

M-2016-2522508

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August 1, 2016

VIA UNITED PARCEL SERVICERosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor
Harrisburg, PA 17120**RECEIVED**

AUG - 1 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU**Re: Joint 2nd Quarter 2016 Reliability Report – Metropolitan Edison Company,
Pennsylvania Electric Company, Pennsylvania Power Company and West Penn
Power Company – Public Version**

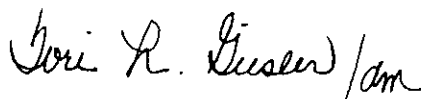
Dear Secretary Chiavetta:

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 2nd Quarter 2016 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)

PennPower
A FirstEnergy Company

Penelec
A FirstEnergy Company

Met-Ed
A FirstEnergy Company

**WestPenn
Power**
A FirstEnergy Company



Joint 2016 2nd Quarter Reliability Report

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

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

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Joint 2st Quarter 2016 Reliability Report –
Pennsylvania Power Company (“Penn Power”),
Pennsylvania Electric Company (“Penelec”),
Metropolitan Edison Company (“Met-Ed”), 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.¹

Major Events

None of the Companies experienced a major event during the reporting period ending June 30, 2016.

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¹ 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

2Q 2016 (12-Mo Rolling)	Penn Power			Penelec			Met-Ed			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
SAIFI	1.12	1.34	0.99 ²	1.26	1.52	1.29	1.15	1.38	1.33	1.05	1.26	1.03 ³
CAIDI	101	121	96 ⁴	117	141	135	117	140	125	170	204	144 ⁵
SAIDI	113	162	95 ⁶	148	213	175	135	194	166	179	257	148 ⁷
MAIFI ⁸			0.67			3.24			1.17			
Customers Served ⁹	161,223			581,350			556,031			710,522		
Number of Sustained Interruptions	2,761			11,330			9,444			10,384		
Customers Affected	160,285			752,119			738,189			728,536		
Customer Minutes	15,328,243			101,678,465			92,185,925			105,075,977		
Number of Customer Momentary Interruptions	108,810			1,883,457			647,795					

² Penn Power's SAIFI achieved benchmark performance or better.
³ West Penn's SAIFI achieved benchmark performance or better.
⁴ Penn Power's CAIDI achieved benchmark performance or better.
⁵ West Penn's CAIDI achieved benchmark performance or better.
⁶ Penn Power's SAIDI achieved benchmark performance or better.
⁷ West Penn's SAIDI achieved benchmark performance or better.
⁸ MAIFI values are not available for West Penn.
⁹ Represents the average number of customers served during the reporting period.

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.

Penn Power, Penelec, Met-Ed, 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

Penn Power, Penelec, Met-Ed, and West Penn Power'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 – Penn Power

Outage by Cause				
2nd Quarter 2016 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Animal	1,218,692	514	12,859	18.62%
Trees off ROW - tree	4,227,373	386	30,721	13.98%
Equipment failure	2,978,432	340	39,254	12.31%
Bird	280,926	325	3,458	11.77%
Line failure	1,765,273	258	13,608	9.34%
Trees off ROW - limb	789,950	226	5,571	8.19%
Lightning	887,762	161	8,237	5.83%
Unknown	702,825	161	14,483	5.83%
Trees - sec/service	66,340	86	310	3.11%
Vehicle	1,078,915	72	8,521	2.61%
Forced outage	123,915	42	5,840	1.52%
Previous lightning	26,744	36	245	1.30%
Overload	76,636	33	1,264	1.20%
Human error - non-company	86,379	32	562	1.16%
UG dig-up	32,672	20	278	0.72%
Customer equipment	117,376	18	11,189	0.65%
Trees on ROW	25,284	14	167	0.51%
Ice	155,507	10	1,157	0.36%
Object contact with line	395,435	10	1,408	0.36%
Human error - company	5,182	8	43	0.29%
Fire	277,813	4	1,056	0.14%
Vandalism	8,751	4	53	0.14%
Contamination	61	1	1	0.04%
Total	15,328,243	2,761	160,285	100.00%

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 June 30, 2016, and associated actions designed to address these outage causes.

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

To address tree outages, Penn Power performs routine vegetation management, trimming of radial taps with an aerial saw, as well as enhanced tree trimming, which results in the removal of a large number of trees (healthy or not) that are located outside of the right-of-way, that might impact lines and make it more difficult to restore power quickly. As of June 30, 2016, the Company's routine vegetation management program has trimmed 557 of the planned 1,109 miles. In addition, Penn Power plans to continue with its off right-of-way tree removal program by performing enhanced trimming on 400 miles with 186 miles being completed as of June 30, 2016.

To reduce the likelihood of equipment caused outages, Penn Power follows Inspection and Maintenance ("I&M") programs that set forth schedules for regular inspections of distribution facilities.¹⁰ These programs are geared towards specific components such as capacitors, poles, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate.

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:

- **Installation of supervisory control and data acquisition ("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. In 2016, Penn Power plans to install thirty switches on the transmission system

¹⁰ 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.

and three on the distribution system. As of June 30, 2016, three switches have been installed on the transmission system.

- **Circuit ties** – The Company will install new distribution circuit ties and loops. This is accomplished by creating an alternate path from which power is provided to customers affected by an outage, thereby reducing the duration and impact of outages. Specifically, Penn Power has plans to build or upgrade twenty-five miles of distribution lines to create the circuit ties and loops in 2016 with approximately eleven miles being completed thus far.
- **Circuit rehabilitation** – In 2016, Penn Power will inspect and rehabilitate approximately twenty-four miles of transmission lines, replacing equipment as necessary. As of June 30, 2016, over five miles have been rehabilitated. Poles, switches, crossarms, insulators and braces are examples of equipment that is typically replaced during this type of effort.
- **Customers experiencing multiple interruptions (“CEMI”) program** – Penn Power has established its CEMI program, which focuses on the clusters of customers that experience frequent operations of line protection devices. This program 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. To help address these types of concerns, Penn Power has installed three reclosers and seven fuses in 2016 which is in addition to the installation of over 200 reclosers and 2,900 fuses since 2005.

Outages by Cause – Penelec

Outage by Cause				
2nd Quarter 2016 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	20,842,176	2,698	215,096	23.81%
Unknown	8,755,451	1,848	80,903	16.31%
Animal	3,882,838	1,485	30,708	13.11%
Trees off ROW - tree	31,839,308	1,223	152,241	10.79%
Line failure	11,932,042	848	89,134	7.48%
Forced outage	5,599,496	773	52,171	6.82%
Bird	972,244	409	10,813	3.61%
Trees off ROW - limb	3,274,158	384	23,670	3.39%
Lightning	3,316,513	369	23,664	3.26%
Trees - sec/service	342,085	353	1,095	3.12%
Vehicle	4,735,314	231	35,769	2.04%
Trees on ROW	922,987	161	7,048	1.42%
Human error - non-company	1,219,698	109	10,161	0.96%
Human error - company	48,696	75	1,131	0.66%
Previous lightning	159,854	63	735	0.56%
Other electric utility	295,130	55	1,256	0.49%
UG dig-up	143,802	53	715	0.47%
Overload	524,596	50	5,819	0.44%
Object contact with line	1,104,585	38	3,564	0.34%
Wind	1,291,686	26	3,455	0.23%
Customer equipment	28,995	25	121	0.22%
Vandalism	303,553	14	1,568	0.12%
Fire	29,645	13	315	0.11%
Ice	64,478	13	469	0.11%
Other utility - non electric	43,278	7	188	0.06%
Contamination	2,257	6	10	0.05%
Switching error	3,600	1	300	0.01%
Total	101,678,465	11,330	752,119	100.00%

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 June 30, 2016, 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 facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, 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 address animal caused outages, Penelec installs animal guards on equipment that experience a high frequency of animal related outages. When possible, animal guards are installed at the time service is restored to prevent future animal related outages.

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:

- **Porcelain cutout replacement** – In particular, cutout failures have been identified as the highest contributor to the equipment failure outage category. Penelec has a porcelain cutout replacement program that specifically targets the 34.5kV system. In 2016, Penelec plans to install new cutouts on sixty-eight circuits to reduce the number of equipment failures experienced and as of June 30, 2016, 1,391 have been installed on forty circuits.
- **Targeted circuit rehabilitation** – Penelec plans to target two circuits for circuit rehabilitation in 2016 and as of June 30, 2016, one has been completed. To

accomplish this, Penelec first conducts an inspection to identify equipment replacement needs and then schedules and completes the work. Equipment that may be impacted includes poles, switches, crossarms, insulators, braces, and cutouts.

- **Installation of SCADA switches** – Penelec plans to install thirteen remote SCADA controlled switches in 2016 to allow personnel to remotely operate switches and potentially restore service to an outaged section of line. This eliminates the need to dispatch crews to manually operate the switch and has the potential to reduce the number of customers affected by an outage, as well as the outage duration. As of June 30, 2016, nine SCADA controlled switches have been installed.
- **Clusters of customers experiencing frequent interruptions** – Penelec focuses 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. If so, Penelec will make the necessary modifications to its lines and equipment to ensure the customer's needs are satisfied. In 2016, sixty-four projects are planned as a result of this program and as of June 30, 2016, six have been completed.

Outages by Cause – Met-Ed

Outage by Cause				
2nd Quarter 2016 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	21,813,559	2,401	203,488	25.42%
Animal	3,927,275	1,518	40,212	16.07%
Unknown	6,734,697	1,127	89,788	11.93%
Trees off ROW - tree	21,660,141	923	91,680	9.77%
Line failure	7,543,100	581	51,038	6.15%
Trees off ROW - limb	6,332,851	552	48,178	5.84%
Trees on ROW	5,032,847	474	23,874	5.02%
Forced outage	3,740,061	432	67,692	4.57%
Bird	316,604	362	4,270	3.83%
Vehicle	9,102,733	308	57,305	3.26%
Lightning	1,593,414	267	12,590	2.83%
Trees - sec/service	500,856	181	1,111	1.92%
Human error - non-company	472,291	77	3,959	0.82%
Overload	1,221,873	51	15,367	0.54%
Object contact with line	970,701	46	9,180	0.49%
Human error - company	305,692	34	13,630	0.36%
Previous lightning	239,068	28	1,519	0.30%
UG dig-up	62,389	21	354	0.22%
Customer equipment	41,305	14	370	0.15%
Wind	426,171	10	1,036	0.11%
Fire	10,924	8	71	0.08%
Ice	41,855	6	129	0.06%
Other utility - non electric	76,363	6	82	0.06%
Switching error	14,941	6	1,242	0.06%
Other electric utility	1,399	4	5	0.04%
Contamination	1,651	3	10	0.03%
Vandalism	234	3	3	0.03%
Call error	930	1	6	0.01%
Total	92,185,925	9,444	738,189	100.00%

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 June 30, 2016, and associated actions designed to address these outage causes.

To reduce the likelihood of equipment caused outages, Met-Ed follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, 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.

An outage-by-cause analysis is one of the tools used to analyze and develop circuit and system reliability improvement plans. 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 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. Significant unknown outages are reviewed by reliability engineering, with post outage circuit inspections being completed as needed.

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:

- **Installation of SCADA switches** – Met-Ed plans to install seventy SCADA devices on eleven of its worst performing circuits (“WPCs”) in 2016 and as of June 30, 2016, twenty-one SCADA devices on nine WPCs have been installed. These devices reduce the time it takes to restore customers during an outage.

- **Porcelain cutout replacement** – Met-Ed has been proactively replacing porcelain cutouts with polymer cutouts. Crews have focused their efforts in zone one¹¹ of circuits, as this represents the greatest opportunity to enhance the Company’s system. As of June 30, 2016, Met-Ed has replaced 940 cutouts on the six circuits that were targeted at the beginning of 2016.
- **Protective devices** – Met-Ed has installed protective devices, such as fuses and reclosers, across the entire system. These devices prevent circuit lockouts by limiting the area of an outage to smaller sections of the circuit.
- **Multi-operation device review** – Met-Ed periodically conducts a multi-operation device review to identify causes and trends of equipment failures and other outage causes. Engineering then plans accordingly to repair or replace facilities.

¹¹ 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.

Outages by Cause – West Penn

Outage by Cause				
2nd Quarter 2016 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	18,577,231	2,155	132,895	20.75%
Unknown	9,991,582	1,633	87,379	15.73%
Trees off ROW - tree	29,358,378	1,465	119,697	14.11%
Animal	2,446,049	1,215	26,159	11.70%
Forced outage	8,926,283	1,170	149,220	11.27%
Line failure	15,143,731	1,017	77,665	9.79%
Trees off ROW - limb	4,807,598	378	24,269	3.64%
Trees on ROW	4,562,509	358	21,454	3.45%
Vehicle	8,172,516	297	61,887	2.86%
Bird	429,619	265	5,005	2.55%
Trees - sec/service	134,696	181	348	1.74%
Lightning	652,360	67	4,570	0.65%
Human error - non-company	640,610	67	8,437	0.65%
UG dig-up	80,734	27	363	0.26%
Human error - company	167,420	26	4,371	0.25%
Object contact with line	171,293	21	1,135	0.20%
Overload	226,460	12	1,631	0.12%
Customer equipment	7,989	11	26	0.11%
Vandalism	43,845	5	131	0.05%
Other utility - non electric	61,804	4	324	0.04%
Fire	110,154	3	185	0.03%
Other electric utility	171,246	3	1,073	0.03%
Switching error	34,290	2	159	0.02%
Wind	157,580	2	153	0.02%
Total	105,075,977	10,384	728,536	100.00%

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 June 30, 2016, and associated actions designed to address these outage causes.

To reduce the likelihood of equipment caused outages, West Penn follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, 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.

To reduce tree caused outages, West Penn has implemented a more aggressive vegetation management program. In addition to its normal on-cycle tree trimming, West Penn introduced a program to mitigate the impact of the Emerald Ash Borer, which is now invading western portions of Pennsylvania. The Company will accelerate this Emerald Ash Borer mitigation program for the subtransmission system and the zone two portion of its distribution system from its current five-year to a new three-year completion timeline. Finally, West Penn's danger tree program consists of removing, or significantly reducing in height, dead, diseased or damaged trees located outside the boundary of the right-of-way that pose a threat to service reliability or the integrity of the line under any weather condition. These programs are in addition to the cycle tree trimming program for trimming circuits on a five-year schedule.

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:

- **Targeted circuit rehabilitation** – West Penn plans to conduct targeted circuit rehabilitation which consists of a circuit inspection, identification of equipment in need of replacement, and the replacement of the identified equipment. Equipment may include, but is not limited to, poles, switches, crossarms, insulators, braces and cutouts. West Penn plans to target thirty-eight circuits in 2016 for rehabilitation and as of June 30, 2016, has completed the rehabilitation on five circuits.

- **Enhanced overcurrent protection and SCADA control** – West Penn will install new electronic reclosers with SCADA control, which may limit the number of customers affected during a lockout and allow remote switching to restore customers more quickly. Adding SCADA control to electronic reclosers in select substations with existing SCADA capabilities will provide additional monitoring and also allow for remote switching to restore customers at the circuit level more quickly. In 2016, West Penn plans to replace a total of twenty-five breakers with electronic reclosers at five substations and is currently in the process of performing work on five breakers at one substation.
- **Underground getaway replacement** – West Penn will replace 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 will target underground getaways that were installed prior to 1988 and are known to be prone to failure. By replacing these getaways, West Penn may reduce the interruptions to a circuit associated with the cable as well as the long interruption times associated with the replacement. In 2016, West Penn will replace underground getaways at three substations consisting of nine circuits and is currently in the process of performing work at one substation.
- **Subtransmission modernization and automation** – West Penn will oversee the installation of SCADA controlled reclosers and switches and automatic air switch modernization. This will provide enhanced sectionalizing for larger blocks of customers at the substation source level. The SCADA controlled switches will also allow for remote switching to sectionalize and restore large blocks of customers more quickly, leading to reduced outage durations. In 2016, West Penn will install forty-five SCADA controlled reclosers and switches at its substations and is currently in the process of performing work at three substations.

