
|---|----------------------------|----------------------------|-----------------------------|
| <b>Cause of Line Hit</b>  | <b>Number of Incidents</b> | <b>Invoice Amount (\$)</b> | <b>Recovery Amount (\$)</b> |
| Dig In - Other  | 20                         | 9,197                      | 8,997                       |
| Excavated in Tolerance  | 37                         | 156,733                    | 25,593                      |
| Excavation Inconsistent with Ticket Scope   | 20                         | 30,881                     | 9,682                       |
| Excavation Prior to Lawful Start Date   | 2                          | 3,238                      | 3,238                       |
| Expired Ticket  | 5                          | 7,427                      | 6,445                       |
| Hand Digging  | 0                          | 0                          | 0                           |
| Marked Improperly   | 5                          | 12,238                     | 7,497                       |
| No Ticket   | 32                         | 62,582                     | 39,847                      |
| <b>Total</b>  | <b>121</b>                 | <b>282,296</b>             | <b>101,299</b>              |

| <b>Penelec - Third Party Line Hit Incidents</b><br>1 <sup>st</sup> Quarter 2017 12-Month Rolling <sup>31</sup> |                            |                            |                             |
|--|----------------------------|----------------------------|-----------------------------|
| <b>Cause of Line Hit</b>   | <b>Number of Incidents</b> | <b>Invoice Amount (\$)</b> | <b>Recovery Amount (\$)</b> |
| Dig In - Other   | 7                          | 0                          | 0                           |
| Excavated in Tolerance   | 41                         | 114,172                    | 34,868                      |
| Excavation Inconsistent with Ticket Scope  | 3                          | 2,504                      | 2,504                       |
| Excavation Prior to Lawful Start Date  | 2                          | 841                        | 456                         |
| Expired Ticket   | 10                         | 14,278                     | 11,254                      |
| Hand Digging   | 11                         | 5,573                      | 2,809                       |
| Marked Improperly  | 44                         | 59,316                     | 51,561                      |
| No Ticket  | 49                         | 52,925                     | 27,600                      |
| <b>Total</b>   | <b>167</b>                 | <b>249,609</b>             | <b>131,052</b>              |

<sup>30</sup> Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2017.

<sup>31</sup> Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2017.

| <b>Penn Power – Third Party Line Hit Incidents<br/>1<sup>st</sup> Quarter 2017 12-Month Rolling<sup>32</sup></b> |                            |                            |                             |
|--|----------------------------|----------------------------|-----------------------------|
| <b>Cause of Line Hit</b>   | <b>Number of Incidents</b> | <b>Invoice Amount (\$)</b> | <b>Recovery Amount (\$)</b> |
| Dig In - Other   | 12                         | 4,849                      | 3,640                       |
| Excavated in Tolerance   | 8                          | 8,226                      | 8,226                       |
| Excavation Inconsistent with Ticket Scope  | 1                          | 1,436                      | 1,436                       |
| Excavation Prior to Lawful Start Date  | 0                          | 0                          | 0                           |
| Expired Ticket   | 3                          | 5,684                      | 5,817                       |
| Hand Digging   | 1                          | 1,581                      | 1,581                       |
| Marked Improperly  | 4                          | 14,867                     | 13,963                      |
| No Ticket  | 24                         | 46,944                     | 31,468                      |
| <b>Total</b>   | <b>53</b>                  | <b>83,587</b>              | <b>66,131</b>               |

