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April 29, 2016

VIA UNITED PARCEL SERVICE

RECEIVED

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

APR 29 2016

PA PUBLIC UTILITY COMMISSION
 SECRETARY'S BUREAU

**Re: Joint 1st 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 1st 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 1st 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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APR 29 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Joint 1st Quarter 2016 Reliability Report –
Pennsylvania Power Company,
Pennsylvania Electric Company,
Metropolitan Edison Company, and
West Penn Power Company**

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 March 31, 2016.

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

1Q 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	1.16	1.26	1.52	1.34	1.15	1.38	1.34	1.05	1.26	1.16
CAIDI	101	121	102	117	141	143	117	140	123	170	204	157 ²
SAIDI	113	162	118	148	213	192	135	194	164	179	257	183
MAIFI ³			0.64			2.61			1.18			
Customers Served ⁴	160,559			581,603			555,037			709,891		
Number of Sustained Interruptions	3,037			11,862			9,331			11,489		
Customers Affected	185,829			778,968			742,062			823,837		
Customer Minutes	19,005,381			111,562,818			90,917,975			129,746,840		
Number of Customer Momentary Interruptions	0.68			3.29			1.24					

² West Penn achieved benchmark performance or better.

³ MAIFI values are not available for West Penn.

⁴ 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.

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

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				
1st Quarter 2016 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Trees off ROW - tree	6,009,376	516	43,479	16.99%
Animal	702,306	414	7,975	13.63%
Equipment failure	5,000,389	392	48,596	12.91%
Lightning	1,857,621	313	16,812	10.31%
Line failure	1,720,753	293	13,346	9.65%
Bird	235,940	286	2,869	9.42%
Trees off ROW - limb	977,763	271	6,907	8.92%
Unknown	670,235	156	14,458	5.14%
Trees - sec/service	73,092	94	348	3.10%
Vehicle	512,471	67	4,618	2.21%
Previous lightning	26,808	48	223	1.58%
Forced outage	142,309	42	8,031	1.38%
Overload	99,160	34	1,515	1.12%
Human error - non-company	54,733	23	377	0.76%
Customer equipment	117,686	19	11,190	0.63%
UG dig-up	21,734	19	204	0.63%
Trees on ROW	42,660	13	494	0.43%
Object contact with line	359,046	10	1,234	0.33%
Human error - company	16,031	9	1,259	0.30%
Ice	150,369	8	1,126	0.26%
Vandalism	10,672	6	64	0.20%
Fire	204,166	3	703	0.10%
Contamination	61	1	1	0.03%
Total	19,005,381	3,037	185,829	100.00%

Proposed Solutions – Penn Power

Penn Power analyzed its outage data for the rolling twelve-month period ending March 31, 2016 to develop solutions aimed towards improved reliability. The following paragraphs identify the top outage causes and associated actions designed to address these outage causes experienced by Penn Power for the reporting period.

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. The Company's routine vegetation management program will target 1,109 miles in 2016. Penn Power plans to continue with its off right-of-way tree removal program by performing enhanced trimming on 400 miles in 2016.

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 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.⁵ 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

⁵ 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.

time. In 2016, Penn Power plans to install thirty switches on the transmission system and three on the distribution 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.
- **Circuit rehabilitation** – In 2016, Penn Power will inspect and rehabilitate approximately twenty-four miles of transmission lines, replacing equipment as necessary. 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. Since 2005, Penn Power has installed over 200 reclosers and 2,900 fuses to help address these types of concerns.

Outages by Cause – Penelec

Outage by Cause				
1st Quarter 2016 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	22,078,997	2,927	191,510	24.68%
Unknown	8,470,658	1,699	73,350	14.32%
Trees off ROW - tree	38,138,414	1,406	173,091	11.85%
Animal	4,242,642	1,290	34,508	10.88%
Line failure	11,761,026	898	89,025	7.57%
Forced outage	5,920,330	797	55,561	6.72%
Lightning	5,333,600	628	43,482	5.29%
Trees off ROW - limb	4,195,023	434	27,536	3.66%
Trees - sec/service	517,894	427	1,848	3.60%
Bird	812,850	369	8,853	3.11%
Vehicle	4,658,196	231	34,765	1.95%
Trees on ROW	963,843	161	7,035	1.36%
Human error - company	70,326	104	5,183	0.88%
Human error - non-company	878,259	98	8,483	0.83%
Previous lightning	95,983	81	375	0.68%
Overload	533,081	59	10,150	0.50%
Other electric utility	231,186	57	1,321	0.48%
UG dig-up	73,693	50	381	0.42%
Object contact with line	1,157,430	43	3,606	0.36%
Wind	935,659	24	2,959	0.20%
Customer equipment	81,912	22	3,430	0.19%
Vandalism	268,576	15	1,235	0.13%
Ice	64,551	14	470	0.12%
Fire	29,205	13	312	0.11%
Contamination	2,648	7	12	0.06%
Other utility - non electric	43,236	7	187	0.06%
Switching error	3,600	1	300	0.01%
Total	111,562,818	11,862	778,968	100.00%

Proposed Solutions – Penelec

Penelec analyzed its outage data for the rolling twelve-month period ending March 31, 2016 to determine proposed solutions to improve reliability. The following paragraphs identify the top outage causes and actions to address these outage causes experienced by Penelec for the reporting period.

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 may conduct a post outage circuit inspections as needed.

To address tree outages, Penelec performs routine vegetation management where the Company thoroughly inspects and trims circuits once every five years. The vegetation management program removes off right-of-way priority trees that are dead, dying, diseased, and leaning or significantly encroaching the right-of-way. Penelec also invests in the proactive removal of Ash trees that have been deemed a threat due to the Emerald Ash Borer insect. Penelec accelerated the removal of trees outside the right-of-way in zones one and two⁶ of its distribution and 34.5kV system that typically experience high tree-related SAIFI. In 2016, Penelec plans to accelerate approximately 400 miles. These miles include the removal of Ash trees deemed a threat due to the Emerald Ash Borer.

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.

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:

⁶ 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.

- **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.
- **Targeted circuit rehabilitation** – Penelec plans to target two circuits for circuit rehabilitation in 2016. 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.
- **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.

Outages by Cause – Met-Ed

Outage by Cause				
1st Quarter 2016 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	23,912,980	2,633	219,464	28.22%
Animal	3,405,303	1,329	36,759	14.24%
Unknown	5,579,570	1,067	77,953	11.44%
Trees off ROW - tree	19,758,088	848	85,615	9.09%
Line failure	7,875,538	559	50,077	5.99%
Trees off ROW - limb	5,088,091	484	35,821	5.19%
Trees on ROW	4,864,981	475	26,818	5.09%
Lightning	2,476,470	415	18,417	4.45%
Forced outage	4,202,150	414	78,920	4.44%
Bird	425,862	320	6,010	3.43%
Vehicle	9,871,563	300	68,859	3.22%
Trees - sec/service	311,465	185	787	1.98%
Human error - non-company	721,645	75	5,644	0.80%
Overload	828,732	39	10,208	0.42%
Previous lightning	245,244	38	1,542	0.41%
Object contact with line	626,978	35	8,586	0.38%
Human error - company	158,968	30	6,751	0.32%
UG dig-up	38,582	20	162	0.21%
Customer equipment	52,637	19	501	0.20%
Fire	15,998	9	89	0.10%
Other electric utility	6,331	9	32	0.10%
Ice	41,855	6	129	0.06%
Wind	330,104	6	1,590	0.06%
Other utility - non electric	61,923	5	74	0.05%
Switching error	14,892	5	1,241	0.05%
Vandalism	335	3	3	0.03%
Contamination	760	2	4	0.02%
Call error	930	1	6	0.01%
Total	90,917,975	9,331	742,062	100.00%

Proposed Solutions – Met-Ed

Met-Ed analyzed its outage data for the rolling twelve-month period ending March 31, 2016 to determine proposed solutions to improve reliability. The following paragraphs identify the top outage causes and actions to address these outage causes experienced by Met-Ed for the reporting period.

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.

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.

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 (“WPC”) in 2016. 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 one of circuits,

as this represents the greatest opportunity to enhance the Company's system. In 2016, Met-Ed will target six circuits for cutout replacement.

- **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.

Outages by Cause – West Penn

Outage by Cause				
1st Quarter 2016 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	23,208,665	2,408	145,555	20.96%
Unknown	13,807,566	1,864	112,614	16.22%
Trees off ROW - tree	41,559,736	1,774	164,814	15.44%
Forced outage	9,306,994	1,275	159,693	11.10%
Animal	2,235,901	1,198	23,252	10.43%
Line failure	16,982,724	1,053	77,668	9.17%
Trees off ROW - limb	5,461,649	459	29,122	4.00%
Trees on ROW	6,039,439	431	25,013	3.75%
Vehicle	7,631,765	295	54,456	2.57%
Bird	166,736	226	2,012	1.97%
Trees - sec/service	243,116	225	525	1.96%
Lightning	1,471,181	88	12,228	0.77%
Human error - non-company	738,968	67	9,342	0.58%
Human error - company	134,468	32	3,367	0.28%
UG dig-up	105,673	30	536	0.26%
Object contact with line	185,960	20	1,053	0.17%
Customer equipment	8,377	13	32	0.11%
Overload	213,533	10	1,466	0.09%
Vandalism	44,417	7	133	0.06%
Wind	14,565	4	30	0.03%
Other utility - non electric	18,892	3	52	0.03%
Other electric utility	131,064	2	711	0.02%
Previous lightning	367	2	2	0.02%
Switching error	34,290	2	159	0.02%
Fire	794	1	2	0.01%
Total	129,746,840	11,489	823,837	100.00%

Proposed Solutions – West Penn

West Penn analyzed its outage data for the rolling twelve-month period ending March 31, 2016 to determine proposed solutions to improve reliability. The paragraphs below identify the top outage causes and actions to address these outage causes experienced by West Penn for the reporting period.