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 2016		Penn Power			Penelec			Met-Ed			West Penn		
		Planned	Completed		Planned	Completed		Planned	Completed		Planned	Completed	
		Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD
Forestry	Transmission (Miles)	116.03	29.60	48.53	386.17	120.37	231.44	258.02	98.30	138.06	171.55	59.27	75.08
	Distribution (Miles)	1,109	268	557	3,794	856	1,558	2,349	437	896	4,516	988	1,924
Transmission	Aerial Patrols	2	1	1	2	1	1	2	0	1	2	1	1
	Groundline	532	499	499	1,274	0	0	904	0	0	15	0	0
Substation	Substation Inspections Class A	146	0	73	798	0	399	420	0	210	972	0	487
	Substation Inspections Class B	146	73	73	798	399	399	420	210	210	972	484	486
	Substation Inspections Class C	584	146	292	3,192	798	1,596	1,680	420	840	3,888	970	1,948
	Transformers	100	53	74	524	173	406	222	102	129	504	119	261
	Breakers	8	5	6	256	87	148	24	7	19	322	50	70
	Relay Schemes	14	1	12	101	23	61	97	22	63	160	61	76
Distribution	Capacitors	992	0	992	8,783	0	8,783	4,755	0	4,755	1,305	0	1,305
	Poles	10,600	179	10,708	41,111	16,923	41,911	17,111	3,577	14,182	26,880	11,205	26,898
	Reclosers	808	133	575	2,567	0	0	1,079	386	1,029	3,776	1,040	3,402
	Radio-Controlled Switches	Penn Power has no radio-controlled switches			2,566	1,223	1,284	290	128	146	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 Expenditures¹²

Penn Power						
T&D O&M – 2Q / YTD June 2016 (\$)						
Transmission						
Category	2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget	
560	Operation Supervision and Engineering	453	-	944	-	-
561	Load Dispatching	28,127	24,418	59,280	62,737	113,534
562	Station Expenses	-	-	2,417	-	-
563	Overhead Lines Expenses	244	-	4,448	-	-
565	Transmission of Electricity by Others	844,529	1,804,983	2,098,648	3,686,573	7,912,360
566	Miscellaneous Transmission Expenses	5,309	29,340	11,118	58,282	120,490
567	Rents	-	-	-	-	-
568	Maintenance Supervision and Engineering	3,943	2,397	8,725	4,753	11,263
569	Maintenance of Structures	6,669	5,317	13,641	11,211	22,815
570	Maintenance of Station Equipment	2,787	762	5,629	1,524	3,047
571	Maintenance of Overhead Lines	24,083	(36,688)	38,805	(61,870)	(104,906)
572	Maintenance of Underground Lines	-	-	-	-	-
573	Maintenance of Miscellaneous Transmission Plant	(1,182)	-	(1,176)	-	-
575	Market Administration, Monitoring & Compliance Services	25	4,022	25	10,672	20,035
Transmission Total		914,989	1,834,550	2,242,504	3,773,882	8,098,638
Distribution						
Category	2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget	
580	Operation Supervision and Engineering	2,246	-	2,399	-	-
581	Load Dispatching	-	-	-	-	-
582	Station Expenses	8,158	-	14,392	-	-
583	Overhead Line Expenses	48,182	-	104,654	-	-
584	Underground Line Expenses	50,343	137,315	87,216	273,018	549,945
586	Meter Expenses	14,596	19,912	27,688	38,744	83,916
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	(439,750)	173,779	(662,755)	352,146	760,794
589	Rents	87,514	79,747	172,465	159,493	318,986
590	Maintenance Supervision and Engineering	20,937	21,824	38,850	42,879	108,672
591	Maintenance of Structures	-	-	-	-	-
592	Maintenance of Station Equipment	227,016	70,837	492,187	62,721	490,579
593	Maintenance of Overhead Lines	2,202,000	3,308,936	4,732,234	6,766,720	12,525,125
594	Maintenance of Underground Lines	69,370	(2,164)	141,082	(4,329)	(8,657)
595	Maintenance Line Transformer	8,854	-	19,264	-	-
596	Maintenance of Street Lighting and Signal Systems	24,784	-	70,717	-	-
597	Maintenance of Meters	148,716	61,959	279,975	121,211	267,587
598	Maintenance of Miscellaneous Distribution Plant	68,721	28,072	158,800	59,140	120,281
Distribution Total		2,541,686	3,900,217	5,679,168	7,871,743	15,217,228
Penn Power Total		3,456,675	5,734,766	7,921,672	11,645,625	23,315,866

¹² Budgets are subject to change.

Penelec
T&D O&M – 2Q / YTD June 2016 (\$)

Transmission

Category		2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget
560	Operation Supervision and Engineering	9,153	4,229	20,319	8,366	18,384
561	Load Dispatching	110,362	344,749	233,612	685,779	1,410,677
562	Station Expenses	59,353	-	102,852	-	-
563	Overhead Lines Expenses	68,327	2,827	432,006	279,263	355,969
565	Transmission of Electricity by Others	5,105,472	4,436,068	9,667,019	8,868,688	17,928,442
566	Miscellaneous Transmission Expenses	130,354	272,779	266,337	531,267	1,105,164
567	Rents	916,565	837,408	1,899,536	1,661,480	3,344,046
568	Maintenance Supervision and Engineering	337,206	334,857	653,271	662,947	1,457,226
569	Maintenance of Structures	91,601	25,725	181,345	53,961	109,605
570	Maintenance of Station Equipment	701,062	114,333	1,125,302	194,551	428,628
571	Maintenance of Overhead Lines	2,267,095	2,640,313	3,900,824	4,772,319	10,257,981
572	Maintenance of Underground Lines	-	-	-	-	-
573	Maintenance of Miscellaneous Transmission Plant	226	-	1,682	-	-
575	Market Administration, Monitoring & Compliance Services	-	6,853	(0)	16,489	30,918
Transmission Total		9,796,776	9,020,140	18,484,104	17,735,111	36,447,042

Distribution

Category		2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget
580	Operation Supervision and Engineering	112,059	29,304	145,452	50,007	106,900
581	Load Dispatching	83,436	100,752	158,235	193,682	421,219
582	Station Expenses	102,002	-	197,585	-	-
583	Overhead Line Expenses	(6,701)	11,162	12,314	26,325	52,827
584	Underground Line Expenses	290,356	244,762	419,134	372,044	789,356
585	Distribution-Street Lighting & Signal System Expenses	-	-	-	-	-
586	Meter Expenses	122,343	183,605	198,370	340,297	723,375
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	1,793,133	1,805,811	3,859,869	3,278,948	7,101,929
589	Rents	401,362	306,851	847,543	613,703	1,227,405
590	Maintenance Supervision and Engineering	95,132	97,903	173,845	191,955	493,177
591	Maintenance of Structures	-	-	-	-	-
592	Maintenance of Station Equipment	1,141,799	1,690,787	2,122,023	3,325,958	7,191,895
593	Maintenance of Overhead Lines	4,907,595	4,695,185	9,720,162	9,128,342	19,487,596
594	Maintenance of Underground Lines	222,763	74,218	462,876	73,228	175,254
595	Maintenance Line Transformer	49,813	-	88,850	-	-
596	Maintenance of Street Lighting and Signal Systems	174,001	661,514	432,442	1,368,141	2,905,519
597	Maintenance of Meters	587,618	450,094	1,019,927	882,679	1,899,872
598	Maintenance of Miscellaneous Distribution Plant	505,913	127,620	1,002,304	267,726	563,528
Distribution Total		10,582,626	10,479,568	20,860,933	20,113,034	43,139,852
Penelec Total		20,379,402	19,499,708	39,345,037	37,848,144	79,586,893

Met-Ed
T&D O&M – 2Q / YTD June 2016 (\$)

Transmission

Category		2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget
560	Operation Supervision and Engineering	7,261	4,443	16,261	8,687	19,295
561	Load Dispatching	103,961	364,218	207,761	769,174	1,549,563
562	Station Expenses	32,862	-	58,618	-	-
563	Overhead Lines Expenses	53,661	15,915	119,807	30,362	33,112
565	Transmission of Electricity by Others	3,071,939	4,216,276	6,109,156	8,512,043	17,657,649
566	Miscellaneous Transmission Expenses	152,658	231,270	282,227	455,893	965,756
567	Rents	273,126	208,893	551,104	417,787	835,574
568	Maintenance Supervision and Engineering	263,873	288,870	512,059	571,888	1,257,255
569	Maintenance of Structures	70,117	22,955	140,464	48,270	98,136
570	Maintenance of Station Equipment	777,851	534,991	1,413,333	1,141,864	2,658,144
571	Maintenance of Overhead Lines	852,366	1,488,465	1,796,984	2,380,243	5,742,576
572	Maintenance of Underground Lines	100	-	223	-	-
573	Maintenance of Miscellaneous Transmission Plant	84,972	40,340	155,281	80,978	171,572
575	Market Administration, Monitoring & Compliance Services	-	8,387	-	20,366	39,104
Transmission Total		5,744,744	7,425,024	11,363,278	14,437,554	31,027,737

Distribution

Category		2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget
580	Operation Supervision and Engineering	16,186	32,368	22,155	61,109	138,032
581	Load Dispatching	51,865	90,774	103,287	217,033	429,836
582	Station Expenses	285,317	114,580	324,540	259,529	635,086
583	Overhead Line Expenses	12,142	7,750	38,748	28,435	37,277
584	Underground Line Expenses	137,529	144,119	137,529	288,239	576,477
585	Distribution-Street Lighting & Signal System Expenses	-	-	117,480	-	-
586	Meter Expenses	-	222,235	-	409,277	912,550
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	1,350,655	1,163,718	2,575,482	2,101,967	4,800,085
589	Rents	130,563	135,218	275,715	270,437	540,873
590	Maintenance Supervision and Engineering	81,978	89,585	149,602	175,668	450,737
591	Maintenance of Structures	1,645	4,644	2,473	8,745	19,064
592	Maintenance of Station Equipment	989,345	906,150	2,183,836	1,556,057	3,345,342
593	Maintenance of Overhead Lines	7,374,949	5,203,470	14,126,066	10,371,869	20,575,029
594	Maintenance of Underground Lines	619,840	529,737	1,054,262	1,041,241	2,101,516
595	Maintenance Line Transformer	57,014	-	104,225	-	-
596	Maintenance of Street Lighting and Signal Systems	150,860	64,595	323,499	126,931	256,266
597	Maintenance of Meters	599,431	449,905	1,067,638	879,145	1,808,430
598	Maintenance of Miscellaneous Distribution Plant	494,466	170,319	944,507	354,650	719,375
Distribution Total		12,353,784	9,329,170	23,551,045	18,150,330	37,345,977
Met-Ed Total		18,098,529	16,754,194	34,914,323	32,587,884	68,373,714

**West Penn
 T&D O&M – 2Q / YTD June 2016 (\$)**

Transmission

Category		2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget
560	Operation Supervision and Engineering	9,574	4,537	21,251	8,976	19,724
561	Load Dispatching	179,105	500,325	338,534	994,608	2,080,358
562	Station Expenses	122,996	335,444	191,766	725,551	1,463,984
563	Overhead Lines Expenses	69,815	2,002	164,857	2,002	7,006
565	Transmission of Electricity by Others	9,249,428	7,654,019	20,500,281	15,380,207	30,864,730
566	Miscellaneous Transmission Expenses	57,105	83,895	99,472	163,345	347,235
567	Rents	76,506	65,848	156,286	131,697	263,394
568	Maintenance Supervision and Engineering	117,363	84,694	223,068	164,776	388,602
569	Maintenance of Structures	8,519	19,445	17,621	41,025	83,486
570	Maintenance of Station Equipment	640,187	45,881	1,033,829	75,858	199,456
571	Maintenance of Overhead Lines	2,393,674	1,488,590	3,900,221	2,413,401	5,544,493
572	Maintenance of Underground Lines	-	-	(22)	-	-
573	Maintenance of Miscellaneous Transmission Plant	-	-	-	-	-
575	Market Administration, Monitoring & Compliance Services	30	-	(221)	-	-
Transmission Total		12,924,302	10,284,679	26,646,944	20,101,446	41,262,469

Distribution

Category		2Q Actuals	2Q Budget	YTD Actuals	YTD Budget	Annual Budget
580	Operation Supervision and Engineering	148,794	23,182	216,924	50,781	130,262
581	Load Dispatching	286,993	344,290	535,288	659,510	1,470,338
582	Station Expenses	199,254	294,774	312,253	624,488	1,256,706
583	Overhead Line Expenses	380,663	457,744	1,120,539	984,546	1,374,063
584	Underground Line Expenses	357,681	243,563	582,373	487,238	974,363
586	Meter Expenses	252,505	259,471	432,804	448,020	1,079,896
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	3,339,191	2,537,661	6,803,919	4,790,304	10,496,974
589	Rents	-	-	-	-	-
590	Maintenance Supervision and Engineering	85,879	87,824	157,527	172,300	444,241
591	Maintenance of Structures	-	-	-	-	-
592	Maintenance of Station Equipment	1,015,680	685,873	2,282,590	1,309,501	2,919,585
593	Maintenance of Overhead Lines	3,968,759	9,025,616	8,058,225	17,380,314	35,868,603
594	Maintenance of Underground Lines	113,926	240,950	286,435	483,235	728,590
595	Maintenance Line Transformer	15,792	-	34,031	-	-
596	Maintenance of Street Lighting and Signal Systems	169,217	194,983	444,472	413,605	831,979
597	Maintenance of Meters	308,815	344,639	533,547	731,249	1,472,240
598	Maintenance of Miscellaneous Distribution Plant	120,088	129,533	278,951	271,531	551,464
Distribution Total		10,763,237	14,870,101	22,079,878	28,806,620	59,599,305
West Penn Total		23,687,539	25,154,780	48,726,822	48,908,066	100,861,774

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^{13, 14}

Penn Power					
T&D Capital – 2Q/YTD June 2016 (\$)					
Category	2Q Actuals	2Q Budget	2Q YTD Actuals	2Q YTD Budget	Annual Budget
Capacity	341,267	51,147	675,290	87,163	751,832
Condition	778,571	1,678,471	1,801,041	3,227,162	7,150,119
Facilities	13,903	177,840	51,291	202,490	602,890
Forced	2,804,974	860,647	5,767,895	1,494,665	3,122,387
Meter Related	101,059	(7,494)	255,044	(14,910)	(29,741)
New Business	992,853	383,075	2,232,923	766,157	1,532,307
Other	3,594,887	867,814	4,730,431	2,369,848	5,520,456
Reliability	2,249,018	6,125,680	4,310,825	9,609,511	18,597,817
Street Light	842,210	8,052	1,873,659	15,710	30,169
Tools & Equipment	204,450	116,251	(22,040)	237,707	439,691
Vegetation Management	803,406	942,033	1,259,934	1,889,156	3,773,223
Penn Power Total	12,726,598	11,203,517	22,936,294	19,884,660	41,491,149

Penelec					
T&D Capital – 2Q/YTD June 2016 (\$)					
Category	2Q Actuals	2Q Budget	2Q YTD Actuals	2Q YTD Budget	Annual Budget
Capacity	6,315,902	6,766,136	11,983,472	15,182,506	27,883,571
Condition	4,969,163	5,582,510	9,736,587	9,682,592	21,748,193
Facilities	1,064,959	1,393,852	2,446,505	1,843,771	3,990,402
Forced	9,360,686	7,715,209	20,065,752	14,371,281	30,242,225
Meter Related	854,967	1,126,736	1,789,211	2,180,713	4,571,800
New Business	3,483,881	2,541,307	6,519,804	4,937,780	10,288,566
Other	13,542,787	14,033,973	18,339,131	24,485,972	60,570,532
Reliability	4,938,134	4,152,699	8,305,912	8,308,033	17,571,069
Street Light	313,710	510,506	1,054,128	1,025,524	2,049,681
Tools & Equipment	235,498	387,169	767,954	794,494	1,538,594
Vegetation Management	5,051,549	5,249,949	9,144,196	9,969,120	21,191,380
Penelec Total	50,131,234	49,460,046	90,152,650	92,781,785	201,646,013

¹³ Budgets are subject to change.