| <b>West Penn – Third Party Line Hit Incidents<br/>1<sup>st</sup> Quarter 2017 12-Month Rolling<sup>33</sup></b> |                            |                            |                             |
|---|----------------------------|----------------------------|-----------------------------|
| <b>Cause of Line Hit</b>  | <b>Number of Incidents</b> | <b>Invoice Amount (\$)</b> | <b>Recovery Amount (\$)</b> |
| Dig In - Other  | 34                         | 10,804                     | 978                         |
| Excavated in Tolerance  | 4                          | 9,745                      | 3,359                       |
| Excavation Inconsistent with Ticket Scope   | 14                         | 58,990                     | 43,164                      |
| Excavation Prior to Lawful Start Date   | 0                          | 0                          | 0                           |
| Expired Ticket  | 4                          | 21,506                     | 200                         |
| Hand Digging  | 3                          | 7,263                      | 5,788                       |
| Marked Improperly   | 14                         | 12,866                     | 12,666                      |
| No Ticket   | 28                         | 57,626                     | 37,370                      |
| <b>Total</b>  | <b>101</b>                 | <b>178,800</b>             | <b>103,525</b>              |

| <b>Cause of Line Hit</b>                  | <b>Definition</b>   |
|---|---|
| Dig In - Other                            | Still under investigation   |
| Excavated in Tolerance                    | Excavator didn't use prudent digging techniques within the Tolerance Zone                   |
| Excavation Inconsistent with Ticket Scope | Excavation outside dig box and/or scope of ticket   |
| Excavation Prior to Lawful Start Date     | Three business days prior to start of excavation from when the ticket was called in to mark |
| Expired Ticket                            | After ten business days have passed, the ticket is considered expired                       |
| Hand Digging                              | Excavator was hand digging within the tolerance zone, however the facility was still hit    |
| Marked Improperly                         | Ticket called in, facility and/or equipment was not marked properly                         |
| No Ticket                                 | No contact was made to create a dig-request ticket  |

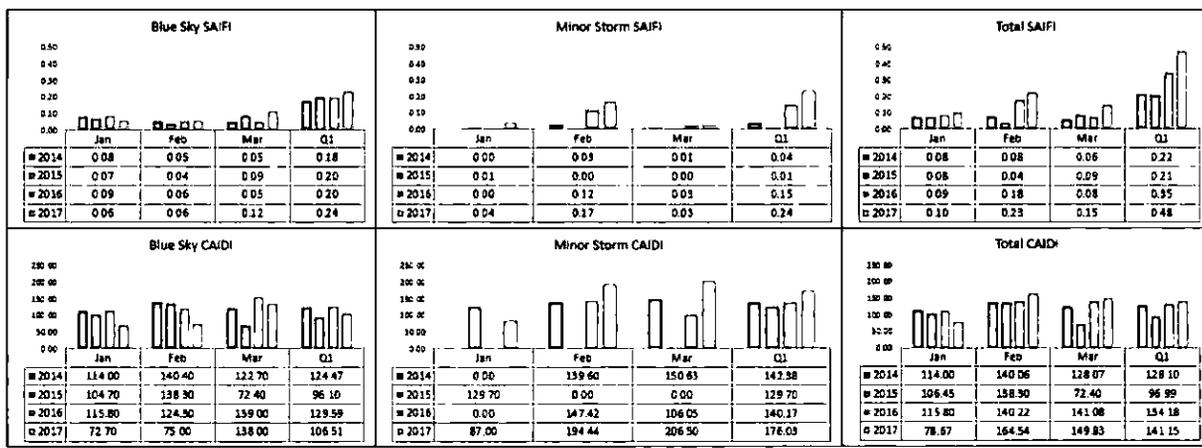
<sup>32</sup> Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2017.

<sup>33</sup> Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2017.

**ATTACHMENT D**

**Met-Ed:**

| Number of Minor Storm Days |      |     |      |       |
|----------------------------|------|-----|------|-------|
| Year                       | Jan  | Feb | Mar  | Total |
| 2014                       | 0    | 2   | 2    | 4     |
| 2015                       | 2    | 0   | 0    | 2     |
| 2016                       | 0    | 7   | 2    | 9     |
| 2014 – 2016 Average        | 0.67 | 3   | 1.33 | 5     |
| 2017 <sup>34</sup>         | 3    | 8   | 2    | 13    |