To reduce 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 address tree outages, West Penn implements a more aggressive vegetation management program. In addition to its normal on-cycle tree trimming, West Penn has 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.

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.

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 has plans to conduct targeted circuit rehabilitation consisting of a circuit inspection, identification of equipment in need of replacement, and then 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.

- **Enhanced overcurrent protection and SCADA control** – West Penn will target the installation of 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.
- **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.
- **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.

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	1Q	YTD	Annual	1Q	YTD	Annual	1Q	YTD	Annual	1Q	YTD
Forestry	Transmission (Miles)	116.03	18.93	18.93	386.17	111.07	111.07	258.02	39.76	39.76	171.55	15.81	15.81
	Distribution (Miles)	1,109	289	289	3,794	702	702	2,349	459	459	4,516	936	936
Transmission	Aerial Patrols	2	0	0	2	0	0	2	1	1	2	0	0
	Groundline	532	0	0	1,274	0	0	904	0	0	15	0	0
Substation	Substation Inspections Class A	146	73	73	798	399	399	420	210	210	972	487	487
	Substation Inspections Class B	146	0	0	798	0	0	420	0	0	972	2	2
	Substation Inspections Class C	584	146	146	3,192	798	798	1,680	420	420	3,888	978	978
	Transformers	100	21	21	524	233	233	222	27	27	504	142	142
	Breakers	8	1	1	256	61	61	24	12	12	322	20	20
	Relay Schemes	14	11	11	101	38	38	97	41	41	160	15	15
Distribution	Capacitors	992	992	992	8,783	8,783	8,783	4,755	4,755	4,755	1,305	1,305	1,305
	Poles	10,600	10,529	10,529	41,111	24,988	24,988	17,111	10,605	10,605	26,880	15,693	15,693
	Reclosers	808	442	442	2,567	0	0	1,079	643	643	3,776	2,362	2,362
	Radio-Controlled Switches	Penn Power has no radio- controlled switches			2,566	61	61	290	18	18	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 Expenditures⁷

Penn Power T&D O&M – 1Q / YTD March 2016 (\$)						
Transmission						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
560	Operation Supervision and Engineering	490	-	490	-	-
561	Load Dispatching	31,153	38,319	31,153	38,319	113,534
562	Station Expenses	2,417	-	2,417	-	-
563	Overhead Lines Expenses	4,204	-	4,204	-	-
565	Transmission of Electricity by Others	1,254,118	1,881,590	1,254,118	1,881,590	7,912,360
566	Miscellaneous Transmission Expenses	5,809	28,942	5,809	28,942	120,490
567	Rents	-	-	-	-	-
568	Maintenance Supervision and Engineering	4,783	2,356	4,783	2,356	11,263
569	Maintenance of Structures	6,971	5,895	6,971	5,895	22,815
570	Maintenance of Station Equipment	2,843	762	2,843	762	3,047
571	Maintenance of Overhead Lines	14,722	(25,182)	14,722	(25,182)	(104,906)
572	Maintenance of Underground Lines	-	-	-	-	-
573	Maintenance of Miscellaneous Transmission Plant	6	-	6	-	-
575	Market Administration, Monitoring & Compliance Services	-	6,650	-	6,650	20,035
Transmission Total		1,327,515	1,939,332	1,327,515	1,939,332	8,098,638
Distribution						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
580	Operation Supervision and Engineering	154	-	154	-	-
581	Load Dispatching	-	-	-	-	-
582	Station Expenses	6,235	-	6,235	-	-
583	Overhead Line Expenses	56,471	-	56,471	-	-
584	Underground Line Expenses	36,873	135,703	36,873	135,703	549,945
586	Meter Expenses	13,091	18,833	13,091	18,833	83,916
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	(223,005)	178,367	(223,005)	178,367	760,794
589	Rents	84,951	79,747	84,951	79,747	318,986
590	Maintenance Supervision and Engineering	17,913	21,055	17,913	21,055	108,672
591	Maintenance of Structures	-	-	-	-	-
592	Maintenance of Station Equipment	265,171	(8,116)	265,171	(8,116)	490,579
593	Maintenance of Overhead Lines	2,530,234	3,457,783	2,530,234	3,457,783	12,525,125
594	Maintenance of Underground Lines	71,713	(2,164)	71,713	(2,164)	(8,657)
595	Maintenance Line Transformer	10,410	-	10,410	-	-
596	Maintenance of Street Lighting and Signal Systems	45,933	-	45,933	-	-
597	Maintenance of Meters	131,259	59,252	131,259	59,252	267,587
598	Maintenance of Miscellaneous Distribution Plant	90,079	31,068	90,079	31,068	120,281
Distribution Total		3,137,482	3,971,526	3,137,482	3,971,526	15,217,228
Penn Power Total		4,464,997	5,910,859	4,464,997	5,910,859	23,315,866

⁷ Budgets are subject to change.

Penelec						
T&D O&M – 1Q / YTD March 2016 (\$)						
Transmission						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
560	Operation Supervision and Engineering	11,165	4,138	11,165	4,138	18,384
561	Load Dispatching	123,250	341,030	123,250	341,030	1,410,677
562	Station Expenses	43,499	-	43,499	-	-
563	Overhead Lines Expenses	363,680	276,436	363,680	276,436	355,969
565	Transmission of Electricity by Others	4,561,547	4,432,620	4,561,547	4,432,620	17,928,442
566	Miscellaneous Transmission Expenses	135,983	258,488	135,983	258,488	1,105,164
567	Rents	982,971	824,073	982,971	824,073	3,344,046
568	Maintenance Supervision and Engineering	316,065	328,090	316,065	328,090	1,457,226
569	Maintenance of Structures	89,744	28,236	89,744	28,236	109,605
570	Maintenance of Station Equipment	424,240	80,218	424,240	80,218	428,628
571	Maintenance of Overhead Lines	1,633,730	2,132,007	1,633,730	2,132,007	10,257,981
572	Maintenance of Underground Lines	-	-	-	-	-
573	Maintenance of Miscellaneous Transmission Plant	1,456	-	1,456	-	-
575	Market Administration, Monitoring & Compliance Services	(0)	9,636	(0)	9,636	30,918
Transmission Total		8,687,329	8,714,971	8,687,329	8,714,971	36,447,042
Distribution						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
580	Operation Supervision and Engineering	33,393	20,703	33,393	20,703	106,900
581	Load Dispatching	74,799	92,930	74,799	92,930	421,219
582	Station Expenses	95,583	-	95,583	-	-
583	Overhead Line Expenses	19,015	15,163	19,015	15,163	52,827
584	Underground Line Expenses	128,777	127,282	128,777	127,282	789,356
585	Distribution-Street Lighting & Signal System Expenses	-	-	-	-	-
586	Meter Expenses	76,027	156,692	76,027	156,692	723,375
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	2,066,736	1,473,137	2,066,736	1,473,137	7,101,929
589	Rents	446,180	306,851	446,180	306,851	1,227,405
590	Maintenance Supervision and Engineering	78,713	94,052	78,713	94,052	493,177
591	Maintenance of Structures	-	-	-	-	-
592	Maintenance of Station Equipment	980,224	1,635,170	980,224	1,635,170	7,191,895
593	Maintenance of Overhead Lines	4,812,567	4,433,157	4,812,567	4,433,157	19,487,596
594	Maintenance of Underground Lines	240,112	(990)	240,112	(990)	175,254
595	Maintenance Line Transformer	39,037	-	39,037	-	-
596	Maintenance of Street Lighting and Signal Systems	258,442	706,627	258,442	706,627	2,905,519
597	Maintenance of Meters	432,309	432,585	432,309	432,585	1,899,872
598	Maintenance of Miscellaneous Distribution Plant	496,390	140,106	496,390	140,106	563,528
Distribution Total		10,278,306	9,633,466	10,278,306	9,633,466	43,139,852
Penelec Total		18,965,635	18,348,436	18,965,635	18,348,436	79,586,893