¹⁴ General note: Capital reported on Generally Accepted Accounting Principles (GAAP) basis.

Met-Ed					
T&D Capital – 2Q/YTD June 2016 (\$)					
Category	2Q Actuals	2Q Budget	2Q YTD Actuals	2Q YTD Budget	Annual Budget
Capacity	4,975,602	4,905,778	7,390,337	9,744,413	16,592,793
Condition	3,971,540	6,253,579	11,081,991	10,288,983	21,080,001
Facilities	441,755	879,052	951,304	1,058,661	2,640,989
Forced	7,846,886	6,419,636	15,974,546	12,281,396	26,337,879
Meter Related	585,266	923,709	1,255,944	2,148,373	4,017,105
New Business	4,275,763	4,519,809	7,764,919	7,147,889	15,597,407
Other	5,204,992	2,782,475	4,179,339	5,220,183	26,337,860
Reliability	3,685,658	2,714,790	6,131,467	5,845,542	12,193,200
Street Light	183,907	102,532	335,249	197,680	403,763
Tools & Equipment	155,798	327,248	434,979	672,549	1,281,871
Vegetation Management	1,211,940	2,838,330	2,414,019	5,349,907	11,280,846
Met-Ed Total	32,539,106	32,666,939	57,914,095	59,955,574	137,763,715

West Penn					
T&D Capital – 2Q/YTD June 2016 (\$)					
Category	2Q Actuals	2Q Budget	2Q YTD Actuals	2Q YTD Budget	Annual Budget
Capacity	2,258,929	479,304	5,102,942	3,927,331	7,892,506
Condition	3,261,357	2,654,041	6,427,273	4,724,443	9,082,236
Facilities	659,042	561,724	1,098,861	758,201	3,345,053
Forced	6,718,256	7,564,772	15,776,359	14,662,958	29,427,863
Meter Related	652,835	736,972	1,546,801	1,553,680	3,143,581
New Business	6,261,966	8,266,017	14,019,004	15,258,177	28,649,406
Other	9,693,917	6,076,816	13,164,193	11,397,318	21,760,865
Reliability	5,063,734	7,193,964	8,245,477	12,817,427	27,984,215
Street Light	1,876,948	781,725	3,105,305	1,461,992	3,030,711
Tools & Equipment	419,241	805,222	1,136,723	2,003,565	3,351,261
Vegetation Management	5,993,755	7,620,830	12,948,020	15,417,553	28,833,132
West Penn Total	42,859,981	42,741,385	82,570,957	83,982,645	166,500,829

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).¹⁵

Staffing Levels

Penn Power 2016												
Staffing Level						Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2017 ¹⁸
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁶	Retirement	Voluntary Separation	Other ¹⁷	
Distribution	Line Leader	26	26					2			2	
	Line Troubleshooter	11	10								1	
	Lineman	42	42			1					1	
Substation	Substation Leader	4	4									
	Substation Employee	14	14									
Transmission	Line Leader	1	1									
	Lineman	4	4									
Total		102	101			1		2			4	

¹⁵ 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.

¹⁶ Includes transfers, promotions, and promotions within a position.

¹⁷ Includes transfers, involuntary separations, promotions, and promotions within a position.

¹⁸ Hiring plan to be provided annually in the 4Q report.

Penelec 2016												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2017 ²¹
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁹	Retirement	Voluntary Separation	Other ²⁰	
Distribution	Line Leader	82	79					1	1		3	
	Line Troubleshooter	62	62					3	1		2	
	Lineman	105	102					2	1		4	
Substation	Substation Leader	3	3									
	Substation Employee	63	61					4	2		4	
Transmission	Line Leader	2	2									
	Lineman	4	4									
Total		321	313					10	5		13	

¹⁹ Includes transfers, promotions, and promotions within a position.

²⁰ Includes transfers, involuntary separations, promotions, and promotions within a position.

²¹ Hiring plan to be provided annually in the 4Q report.

Met-Ed 2016												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2017 ²⁴
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ²²	Retirement	Voluntary Separation	Other ²³	
Distribution	Line Leader	53	54					2			1	
	Line Troubleshooter	31	27					1			5	
	Lineman	124	124					1			1	
Substation	Substation Leader	9	9									
	Substation Employee	59	59									
Transmission	Line Leader	1	1									
	Lineman	3	3									
Total		280	277					4			7	

²² Includes transfers, promotions, and promotions within a position.

²³ Includes transfers, involuntary separations, promotions, and promotions within a position.

²⁴ Hiring plan to be provided annually in the 4Q report.

West Penn 2016												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2017 ²⁷
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ²⁵	Retirement	Voluntary Separation	Other ²⁶	
Distribution	Line Leader	61	59					1			3	
	Line Troubleshooter	65	66					2			1	
	Lineman	74	89				13	16			14	
Substation	Substation Leader	14	14									
	Substation Employee	49	58				7	6			4	
Transmission	Line Leader	1	1									
	Lineman	1	1									
Total		265	288				20	25			22	

²⁵ Includes transfers, promotions, and promotions within a position.

²⁶ Includes transfers, involuntary separations, promotions, and promotions within a position.

²⁷ 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

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Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Wheatland	W-150	Clark	1,519	7	1	364,219	1,596	2.26	240	1.05	228	0.17
2	Hillcrest	D-322	New Castle	1,127	3	1	355,088	1,172	2.20	315	1.04	303	0.00
3	Thompson Run	D550	Zelienople	999	37	1	349,442	1,472	2.17	350	1.47	237	0.44
4	Mercer	W-167	Clark	857	36	0	341,024	1,349	2.12	398	1.57	253	0.16
5	McDowell	W-120	Clark	1,288	30	0	307,861	2,483	1.91	239	1.93	124	0.13
6	Mercer	W-128	Clark	1,218	30	1	302,980	1,907	1.88	249	1.57	159	0.33
7	Stoneboro	W-131	Clark	1,427	71	0	254,114	1,756	1.58	178	1.23	145	1.24
8	Perry	W-156	Clark	1,051	50	0	252,952	1,296	1.57	241	1.23	195	0.20
9	Canal	W-103	Clark	1,483	40	0	246,095	1,689	1.53	166	1.14	146	0.17

Penelec													
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	2,908	90	0	2,403,418	9,528	4.13	826	3.28	252	2.68
2	Madera	00166-22	Philipsburg	2,155	56	0	1,163,447	4,080	2.00	540	1.89	285	5.78
3	DuBois	00137-23	DuBois	2,980	75	0	1,045,119	7,680	1.80	351	2.58	136	0.58
4	Crown	00319-51	Oil City	1,302	64	2	962,862	5,178	1.66	740	3.98	186	4.44
5	Tiffany	00435-65	Montrose	1,211	26	2	948,807	4,207	1.63	783	3.47	226	15.41
6	Union City	00206-43	Erie	3,744	116	0	932,238	7,739	1.60	249	2.07	120	9.61
7	Powell Avenue	00237-31	Erie	1,741	23	1	915,517	3,457	1.57	526	1.99	265	3.28
8	Hilltop	00048-11	Johnstown	2,255	13	2	915,151	7,781	1.57	406	3.45	118	5.17
9	French Road	00223-31	Erie	1,216	19	0	911,105	2,798	1.57	749	2.30	326	6.02
10	Tionesta Junction Sw Sta	00498-51	Oil City	1,072	57	1	892,090	8,578	1.53	832	8.00	104	10.36
11	Erie East	00234-31	Erie	1,009	50	0	856,348	1,415	1.47	849	1.40	605	4.93
12	Warren 5 th Avenue	00250-41	Warren	922	31	2	810,200	2,682	1.39	879	2.91	302	2.83
13	Tunkhannock	00533-65	Montrose	1,223	63	1	803,986	2,579	1.38	657	2.11	312	22.14
14	Brooklyn	00749-65	Montrose	498	16	2	669,004	1,656	1.15	1,343	3.33	404	1.26
15	Boyer	00584-31	Erie	1,738	32	2	664,569	5,604	1.14	382	3.22	119	4.46
16	Rolling Meadows	00310-31	Erie	4,327	36	0	663,214	5,702	1.14	153	1.32	116	2.53
17	Grover	00527-63	Mansfield	1,099	78	1	643,301	3,527	1.11	585	3.21	182	13.13
18	N Meshoppen Tran	00534-65	Montrose	846	26	0	625,232	1,343	1.08	739	1.59	466	1.28
19	French Road	00550-31	Erie	1,558	25	1	606,332	6,176	1.04	389	3.96	98	3.25
20	Philipsburg	00162-22	Philipsburg	3,355	80	0	587,011	11,007	1.01	175	3.28	53	3.95
21	Russell Hill	00282-65	Montrose	1,109	63	0	570,974	2,858	0.98	515	2.58	200	3.34
22	Buffalo Road	00580-31	Erie	1,341	27	1	564,559	2,108	0.97	421	1.57	268	1.42
23	South Mansfield	00617-63	Mansfield	474	19	7	543,937	4,828	0.94	1,148	10.19	113	0.00
24	Lake Como	00788-65	Montrose	625	26	1	538,123	1,590	0.93	861	2.54	338	35.54
25	Corry Central	00432-43	Erie	574	3	1	525,653	794	0.90	916	1.38	662	1.99
26	Birmingham	00168-22	Philipsburg	1,072	42	0	524,720	3,335	0.90	489	3.11	157	0.95
27	Bradford South	00106-42	Bradford	1,089	29	0	523,345	2,336	0.90	481	2.15	224	0.46
28	Springboro	00237-52	Meadville	2,796	58	0	484,685	10,759	0.83	173	3.85	45	4.21
29	Edinboro	00420-34	Erie	1,573	47	2	481,272	4,322	0.83	306	2.75	111	6.10
30	Lucerne	00091-13	Indiana	1,810	25	0	477,391	2,610	0.82	264	1.44	183	0.59
31	North Warren	00207-41	Warren	1,375	69	0	470,250	2,556	0.81	342	1.86	184	1.89
32	Marienville	00328-51	Oil City	1,199	34	1	439,970	3,350	0.76	367	2.79	131	7.71
33	Shawville	00151-21	Clearfield	2,330	52	1	434,972	6,117	0.75	187	2.63	71	4.40
34	Page Road	00445-43	Erie	652	38	0	428,211	2,667	0.74	657	4.09	161	3.82
35	Fairview East	00218-34	Erie	1,029	32	0	426,910	3,441	0.73	415	3.34	124	2.45

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Gold	00714-63	Mansfield	652	15	0	402,720	2,505	0.69	618	3.84	161	3.86
37	North Towanda	00521-62	Towanda	1,017	38	1	402,300	1,450	0.69	396	1.43	277	4.12
38	Falls	00297-65	Montrose	797	26	0	398,027	1,074	0.68	499	1.35	371	8.07
39	Morgan Street	00479-52	Meadville	1,438	10	1	380,426	2,641	0.65	265	1.84	144	1.46
40	Brockway	00127-23	DuBois	679	15	0	378,915	1,900	0.65	558	2.80	199	2.00
41	Punxsutawney	00625-23	DuBois	504	15	0	378,300	1,137	0.65	751	2.26	333	23.05
42	Millfair Road	00283-34	Erie	728	30	1	368,919	2,096	0.63	507	2.88	176	2.38
43	Emlenton	00121-51	Oil City	591	29	1	368,824	1,747	0.63	624	2.96	211	3.01
44	Bay	00200-11	Johnstown	932	7	1	364,224	1,977	0.63	391	2.12	184	5.15
45	Meshoppen	00283-65	Montrose	360	16	1	358,136	1,245	0.62	995	3.46	288	2.48
46	Portage	00081-72	Altoona	516	13	1	356,317	1,007	0.61	691	1.95	354	0.00
47	Hammett	00504-31	Erie	1,242	32	2	343,152	3,208	0.59	276	2.58	107	7.11
48	Northeast	00592-31	Erie	1,592	43	0	341,019	2,090	0.59	214	1.31	163	7.38
49	Corry East	00247-43	Warren	288	14	2	339,559	841	0.58	1,179	2.92	404	13.40
50	Boyer	00583-31	Erie	1,687	33	1	333,630	2,644	0.57	198	1.57	126	3.57
51	Mercer Pike	00473-52	Meadville	541	11	1	333,518	782	0.57	616	1.45	426	7.23
52	North Warren	00596-41	Warren	1,119	45	0	329,991	2,072	0.57	295	1.85	159	1.02
53	Lake Como	00787-65	Montrose	853	30	0	321,668	1,677	0.55	377	1.97	192	4.68
54	Athens	00514-61	Towanda	795	34	0	311,492	2,068	0.54	392	2.60	151	2.82
55	Tyrone North	00944-22	Philipsburg	1,487	21	0	309,964	2,541	0.53	208	1.71	122	3.18
56	Mill Street	00144-42	Bradford	989	9	3	308,640	3,454	0.53	312	3.49	89	2.00
57	Knox	00325-51	Oil City	962	22	0	306,336	1,666	0.53	318	1.73	184	4.97
58	Blairsville East	00081-13	Indiana	1,640	30	1	299,228	3,123	0.51	182	1.90	96	25.98
59	Warren 5 th Avenue	00252-41	Warren	874	29	1	298,176	1,840	0.51	341	2.11	162	5.65
60	Morgan Street	00240-52	Meadville	1,434	18	1	297,957	2,764	0.51	208	1.93	108	2.68
61	Thompson	00436-65	Montrose	1,326	54	0	292,251	2,196	0.50	220	1.66	133	3.49
62	Powell Avenue	00511-31	Erie	697	10	0	288,503	1,079	0.50	414	1.55	267	0.64
63	Honey Grove	00135-83	Shippensburg	431	13	3	283,157	1,319	0.49	657	3.06	215	7.67