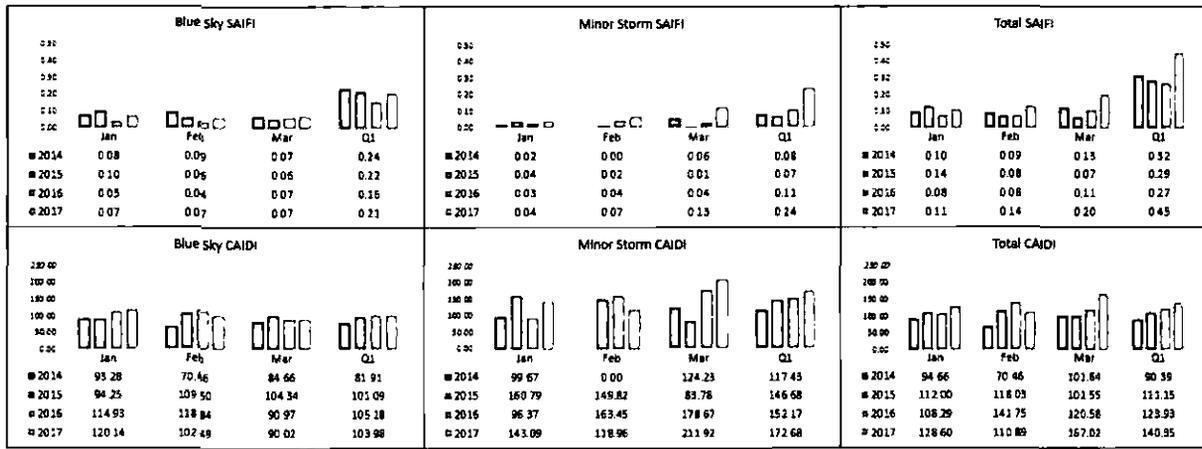
- Met-Ed experienced a total of thirteen minor storm days in the 1Q 2017 which exceeded the average of five minor storm days.
- Met-Ed's SAIFI in 1Q 2017 as compared to the same quarter in 2014 – 2016 had the highest performance for minor storm days. Specifically, in the 1Q 2017, blue sky (77 days) SAIFI<sup>35</sup> was 0.24 while minor storm (13 days) SAIFI was 0.24.
- Met-Ed's CAIDI in 1Q 2017 as compared to the same quarter in 2014 – 2016 had the highest performance for minor storm days. Specifically, in 1Q 2017, blue sky (77 days) CAIDI was 106.51 while minor storm (13 days) CAIDI was 176.03.

<sup>34</sup> Met-Ed experienced minor storm days on January 23-25, February 9-10, 12-14, 25-27, and March 1-2.

<sup>35</sup> To address blue sky SAIFI, Met-Ed continues to implement programs such as those identified in its Long-Term Infrastructure Improvement Plan to address equipment issues and minimize duration of customer outages. Examples include installation of SCADA, protective devices, circuit ties and loops, and porcelain cutouts. In addition, Met-Ed continues to perform circuit rehabilitation.

Penelec:

| Number of Minor Storm Days |     |     |      |       |
|----------------------------|-----|-----|------|-------|
| Year                       | Jan | Feb | Mar  | Total |
| 2014                       | 3   | 0   | 4    | 7     |
| 2015                       | 4   | 1   | 2    | 7     |
| 2016                       | 2   | 8   | 4    | 14    |
| 2014 – 2016 Average        | 3   | 3   | 3.67 | 9.33  |
| 2017 <sup>36</sup>         | 5   | 4   | 7    | 16    |