Met-Ed						
T&D O&M – 1Q / YTD March 2016 (\$)						
Transmission						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
560	Operation Supervision and Engineering	9,001	4,243	9,001	4,243	19,295
561	Load Dispatching	103,801	404,956	103,801	404,956	1,549,563
562	Station Expenses	25,756	-	25,756	-	-
563	Overhead Lines Expenses	66,147	14,447	66,147	14,447	33,112
565	Transmission of Electricity by Others	3,037,217	4,295,767	3,037,217	4,295,767	17,657,649
566	Miscellaneous Transmission Expenses	129,569	224,623	129,569	224,623	965,756
567	Rents	277,978	208,893	277,978	208,893	835,574
568	Maintenance Supervision and Engineering	248,186	283,017	248,186	283,017	1,257,255
569	Maintenance of Structures	70,347	25,315	70,347	25,315	98,136
570	Maintenance of Station Equipment	635,482	606,872	635,482	606,872	2,658,144
571	Maintenance of Overhead Lines	944,618	891,778	944,618	891,778	5,742,576
572	Maintenance of Underground Lines	123	-	123	-	-
573	Maintenance of Miscellaneous Transmission Plant	70,309	40,637	70,309	40,637	171,572
575	Market Administration, Monitoring & Compliance Services	(0)	11,979	(0)	11,979	39,104
Transmission Total		5,618,534	7,012,530	5,618,534	7,012,530	31,027,737
Distribution						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
580	Operation Supervision and Engineering	5,970	28,741	5,970	28,741	138,032
581	Load Dispatching	51,422	126,259	51,422	126,259	429,836
582	Station Expenses	39,223	144,949	39,223	144,949	635,086
583	Overhead Line Expenses	26,606	20,685	26,606	20,685	37,277
584	Underground Line Expenses	-	144,119	-	144,119	576,477
585	Distribution-Street Lighting & Signal System Expenses	-	-	-	-	-
586	Meter Expenses	117,480	187,041	117,480	187,041	912,550
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	1,224,827	938,249	1,224,827	938,249	4,800,085
589	Rents	145,152	135,218	145,152	135,218	540,873
590	Maintenance Supervision and Engineering	67,624	86,083	67,624	86,083	450,737
591	Maintenance of Structures	827	4,101	827	4,101	19,064
592	Maintenance of Station Equipment	1,194,492	649,907	1,194,492	649,907	3,345,342
593	Maintenance of Overhead Lines	6,751,118	5,168,399	6,751,118	5,168,399	20,575,029
594	Maintenance of Underground Lines	434,422	511,503	434,422	511,503	2,101,516
595	Maintenance Line Transformer	47,211	-	47,211	-	-
596	Maintenance of Street Lighting and Signal Systems	172,638	62,336	172,638	62,336	256,266
597	Maintenance of Meters	468,207	429,240	468,207	429,240	1,808,430
598	Maintenance of Miscellaneous Distribution Plant	450,041	184,330	450,041	184,330	719,375
Distribution Total		11,197,261	8,821,161	11,197,261	8,821,161	37,345,977
Met-Ed Total		16,815,794	15,833,691	16,815,794	15,833,691	68,373,714

**West Penn
 T&D O&M – 1Q / YTD March 2016 (\$)**

Transmission						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
560	Operation Supervision and Engineering	11,678	4,439	11,678	4,439	19,724
561	Load Dispatching	159,429	494,283	159,429	494,283	2,080,358
562	Station Expenses	68,770	390,107	68,770	390,107	1,463,984
563	Overhead Lines Expenses	95,042	-	95,042	-	7,006
565	Transmission of Electricity by Others	11,250,852	7,726,189	11,250,852	7,726,189	30,864,730
566	Miscellaneous Transmission Expenses	42,367	79,451	42,367	79,451	347,235
567	Rents	79,780	65,848	79,780	65,848	263,394
568	Maintenance Supervision and Engineering	105,705	80,083	105,705	80,083	388,602
569	Maintenance of Structures	9,102	21,580	9,102	21,580	83,486
570	Maintenance of Station Equipment	393,642	29,977	393,642	29,977	199,456
571	Maintenance of Overhead Lines	1,506,547	924,811	1,506,547	924,811	5,544,493
572	Maintenance of Underground Lines	(22)	-	(22)	-	-
573	Maintenance of Miscellaneous Transmission Plant	-	-	-	-	-
575	Market Administration, Monitoring & Compliance Services	(251)	-	(251)	-	-
Transmission Total		13,722,642	9,816,766	13,722,642	9,816,766	41,262,469
Distribution						
Category	1Q Actuals	1Q Budget	YTD Actuals	YTD Budget	Annual Budget	
580	Operation Supervision and Engineering	68,130	27,600	68,130	27,600	130,262
581	Load Dispatching	248,294	315,220	248,294	315,220	1,470,338
582	Station Expenses	112,998	329,713	112,998	329,713	1,256,706
583	Overhead Line Expenses	739,876	526,803	739,876	526,803	1,374,063
584	Underground Line Expenses	224,692	243,675	224,692	243,675	974,363
586	Meter Expenses	180,299	188,549	180,299	188,549	1,079,896
587	Customer Installations Expenses	-	-	-	-	-
588	Miscellaneous Distribution Expenses	3,464,728	2,252,643	3,464,728	2,252,643	10,496,974
589	Rents	-	-	-	-	-
590	Maintenance Supervision and Engineering	71,648	84,476	71,648	84,476	444,241
591	Maintenance of Structures	-	-	-	-	-
592	Maintenance of Station Equipment	1,266,910	623,629	1,266,910	623,629	2,919,585
593	Maintenance of Overhead Lines	4,089,466	8,354,698	4,089,466	8,354,698	35,868,603
594	Maintenance of Underground Lines	172,509	242,284	172,509	242,284	728,590
595	Maintenance Line Transformer	18,239	-	18,239	-	-
596	Maintenance of Street Lighting and Signal Systems	275,255	218,621	275,255	218,621	831,979
597	Maintenance of Meters	224,732	386,611	224,732	386,611	1,472,240
598	Maintenance of Miscellaneous Distribution Plant	158,863	141,998	158,863	141,998	551,464
Distribution Total		11,316,641	13,936,519	11,316,641	13,936,519	59,599,305
West Penn Total		25,039,283	23,753,286	25,039,283	23,753,286	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 Expenditures⁸

Penn Power					
T&D Capital – 1Q/YTD March 2016 (\$)					
Category	1Q Actuals	1Q Budget	1Q YTD Actuals	1Q YTD Budget	Annual Budget
Capacity	334,023	36,016	334,023	36,016	751,832
Condition	1,042,606	1,548,690	1,042,606	1,548,690	7,150,119
Facilities	37,388	24,650	37,388	24,650	602,890
Forced	2,942,785	634,018	2,942,785	634,018	3,122,387
Meter Related	153,985	(7,416)	153,985	(7,416)	(29,741)
New Business	1,240,070	383,082	1,240,070	383,082	1,532,307
Other	1,135,544	1,502,034	1,135,544	1,502,034	5,520,456
Reliability	2,061,807	3,483,832	2,061,807	3,483,832	18,597,817
Street Light	1,031,449	7,658	1,031,449	7,658	30,169
Tools & Equipment	(226,491)	121,456	(226,491)	121,456	439,691
Vegetation Management	456,528	947,123	456,528	947,123	3,773,223
Penn Power Total	10,209,695	8,681,143	10,209,695	8,681,143	41,491,149

Penelec					
T&D Capital – 1Q/YTD March 2016 (\$)					
Category	1Q Actuals	1Q Budget	1Q YTD Actuals	1Q YTD Budget	Annual Budget
Capacity	5,667,570	8,416,369	5,667,570	8,416,369	27,883,571
Condition	4,792,706	4,100,082	4,792,706	4,100,082	21,748,193
Facilities	1,381,546	449,920	1,381,546	449,920	3,990,402
Forced	10,679,784	6,656,073	10,679,784	6,656,073	30,242,225
Meter Related	934,244	1,053,977	934,244	1,053,977	4,571,800
New Business	3,035,923	2,396,472	3,035,923	2,396,472	10,288,566
Other	4,796,344	10,451,999	4,796,344	10,451,999	60,570,532
Reliability	3,367,779	4,155,334	3,367,779	4,155,334	17,571,069
Street Light	740,418	515,018	740,418	515,018	2,049,681
Tools & Equipment	532,456	407,325	532,456	407,325	1,538,594
Vegetation Management	4,092,647	4,719,171	4,092,647	4,719,171	21,191,380
Penelec Total	40,021,416	43,321,739	40,021,416	43,321,739	201,646,013

⁸ Budgets are subject to change.

Met-Ed					
T&D Capital – IQ/YTD March 2016 (\$)					
Category	IQ Actuals	IQ Budget	IQ YTD Actuals	IQ YTD Budget	Annual Budget
Capacity	2,414,735	4,838,634	2,414,735	4,838,634	16,592,793
Condition	7,133,388	4,035,404	7,133,388	4,035,404	21,080,001
Facilities	509,549	179,609	509,549	179,609	2,640,989
Forced	8,104,722	5,861,760	8,104,722	5,861,760	26,337,879
Meter Related	670,679	1,224,665	670,679	1,224,665	4,017,105
New Business	3,489,157	2,628,079	3,489,157	2,628,079	15,597,407
Other	(1,025,653)	2,437,708	(1,025,653)	2,437,708	26,337,860
Reliability	2,445,809	3,130,752	2,445,809	3,130,752	12,193,200
Street Light	151,342	95,147	151,342	95,147	403,763
Tools & Equipment	279,181	345,301	279,181	345,301	1,281,871
Vegetation Management	1,202,080	2,511,576	1,202,080	2,511,576	11,280,846
Met-Ed Total	25,374,990	27,288,635	25,374,990	27,288,635	137,763,715

West Penn					
T&D Capital – IQ/YTD March 2016 (\$)					
Category	IQ Actuals	IQ Budget	IQ YTD Actuals	IQ YTD Budget	Annual Budget
Capacity	2,844,013	3,448,027	2,844,013	3,448,027	7,892,506
Condition	3,183,858	2,070,402	3,183,858	2,070,402	9,082,236
Facilities	448,982	196,477	448,982	196,477	3,345,053
Forced	9,030,997	7,098,186	9,030,997	7,098,186	29,427,863
Meter Related	893,966	816,708	893,966	816,708	3,143,581
New Business	7,757,038	6,992,161	7,757,038	6,992,161	28,649,406
Other	3,470,277	5,320,503	3,470,277	5,320,503	21,760,865
Reliability	3,181,743	5,623,463	3,181,743	5,623,463	27,984,215
Street Light	1,228,356	680,267	1,228,356	680,267	3,030,711
Tools & Equipment	717,481	1,198,343	717,481	1,198,343	3,351,261
Vegetation Management	6,954,265	7,796,723	6,954,265	7,796,723	28,833,132
West Penn Total	39,710,976	41,241,260	39,710,976	41,241,260	166,500,829

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

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).⁹

Staffing Levels

Penn Power 2016												
Staffing Level		Staff Added in Quarter				Staff Lost in Quarter			Plan to Hire in 2017 ¹²			
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁰		Retirement	Voluntary Separation	Other ¹¹
Distribution	Line Leader	26						1				
	Line Troubleshooter	11						1			1	
	Lineman	42						1			1	
Substation	Substation Leader	4									1	
	Substation Employee	14						1	1		1	
Transmission	Line Leader	1										
	Lineman	4									1	
	Total	102						4	1		5	

⁹ 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.