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Shawnee	00895-3	Stroudsburg	3,729	84	0	2,033,062	10,672	3.66	545	2.86	191	0.00
2	Shawnee	00860-3	Stroudsburg	3,101	48	1	1,292,597	10,183	2.32	417	3.28	127	7.47
3	Carsonia	00764-1	Reading	2,631	41	1	1,259,973	5,589	2.27	479	2.12	225	17.49
4	Water Gap	00107-3	Stroudsburg	458	7	1	1,188,641	882	2.14	2,595	1.93	1,348	0.00
5	Birchwood	00624-3	Stroudsburg	2,121	42	3	1,165,331	7,610	2.10	549	3.59	153	0.00
6	Lynnville	00737-1	Hamburg	1,058	56	2	1,040,181	3,957	1.87	983	3.74	263	2.00
7	Bath	00873-3	Easton	2,122	54	2	872,622	7,940	1.57	411	3.74	110	0.00
8	Birchwood	00622-3	Stroudsburg	1,836	49	1	845,982	6,261	1.52	461	3.41	135	1.33
9	Bernville	00787-1	Hamburg	1,818	65	3	827,470	6,320	1.49	455	3.48	131	0.00
10	Mountain	00744-4	Dillsburg	1,810	56	1	792,229	5,093	1.42	438	2.81	156	0.00
11	Birdsboro	00756-1	Reading	1,457	67	1	703,380	3,943	1.27	483	2.71	178	0.71
12	Barto	00705-1	Boyletown	2,075	89	0	701,965	5,090	1.26	338	2.45	138	0.00
13	South Lebanon	00772-2	Lebanon	1,869	34	2	674,758	4,371	1.21	361	2.34	154	0.00
14	Flying Hills	00776-1	Reading	1,490	35	1	670,879	3,976	1.21	450	2.67	169	4.29
15	Ringing Rocks	00708-1	Boyletown	2,269	46	2	665,329	6,525	1.20	293	2.88	102	8.37
16	Shawnee	00837-3	Stroudsburg	1,147	24	2	628,474	3,925	1.13	548	3.42	160	0.00
17	Crossroads	00728-4	York	1,155	36	0	616,776	2,735	1.11	534	2.37	226	0.01
18	Fairview	00519-4	Hanover	2,548	22	1	599,856	5,297	1.08	235	2.08	113	1.99
19	Bern Church	00789-1	Reading	1,419	61	0	540,500	2,050	0.97	381	1.44	264	6.00
20	Shawnee	00899-3	Stroudsburg	1,767	52	0	523,487	3,275	0.94	296	1.85	160	0.00
21	Ferndale	00839-3	Easton	1,070	30	1	519,063	2,048	0.93	485	1.91	253	1.00
22	Glendon	00805-3	Easton	973	6	1	516,039	1,343	0.93	530	1.38	384	0.00
23	North Bangor	00813-3	Easton	1,324	33	0	507,514	2,172	0.91	383	1.64	234	0.00
24	Birdsboro	00757-1	Reading	1,995	44	4	498,443	7,373	0.90	250	3.70	68	3.42
25	North Cornwall	00610-2	Lebanon	2,017	44	1	495,693	4,407	0.89	246	2.18	112	3.99
26	State Street	00620-1	Hamburg	879	12	3	492,446	2,695	0.89	560	3.07	183	1.00
27	S Hamburg	00743-1	Hamburg	1,190	37	1	489,796	3,013	0.88	412	2.53	163	0.00
28	Lickdale	00626-2	Lebanon	2,064	35	1	489,611	3,541	0.88	237	1.72	138	0.00
29	Fox Hill	00850-3	Stroudsburg	740	31	4	488,590	4,095	0.88	660	5.53	119	1.03
30	Annville	00743-2	Lebanon	1,168	37	1	476,502	4,682	0.86	408	4.01	102	0.00
31	S. Nazareth	00809-3	Easton	3,124	51	1	472,081	4,235	0.85	151	1.36	111	0.00
32	Raubsville	00079-3	Easton	796	12	0	457,883	1,024	0.82	575	1.29	447	0.00
33	Swatara Hill	00763-2	Lebanon	1,472	42	1	447,631	2,923	0.81	304	1.99	153	9.99
34	Moss	00181-1	Reading	1,232	6	2	442,345	2,621	0.80	359	2.13	169	3.99
35	Swatara Hill	00764-2	Lebanon	1,420	36	1	439,684	3,296	0.79	310	2.32	133	6.99

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Spry	00488-4	York	679	10	2	436,860	1,492	0.79	643	2.20	293	2.01
37	Stouchburg	00758-2	Lebanon	1,074	32	3	434,184	4,331	0.78	404	4.03	100	2.99
38	Grantley	00401-4	York	771	8	2	431,475	1,527	0.78	560	1.98	283	0.56
39	North Lebanon	00712-2	Lebanon	1,948	40	0	423,127	3,143	0.76	217	1.61	135	0.00

West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Westraver	West Newton	Charleroi	1,728	38	1	1,400,049	7,452	1.97	810	4.31	188
2	Rutan	Bristoria	Jefferson	1,176	41	0	1,297,075	2,014	1.82	1,103	1.71	644
3	Dutch Fork	Claysville	Washington Pa	1,592	51	1	1,039,340	3,971	1.46	653	2.49	262
4	Cooperstown	Twin Willows	Butler	1,431	21	2	1,031,707	4,062	1.45	721	2.84	254
5	Donegal	Champion	Pleasant Valley	1,167	22	1	928,220	2,779	1.30	795	2.38	334
6	Piney Fork	Stoltz	Charleroi	2,128	28	3	913,814	6,663	1.28	429	3.13	137
7	North Union	Phillips	Uniontown	1,423	22	3	912,638	5,249	1.28	641	3.69	174
8	Amity	Banetown	Washington Pa	1,489	46	0	853,319	2,915	1.20	573	1.96	293
9	North Union	Gallatin	Uniontown	2,631	20	2	825,412	6,359	1.16	314	2.42	130
10	Kane	Russell City	St Marys	702	20	0	782,357	1,976	1.10	1,114	2.81	396
11	North Fayette	Beechcliff	McDonald	2,121	36	0	778,847	3,799	1.09	367	1.79	205
12	Driftwood	Driftwood	St Marys	971	33	1	730,241	3,227	1.03	752	3.32	226
13	South Union	Fairchance	Uniontown	2,121	38	2	625,551	5,022	0.88	295	2.37	125
14	Franklin	Rogersville	Jefferson	840	33	1	615,794	1,970	0.86	733	2.35	313
15	Rutan	Windridge	Jefferson	521	26	0	606,390	1,791	0.85	1,164	3.44	339
16	Enlow	Summit	McDonald	1,392	9	0	591,615	3,712	0.83	425	2.67	159
17	Stahlstown	Kreager	Latrobe	284	15	1	573,418	1,379	0.81	2,019	4.86	416
18	Fawn	Bull Creek	Arnold	858	29	2	572,209	3,401	0.80	667	3.96	168
19	Piney Fork	Gillhall	Charleroi	2,119	20	0	565,390	3,072	0.79	267	1.45	184
20	Vanceville	Vanceville	Charleroi	1,374	45	1	562,541	2,211	0.79	409	1.61	254
21	Murrycrest	Sardis Road	Jeannette	1,482	37	2	558,656	4,125	0.78	377	2.78	135
22	Vandergrift	Grifflo Park	Arnold	2,730	35	1	546,146	4,575	0.77	200	1.68	119
23	Fort Palmer	West Fairfield	Latrobe	961	49	0	545,942	2,037	0.77	568	2.12	268
24	Kiski Valley Distrib	Kittanning Rd	Arnold	1,799	20	0	545,427	3,061	0.77	303	1.70	178
25	Loyalhanna	Center Drive	Latrobe	1,236	15	3	524,131	5,687	0.74	424	4.60	92
26	Houston	Murdock	Washington Pa	1,829	27	1	457,383	3,562	0.64	250	1.95	128
27	Route 30	Warm Springs	Waynesboro	1,347	18	1	439,293	3,210	0.62	326	2.38	137
28	Hickory	Hickory	McDonald	932	56	0	429,450	1,889	0.60	461	2.03	227
29	Cecil	Bishop	Boyce	1,585	27	0	424,770	2,654	0.60	268	1.67	160
30	Smith	Florence	McDonald	803	27	0	423,852	1,516	0.60	528	1.89	280
31	Emporium	West Creek	St Marys	1035	19	1	423,798	2,347	0.60	409	2.27	181
32	Franklin	South Waynesburg	Jefferson	2,101	46	1	422,997	5,078	0.59	201	2.42	83
33	Crossgates	Robinhood	Boyce	883	14	1	421,473	1,536	0.59	477	1.74	274
34	Belmon	Second Street	Charleroi	1,448	20	2	419,871	4,447	0.59	290	3.07	94
35	Waterville	Waterville	State College	358	18	1	407,003	2,657	0.57	1,137	7.42	153

General Note: 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
36	Houston	Chartiers	Washington Pa	2,001	17	1	406,092	4,973	0.57	203	2.49	82
37	Mateer	Dime Rd	Arnold	1,199	32	1	405,633	1,961	0.57	338	1.64	207
38	Hickory	Fort Cherry	McDonald	991	31	0	403,949	1,574	0.57	408	1.59	257
39	South Union	Rte. 119 North	Uniontown	2,026	24	2	394,512	5,817	0.55	195	2.87	68
40	Finleyville	Gastonville	Charleroi	1,586	13	0	391,768	2,299	0.55	247	1.45	170

General Note: MAIFI values are not available for West Penn

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

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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.

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	Wheatland	W-150	<i>Performance was driven by equipment failure (99%).</i>			3Q 2015
			Repair equipment failure	Complete	Aug-15	4Q 2015
			On cycle tree trimming	Complete	Jan-16	1Q 2016
			Conduct thermal scan of circuit	Complete	Feb-16	2Q 2016
2	Hillcrest	D-322	<i>Performance was driven by object contact with line (95%) and customer equipment (3%).</i>			3Q 2015
			The object was removed and associated repairs were made at time of restoration	Complete	Aug-15	4Q 2015
			Repair equipment failure	Complete	Aug-15	1Q 2016
			Conduct thermal scan of circuit	Complete	Feb-16	2Q 2016
3	Thompson Run	D-550	<i>Performance was driven by trees off ROW (90%) and equipment failure (8%).</i>			3Q 2015
			On cycle tree trimming	Complete	Dec-15	1Q 2016
			Repair damage caused by tree	Complete	Mar-16	2Q 2016
			Enhanced tree trimming	To be completed 2016	0%	
4	Mercer	W-167	<i>Performance was driven by lightning (40%), fire (22%), line failure (21%), and equipment failure (10%).</i>			3Q 2015
			Repair line failure	Complete	Oct-15	4Q 2015
			On cycle tree trimming	Complete	Nov-15	1Q 2016
			Enhanced tree trimming	Complete	Dec-15	2Q 2016
			Conduct thermal scan of circuit	Complete	Jan-16	
			Reliability job to install fuses	Complete	Feb-16	
Repair damage caused by fire	Complete	Apr-16				

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	
5	McDowell	W-120	<i>Performance was driven by trees off ROW (42%), equipment failure (25%), and vehicles (24%).</i>				4Q 2015 1Q 2016 2Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-15		
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Sep-15		
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Nov-15		
			Repair equipment failure	Complete	Feb-16		
			Conduct thermal scan of circuit	Complete	Feb-16		
			Repair damage caused by a vehicle	Complete	May-16		
6	Mercer	W-128	<i>Performance was driven by vehicles (40%), lightning (22%), fire (22%), and trees off ROW (8%).</i>				
			Reliability job to install fuses	Complete	May-16		
			Repair damage caused by a vehicle	Complete	May-16		
7	Stoneboro	W-131	<i>Performance was driven by equipment failure (44%), line failure (31%), and trees off ROW (9%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Aug-15		
			Enhanced tree trimming	Complete	Nov-15		
			Repair equipment failure	Complete	Dec-15		
			Conduct thermal scan of circuit	Complete	Feb-16		
			Repair line failure	Complete	Mar-16		
8	Perry	W-156	<i>Performance was driven by trees off ROW (33%), unknown (27%), and equipment failure (11%).</i>				
			Repair damage caused by tree	Complete	Jun-16		
9	Canal	W-103	<i>Performance was driven by trees off ROW (59%) and vehicles (15%).</i>				
			Repair damage caused by tree	Complete	Jun-16		
			Repair damage caused by a vehicle	Complete	Jun-16		

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q3 2015	Q4 2015	Q1 2016	Q2 2016
Hadley	W-195	X	X		
Hermitage	W-260	X	X	X	
Knox	D509	X	X	X	
Seneca	W-700	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
Hadley	W-195	Wood pole replacement	To be completed 2016	0%
Knox	D509	Enhanced tree trimming	To be completed 2016	0%

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
1	Warren South	00220-41	<i>Performance was driven by trees off ROW (86%) and vehicles (4%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Circuit inspection	Complete	Aug-15	
			Repair damage caused by trees	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Dec-15	
			Repair damage caused by a vehicle	Complete	Feb-16	
			On cycle tree trimming	To be completed 2016	31%	
2	Madera	00166-22	<i>Performance was driven by recloser operation of unknown cause (39%), trees off ROW (34%), and line failure (15%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Sep-15	
			On cycle tree trimming	Complete	Nov-15	
			Porcelain cutout replacement	Complete	Dec-15	
			Restore recloser operation of unknown cause - patrol conducted	Complete	Feb-16	
			Restore damage caused by trees during a storm	Complete	Mar-16	
			Install fault inductors	Complete	May-16	
3	DuBois	00137-23	<i>Performance was driven by equipment failure (59%) and trees off ROW (31%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Circuit inspection	Complete	Jul-15	
			Repair equipment failure	Complete	Aug-15	
			Porcelain cutout replacement	Complete	Nov-15	
			Repair equipment failure during a storm	Complete	Nov-15	
			Repair damage caused by trees during a storm	Complete	Nov-15	
			Repair equipment failure	Complete	May-16	
4	Crown	00319-51	<i>Performance was driven by trees off ROW (66%) and vehicles (15%).</i>			4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete	Jul-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
			Circuit inspection	To be completed 2016	20%	
5	Tiffany	00435-65	<i>Performance was driven by trees off ROW (56%), vandalism (27%), and line failure (15%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by vandalism	Complete	Jul-15	
			Repair damage caused by trees	Complete	Oct-15	
			Repair damage caused by trees during a storm	Complete	Jan-16	
			Repair line failure during a storm	Complete	Apr-16	
			Circuit inspection	To be completed 2016	0%	

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	
6	Union City	00206-43	<i>Performance was driven by lightning (30%), trees off ROW (22%), and equipment failure (10%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Circuit inspection	Complete	Jul-15		
			Repair damage caused by lightning	Complete	Sep-15		
			Porcelain cutout replacement	Complete	Dec-15		
			Repair damage caused by trees during a storm	Complete	Jun-16		
			Create circuit tie with Morgan Street substation	To be completed 2016	20%		
			On cycle tree trimming	To be completed 2016	20%		
7	Powell Avenue	00237-31	<i>Performance was driven by trees off ROW (88%) and vehicles (9%).</i>				4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Oct-15		
			On cycle tree trimming	Complete	Dec-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
			Repair damage caused by a vehicle	Complete	Feb-16		
			Repair damage caused by trees during a storm	Complete	Apr-16		
			Add additional protection per circuit coordination	Complete	Jun-16		
			Circuit inspection	To be completed 2016	0%		
8	Hilltop	00048-11	<i>Performance was driven by equipment failure (49%) and lightning (40%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by vehicle accident	Complete	Jul-15		
			Repair damage caused by lightning	Complete	Aug-15		
			Repair equipment failure during a storm	Complete	Oct-15		
9	French Road	00223-31	<i>Performance was driven by wind (51%) and trees off ROW (42%).</i>				4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Oct-15		
			Repair damage caused by wind	Complete	Dec-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
			On cycle tree trimming	To be completed 2016	97%		
			Circuit inspection	To be completed 2016	0%		