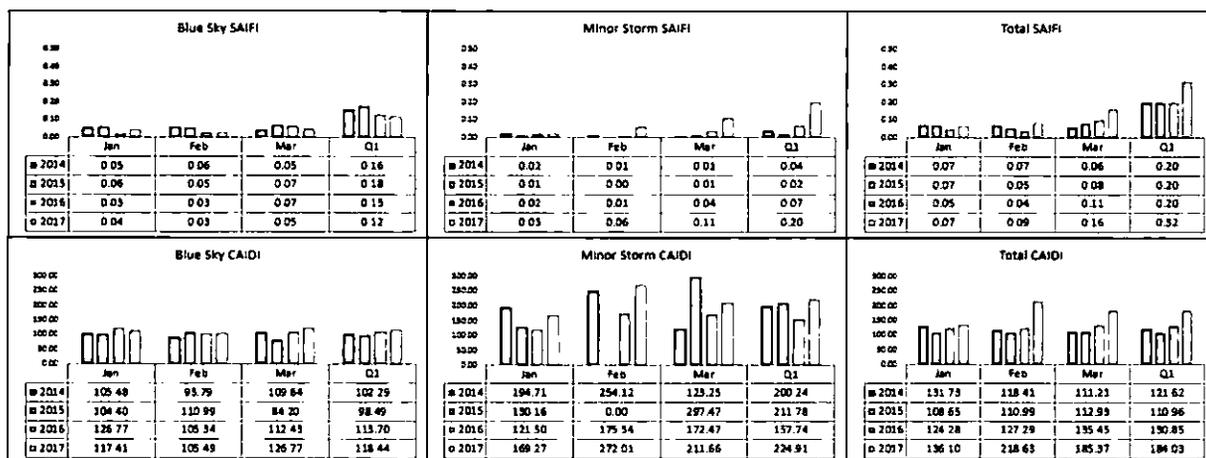


- Penelec experienced a total of sixteen minor storm days in the 1Q 2017 which exceeded the average of approximately nine days.
- Penelec’s SAIFI in 1Q 2017 as compared to the same quarter in 2014 – 2016 has the highest performance for minor storm days. Specifically, in the 1Q 2017, blue sky (74 days) SAIFI was 0.21 while minor storm (16 days) SAIFI was 0.24.
- Penelec’s CAIDI in 1Q 2017 as compared to the same quarter in 2014 – 2016 has the highest performance for minor storm days. Specifically, in the 1Q 2017, blue sky (74 days) CAIDI was 103.98 while minor storm (16 days) CAIDI was 172.68.

<sup>36</sup> Penelec experienced minor storms days on January 10-12, 24-25, February 9; 12-14, and March 1-3, 8-11.

West Penn:

| Number of Minor Storm Days |     |      |      |       |
|----------------------------|-----|------|------|-------|
| Year                       | Jan | Feb  | Mar  | Total |
| 2014                       | 2   | 2    | 2    | 6     |
| 2015                       | 2   | 0    | 4    | 6     |
| 2016                       | 2   | 5    | 4    | 11    |
| 2014 – 2016 Average        | 2   | 2.33 | 3.33 | 7.67  |
| 2017 <sup>37</sup>         | 6   | 6    | 7    | 19    |



- West Penn experienced a total of nineteen minor storm days in the 1Q 2017 which exceeded the average of approximately eight days.
- West Penn's SAIFI in 1Q 2017 as compared to the same quarter in 2014 – 2016 had the highest performance for minor storm days and the lowest performance for blue sky days. Specifically, in the 1Q 2017, blue sky (71 days) SAIFI was 0.12 while minor storm (19 days) SAIFI was 0.20.
- West Penn's CAIDI in 1Q 2017 as compared to the same quarter in 2014 – 2016 had the highest performance for minor storm days. Specifically, in the 1Q 2017, blue sky (71 days) CAIDI was 118.44 while minor storm (19 days) CAIDI was 224.91.

<sup>37</sup> West Penn experienced minor storm days on January 4-5, 10-13, February 8-10, 12-14, and March 1-3, 8-11

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 1<sup>st</sup> Quarter 2017 Reliability Report – :  
Metropolitan Edison Company, :  
Pennsylvania Electric Company :  
Pennsylvania Power Company and West :  
Penn Power Company – Public Version :**

**CERTIFICATE OF SERVICE**

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the individuals listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

Service by first class mail, as follows:

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Dated: May 1, 2017



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SECRETARY'S BUREAU

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Pennsylvania Electric Company,  
Pennsylvania Power Company and  
West Penn Power Company