¹⁰ Includes transfers, promotions, and promotions within a position.

¹¹ Includes transfers, involuntary separations, promotions, and promotions within a position.

¹² Hiring plan to be provided annually in the 4Q report.

Penelec 2016												
Department	Position	Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2017 ¹⁵
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹³	Retirement	Voluntary Separation	Other ¹⁴	
Distribution	Line Leader	81						3	4		2	
	Line Troubleshooter	63						3		1	1	
	Lineman	105						1			5	
Substation	Substation Leader	3										
	Substation Employee	63						3	2		2	
Transmission	Line Leader	2										
	Lineman	4										
	Total	321						10	6	1	10	

¹³ Includes transfers, promotions, and promotions within a position.

¹⁴ Includes transfers, involuntary separations, promotions, and promotions within a position.

¹⁵ Hiring plan to be provided annually in the 4Q report.

Met-Ed 2016												
Department	Position	Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire In 2017 ¹⁸
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁶	Retirement	Voluntary Separation	Other ¹⁷	
Distribution	Line Leader	53						1			2	
	Line Troubleshooter	31									1	
	Lineman	124						5			5	
Substation	Substation Leader	9										
	Substation Employee	59						3			2	
Transmission	Line Leader	1										
	Lineman	3										
	Total	280						9			10	

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.

West Penn 2016												
Department	Position	Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2017 ²¹
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁹	Retirement	Voluntary Separation	Other ²⁰	
Distribution	Line Leader	61						6	1	1	3	
	Line Troubleshooter	65						5	2		2	
	Lineman	74				1		3			7	
Substation	Substation Leader	14						1	1			
	Substation Employee	49									2	
Transmission	Line Leader	1										
	Lineman	1									1	
	Total	265				1		15	4	1	15	

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.

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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APR 29 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Hermitage	W-260	Clark	2,401	66	1	441,501	6,233	2.75	184	2.60	71	0.00
2	Thompson Run	D550	Zelienople	998	43	2	417,391	2,235	2.60	418	2.24	187	0.44
3	Mercer	W-167	Clark	854	45	0	399,833	1,585	2.49	468	1.86	252	0.16
4	Wheatland	W-150	Clark	1,518	7	1	365,254	1,582	2.27	241	1.04	231	0.17
5	Hillcrest	D-322	New Castle	1,128	3	1	351,282	1,143	2.19	311	1.01	307	0.00
6	Knox	D509	Zelienople	960	18	1	284,990	1,364	1.77	297	1.42	209	0.03
7	Enon Valley	D-545	New Castle	1,017	46	0	281,884	1,480	1.76	277	1.46	190	0.00
8	Stoneboro	W-131	Clark	1,422	61	0	281,855	1,797	1.76	198	1.26	157	1.25
9	McDowell	W-120	Clark	1,122	27	0	280,967	1,929	1.76	250	1.72	146	0.14

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

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	2,914	125	0	3,215,768	14,584	5.53	1,104	5.00	220	3.12
2	Madera	00166-22	Philipsburg	2,153	64	0	1,513,707	5,255	2.60	703	2.44	288	5.78
3	Union City	00206-43	Erie	3,754	120	0	1,494,501	9,405	2.57	398	2.51	159	9.90
4	DuBois	00137-23	DuBois	3,057	75	0	1,031,374	8,204	1.77	337	2.68	126	0.60
5	Powell Avenue	00237-31	Erie	1,743	36	1	1,022,355	3,413	1.76	587	1.96	300	4.37
6	French Road	00223-31	Erie	1,575	23	0	936,789	2,994	1.61	595	1.90	313	6.06
7	Hilltop	00048-11	Johnstown	2,275	14	2	906,787	7,456	1.56	399	3.28	122	3.15
8	Erie East	00234-31	Erie	1,008	53	0	902,583	1,675	1.55	895	1.66	539	8.77
9	N Meshoppen Tran	00534-65	Montrose	923	36	0	879,479	2,457	1.51	953	2.66	358	4.00
10	Falls	00297-65	Montrose	796	24	0	833,023	2,405	1.43	1,047	3.02	346	8.08
11	Buffalo Road	00580-31	Erie	1,375	21	2	825,931	4,071	1.42	601	2.96	203	1.54
12	Crown	00319-51	Oil City	1,302	55	1	824,276	3,607	1.42	633	2.77	229	4.44
13	Tiffany	00435-65	Montrose	1,442	30	1	809,940	3,298	1.39	562	2.29	246	13.46
14	Tionesta Jct Sw Sta	00498-51	Oil City	1,089	51	2	792,038	6,405	1.36	727	5.88	124	11.10
15	Grandview	00354-51	Oil City	549	28	2	769,479	2,280	1.32	1,402	4.15	337	4.12
16	Tunkhannock	00533-65	Montrose	1,223	55	1	732,121	2,424	1.26	599	1.98	302	23.14
17	Tower 51	00051-11	Johnstown	576	17	0	690,694	1,960	1.19	1,199	3.40	352	7.44
18	Bradford South	00106-42	Bradford	1,089	33	0	683,234	3,257	1.17	627	2.99	210	0.46
19	Philipsburg	00162-22	Philipsburg	3,362	103	0	679,335	11,757	1.17	202	3.50	58	5.13
20	Boyer	00584-31	Erie	1,681	26	2	661,656	5,485	1.14	394	3.26	121	5.41
21	Rolling Meadows	00310-31	Erie	4,325	39	0	623,287	5,337	1.07	144	1.23	117	0.49
22	Russell Hill	00282-65	Montrose	1,107	69	0	622,463	2,977	1.07	562	2.69	209	3.32
23	Birmingham	00168-22	Philipsburg	1,072	45	0	605,719	4,055	1.04	565	3.78	149	0.99
24	North Warren	00207-41	Warren	1,377	65	0	601,980	3,114	1.04	437	2.26	193	0.89
25	East Pike	00095-13	Indiana	3,254	26	2	586,546	11,270	1.01	180	3.46	52	2.87
26	Marienville	00328-51	Oil City	1,200	42	1	582,097	4,636	1.00	485	3.86	126	10.72
27	East Pike	00096-13	Indiana	2,612	23	2	575,788	5,352	0.99	220	2.05	108	0.00
28	Green Garden	00224-31	Erie	1,157	33	1	575,083	5,195	0.99	497	4.49	111	0.00
29	Blairsville East	00081-13	Indiana	1,644	35	2	560,700	5,419	0.96	341	3.30	103	22.41
30	Timblin	00103-23	DuBois	736	31	0	554,513	3,368	0.95	753	4.58	165	5.58
31	Grover	00527-63	Mansfield	1,101	62	1	553,744	2,826	0.95	503	2.57	196	13.10
32	French Road	00550-31	Erie	1,541	23	1	548,597	5,506	0.94	356	3.57	100	3.22
33	Brookville	00125-23	DuBois	625	39	0	533,721	4,026	0.92	854	6.44	133	3.81
34	Corry Central	00432-43	Erie	574	3	1	525,653	794	0.90	916	1.38	662	1.99
35	Dixonville East	00098-13	Indiana	762	21	0	514,628	1,684	0.88	675	2.21	306	8.99