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
10	Tionesta Jct Sw Sta	00498-51	<i>Performance was driven by trees off ROW (50%), equipment failure (31%), and line failure (16%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Jul-15	
			Porcelain cutout replacement	Complete	Sep-15	
			On cycle tree trimming	Complete	Nov-15	
			Repair damage by trees during a storm	Complete	Feb-16	
			Repair equipment failure	Complete	Jun-16	
			Repair line failure	Complete	Jun-16	
11	Erie East	00234-31	<i>Performance was driven by trees off ROW (66%), line failure (13%), and wind (11%).</i>			4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Dec-15	
			Repair damage caused by wind	Complete	Dec-15	
			Repair line failure during a storm	Complete	Dec-15	
12	Warren 5 th Avenue	00250-41	<i>Performance was driven by trees off ROW (85%) and a recloser operation of unknown cause (12%).</i>			
			Restore recloser operation of unknown cause	Complete	Mar-16	
			Repair damage caused by trees during a storm	Complete	Jun-16	
			Repair damage caused by trees	Complete	Jun-16	
13	Tunkhannock	00533-65	<i>Performance was driven by object in contact with line (58%), trees off ROW (29%), and equipment failure (9%).</i>			1Q 2016 2Q 2016
			Repair damage caused by contact during a storm	Complete	Nov-15	
			Repair damage caused by trees	Complete	Feb-16	
			Repair damage caused by trees during a storm	Complete	Feb-16	
			Repair equipment failure	Complete	Apr-16	
14	Brooklyn	00749-65	<i>Performance was driven by trees off ROW (51%) and non-company human error (27%).</i>			
			Repair damage caused by trees during a storm	Complete	Apr-16	
			Repair damage caused by non-company human error	Complete	Jun-16	
15	Boyer	00584-31	<i>Performance was driven by trees off ROW (53%), lightning (25%), and equipment failure (14%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by lightning	Complete	Jul-15	
			Repair equipment failure	Complete	Oct-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
			Circuit inspection	To be completed 2016	0%	

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	
16	Rolling Meadows	00310-31	<i>Performance was driven by line failure (43%), vehicles (19%), equipment failure (13%), and UG dig-up (9%).</i>				1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete	Jan-16		
			Repair line failure	Complete	Jan-16		
			Repair damage caused by UG dig-up by a non-company contractor	Complete	Jun-16		
17	Grover	00527-63	<i>Performance was driven by a breaker operation of unknown cause (37%), equipment failure (33%), and trees off ROW (18%).</i>				4Q 2015 1Q 2016 2Q 2016
			Restore breaker operation of unknown cause during a storm	Complete	Oct-15		
			Repair equipment failure	Complete	Dec-15		
			Repair damage caused by trees	Complete	May-16		
18	N Meshoppen Tran	00534-65	<i>Performance was driven by trees off ROW (92%) and vehicles (4%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Porcelain cutout replacement	Complete	Dec-15		
			Repair damage caused by a vehicle	Complete	Apr-16		
			On cycle tree trimming	To be completed 2016	0%		
19	French Road	00550-31	<i>Performance was driven by equipment failure (70%) and line failure (19%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Jul-15		
			Repair equipment failure	Complete	Aug-15		
20	Philipsburg	00162-22	<i>Performance was driven by equipment failure (78%) and trees off ROW (9%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair equipment failure during a storm	Complete	Jul-15		
			Repair equipment failure	Complete	Jul-15		
			Repair equipment failure	Complete	Sep-15		
21	Russell Hill	00282-65	<i>Performance was driven by trees off ROW (45%) and wind (33%).</i>				1Q 2016 2Q 2016
			Circuit inspection	Complete	Aug-15		
			Repair damage from wind	Complete	Feb-16		
			Repair damage from trees during a storm	Complete	Mar-16		
			On cycle tree trimming	To be completed 2016	0%		

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
22	Buffalo Road	00580-31	<i>Performance was driven by line failure (83%) and trees off ROW (3%).</i>			3Q 2015
			Repair line failure during a storm	Complete	Sep-15	4Q 2015
			Repair damage caused by trees	Complete	Apr-16	1Q 2016 2Q 2016
23	South Mansfield	00617-63	<i>Performance was driven by a breaker operation of unknown cause (64%), animals (16%), and lightning (6%).</i>			4Q 2015 2Q 2016
			Repair damage caused by lightning	Complete	Jul-15	
			Restore breaker operation of unknown cause	Complete	Dec-15	
			Restore breaker operation of unknown cause	Complete	Apr-16	
24	Lake Como	00788-65	<i>Performance was driven by trees off ROW (97%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damaged caused by trees	Complete	Jul-15	
			Repair damaged caused by trees	Complete	Sep-15	
			Repair damaged caused by trees during a storm	Complete	Apr-16	
			Circuit inspection	To be completed 2016	0%	
25	Corry Central	00432-43	<i>Performance was driven by trees off ROW (100%). 88% of the outages occurred on one day.</i>			4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
26	Birmingham	00168-22	<i>Performance was driven by line failure (36%), trees off ROW (30%), and vehicles (25%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
			Porcelain cutout replacement	Complete	Dec-15	
			Repair line failure	Complete	Jan-16	
			Circuit inspection	Complete	Jun-16	
			On cycle tree trimming	Complete	Jul-16	
Targeted circuit rehab	To be completed 2016	40%				
27	Bradford South	00106-42	<i>Performance was driven by trees off ROW (67%) and a fuse operation of unknown cause (28%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Circuit inspection	Complete	Sep-15	
			Restore fuse after operation from unknown cause	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Feb-16	

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
28	Springboro	00237-52	<i>Performance was driven by trees off ROW (59%), line failure (17%), and vehicles (17%).</i>			
			Repair damage caused by trees during a storm	Complete	Jan-16	
			Repair line failure during a storm	Complete	Mar-16	
			Repair damage caused by trees during a storm	Complete	Jun-16	
29	Edinboro	00420-34	<i>Performance was driven by equipment failure (47%), a breaker operation of unknown cause (25%), and line failure (6%).</i>			
			Repair line failure during a storm	Complete	Oct-15	
			Restore breaker operation of unknown cause during a storm	Complete	Apr-16	
30	Lucerne	00091-13	<i>Performance was driven by trees off ROW (93%). 90% of the outages occurred on two days.</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees	Complete	Aug-15	
			Repair damage caused by trees	Complete	Jun-16	
31	North Warren	00207-41	<i>Performance was driven by trees off ROW (74%), line failure (12%), and animals (11%).</i>			4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by animal contact	Complete	Oct-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
			Repair line failure	Complete	Jan-16	
32	Marienville	00328-51	<i>Performance was driven by trees off ROW (93%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Jul-15	
			Circuit inspection	Complete	Aug-15	
			Repair damage caused by trees during a storm	Complete	Nov-15	
33	Shawville	00151-21	<i>Performance was driven by trees off ROW (50%), vehicles (18%), and non-company human error (7%).</i>			1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete	Nov-15	
			Repair damage caused by trees during a storm	Complete	Feb-16	
			Repair damage caused by non-company human error	Complete	May-16	
			Targeted circuit rehab	To be completed 2016	0%	

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	
34	Page Road	00445-43	<i>Performance was driven by trees off ROW (41%), equipment failure (19%), a recloser operation of unknown cause (14%), and line failure (10%).</i>			Dec-15 Apr-16 Apr-16 Apr-16	4Q 2015 2Q 2016
			Repair damage caused by trees during a storm	Complete			
			Repair damage caused by trees during a storm	Complete			
			Restore recloser operation of unknown cause	Complete			
			Repair line failure	Complete			
35	Fairview East	00218-34	<i>Performance was driven by vehicles (33%), trees off ROW (29%), overload (18%), and equipment failure (14%).</i>			Oct-15 Jan-16 Feb-16 Mar-16 Jun-16 Jun-16	1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete			
			Repair damage caused by trees during a storm	Complete			
			Repair damage caused by trees during a storm	Complete			
			On cycle tree trimming	Complete			
			Repair equipment failure	Complete			
			Restore service resulting from overloaded transformer	Complete			
36	Gold	00714-63	<i>Performance was driven by equipment failure (58%) and trees off ROW (36%).</i>			Oct-15 Dec-15 Feb-16 May-16 Jun-16	1Q 2016 2Q 2016
			Repair equipment failure	Complete			
			Repair equipment failure	Complete			
			Repair damage caused by trees during a storm	Complete			
			Circuit inspection	Complete			
			Repair equipment failure	Complete			
37	North Towanda	00521-62	<i>Performance was driven by line failure (86%).</i>			Apr-16	
			Repair line failure	Complete			
38	Falls	00297-65	<i>Performance was driven by trees off ROW (57%) and equipment failure (41%).</i>			Feb-16 Mar-16 May-16 0%	3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete			
			On cycle tree trimming	Complete			
			Repair damage caused by lightning	Complete			
			Circuit inspection	To be completed 2016			
39	Morgan St	00479-52	<i>Performance was driven by trees off ROW (46%) and vehicles (42%).</i>			Mar-16 Apr-16	
			Repair damage caused by a vehicle	Complete			
			Repair damage caused by trees during a storm	Complete			

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	Brockway	00127-23	<i>Performance was driven by line failure (54%), equipment failure (6%), and animals (14%).</i>			4Q 2015 1Q 2016 2Q 2016
			Repair line failure during a storm	Complete	Nov-15	
			Repair damage caused by animal contact	Complete	Jun-16	
			Repair equipment failure	Complete	Jun-16	
			On cycle tree trimming	To be completed 2016	0%	
41	Punxsutawney	00625-23	<i>Performance was driven by trees off ROW (62%) and line failure (37%).</i>			3Q 2015 2Q 2016
			Repair damage caused by trees during a storm	Complete	Apr-16	
			Repair line failure	Complete	May-16	
42	Millfair Road	00283-34	<i>Performance was driven by vehicles (69%) and line failure (22%).</i>			
			Repair damage caused by a vehicle	Complete	Feb-16	
			Repair line failure	Complete	Jun-16	
			Circuit inspection	To be completed 2016	0%	
43	Emlenton	00121-51	<i>Performance was driven by trees off ROW (83%) and equipment failure (15%). 83% of the outages occurred on two days.</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Sep-15	
			Repair equipment failure	Complete	Apr-16	
			Porcelain cutout replacement	Complete	Jul-16	
			On cycle tree trimming	To be completed 2016	99%	
44	Bay	00200-11	<i>Performance was driven by vehicles (75%) and line failure (21%). 94% of the outages occurred on one two days.</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Jul-15	
			Repair damage caused by a vehicle	Complete	Sep-15	
45	Meshoppen	00283-65	<i>Performance was driven by line failure (48%) and equipment failure (38%).</i>			
			Repair line failure	Complete	Oct-15	
			Repair equipment failure during a storm	Complete	Oct-15	
			Circuit inspection	To be completed 2016	0%	
46	Portage	00081-72	<i>Performance was driven by trees off ROW (83%) and a forced outage due to structure fire (16%).</i>			4Q 2015 1Q 2016 2Q 2016
			Forced outage due to structure fire	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Dec-15	
			On cycle tree trimming	To be completed 2016	99%	

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	
47	Hammett	00504-31	<i>Performance was driven by equipment failure (74%) and line failure (13%).</i>				
			Repair line failure	Complete	Dec-15		
			Repair equipment failure	Complete	Dec-15		
			Repair equipment failure	Complete	Jun-16		
			Circuit inspection	To be completed 2016	0%		
48	Northeast	00592-31	<i>Performance was driven by trees off ROW (69%) and vehicles (17%).</i>				1Q 2016 2Q 2016
			Repair damage caused by vehicle accident	Complete	Nov-15		
			Repair damaged caused by trees during a storm	Complete	Feb-16		
			Repair damaged caused by trees during a storm	Complete	Jun-16		
			On cycle tree trimming	To be completed 2016	0%		
49	Corry East	00247-43	<i>Performance was driven by trees off ROW (72%) and equipment failure (23%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Sep-15		
			Repair equipment failure	Complete	Sep-15		
			Porcelain cutout replacement	To be completed 2016	0%		
50	Boyer	00583-31	<i>Performance was driven by lightning (54%), trees off ROW (15%), and line failure (13%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by lightning	Complete	Jul-15		
			Repair damage caused by trees during a storm	Complete	Oct-15		
			Repair line failure	Complete	Apr-16		
51	Mercer Pike	00473-52	<i>Performance was driven by trees off ROW (93%). 85% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Sep-15		
52	North Warren	00596-41	<i>Performance was driven by equipment failure (67%) and line failure (17%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Rehabilitate Circuit - items identified from circuit patrol	Complete	Sep-15		
			On cycle tree trimming	Complete	Dec-15		
			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		

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
53	Lake Como	00787-65	<i>Performance was driven by trees off ROW (57%) and equipment failure (29%).</i>			
			Repair damage caused by trees	Complete	Oct-15	
			Repair equipment failure	Complete	Nov-15	
			Repair damage caused by trees during a storm	Complete	Apr-16	
54	Athens	00514-61	<i>Performance was driven by trees off ROW (78%) and a fuse operation of unknown cause (12%).</i>			
			Circuit inspection	Complete	Sep-15	
			Repair damage caused by trees	Complete	Mar-16	
			Repair damage caused by trees	Complete	Jun-16	
			Restore fuse after operation from unknown cause - patrol conducted	Complete	Sep-16	
55	Tyrone North	00944-22	<i>Performance was driven by equipment failure (44%) and line failure (43%). 83% of the outages occurred on two days.</i>			
			Repair equipment failure	Complete	May-16	
			Repair line failure	Complete	May-16	
56	Mill Street	00144-42	<i>Performance was driven by a breaker operation of unknown cause (63%) and vehicles (22%).</i>			
			Repair damage caused by a vehicle	Complete	Oct-15	
			Restore breaker operation of unknown cause	Complete	Nov-15	
57	Knox	00325-51	<i>Performance was driven by trees off ROW (69%) and vehicles (22%). 90% of the outages occurred on two days.</i>			
			Repair damage caused by trees during a storm	Complete	Sep-15	
			Repair damage caused by a vehicle	Complete	Feb-16	
58	Blairsville East	00081-13	<i>Performance was driven by equipment failure (42%), line failure (34%), and a breaker operation of unknown cause (15%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Oct-15	
			Repair equipment failure	Complete	May-16	
59	Warren 5 th Avenue	00252-41	<i>Performance was driven by trees off ROW (91%).</i>			
			Repair damage caused by trees during a storm	Complete	Jan-16	
			Repair damage caused by trees during a storm	Complete	Jun-16	
60	Morgan St	00240-52	<i>Performance was driven by vehicles (50%) and trees off ROW (36%). 84% of the outages occurred on two days.</i>			
			Repair damage caused by a vehicle	Complete	May-16	
			Repair damage caused by trees	Complete	Jun-16	

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
61	Thompson	00436-65	<i>Performance was driven by equipment failure (31%), trees off ROW (30%), and line failure (20%).</i>			3Q 2015 2Q 2016
			Repair damage caused by trees	Complete	Sep-15	
			On cycle tree trimming	Complete	Nov-15	
			Repair line failure	Complete	Mar-16	
			Repair damage caused by trees during a storm	Complete	Apr-16	
			Repair equipment failure during a storm	Complete	Jun-16	
62	Powell Ave	00511-31	<i>Performance was driven by trees off ROW (30%).</i>			
			Repair damage caused by trees	Complete	Aug-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
63	Honey Grove	00135-83	<i>Performance was driven by vehicles (53%) and equipment failure (30%). 83% of the outages occurred on two days.</i>			
			Repair damage caused by a vehicle	Complete	Sep-15	
			Repair equipment failure	Complete	May-16	

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q3 2015	Q4 2015	Q1 2016	Q2 2016
Belleville	00124-81	X	X		
Brookville	00125-23	X	X	X	
Brookville West	00121-23	X		X	
Buffalo Road	00265-31	X	X		
Cooper	00069-11	X	X	X	
Dixonville East	00098-13	X	X	X	
DuBois Central	00119-23	X	X	X	
East Hickory	00200-41	X	X	X	
East Pike	00095-13	X	X	X	
East Pike	00096-13	X	X	X	
East Sayre	00518-61	X	X		
Edgewood	00089-13	X	X	X	
French Road	00551-31		X	X	
Grandview	00354-51	X	X	X	
Greenwood	00041-71		X	X	
Green Garden	00224-31		X	X	
Knox	00323-51	X	X		
McConnellstown	00099-82	X	X		
McKean	00411-34	X	X	X	
Millcreek	00052-11	X	X		
Piney	00523-51	X	X	X	
Ralphton	00014-12	X	X		
Salix	00070-11	X	X		
Saxton	00625-73	X		X	
Titusville	00387-51	X	X		
Timblin	00103-23	X	X	X	
Tower 51	00051-11	X	X	X	
Utica Junction	00318-51	X		X	
Utica Junction	00331-51		X	X	

Penelec				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Brookville	00125-23	Porcelain cutout replacement	To be completed 2016	0%
Brookville West	00121-23	Porcelain cutout replacement	To be completed 2016	0%
Dixonville East	00098-13	On cycle tree trimming	To be completed 2016	0%
DuBois Central	00119-23	Targeted circuit rehab	To be completed 2016	0%
East Towanda	00525-62	Porcelain cutout replacement	Complete	May-16
Grandview	00354-51	Circuit inspection	To be completed 2016	0%
French Road	00551-31	On cycle tree trimming	To be completed 2016	0%
		Circuit inspection	To be completed 2016	0%
Greenwood	00041-71	Circuit inspection	To be completed 2016	0%
Green Garden	00224-31	Circuit inspection	To be completed 2016	0%
McKean	00411-34	Circuit inspection	To be completed 2016	0%
Natl Forge Sw Sta	00577-41	Porcelain cutout replacement	Complete	May-16
Salix	00070-11	Circuit inspection	To be completed 2016	0%
Somerset	00030-12	Circuit inspection	To be completed 2016	0%
Thompson	00442-65	Porcelain cutout replacement	Complete	May-16
Timblin	00103-23	Porcelain cutout replacement	To be completed 2016	0%
		Install new radio controlled switch	Complete	Jun-16
Tower 51	00051-11	Circuit inspection	To be completed 2016	0%

Met-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	
1	Shawnee	00895-3	<i>Performance was driven by trees off ROW (41%) and vehicles (39%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Mid-cycle backbone and three phase forestry inspection	Complete	Oct-15		
			Perform accelerated backbone circuit assessment	Complete	Dec-15		
			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	To be completed 2016	90%		
2	Shawnee	00860-3	<i>Performance was driven by equipment failure (75%).</i>				3Q 2015 4Q 2015 2Q 2016
			Replace poles identified during wood pole inspection	Complete	Aug-15		
			Install additional Supervisory Control and Data Acquisition (SCADA) tie switch	Complete	Sep-15		
			Perform accelerated backbone circuit assessment	Complete	Dec-15		
			Replace porcelain side-post insulators on circuit 3 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	To be completed 2016	50%		
3	Carsonia	00764-1	<i>Performance was driven by line failure (72%).</i>				3Q 2015 2Q 2016
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Oct-15		
			Install additional main line recloser	Complete	Feb-16		
			Targeted overhead circuit inspection	Complete	Jun-16		
4	Water Gap	00107-3	<i>Performance was driven by a single storm (95%).</i>				1Q 2016 2Q 2016
			Post storm forestry inspection	Complete	Mar-16		
			Extensive off right-of-way danger tree removal	Complete	Mar-16		

Met-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	
5	Birchwood	00624-3	<i>Performance was driven by vehicles (45%) and trees off ROW (33%).</i>				1Q 2016 2Q 2016
			Install sectionalizer	Complete	Oct-15		
			Replace porcelain cutouts on circuit backbone	Complete	Oct-15		
			Upgrade main line recloser	To be completed 2016	50%		
6	Lynnville	00737-1	<i>Performance was driven by equipment failure (43%) and trees off ROW (33%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Replace main line recloser	Complete	Dec-15		
			Replace main line crossarm	Complete	Apr-16		
7	Bath	00873-3	<i>Performance was driven by vehicles (71%).</i>				
			Replace items identified during circuit assessment	Complete	Aug-15		
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Oct-15		
			Install Supervisory Control and Data Acquisition (SCADA) switch	To be completed 2016	80%		
			Install Supervisory Control and Data Acquisition (SCADA) recloser	To be completed 2016	50%		
8	Birchwood	00622-3	<i>Performance was driven by trees off ROW (44%) and vehicles (27%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			On cycle tree trimming	To be completed 2016	10%		
9	Bernville	00787-1	<i>Performance was driven by an equipment failure during a blizzard (39%), trees on ROW (27%), and line failure (16%).</i>				1Q 2016 2Q 2016
			Repair equipment failure during blizzard	Complete	Jan-16		
			Three phase forestry inspection	Complete	Mar-16		
			Upgrade main line recloser	Complete	Mar-16		
			Targeted overhead circuit inspection	Complete	Jun-16		

Met-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
10	Mountain	00744-4	<i>Performance was driven by trees off ROW (43%), vehicles (15%), and equipment failure (10%).</i>			3Q 2015 4Q 2015 2Q 2016
			Upgrade main line GOAB #T1-754 to EMS radio controlled MOAB with faulted circuit indicators	Complete	Sep-15	
			Replace recloser	Complete	Sep-15	
			Repair/ replace items identified during underground circuit inspection	Complete	Oct-15	
			Overhead circuit inspection	Complete	Apr-16	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Apr-16	

Met-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	
11	Birdsboro	00756-1	<i>Performance was driven by trees off ROW (37%), line failure (29%), and vehicles (13%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Proactive every-other-month main line forestry inspection	Complete	Aug-15		
			Install remote operated main line switches	Complete	Sep-15		
			Proactive every-other-month main line forestry inspection	Complete	Oct-15		
			Targeted tree trimming to improve reliability	Complete	Dec-15		
			Perform accelerated backbone and three phase circuit assessment	Complete	Dec-15		
			Targeted tree trimming to improve reliability	Complete	Jan-16		
			Proactive every-other-month main line forestry inspection (Jan-Feb time period)	Complete	Jan-16		
			Three phase forestry inspection	Complete	Mar-16		
			Proactive every-other-month main line forestry inspection (March-April time period)	Complete	Jun-16		
			Targeted tree trimming to improve reliability	Complete	Jun-16		
			Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	75%		
			Replace cutout from assessment	To be completed 2016	50%		
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	25%		
			Proactive main line forestry inspection	To be completed 2016	0%		
Targeted tree trimming to improve reliability	To be completed 2016	0%					
12	Barto	00705-1	<i>Performance was driven by trees on ROW (37%), animals (22%), and trees off ROW (20%).</i>				4Q 2015 1Q 2016 2Q 2016
			Replace switch arrester from assessment	Complete	Oct-15		
			Three phase forestry inspection	Complete	Mar-16		
			Upgrade main line recloser	Complete	May-16		
			On cycle tree trimming	To be completed 2016	76%		
Overhead circuit inspection	To be completed 2016	0%					

Met-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
13	Ringing Rocks	00708-1	<i>Performance was driven by trees off ROW (72%). 72% of the tree outages occurred on one day.</i>			
			Spot tree trimming	Complete	Jul-16	
			Overhead circuit inspection	To be completed 2016	0%	
14	Flying Hills	00776-1	<i>Performance was driven by underground line failure (48%), trees on ROW (28%), and trees off ROW (18%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Upgrade substation getaway cables	Complete	Aug-15	
			Replace underground cable in Flying Hills underground residential development	Complete	Aug-15	
			Replace fault indicators	Complete	Oct-15	
			Targeted overhead circuit inspection	Complete	Oct-15	
			Complete engineering circuit configuration review	Complete	Nov-15	
			Install additional tap fuses	Complete	Dec-15	
			Complete circuit reconfiguration	Complete	Mar-16	
			Three phase forestry inspection	Complete	Mar-16	
			Install additional overhead fault indicators	Complete	Apr-16	
			Targeted enhanced tree trimming to improve reliability (New Holland Rd)	Complete	May-16	
			Overhead circuit inspection	Complete	Jun-16	
			Replace underground cable in Flying Hills underground residential development	Complete	Jun-16	
			Targeted overhead circuit inspection	Complete	Jul-16	
On cycle tree trimming	To be completed 2016	93%				
Upgrade main line recloser	To be completed 2016	75%				
15	Ringing Rocks	00708-1	<i>Performance was driven by trees off ROW (81%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Targeted forestry inspection	Complete	Oct-15	
			Three phase forestry inspection	Complete	Mar-16	
			Targeted tree trimming to improve reliability	Complete	Apr-16	
16	Shawnee	00837-3	<i>Performance was driven by an unknown outage (42%), trees off ROW (28%), and equipment failure (17%).</i>			
			Replace padmounted switchgear	Complete	Mar-16	

Met-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	
17	Crossroads	00728-4	<i>Performance was driven by trees off ROW (47%) and vehicles (29%).</i>				1Q 2016 2Q 2016
			Forestry to perform off cycle comprehensive circuit tree patrol	Complete	Oct-15		
			Replace/repair high priority items identified during circuit patrol	Complete	May-16		
			Replace poles identified during wood pole inspection	To be completed 2016	10%		
			Overhead circuit inspection	To be completed 2016	0%		
18	Fairview	00519-4	<i>Performance was driven by vehicles (71%) and equipment failure (20%). 55% of the outages were the result of one car pole accident that occurred on October 21, 2015.</i>				4Q 2015 1Q 2016 2Q 2016
			Replace the vehicle contact pole and make associated repairs at the time of restoration	Complete	Oct-15		
			Install additional disconnect switches	Complete	Feb-16		
			Pole was replaced and equipment repaired	Complete	Feb-16		
19	Bern Church	00789-1	<i>Performance was driven by equipment failure (26%), unknown (18%), trees on ROW (17%), and trees off ROW (11%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Replace underground cable in Plum Creek underground residential development	Complete	Sep-15		
			Replace fault indicators	Complete	Oct-15		
			Targeted overhead circuit inspection	Complete	Dec-15		
			Repair/replace split pole top	Complete	Mar-16		
			Three phase forestry inspection	Complete	Mar-16		
			Overhead circuit inspection	Complete	Jun-16		
			Replace porcelain cutouts on circuit three phase with polymer cutouts	To be completed 2016	70%		
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	60%		
			Upgrade line tap protection to reclosers	To be completed 2016	50%		

Met-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
20	Shawnee	00899-3	<i>Performance was driven by trees off ROW (63%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Forestry Zone 1 aerial patrol	Complete	Jul-15	
			Perform wood pole inspection	Complete	Jul-15	
			Replace fault indicators	Complete	Jul-15	
			Replace crossarm	Complete	Oct-15	
			Correct fuse coordination	Complete	Oct-15	
			Post storm forestry inspection	Complete	Apr-16	
			Danger tree removal from post storm inspection	Complete	May-16	
Forestry Zone 1 aerial patrol	Complete	Jul-16				
21	Ferndale	00839-3	<i>Performance was driven by trees off ROW (43%), equipment failure (23%), and forced outages (21%).</i>			
			Mid-cycle backbone and three phase forestry inspection	To be completed 2016	0%	
22	Glendon	00805-3	<i>Performance was driven by trees off ROW (98%).</i>			
			Forestry Zone 1 aerial patrol	Complete	Jul-16	
			On cycle tree trimming	To be completed 2016	95%	
23	North Bangor	00813-3	<i>Performance was driven by vehicles (58%) and equipment failure (20%).</i>			4Q 2015 1Q 2016 2Q 2016
			Forestry Zone 1 aerial patrol	Complete	Jul-15	
			Cycle tree trimming	Complete	Nov-15	
			Forestry Zone 1 aerial patrol	Complete	Jul-16	
			Overhead circuit inspection	To be completed 2016	99%	
Replace porcelain cutouts on circuit three phase with polymer cutouts	To be completed 2016	90%				

Met-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	
24	Birdsboro	00757-1	<i>Performance was driven by trees off ROW (65%) and trees on ROW (17%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Proactive every-other-month main line forestry inspection	Complete	Aug-15		
			Targeted overhead circuit inspection	Complete	Oct-15		
			Proactive every-other-month main line forestry inspection	Complete	Oct-15		
			Targeted tree trimming to improve reliability	Complete	Dec-15		
			Perform accelerated backbone and three phase circuit assessment	Complete	Dec-15		
			Targeted tree trimming to improve reliability	Complete	Jan-16		
			Proactive every-other-month main line forestry inspection (January-February time period)	Complete	Jan-16		
			Replace crossarm	Complete	Feb-16		
			Replace crossarm brace	Complete	Feb-16		
			Three phase forestry inspection	Complete	Mar-16		
			Targeted tree trimming to improve reliability	Complete	Jun-16		
			Proactive every-other-month main line forestry inspection (March-April time period)	Complete	Jun-16		
			Replace porcelain cutouts on circuit three phase with polymer cutouts	To be completed 2016	75%		
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	50%		
			Proactive main line forestry inspection	To be completed 2016	0%		
Targeted tree trimming to improve reliability	To be completed 2016	0%					
25	North Cornwall	00610-2	<i>Performance was driven by equipment failure (59%).</i>				3Q 2015 1Q 2016 2Q 2016
			Overhead circuit inspection	Complete	Sep-15		
			Replace high priority items identified during circuit patrol	Complete	Dec-15		
			Install additional main line recloser	Complete	Jun-16		
			On cycle tree trimming	To be completed 2016	99%		
Replace recloser	To be completed 2016	50%					