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Pincy	00523-51	Oil City	1,192	40	0	497,355	2,771	0.86	417	2.32	179	6.34
37	Cooper	00069-11	Johnstown	641	19	1	474,650	1,119	0.82	740	1.75	424	21.54
38	Somerset	00030-12	Somerset	2,390	34	1	462,025	4,451	0.79	193	1.86	104	1.12
39	Lucerne	00091-13	Indiana	1,812	24	0	455,411	2,723	0.78	251	1.50	167	0.59
40	Eminton	00121-51	Oil City	588	24	1	449,753	1,749	0.77	765	2.97	257	4.02
41	McKean	00411-34	Erie	1,108	48	0	446,660	1,384	0.77	403	1.25	323	14.02
42	Corry East	00247-43	Warren	280	15	2	436,481	1,119	0.75	1,559	4.00	390	13.78
43	Brockway	00127-23	DuBois	850	17	0	421,286	2,657	0.72	496	3.13	159	2.09
44	Shawville	00151-21	Clearfield	2,333	43	1	420,963	8,285	0.72	180	3.55	51	4.63
45	Marienville	00327-51	Oil City	748	29	0	419,766	975	0.72	561	1.30	431	2.74
46	Saxton	00625-73	Altoona	1,308	32	0	418,434	3,214	0.72	320	2.46	130	3.29
47	Fairview East	00218-34	Erie	1,030	31	0	384,893	3,034	0.66	374	2.95	127	2.31
48	East Hickory	00200-41	Warren	464	18	0	383,210	677	0.66	826	1.46	566	19.98
49	DuBois Central	00119-23	DuBois	1,334	30	0	374,416	2,608	0.64	281	1.96	144	1.18
50	Brookville West	00121-23	DuBois	722	36	0	372,379	1,809	0.64	516	2.51	206	0.61
51	Bay	00200-11	Johnstown	932	7	1	364,224	1,977	0.63	391	2.12	184	5.15
52	Mercer Pike	00473-52	Meadville	541	17	1	357,145	1,205	0.61	660	2.23	296	7.23
53	Northeast	00592-31	Erie	1,594	47	0	354,548	2,089	0.61	222	1.31	170	10.38
54	Portage	00081-72	Altoona	563	12	1	353,219	997	0.61	627	1.77	354	0.00
55	Greenwood	00041-71	Altoona	1,228	41	0	352,873	2,032	0.61	287	1.65	174	1.00
56	Utica Junction	00331-51	Oil City	654	29	0	340,515	1,233	0.59	521	1.89	276	2.06
57	Boyer	00583-31	Erie	1,686	35	1	333,581	2,830	0.57	198	1.68	118	5.57
58	French Road	00551-31	Erie	869	20	2	331,858	3,438	0.57	382	3.96	97	4.17
59	Utica Junction	00318-51	Oil City	853	35	0	329,682	1,288	0.57	386	1.51	256	4.32
60	Edgewood	00089-13	Indiana	882	22	2	329,469	2,409	0.57	374	2.73	137	2.01
61	Lake Como	00788-65	Montrose	624	28	1	325,781	1,459	0.56	522	2.34	223	33.56
62	Thompson	00442-65	Montrose	657	20	0	324,077	1,125	0.56	493	1.71	288	10.04
63	Gold	00714-63	Mansfield	654	14	0	319,766	2,083	0.55	489	3.19	154	3.85

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	3,741	86	0	1,915,248	8,452	3.45	512	2.26	227	0.00
2	North Bangor	00826-3	Easton	3,176	78	0	1,583,370	6,767	2.85	499	2.13	234	1.02
3	Water Gap	00107-3	Stroudsburg	458	12	1	1,433,595	1,746	2.56	3,130	3.81	821	0.00
4	Swatara Hill	00763-2	Lebanon	1,406	46	2	1,098,687	5,281	1.98	781	3.76	208	14.65
5	Birchwood	00624-3	Stroudsburg	2,118	49	2	1,109,417	7,653	1.91	524	3.61	145	0.95
6	Birdsboro	00756-1	Reading	1,412	67	2	1,022,845	5,225	1.84	724	3.7	196	23.52
7	Flying Hills	00776-1	Reading	1,495	39	2	966,939	8,873	1.73	647	5.94	109	5.57
8	Northwood	00821-3	Easton	1,538	14	1	894,144	4,840	1.61	581	3.15	185	1.53
9	Lynnville	00737-1	Hamburg	1,056	57	2	847,595	4,917	1.53	803	4.66	172	2.00
10	Fox Hill	00816-3	Stroudsburg	3,827	53	1	843,383	6,219	1.52	220	1.63	136	2.68
11	Lickdale station	00626-2	Lebanon	2,065	50	2	1,112,067	10,710	1.50	539	5.19	104	0.00
12	Straban	00676-4	Gettysburg	1,088	38	1	737,293	3,450	1.33	678	3.17	214	2.00
13	Bern Church	00789-1	Reading	1,412	60	0	734,792	2,681	1.32	520	1.9	274	1.00
14	Birdsboro	00757-1	Reading	2,040	50	2	703,333	6,872	1.27	345	3.37	102	3.34
15	Bernville	00787-1	Hamburg	1,811	52	2	667,340	4,248	1.20	368	2.35	157	0.00
16	Birchwood	00622-3	Stroudsburg	1,834	43	1	652,860	4,905	1.18	356	2.67	133	1.43
17	Bath	00873-3	Easton	2,122	51	1	648,623	4,961	1.17	306	2.34	131	0.00
18	Barto	00705-1	Boyetown	2,088	86	0	644,947	3,597	1.16	309	1.72	179	0.00
19	Shawnee	00899-3	Stroudsburg	1,765	59	0	629,299	4,869	1.13	357	2.76	129	0.00
20	Ringing Rocks	00708-1	Boyetown	2,266	47	2	623,413	6,055	1.12	275	2.67	103	3.36
21	Annville station	00741-2	Lebanon	879	31	3	592,933	3,060	1.07	675	3.48	194	17.15
22	Fairview station	00519-4	Hanover	2,538	22	1	587,668	4,622	1.06	232	1.82	127	2.00
23	Painted Sky	00650-1	Reading	1,771	12	1	603,910	4,742	0.99	341	2.68	127	0.00
24	Stouchburg	00758-2	Lebanon	1,070	28	4	548,264	5,401	0.99	512	5.05	102	3.00
25	North Cornwall	00610-2	Lebanon	2,007	51	0	646,829	7,303	0.98	322	3.64	89	4.98
26	State Street	00620-1	Hamburg	879	13	3	579,344	4,453	0.97	659	5.07	130	1.00
27	Flying Hills	00777-1	Reading	1,758	56	1	539,433	6,362	0.95	307	3.62	85	11.11
28	North Lebanon	00712-2	Lebanon	1,925	47	0	626,877	5,200	0.94	326	2.7	121	3.00
29	South Nazareth	00809-3	Easton	3,115	40	1	516,757	4,732	0.93	166	1.52	109	0.00
30	Fox Hill	00850-3	Stroudsburg	740	29	5	472,474	4,838	0.85	638	6.54	98	1.03
31	North Bangor	00813-3	Easton	1,327	32	0	471,238	1,886	0.85	355	1.42	250	0.00
32	Crossroads	00728-4	York	1,153	39	0	444,854	2,035	0.80	386	1.76	219	1.01
33	Spry	00488-4	York	680	13	2	468,774	2,185	0.79	689	3.21	215	2.01
34	Orrtanna	00764-4	Gettysburg	1,673	47	1	436,027	3,619	0.79	261	2.16	120	0.00
35	Grantley	00401-4	York	770	9	2	444,578	2,309	0.78	577	3	193	0.56

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Newberry	00576-4	York	1,787	69	0	423,913	4,956	0.76	237	2.77	86	5.27
37	North Hanover	00509-4	Hanover	1,176	15	2	418,865	3,938	0.75	356	3.35	106	5.98
38	Swatara Hill	00764-2	Lebanon	1,421	38	1	418,052	2,744	0.75	294	1.93	152	6.99
39	Allen	00501-4	Dillsburg	1,973	53	0	407,508	3,539	0.73	207	1.79	115	2.00

West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Kiski Valley Distrib	Kittanning Rd	Arnold	1,799	32	1	1,752,280	5,948	2.47	974	3.31	295
2	Cecil	Bishop	Boyce	1,586	33	0	1,565,381	5,089	2.20	987	3.21	308
3	Westraver	West Newton	Charleroi	1,728	40	1	1,436,374	7,582	2.02	831	4.39	189
4	Vandergrift	Grifflo Park	Arnold	2,726	48	3	1,436,328	10,012	2.02	527	3.67	143
5	Dutch Fork	Claysville	Washington Pa	1,594	61	1	1,338,183	4,637	1.88	840	2.91	289
6	Lagonda	Lagonda	Washington Pa	1,420	35	1	1,162,465	2,153	1.64	819	1.52	540
7	Kanc	Russell City	St Marys	702	27	0	1,107,201	2,597	1.56	1,577	3.70	426
8	Donegal	Champion	Pleasant Valley	1,167	31	2	1,056,991	4,329	1.49	906	3.71	244
9	Amity	Banetown	Washington Pa	1,488	49	0	965,630	3,540	1.36	649	2.38	273
10	Shaffers Corner	Braeburn	Arnold	1,313	34	1	958,399	4,059	1.35	730	3.09	236
11	Rutan	Windridge	Jefferson	519	31	0	957,449	2,785	1.35	1,845	5.37	344
12	Shaffers Corner	Seventh St Rd	Arnold	2,064	28	3	949,617	8,716	1.34	460	4.22	109
13	Gordon	Wolfdale	Washington Pa	2,061	44	1	946,316	3,166	1.33	459	1.54	299
14	Driftwood	Driftwood	St Marys	969	35	1	897,613	3,754	1.26	926	3.87	239
15	Peters	Venetia	Boyce	2,022	27	2	881,379	4,989	1.24	436	2.47	177
16	North Union	Phillips	Uniontown	1,453	29	3	860,478	7,168	1.21	592	4.93	120
17	Piney Fork	Stoltz	Charleroi	2,097	27	2	829,195	4,589	1.17	395	2.19	181
18	Murrycrest	Sardis Road	Jeannette	1,483	44	3	808,169	5,873	1.14	545	3.96	138
19	Midway	Midway	McDonald	948	28	0	801,752	1,739	1.13	846	1.83	461
20	Westraver	Pittsburgh Coal	Charleroi	2,151	26	1	769,676	4,226	1.08	358	1.96	182
21	Cecil	Southpointe	Boyce	511	8	1	749,214	2,760	1.05	1,466	5.40	271
22	Superior	Culmerville	Arnold	1,177	18	2	706,013	2,611	0.99	600	2.22	270
23	South Fayette 138	Abele	Boyce	930	25	2	704,229	3,951	0.99	757	4.25	178
24	Houston	Canonsburg	Washington Pa	1,296	7	2	674,278	3,973	0.95	520	3.07	170
25	Franklin	Rogersville	Jefferson	842	37	1	653,200	2,182	0.92	776	2.59	299
26	Vanceville	Vanceville	Charleroi	1,375	54	0	647,102	2,278	0.91	471	1.66	284
27	Stahlstown	Kreager	Latrobe	283	17	0	630,982	1,406	0.89	2,230	4.97	449
28	Cecil	Muse	Boyce	907	13	1	628,667	1,459	0.88	693	1.61	431
29	Enlow	Summit	McDonald	1,392	12	0	627,825	3,891	0.88	451	2.80	161
30	South Union	Fairchance	Uniontown	2,119	36	2	618,545	4,989	0.87	292	2.35	124
31	Fawn	Bull Creek	Arnold	859	31	2	606,694	3,347	0.85	706	3.90	181
32	Smith	Florence	McDonald	804	34	2	606,308	3,425	0.85	754	4.26	177
33	Houston	Murdock	Washington Pa	2,073	33	2	589,441	5,052	0.83	284	2.44	117
34	Smith	Burgettstown	McDonald	1,891	26	1	550,676	6,766	0.77	291	3.58	81
35	Harwick	Harmar	Arnold	923	19	2	540,465	4,047	0.76	586	4.38	134