Met-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	
26	State Street	00620-1	<i>Performance was driven by trees off ROW (65%) and line failure (26%).</i>				
			On cycle tree trimming	Complete	Jul-15	3Q 2015	
			Upgrade tie switch	Complete	Mar-16	4Q 2015	
			Replace main line recloser control	Complete	Jun-16	1Q 2016	
			Upgrade main line recloser	To be completed 2016	50%	2Q 2016	
			Install additional tap fuses	To be completed 2016	10%		
27	S Hamburg	00743-1	<i>Performance was driven by line failure (32%), animals (25%), trees on ROW (15%), and trees off ROW (11%).</i>				
			Install main line animal protection	Complete	Oct-15		
			Install additional main line fusing	Complete	Jan-16		
			On cycle tree trimming	To be completed 2016	52%		
28	Lickdale	00626-2	<i>Performance was driven by equipment failure (80%).</i>				
			Circuit inspection	Complete	Sep-15	3Q 2015	
			Replace main line recloser	Complete	Feb-16	4Q 2015	
			Replace main line recloser	Complete	Feb-16	1Q 2016	
			Reliability job to install fuses	To be completed 2016	50%	2Q 2016	
29	Fox Hill	00850-3	<i>Performance was driven by trees off ROW (55%) and vehicles (23%).</i>				
			Post storm forestry inspection	Complete	Mar-16	1Q 2016	
			Extensive off right-of-way danger tree removal	Complete	Mar-16	2Q 2016	
			Forestry Zone 1 aerial patrol	Complete	Jul-16		
30	Annville	00743-2	<i>Performance was driven by trees off ROW (41%), equipment failure (29%), and animals (22%).</i>				
			Complete engineering review for remote-control devices	Complete	Oct-15		
			Cycle tree trimming	Complete	Nov-15		
			Replace switch with Supervisory Control and Data Acquisition (SCADA) Motor Operated Air Break (MOAB)	Complete	Dec-15	4Q 2015	
			Lockout zone circuit inspection	Complete	Dec-15	2Q 2016	
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	25%		

Met-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	
31	S. Nazareth	00809-3	<i>Performance was driven by equipment failure (70%) and line failure (14%).</i>			Jul-15 Jun-16 Jul-16	3Q 2015 1Q 2016 2Q 2016
			Forestry Zone 1 aerial patrol	Complete			
			On cycle tree trimming	Complete			
			Forestry Zone 1 aerial patrol	Complete			
32	Raubsville	00079-3	<i>Performance was driven by trees off ROW (72%).</i>			Jan-16	
			On cycle tree trimming	Complete			
33	Swatara Hill	00763-2	<i>Performance was driven by equipment failure (62%) and unknown (15%).</i>			Jul-15 Dec-15 Dec-15 Mar-16 Mar-16 75%	3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by lightning	Complete			
			Replace pole and repair equipment	Complete			
			Replace pole and repair equipment	Complete			
			Repair equipment failure	Complete			
			Replace pole identified during wood pole inspection	Complete			
Install additional main line recloser	To be completed 2016						
34	Moss	00181-1	<i>Performance was driven by an object contact with line (72%) and line failure (26%).</i>			Apr-16 25%	
			Substation settings upgrades	Complete			
			Investigate feasibility of installing overhead line spreaders	To be completed 2016			
35	Swatara Hill	00764-2	<i>Performance was driven by equipment failure (44%) and vehicles (35%).</i>			Jul-15 Sep-15 Dec-15 Jul-16 Jul-16	3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete			
			Pole was replaced and equipment repaired	Complete			
			Lockout zone circuit inspection	Complete			
			Spot tree trimming	Complete			
Replaced failed underground cable	Complete						
36	Spry	00488-4	<i>Performance was driven by trees off ROW (62%) and equipment failure (33%).</i>			Feb-16 0%	1Q 2016 2Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete			
			Mid-cycle backbone and three phase forestry inspection	To be completed 2016			

Met-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
37	Stouchburg	00758-2	<i>Performance was driven by equipment failure (38%), trees on ROW (28%), and vehicles (28%).</i>			1Q 2016 2Q 2016
			Repair damage caused by a vehicle	Complete	Jan-16	
			Install fault indicators	Complete	Jan-16	
			Replace crossarms	Complete	Feb-16	
			Reliability job to install fuses	To be completed 2016	50%	
			On cycle tree trimming	To be completed 2016	5%	
38	Grantley	00401-4	<i>Performance was driven by trees off ROW (86%).</i>			1Q 2016 2Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Feb-16	
			Overhead circuit inspection	Complete	Jun-16	
			Mid-cycle backbone and three phase forestry inspection	To be completed 2016	0%	
39	North Lebanon	00712-2	<i>Performance was driven by equipment failure (34%) and trees off ROW (31%).</i>			3Q 2015 1Q 2016 2Q 2016
			Repair equipment failure	Complete	Jan-16	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Feb-16	
			Replace broken equipment	Complete	May-16	

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q3 2015	Q4 2015	Q1 2016	Q2 2016
Allen	00501-4	X	X	X	
Annville	00741-2	X	X	X	
Bath	00873-3	X		X	
Bernville	00786-1	X	X		
Dillsburg	00749-4		X		
Flying Hills	00777-1	X	X	X	
Fox Hill	00816-3	X	X	X	
Newberry	00576-4	X	X	X	
Northwood	00821-3		X	X	
North Bangor	00826-3	X	X	X	
North Hanover	00509-4	X	X	X	
Orrtanna	00764-4		X	X	
Painted Sky	00650-1	X	X	X	
South Hamburg	00741-1	X	X		
Straban	00676-4	X	X	X	
Taxville	00575-4	X	X		
Windsor	00797-4	X	X		

Met-Ed				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Allen	00501-4	Overhead circuit inspection	To be completed 2016	0%
Annville	00741-2	Replace recloser	To be completed 2016	50%
Bernville	00786-1	Replace main line crossarms from inspection	To be completed 2016	50%
		Replace recloser	To be completed 2016	0%
Dillsburg	00749-4	Overhead circuit inspection	To be completed 2016	0%
East Tipton	00733-1	Complete circuit reconfiguration	To be completed 2016	25%
Flying Hills	00777-1	On cycle tree trimming	To be completed 2016	80%
		Overhead circuit inspection	To be completed 2016	0%
Fox Hill	00816-3	Create circuit ties and loops	To be completed 2016	0%
		On cycle tree trimming	To be completed 2016	0%
Leesport	00811-1	Install additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	0%
Newberry	00586-4	Replace recloser	To be completed 2016	0%
Newberry	00576-4	Replace porcelain cutouts on recloser backbone with polymer cutouts	To be completed 2016	50%
		Install additional Supervisory Control and Data Acquisition (SCADA) switch	To be completed 2016	25%
		Mid-cycle backbone and three phase forestry inspection	To be completed 2016	0%
North Bangor	00826-3	Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	80%
		Install Supervisory Control and Data Acquisition (SCADA) on two reclosers	To be completed 2016	50%
		Replace spacer cable along Meixel Valley Rd with open wire	To be completed 2016	50%
North Hanover	00509-4	On cycle tree trimming	To be completed 2017 ²⁸	0%

²⁸ Incorrectly reported with a 2016 completion date in the 3rd quarter of 2015.

Met-Ed				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Painted Sky	00650-1	Underground equipment inspection	To be completed 2016	0%
		Overhead circuit inspection	To be completed 2016	0%
Shawnee	00822-3	Install additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	0%
Straban	00676-4	Replace recloser	To be completed 2016	0%
		Install recloser	To be completed 2016	0%
Taxville	00575-4	Replace/repair high priority items identified during circuit patrol	To be completed 2016	5%
Violet Hill	00527-4	On cycle tree trimming	To be completed 2016	0%
Windsor	00797-4	Upgrade reclosers	To be completed 2016	25%
Yorkana	00708-4	Install two additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	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	
1	Westraver	West Newton	<i>Performance was driven by equipment failure (71%) and forced outages (16%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			CEMI review to be performed. No high CEMI taps found	Complete	Dec-15		
			Repair damaged conductor due to customer's equipment	Complete	Mar-16		
			Repair equipment failure	Complete	Mar-16		
			Repair damage caused by a tree	Complete	Mar-16		
			Repair equipment failure during a storm	Complete	Mar-16		
			On cycle tree trimming	To be completed 2016	0%		
2	Rutan	Bistoria	<i>Performance was driven by trees off ROW (89%). 71% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 2Q 2016
			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		
			Reliability job to install fuses	To be completed 2016	0%		
3	Dutch Fork	Claysville	<i>Performance was driven by trees off ROW (44%), equipment failure (34%), and trees on ROW (9%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair damage caused by tree	Complete	Feb-16		
			Repair equipment failure	Complete	Mar-16		
			Repair damage caused by tree	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			On cycle tree trimming	To be completed 2016	0%		
			Perform CEMI review	To be completed 2016	0%		
Targeted circuit rehab	To be completed 2016	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	
4	Cooperstown	Twin Willows	<i>Performance was driven by trees off ROW (78%) and equipment failure (13%). 78% of the outages occurred on one day.</i>				
			Repair damage caused by an equipment failure to a switch	Complete	Jan-16		
			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		
5	Donegal	Champion	<i>Performance was driven by trees off ROW (47%), line failure (35%), and vehicles (13%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Dec-15		
			Repair damage caused by tree	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair damage caused by tree	Complete	Feb-16		
			Repair damage caused by trees during a storm	Complete	Feb-16		
			Repair equipment failure	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			Repair damage caused by a tree	Complete	May-16		

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	
6	Piney Fork	Stoltz	<i>Performance was driven by equipment failure (74%) and animals (14%).</i>				4Q 2015 1Q 2016 2Q 2016
			Zone 1 forestry patrol. Thirty-six trees identified to be remediated.	Complete	Nov-15		
			Repair damage caused by animal contact	Complete	Jan-16		
			Repair equipment failure	Complete	Jan-16		
			Repair damaged pole	Complete	Feb-16		
			Repair damage caused by a vehicle	Complete	Feb-16		
			Repair line failure during a storm	Complete	Feb-16		
			Repair equipment failure	Complete	Mar-16		
			Remediate thirty-six trees identified in Zone 1 forestry patrol	Complete	Mar-16		
			Repair equipment failure	Complete	Mar-16		
			Repair line failure during a storm	Complete	Mar-16		
			Targeted circuit rehab	To be completed 2016	0%		
7	North Union	Phillips	<i>Performance was driven by trees off ROW (79%) and equipment failure (17%).</i>				4Q 2015 1Q 2016 2Q 2016
			Cycle tree trimming	Complete	Jul-15		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair damage caused by a tree during a storm	Complete	Jun-16		
			Targeted circuit rehab	To be completed 2016	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	
8	Amity	Banetown	<i>Performance was driven by trees off ROW (38%), unknowns (24%), and line failure (13%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair line failure	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair equipment failure	Complete	Feb-16		
			Repair damage caused by tree	Complete	Feb-16		
			Repair line failure	Complete	Mar-16		
			Repair damage caused by a tree during a storm	Complete	Jun-16		
			Targeted line rehab	To be completed 2016	0%		
9	North Union	Gallatin	<i>Performance was driven by line failure (68%) and vehicles (16%). 63% of the outages occurred on one day.</i>				
			Repair line failure	Complete	May-16		
			Repair damage caused by a vehicle	Complete	Jun-16		
			Overhead circuit patrol	Complete	Jun-16		
10	Kane	Russell City	<i>Performance was driven by trees off ROW (47%) and equipment failure (41%).</i>				4Q 2015 1Q 2016 2Q 2016
			Repair equipment failure during a storm	Complete	Feb-16		
			Repair damage caused by trees during a storm	Complete	Feb-16		
			Repair damage caused by tree	Complete	Mar-16		
			Repair damage caused by lightning	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Jun-16		
			On cycle tree trimming	To be completed 2016	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
11	North Fayette	Beechcliff	<i>Performance was driven by trees off ROW (45%) and line failure (40%).</i>			
			Repair line failure	Complete	Feb-16	
			Repair equipment failure	Complete	May-16	
			Zone 1 circuit patrol. Five trees found and remediated.	Complete	May-16	
			Repair line failure	Complete	Jun-16	
			On cycle tree trimming	To be completed 2016	0%	
12	Driftwood	Driftwood	<i>Performance was driven by trees off ROW (68%) and unknowns (22%).</i>			3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by non-company human error	Complete	Jan-16	
			Repair equipment failure	Complete	Feb-16	
			Repair damage caused by tree	Complete	Feb-16	
			Repair equipment failure	Complete	Mar-16	
			Repair damage caused by tree	Complete	Mar-16	
			Repair damage caused by trees during a storm	Complete	Mar-16	
			Forced outage to replace conductor	Complete	Apr-16	
			On cycle tree trimming	To be completed 2016	56%	
13	South Union	Fairchance	<i>Performance was driven by line failure (62%) and unknowns (21%).</i>			4Q 2015 1Q 2016 2Q 2016
			On cycle tree trimming	Complete	Oct-15	
			Repair damage caused by animal contact	Complete	Feb-16	
			Repair line failure	Complete	Feb-16	
			Repair damage caused by animal contact	Complete	Mar-16	
			Targeted circuit rehab	To be completed 2016	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	Franklin	Rogersville	<i>Performance was driven by line failure (69%), forced outages (9%), and unknowns (9%). 72% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Zone 1 circuit patrol. No hardware issues found. Four trees found and remediated.	Complete	Jul-15		
			Repair line failure	Complete	Jan-16		
			Repair damage caused by tree	Complete	Jan-16		
			Repair line failure	Complete	Feb-16		
			Repair damage caused by trees during a storm	Complete	Feb-16		
			Repair line failure during a storm	Complete	Mar-16		
15	Rutan	Windridge	<i>Performance was driven by trees off ROW (52%), line failure (26%), and equipment failure (11%).</i>				4Q 2015 1Q 2016 2Q 2016
			Zone 1 vegetation patrol. Twelve trees found and remediated.	Complete	Nov-15		
			Repair line failure	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair damage caused by animal contact	Complete	Feb-16		
			Repair line failure	Complete	Feb-16		
			Repair damage caused by tree	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			Repair damage caused by non-company human error	Complete	Jun-16		
			Repair damage caused by a tree	Complete	Jun-16		
			Hardware and coordination rehabilitation	To be completed 2016	10%		
			Reliability job to install fuses	To be completed 2016	0%		
Overhead circuit patrol	To be completed 2016	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
16	Enlow	Summit	<i>Performance was driven by vehicles (41%), forced outages (33%), and equipment failure (16%). 68% of the outages occurred on one day.</i>			1Q 2016 2Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Nov-15	
			Repair damage caused by a vehicle	Complete	Mar-16	
17	Stahlstown	Kreager	<i>Performance was driven by trees off ROW (31%), line failure (29%), and trees on ROW (19%).</i>			4Q 2015 1Q 2016 2Q 2016
			Zone 1 vegetation patrol. Forty-two trees found and remediated.	Complete	Nov-15	
			Repair line failure	Complete	Feb-16	
			Repair equipment failure	Complete	Feb-16	
			Repair damage caused by tree	Complete	Feb-16	
Repair equipment failure	Complete	Jun-16				
18	Fawn	Bull Creek	<i>Performance was driven by trees off ROW (61%) and vehicles (28%).</i>			1Q 2016 2Q 2016
			Repair equipment failure	Complete	Jan-16	
			Repair damage caused by a vehicle	Complete	Jan-16	
			Repair damage caused by trees during a storm	Complete	Jan-16	
			Repair damage caused by trees during a storm	Complete	Feb-16	
			Repair line failure	Complete	Mar-16	
			Repair damage caused by trees during a storm	Complete	Mar-16	
			Repair damage caused by a tree	Complete	Apr-16	
On cycle tree trimming	To be completed 2016	7%				