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	Bethlen	Laughlontown	Latrobe	1,093	65	0	532,326	1,973	0.75	487	1.81	270
37	Wilcox	Wilcox	St Marys	944	43	0	514,341	1,510	0.72	545	1.60	341
38	Smithton	Fitzhenry	Charleroi	1,128	20	2	513,100	2,549	0.72	455	2.26	201
39	Fort Palmer	West Fairfield	Latrobe	961	49	0	501,569	1,770	0.71	522	1.84	283
40	Piney Fork	Gillhall	Charleroi	2,110	20	1	486,704	3,489	0.68	231	1.65	140

General Note: MAIFI values are not available for West Penn

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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	Hermitage	W-260	<i>Performance was driven by equipment failure (46%), trees off ROW (27%), and forced outage (7%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	May-15	
			Enhanced tree trimming	Complete	Nov-15	
			Repair equipment failure	Complete	Nov-15	
			Conduct thermal scan of circuit	Complete	Feb-16	
2	Thompson Run	D-550	<i>Performance was driven by trees off ROW (75%), lightning (10%), and trees on ROW (7%).</i>			3Q 2015 1Q 2016
			On cycle tree trimming	Complete	Dec-15	
			Repair damage caused by tree	Complete	Mar-16	
			Enhanced tree trimming	To be completed 2016	0%	
3	Mercer	W-167	<i>Performance was driven by lightning (35%), line failure (19%), trees off ROW (18%), and equipment failure (10%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Oct-15	
			On cycle tree trimming	Complete	Nov-15	
			Enhanced tree trimming	Complete	Dec-15	
			Conduct thermal scan of circuit	Complete	Jan-16	
4	Wheatland	W-150	<i>Performance was driven by equipment failure (62%) and lightning (37%).</i>			3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by lightning	Complete	Jun-15	
			Repair equipment failure	Complete	Aug-15	
			Conduct thermal scan of circuit	Complete	Feb-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	Hillcrest	D-322	<i>Performance was driven by object contact with line (97%) and customer equipment (3%).</i>			Aug-15 Aug-15 Feb-16	3Q 2015 4Q 2015 1Q 2016
			The object was removed and associated repairs were made at time of restoration	Complete			
			Repair equipment failure	Complete			
			Conduct thermal scan of circuit	Complete			
6	Knox	D509	<i>Performance was driven by trees off ROW (92%) and lightning (3%).</i>			Jun-15 Nov-15 Feb-16 0%	2Q 2015 3Q 2015 4Q 2015 1Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete			
			On cycle tree trimming	Complete			
			Conduct thermal scan of circuit	Complete			
7	Enon Valley	D-545	<i>Performance was driven by trees off ROW (74%), equipment failure (13%), and lightning (9%).</i>			Jun-15 Jun-15 Feb-16 Feb-16	
			Repair damage caused by tree	Complete			
			Repair damage caused by lightning	Complete			
			Repair equipment failure	Complete			
8	Stoneboro	W-131	<i>Performance was driven by equipment failure (39%), line failure (31%), and trees off ROW (14%).</i>			Jun-15 Jun-15 Aug-15 Nov-15 Dec-15 Feb-16 Mar-16	2Q 2015 3Q 2015 4Q 2015 1Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete			
			Reliability job to install fuses	Complete			
			Repair line failure	Complete			
			Enhanced tree trimming	Complete			
			Repair equipment failure	Complete			
			Conduct thermal scan of circuit	Complete			
Repair line failure	Complete						

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
9	McDowell	W-120	<i>Performance was driven by trees off ROW (65%), trees on ROW (26%), and vehicles (4%).</i>			4Q 2015 1Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jun-15	
			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	

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q2 2015	Q3 2015	Q4 2015	Q1 2016
Hadley	W-195	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%

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 (84%) and line failure (5%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Targeted main line rehab	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Circuit inspection	Complete	Aug-15		
			Repair damage caused by trees	Complete	Sep-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
			On cycle tree trimming	To be completed 2016	0%		
2	Madera	00166-22	<i>Performance was driven by trees off ROW (50%), recloser operation of unknown cause (32%), and line failure (12%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15		
			Circuit inspection	Complete	Jun-15		
			Targeted main line rehab	Complete	Jun-15		
			Repair line failure	Complete	Sep-15		
			On cycle tree trimming	Complete	Nov-15		
			Porcelain cutout replacement	Complete	Dec-15		
			Restored recloser operation of unknown cause - patrol conducted	Complete	Feb-16		
			Restored damage caused by trees during a storm	Complete	Mar-16		
Install fault inductors	To be completed 2016	0%					
3	Union City	00206-43	<i>Performance was driven by lightning (37%), trees off ROW (35%), and equipment failure (6%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by lightning	Complete	May-15		
			Circuit inspection	Complete	Jul-15		
			Repair damage caused by lightning	Complete	Sep-15		
			Porcelain cutout replacement	Complete	Dec-15		
			On cycle tree trimming	To be completed 2016	0%		
			Create circuit tie with Morgan Street substation	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	
4	DuBois	00137-23	<i>Performance was driven by equipment failure (29%), trees off ROW (22%), other (21%), and unknown (18%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Full cycle tree trimming	Complete	May-15		
			Repair equipment failure during a storm	Complete	Jun-15		
			Restore recloser operation of unknown cause	Complete	Jun-15		
			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		
5	Powell Avenue	00237-31	<i>Performance was driven by trees off ROW (90%).</i>				4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15		
			Repair damage caused by trees during a storm	Complete	Jun-15		
			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		
			Add additional protection per circuit coordination	To be completed 2016	0%		
			Circuit inspection	To be completed 2016	0%		
6	French Road	00223-31	<i>Performance was driven by wind (50%) and trees off ROW (42%).</i>				2Q 2015 4Q 2015 1Q 2016
			Porcelain cutout replacement	Complete	Jun-15		
			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		
			Circuit inspection	To be completed 2016	0%		
			On cycle tree trimming	To be completed 2016	0%		
7	Hilltop	00048-11	<i>Performance was driven by equipment failure (50%) and lightning (40%).</i>				3Q 2015 4Q 2015 1Q 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		

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
8	Eric East	00234-31	<i>Performance was driven by trees off ROW (66%), line failure (13%), and wind (11%).</i>			4Q 2015 1Q 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	
9	N Meshoppen Tran	00534-65	<i>Performance was driven by trees off ROW (93%) and line failure (3%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Porcelain cutout replacement	Complete	Dec-15	
			On cycle tree trimming	To be completed 2016	0%	
10	Falls	00297-65	<i>Performance was driven by trees off ROW (57%) and equipment failure (41%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees	Complete	Apr-15	
			Add additional protection per circuit coordination	Complete	Apr-15	
			Repair equipment failure	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Feb-16	
			On cycle tree trimming	To be completed 2016	0%	
Circuit inspection	To be completed 2016	0%				
11	Buffalo Road	00580-31	<i>Performance was driven by line failure (57%) and animals (36%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by animal contact	Complete	Jun-15	
			Repair line failure during a storm	Complete	Sep-15	
12	Crown	00319-51	<i>Performance was driven by trees off ROW (76%) and vehicles (17%).</i>			4Q 2015 1Q 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	0%	
13	Tiffany	00435-65	<i>Performance was driven by trees off ROW (67%) and vandalism (32%).</i>			3Q 2015 4Q 2015 1Q 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	
			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
14	Tionesta Jct Sw Sta	00498-51	<i>Performance was driven by trees off ROW (86%) and recloser operation of unknown cause (3%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 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	
15	Grandview	00354-51	<i>Performance was driven by trees off ROW (97%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15	
			Circuit inspection	To be completed 2016	0%	
16	Tunkhannock	00533-65	<i>Performance was driven by object contact with line (66%), trees off ROW (26%), and equipment failure (6%).</i>			
			Repair equipment failure	Complete	Apr-15	
			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	
17	Tower 51	00051-11	<i>Performance was driven by trees off ROW (40%), animals (30%), and equipment failure (28%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	Apr-15	
			Repair damage caused by animal contact	Complete	May-15	
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Circuit inspection	To be completed 2016	0%	
18	Bradford South	00106-42	<i>Performance was driven by trees off ROW (68%), fuse operation of unknown cause (21%), and other (10%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Jun-15	
			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	

Penelac						
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
19	Philipsburg	00162-22	<i>Performance was driven by equipment failure (71%), lightning (11%), and trees off ROW (9%).</i>			3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by lightning	Complete	Jun-15	
			Repair equipment failure during a storm	Complete	Jul-15	
			Repair equipment failure	Complete	Jul-15	
			Repair equipment failure	Complete	Sep-15	
			Porcelain cutout replacement	Complete	Dec-15	
20	Boyer	00584-31	<i>Performance was driven by trees off ROW (54%), lightning (25%), and equipment failure (13%).</i>			3Q 2015 4Q 2015 1Q 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%	
21	Rolling Meadows	00310-31	<i>Performance was driven by line failure (50%), vehicles (20%), and equipment failure (16%).</i>			
			Circuit inspection	Complete	Jun-15	
			Porcelain cutout replacement	Complete	Jun-15	
			Repair damage caused by vehicle	Completed	Jan-16	
			Repair line failure	Completed	Jan-16	
22	Russell Hill	00282-65	<i>Performance was driven by trees off ROW (52%) and wind (32%).</i>			2Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15	
			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%	
23	Birmingham	0023-51	<i>Performance was driven by trees off ROW (42%), line failure (31%), and vehicles (21%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15	
			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	To be completed 2016	0%	
			On cycle tree trimming	To be completed 2016	0%	
			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
24	North Warren	00207-41	<i>Performance was driven by trees off ROW (81%), line failure (9%), and animals (7%).</i>			4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Repair damage caused by animal contact	Complete	Oct-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
			Repair damage caused by trees	Complete	Mar-16	
25	East Pike	00095-13	<i>Performance was driven by equipment failure (67%) and line failure (17%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	May-15	
			Circuit inspection	Complete	Aug-15	
			Repair line failure	Complete	Sep-15	
			Targeted main line rehab	Complete	Oct-15	
26	Marienville	00328-51	<i>Performance was driven by trees off ROW (80%) and line failure (11%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Apr-15	
			Repair line failure	Complete	Jul-15	
			Circuit inspection	Complete	Aug-15	
			Repair damage caused by trees during a storm	Complete	Nov-15	
			Repair damage caused by trees during a storm	Complete	Feb-16	
27	East Pike	00096-13	<i>Performance was driven by lightning (74%) and vehicles (23%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by lightning	Complete	Jun-15	
			Repair damage caused by vehicle accident	Complete	Jun-15	
			Circuit inspection	Complete	Aug-15	
28	Green Garden	0224-31	<i>Performance was driven by trees off ROW (47%), animals (31%), and equipment failure (13%).</i>			2Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair damage caused by animal contact	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
			On cycle tree trimming	Complete	Nov-15	
			Repair equipment failure during a storm	Complete	Feb-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
29	Blairsville East	00081-13	<i>Performance was driven by equipment failure (42%), line failure (34%), and a breaker operation of unknown cause (15%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure during a storm	Complete	Jun-15	
			Restore breaker operation of unknown cause during a storm	Complete	Jun-15	
			Repair line failure	Complete	Oct-15	
30	Timblin	00103-23	<i>Performance was driven by trees off ROW (72%), equipment failure (11%), and line failure (9%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Repair equipment failure	Complete	Dec-15	
			Repair line failure during a storm	Complete	Mar-16	
			Porcelain cutout replacement	To be completed 2016	0%	
Install new radio controlled switch	To be completed 2016	0%				
31	Grover	00527-63	<i>Performance was driven by a breaker operation of unknown cause (49%), equipment failure (37%), and trees off ROW (8%).</i>			4Q 2015 1Q 2016
			Restore breaker operation of unknown cause during a storm	Complete	Oct-15	
			Repair equipment failure	Complete	Dec-15	
32	French Road	00550-31	<i>Performance was driven by equipment failure (69%) and line failure (20%).</i>			3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Jul-15	
			Repair equipment failure	Complete	Aug-15	
33	Brookville	00125-23	<i>Performance was driven by equipment failure (47%), trees off ROW (27%), and lightning (16%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by lightning	Complete	Jun-15	
			Repair equipment failure	Complete	Jun-15	
			Repair equipment failure	Complete	Oct-15	
			Repair equipment failure	Complete	Feb-16	
Porcelain cutout replacement	To be completed 2016	0%				
34	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
			Repair damage caused by trees during a storm	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	

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
35	Dixonville East	00098-13	<i>Performance was driven by trees off ROW (32%), lightning (17%), vehicles (17%), and equipment failure (11%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair damage caused by lightning	Complete	Jun-15	
			Repair equipment failure during a storm	Complete	Jun-15	
			Repair damage caused by vehicle	Complete	Jan-16	
			On cycle tree trimming	To be completed 2016	0%	
36	Piney	00523-51	<i>Performance was driven by animals (30%), trees off ROW (24%), equipment failure (17%), and a recloser operation of unknown cause (12%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage from animal contact	Complete	May-15	
			On cycle tree trimming	Complete	Jun-15	
			Porcelain cutout replacement	Complete	Nov-15	
			Restore recloser operation of unknown cause	Complete	Feb-16	
37	Cooper	00069-11	<i>Performance was driven by trees off ROW (57%) and line failure (42%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair line failure during a storm	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Jun-15	
38	Somerset	00030-12	<i>Performance was driven by equipment failure (95%).</i>			
			Repair equipment failure	Complete	Apr-15	
			Circuit inspection	To be completed 2016	0%	
39	Lucerne	00091-13	<i>Performance was driven by trees off ROW (85%) and equipment failure (12%). 82% of the outages occurred on one day.</i>			3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure during a storm	Complete	May-15	
			Repair damage caused by trees	Complete	Aug-15	
40	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
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair damage caused by trees during a storm	Complete	Sep-15	
			Porcelain cutout replacement	To be completed 2016	0%	
			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
41	McKean	00411-34	<i>Performance was driven by trees off ROW (81%) and equipment failure (11%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	May-15	
			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	
			Circuit inspection	To be completed 2016	0%	
42	Corry East	00247-43	<i>Performance was driven by trees off ROW (80%) and equipment failure (16%).</i>			3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15	
			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%	
43	Brockway	00127-23	<i>Performance was driven by line failure (54%), trees off ROW (33%), and equipment failure (6%).</i>			4Q 2015 1Q 2016
			Repair damage caused by trees	Complete	Jun-15	
			Repair line failure during a storm	Complete	Nov-15	
			On cycle tree trimming	To be completed 2016	0%	
44	Shawville	00151-21	<i>Performance was driven by trees off ROW (45%), equipment failure (21%), and vehicles (18%).</i>			
			Repair equipment failure during a storm	Completed	Jun-15	
			Repair damage caused by vehicle accident	Complete	Nov-15	
			Repair damage caused by trees during a storm	Complete	Feb-16	
			Targeted circuit rehab	To be completed 2016	0%	
45	Marienville	00327-51	<i>Performance was driven by tree of ROW (91%) and equipment failure (3%).</i>			
			Circuit inspection	Complete	Sep-15	
			On cycle tree trimming	Complete	Sep-15	
			Repair damaged caused by trees during a storm	Complete	Mar-16	
46	Saxton	00625-73	<i>Performance was driven by animals (44%) and equipment failure (41%).</i>			2Q 2015 3Q 2015 1Q 2016
			Repair damage from animal contact	Complete	Jun-15	
			Repair equipment failure	Complete	Jun-15	
			Circuit inspection	Complete	Jul-15	
			Repair damage from animals	Complete	Jan-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	
47	Fairview East	00218-34	<i>Performance was driven by trees off ROW (49%), vehicles (38%), and equipment failure (8%).</i>				
			Repair equipment failure during a storm	Complete	Jun-15		
			Repair damage caused by vehicle accident	Complete	Oct-15		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Feb-16		
			On cycle tree trimming	To be completed 2016	0%		
48	East Hickory	00200-41	<i>Performance was driven by trees off ROW (93%) and equipment failure (6%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15		
			Repair damage caused by trees during a storm	Complete	May-15		
			Repair equipment failure	Complete	Jun-15		
			Circuit inspection	Complete	Aug-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
49	DuBois Central	00119-23	<i>Performance was driven by trees off ROW (73%) and lightning (8%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Oct-15		
			Targeted circuit rehab	To be completed 2016	0%		
50	Brookville West	00121-23	<i>Performance was driven by vehicles (58%) and trees off ROW (27%).</i>				2Q 2015 3Q 2015 1Q 2016
			Repair damage caused by a vehicle	Complete	Apr-15		
			Repair damage caused by trees during a storm	Complete	Feb-16		
			Porcelain cutout replacement	To be completed 2016	0%		
51	Bay	00200-11	<i>Performance was driven by vehicles (75%) and line failure (21%). 73% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Jul-15		
			Repair damage caused by vehicle accident	Complete	Sep-15		
52	Mercer Pike	00473-52	<i>Performance was driven by trees off ROW (91%) and line failure (5%). 85% of the outages occurred on one day.</i>				3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Sep-15		