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	
19	Piney Fork	Gillhall	<i>Performance was driven by trees off ROW (54%), equipment failure (16%), and trees on ROW (13%). 54% of the outages occurred on one day.</i>				1Q 2016 2Q 2016
			Repair line failure	Complete	Jan-16		
			Repair line failure	Complete	Mar-16		
			Repair damage caused by tree	Complete	Mar-16		
			Repair line failure during a storm	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			On cycle tree trimming	Complete	Mar-16		
			Repair damage caused by tree	Complete	May-16		
			Repair equipment failure	Complete	Jun-16		
20	Vanceville	Vanceville	<i>Performance was driven by vehicles (43%), trees off ROW (24%), forced outages (9%), and line failure (9%). 43% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair line failure	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			Forced outage to replace a crossarm	Complete	Apr-16		
			Add two additional phases (1 mile) to split customer exposure	To be completed 2016	10%		
			Hardware and coordination rehabilitation	To be completed 2016	10%		
21	Murrycrest	Sardis Road	<i>Performance was driven by trees off ROW (48%), equipment failure (25%), and line failure (14%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair equipment failure	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair line failure	Complete	Mar-16		
			Repair damage caused by tree	Complete	Mar-16		
			Reliability job to install fuses	To be completed 2016	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	
22	Vandergrift	Grifflo Park	<i>Performance was driven by equipment failure (46%) and trees off ROW (38%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair recloser	Complete	Jan-16		
			Repair damage caused by tree	Complete	Feb-16		
			Repair line failure	Complete	Mar-16		
			On cycle tree trimming	Complete	Mar-16		
			Enhanced overcurrent protection	To be completed 2016	0%		
			Targeted circuit rehab	To be completed 2016	0%		
23	Fort Palmer	West Fairfield	<i>Performance was driven by vehicles (34%), trees off ROW (25%), and forced outages (17%). 44% of the outages occurred on one day.</i>				4Q 2015 1Q 2016 2Q 2016
			Zone 1 vegetation patrol. 184 trees found and remediated.	Complete	Nov-15		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair equipment failure	Complete	Feb-16		
			Repair line failure	Complete	Mar-16		
			Repair damage caused by a tree	Complete	Mar-16		
			Repair equipment failure during a storm	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			Repair damage caused by a tree	Complete	Apr-16		
			Overhead circuit patrol	To be completed 2016	0%		
24	Kiski Valley Distrib	Kittanning Rd	<i>Performance was driven by forced outages (49%), trees off ROW (30%), and equipment failure (11%). 49% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Repair equipment failure	Complete	Jan-16		
			Repair line failure	Complete	Mar-16		
			Reliability job to install fuses	To be completed 2016	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	
25	Loyalhanna	Center Drive	<i>Performance was driven by trees off ROW (81%) and forced outages (13%).</i>				
			Repair equipment failure.	Complete	Jan-16		
			Repair damage caused by a vehicle	Complete	May-16		
			Zone 1 circuit patrol. Twenty-four trees found and remediated.	Complete	May-16		
			Repair damage caused by a tree during a storm	Complete	Jun-16		
26	Houston	Murdock	<i>Performance was driven by unknowns (24%), forced outages (20%), trees on ROW (19%), and equipment failure (17%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Overhead circuit patrol	Complete	Nov-15		
			On cycle tree trimming	Complete	Dec-15		
			Repair damage caused by animal contact	Complete	Mar-16		
			Repair equipment failure during a storm	Complete	Mar-16		
			Repair line failure during a storm	Complete	Mar-16		
27	Route 30	Warm Springs	<i>Performance was driven by vehicles (84%). 68% of the outages occurred on one day.</i>				
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-16		
28	Hickory	Hickory	<i>Performance was driven by trees off ROW (34%), trees on ROW (23%), forced outages (16%), and vehicles (10%).</i>				3Q 2015 4Q 2015 2Q 2016
			Zone 1 circuit patrol. One-hundred and twenty-nine trees found and remediated.	Complete	Mar-16		
			Repair damage caused by a tree during a storm	Complete	Jun-16		
			Repair line failure during a storm	Complete	Jun-16		
			On cycle tree trimming	To be completed 2016	58%		
			Reliability job to install fuses	To be completed 2016	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	
29	Cecil	Bishop	<i>Performance was driven by forced outages (42%), trees off ROW (37%), and line failure (13%).</i>				3Q 2015 4Q 2015 1Q 2016 2Q 2016
			Zone 1 circuit patrol. Eleven danger trees found and remediated.	Complete	Jul-15		
			Repair damaged pole	Complete	Mar-16		
			Repair line failure during a storm	Complete	Jun-16		
			Underground substation exit replacement	To be completed 2016	0%		
30	Smith	Florence	<i>Performance was driven by trees off ROW (86%).</i>				1Q 2016 2Q 2016
			Repair line failure	Complete	Feb-16		
			Repair damage caused by tree	Complete	Feb-16		
			Repair line failure during a storm	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
Restore unknown outage during a storm	Complete	Jun-16					
31	Emporium	West Creek	<i>Performance was driven by equipment failure (80%), and trees off ROW (17%). 58% of the outages occurred on one day.</i>				3Q 2015 2Q 2016
			Restore customers caused by an unknown outage	Complete	Mar-16		
			Repair damage caused by a tree during a storm	Complete	Mar-16		
			Repair equipment failure	Complete	May-16		
			Repair equipment failure	Complete	Jun-16		
Forced outage to replace a jumper	Complete	Jun-16					
32	Franklin	South Waynesburg	<i>Performance was driven by trees off ROW (53%), non-company human error (19%), and forced outages (12%).</i>				
			Repair equipment failure	Complete	Feb-16		
			Repair damage caused by non-company human error	Complete	Apr-16		
			Zone 1 circuit patrol. Twenty trees found and remediated	Complete	May-16		
			Repair damage caused by a tree during a storm	Complete	Jun-16		

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	
33	Crossgates	Robinhood	<i>Performance was driven by trees off ROW (74%) and trees on ROW (15%). 73% of the outages occurred on one day.</i>				
			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		
34	Belmon	Second Street	<i>Performance was driven by vehicles (51%), unknown (23%), and equipment failure (17%). 51% of the outages occurred on one day.</i>				
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jul-15		
			Repair equipment failure	Complete	Feb-16		
			Repair equipment failure during a storm	Complete	Feb-16		
			Repair damage caused by animal contact	Complete	Mar-16		
35	Waterville	Waterville	<i>Performance was driven by other electric utilities (42%), trees off ROW (32%), and line failure (13%).</i>				4Q 2015 2Q 2016
			Repair damage caused by a tree during a storm	Complete	Mar-16		
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-16		
			Repair damage caused by other electric utilities during a storm	Complete	Jun-16		
			Overhead circuit patrol	Complete	Jun-16		
36	Houston	Chartiers	<i>Performance was driven by unknown, (49%) and trees on ROW (34%). 45% of the outages occurred on one day.</i>				
			Forced outage to replace head guy	Complete	Mar-16		
			Repair damage caused by a tree	Complete	Mar-16		
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-16		

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	
37	Mateer	Dime Rd	<i>Performance was driven by trees off ROW (84%). 55% of the outages occurred on one day.</i>				
			Zone 1 circuit patrol. Forty-one 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	Complete	Jun-16		
			Overhead circuit patrol	Complete	Jun-16		
38	Hickory	Fort Cherry	<i>Performance was driven by forced outages (53%) and trees off ROW (30%).</i>				3Q 2015 4Q 2015 2Q 2016
			Zone 1 vegetation patrol. Forty-nine trees found and remediated.	Complete	May-16		
			Repair line failure	Complete	May-16		
			Forced outage during a storm to replace a cutout	Complete	Jun-16		
39	South Union	Rte. 119 North	<i>Performance was driven by equipment failure (48%), line failure (29%), and animals (8%). 46% of the outages occurred on one day.</i>				
			Forced outage during a storm to replace a pole	Complete	Jan-16		
			Repair equipment failure during a storm	Complete	Apr-16		
			Zone 1 circuit patrol. Five trees found and remediated.	Complete	May-16		
			Repair equipment failure	Complete	Jun-16		
40	Finleyville	Gastonville	<i>Performance was driven by trees off ROW (43%), line failure (33%), and forced outages (15%). 60% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 2Q 2016
			Forced outage to replace conductor	Complete	Apr-16		
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-16		
			Reliability job to install fuses	To be completed 2016	0%		

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q3 2015	Q4 2015	Q1 2016	Q2 2016
Cecil	Muse	X	X	X	
Cecil	Southpointe	X	X	X	
Houston	Canonsburg	X	X	X	
Gordon	Tyler	X	X		
Gordon	Wolfdale	X	X	X	
Lagonda	Lagonda	X	X	X	
Lake Lynn-Union	Fancy Hill	X	X		
Midway	Midway		X	X	
Shaffers Corner	Braeburn	X	X	X	
Shaffers Corner	Seventh St Rd	X	X	X	
Smithton	Fitzhenry	X		X	
South Fayette 138	Abele	X	X	X	
Superior	Clumerville		X	X	
Westraver	Fellsburg	X	X		
Westraver	Pittsburgh Coal	X	X	X	
Wilcox	Wilcox	X	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
Bethlen	Laughlintown	On cycle tree trimming	To be completed 2016	0%
Cecil	Hendersonville	Underground substation exit replacement	To be completed 2016	0%
East Millsboro	East Millsboro	Hardware and coordination rehab	To be completed 2016	0%
Finleyville	Gastonville	Reliability job to install fuses	To be completed 2016	0%
Galley	Waterdam	Targeted circuit rehab	To be completed 2016	0%
		Enhanced overcurrent protection	To be completed 2016	0%
		Reliability job to install fuses	To be completed 2016	0%
Gordon	Tyler	Enhance overcurrent protection	To be completed 2016	0%
Gordon	Wolfdale	Reliability job to install fuses	To be completed 2016	0%
		On cycle tree trimming	To be completed 2016	0%
Houston	Canonsburg	Enhanced overcurrent protection	To be completed 2016	0%
Houston	McGovern	Hardware and coordination rehab	To be completed 2016	0%
		Replace all non-vacuum type line reclosers	To be completed 2016	0%
Necessity	Ohiopyle	Hardware and coordination rehab	To be completed 2016	0%
North Fayette	Oakdale	Reliability job to install fuses	To be completed 2016	0%
Peters	Venetia	Targeted circuit rehab	To be completed 2016	0%
		Reliability job to install fuses	To be completed 2016	0%
		On cycle tree trimming	To be completed 2016	0%
Piney Fork	Cochran Mill	Reliability job to install fuses	To be completed 2016	0%
Shaffers Corner	Braeburn	On cycle tree trimming	To be completed 2016	71%
		Enhanced overcurrent protection	To be completed 2016	0%
		Targeted circuit rehab	To be completed 2016	0%
Shaffers Corner	Seventh St Rd	Enhanced overcurrent protection	To be completed 2016	0%
		Targeted circuit rehab	To be completed 2016	0%
South Fayette 138	Abele	Reliability job to install fuses	To be completed 2016	0%
Waterville	Waterville	Hardware and coordination rehab	To be completed 2016	0%
Westraver	Fellsburg	Reliability job to install fuses	To be completed 2016	0%
		Targeted circuit rehab	To be completed 2016	0%
Whiteley	Mt. Morris	On cycle tree trimming	To be completed 2016	0%

ATTACHMENT C

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

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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.

	Penelec		Met-Ed	
	Open P3 Conditions	Overdue P3 Conditions	Open P3 Conditions	Overdue P3 Conditions
1Q	3,008	2,157	1,955	1,842
2Q	2,711	2,106	1,713	1,670
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.

Penn Power – Third Party Line Hit Incidents 2nd Quarter 2016 12-Month Rolling²⁹			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	8	\$62	\$-
Excavated in Tolerance	9	\$21,056	\$12,530
Excavation Inconsistent with Ticket Scope	3	\$3,120	\$3,120
Excavation Prior to Lawful Start Date	1	\$198	\$198
Expired Ticket	3	\$7,905	\$2,221
Hand Digging	1	\$1,581	\$1,581
Marked Improperly	5	\$7,381	\$7,381
No Ticket	23	\$49,632	\$25,975
Total	53	\$90,935	\$53,006

Penelec – Third Party Line Hit Incidents 2nd Quarter 2016 12-Month Rolling³⁰			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	3	\$-	\$-
Excavated in Tolerance	40	\$59,915	\$22,987
Excavation Inconsistent with Ticket Scope	5	\$8,875	\$3,326
Excavation Prior to Lawful Start Date	1	\$1,243	\$1,243
Expired Ticket	8	\$14,001	\$5,026
Hand Digging	6	\$4,182	\$2,383
Marked Improperly	19	\$54,855	\$50,302
No Ticket	56	\$72,342	\$50,966
Total	138	\$215,413	\$136,233

²⁹ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of June 30, 2016.

³⁰ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of June 30, 2016.

Met-Ed – Third Party Line Hit Incidents 2nd Quarter 2016 12-Month Rolling³¹			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	17	\$-	\$-
Excavated in Tolerance	36	\$125,669	\$31,008
Excavation Inconsistent with Ticket Scope	11	\$23,600	\$5,478
Excavation Prior to Lawful Start Date	3	\$3,720	\$2,669
Expired Ticket	2	\$2,546	\$2,546
Hand Digging	-	-	-
Marked Improperly	7	\$12,363	\$12,363
No Ticket	44	\$63,784	\$27,611
Total	120	\$231,682	\$81,675

West Penn – Third Party Line Hit Incidents 2nd Quarter 2016 12-Month Rolling³²			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	19	\$978	\$-
Excavated in Tolerance	3	\$3,493	\$2,546
Excavation Inconsistent with Ticket Scope	4	\$10,269	\$-
Excavation Prior to Lawful Start Date	3	\$439	\$439
Expired Ticket	2	\$15,064	\$748
Hand Digging	2	\$6,630	\$6,630
Marked Improperly	15	\$16,870	\$16,720
No Ticket	22	\$40,871	\$19,970
Total	70	\$94,614	\$47,071

Cause of Line Hit	Definition
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

³¹ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of June 30, 2016.

³² Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of June 30, 2016.

Tori L. Giesler
(610) 921-6658
tgiesler@firstenergycorp.com

August 1, 2016

VIA UNITED PARCEL SERVICE

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

**Re: Joint 2nd Quarter 2016 Reliability Report – Metropolitan Edison Company,
Pennsylvania Electric Company, Pennsylvania Power Company and West Penn
Power Company – Proprietary 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 2nd Quarter 2016 Reliability Report – Proprietary 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 Public 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: 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)

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Joint 2nd Quarter 2016 Reliability Report – :
Metropolitan Edison Company, :
Pennsylvania Electric Company :
Pennsylvania Power Company and West :
Penn Power Company – Public Version :

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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:

John R. Evans
Office of Small Business Advocate
Suite 1102, Commerce Building
300 North Second Street
Harrisburg, PA 17101

Tanya McCloskey
Office of Consumer Advocate
555 Walnut Street – 5th Floor
Harrisburg, PA 17101-1923

Johnnie E. Simms
Bureau of Investigation & Enforcement
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265


Scott Rubin
Utility Workers Union of America
333 Oak Lane
Bloomsburg, PA 17815-2036

Service by electronic mail, as follows:

David Dulick, General Counsel
David.Dulick@ccsenergy.com

Rich Geosits, Manager, Power Delivery
Rich.Geosits@ccsenergy.com

Dated: August 1, 2016


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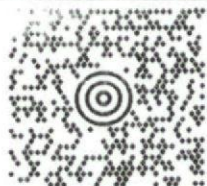
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1 OF 1

SHIP TO:

ROSEMARY CHIAVETTA, SECRETARY
PA PUBLIC UTILITY COMMISSION
2ND FLOOR
COMMONWEALTH KEYSTONE BUILDING
400 NORTH STREET
HARRISBURG PA 17120-0079



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