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	Northeast	00592-31	<i>Performance was driven by trees off ROW (69%), vehicles (17%), and equipment failure (6%).</i>			
			Repair equipment failure during a storm	Complete	Apr-15	
			Repair damage caused by vehicle accident	Complete	Nov-15	
			Repair damaged caused by trees during a storm	Complete	Feb-16	
			On cycle tree trimming	To be completed 2016	0%	
54	Portage	00081-72	<i>Performance was driven by trees off ROW (84%) and a forced outage due to structure fire (16%).</i>			4Q 2015 1Q 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	0%	
55	Greenwood	00041-71	<i>Performance was driven by non-company human error (41%), trees off ROW (36%), and vehicles (11%).</i>			4Q 2015 1Q 2016
			Repair damage caused by non-company human error	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Nov-15	
			Repair damage caused by vehicle accident	Complete	Dec-15	
			Circuit inspection	To be completed 2016	0%	
56	Utica Junction	00331-51	<i>Performance was driven by trees off ROW (77%), line failure (10%), and equipment failure (7%).</i>			4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair line failure	Complete	Oct-15	
			Repair equipment failure	Complete	Nov-15	
57	Boyer	00583-31	<i>Performance was driven by lightning (55%), trees off ROW (23%).</i>			2Q 2015 3Q 2015 4Q 2015
			Circuit inspection	Complete	Jun-15	
			Repair damage caused by lightning	Complete	Jul-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
58	French Road	00551-31	<i>Performance was driven by a breaker operation of unknown cause (56%), trees off ROW (26%), and animals (13%).</i>			4Q 2015 1Q 2016
			Restore breaker operation of unknown cause	Complete	Apr-15	
			Repair damage from animal contact	Complete	Aug-15	
			Repair damage caused by trees	Complete	Nov-15	
			On cycle tree trimming	To be completed 2016	0%	
			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	
59	Utica Junction	00318-51	<i>Performance was driven by line failure (32%), trees off ROW (29%), lightning (26%), and equipment failure (12%).</i>				2Q 2015 3Q 2015 1Q 2016
			Repair line failure during a storm	Complete	Apr-15		
			Repair damage due to lightning strike	Complete	Jun-15		
			Circuit inspection	Complete	Aug-15		
			Repair damage caused by trees during a storm	Complete	Feb-16		
60	Edgewood	00089-13	<i>Performance was driven by trees off ROW (83%) and line failure (10%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Jul-15		
			Circuit inspection	Complete	Jul-15		
			Repair line failure during a storm	Complete	Nov-15		
61	Lake Como	00788-65	<i>Performance was driven by trees off ROW (84%) and equipment failure (13%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	Apr-15		
			Repair damaged caused by trees	Complete	Jul-15		
			Repair damaged caused by trees	Complete	Sep-15		
			Circuit inspection	To be completed 2016	0%		
62	Thompson	00442-65	<i>Performance was driven by equipment failure (53%), line failure (37%), and unknown (6%).</i>				2Q 2015 1Q 2016
			Repair equipment failure	Complete	May-15		
			Repair line failure	Complete	Feb-16		
			Porcelain cutout replacement	To be completed 2016	0%		
63	Gold	00714-63	<i>Performance was driven by equipment failure (49%) and trees off ROW (45%).</i>				
			Repair equipment failure	Complete	Oct-15		
			Repair equipment failure	Complete	Dec-15		
			Repair damage caused by trees during a storm	Complete	Feb-16		
			Circuit inspection	To be completed 2016	0%		

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q2 2015	Q3 2015	Q4 2015	Q1 2016
Belleville	00124-81	X	X	X	
Buffalo Road	00265-31	X	X	X	
East Hickory	00201-41	X	X		
East Sayre	00518-61		X	X	
East Towanda	00525-62	X	X		
Knox	00323-51		X	X	
McConnellstown	00099-82	X	X	X	
Meyersdale North	00022-12	X		X	
Millcreek	00052-11	X	X	X	
Natl Forge Sw Sta	00577-41	X	X		
Page Road	00445-43	X		X	
Punxsutawney	00625-23	X	X		
Ralphon	00014-12		X	X	
Salix	00070-11	X	X	X	
Thompson	00436-65	X	X		
Titusville	00387-51	X	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
East Towanda	00525-62	Porcelain cutout replacement	To be completed 2016	0%
Natl Forge Sw Sta	00577-41	Porcelain cutout replacement	To be completed 2016	0%
Salix	00070-11	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 vehicles (41%) and trees off ROW (39%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Replace poles identified during wood pole inspection	Complete	May-15		
			Perform wood pole inspection	Complete	Jul-15		
			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	To be completed 2016	50%		
			Install additional Supervisory Control and Data Acquisition (SCADA) recloser	To be completed 2016	50%		
			On cycle tree trimming	To be completed 2016	0%		
2	North Bangor	00826-3	<i>Performance was driven by equipment failure (82%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Perform accelerated backbone and three phase circuit assessment	Complete	Jun-15		
			Forestry Zone 1 aerial patrol	Complete	Jul-15		
			Replace capacitor bank	Complete	Aug-15		
			Correct fuse coordination	Complete	Sep-15		
			Perform circuit protection study	Complete	Nov-15		
			Overhead circuit inspection	Complete	Jan-16		
			Upgrade mainline recloser	Complete	Apr-16		
			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%		
3	Water Gap	00107-3	<i>Performance was driven by a single storm (79%).</i>				
			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	
4	Swatara Hill	00763-2	<i>Performance was driven by equipment failure (45%) and trees off ROW (14%). 74% of the outage minutes occurred on four days.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	May-15		
			Poles were replaced and equipment repaired	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Repair damage caused by lightning	Complete	Jul-15		
			Replace pole and repair equipment	Complete	Dec-15		
			Replace pole and repair equipment	Complete	Dec-15		
			Repair equipment failure	Complete	Mar-16		
			Replace pole identified during wood pole inspection	Complete	Mar-16		
Install additional main line recloser	To be completed 2016	75%					
5	Birchwood	00624-3	<i>Performance was driven by vehicles (49%) and trees off ROW (36%).</i>				
			Install sectionalizer	Complete	Oct-15		
			Replace porcelain cutouts on circuit backbone	Complete	Oct-15		
			Upgrade mainline 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	
6	Birdsboro	00756-1	<i>Performance was driven by trees off ROW (66%) and line failure (20%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Proactive every-other-month main line forestry inspection	Complete	Apr-15		
			Targeted tree trimming to improve reliability	Complete	Jun-15		
			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		
			Replace cutout from assessment	To be completed 2016	50%		
			Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	50%		
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	25%		
			Proactive every-other-month main line forestry inspection (March-April time period)	To be completed 2016	0%		
Targeted tree trimming to improve reliability	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
7	Flying Hills	00776-1	<i>Performance was driven by underground line failure (34%), trees off ROW (29%), and trees on ROW (19%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Targeted forestry inspection	Complete	May-15	
			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	
			On cycle tree trimming	To be completed 2016	90%	
			Replace underground cable in Flying Hills underground residential development	To be completed 2016	60%	
			Upgrade main line recloser	To be completed 2016	50%	
Overhead circuit inspection	To be completed 2016	0%				
8	Northwood	00821-3	<i>Performance was driven by a single wind storm (69%).</i>			4Q 2015 1Q 2016
			Forestry Zone 1 aerial patrol	Complete	Jul-15	
			Replace/repair high priority items identified during circuit patrol	Complete	Feb-16	
9	Lynnville	00737-1	<i>Performance was driven by equipment failure (43%) and trees off ROW (33%).</i>			3Q 2015 4Q 2015 1Q 2016
			Replace crossarm from inspection	Complete	Jun-15	
			Replace insulators and repair pole tops from inspection	Complete	Jun-15	
			Replace main line recloser	Complete	Dec-15	
			Replace main line crossarm	To be completed 2016	75%	

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	Fox Hill	00816-3	<i>Performance was driven by forced outages (30%), vehicles (22%), and trees off ROW (22%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Forestry Zone 1 aerial patrol	Complete	Jul-15	
			Install additional Supervisory Control and Data Acquisition (SCADA) switch	Complete	Sep-15	
			Replace fault indicators	Complete	Sep-15	
			Install additional Supervisory Control and Data Acquisition (SCADA) switch	Complete	Sep-15	
			Add Supervisory Control and Data Acquisition (SCADA) control to recloser	Complete	Dec-15	
			Perform accelerated backbone circuit assessment	Complete	Dec-15	
			Replace spacer blocks	Complete	Jan-16	
			Upgrade main line recloser	Complete	Mar-16	
			Post storm forestry inspection	Complete	Apr-16	
			Create circuit ties and loops	To be completed 2016	0%	
			On cycle tree trimming	To be completed 2016	0%	
11	Lickdale	00626-2	<i>Performance was driven by equipment failure (77%) and tree on ROW (11%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Jun-15	
			Circuit inspection	Complete	Sep-15	
			Replace main line recloser	Complete	Feb-16	
			Replace main line recloser	Complete	Feb-16	
Reliability job to install fuses	To be completed 2016	50%				
12	Straban	00676-4	<i>Performance was driven by vehicles (50%), trees off ROW (37%), and equipment failures (8%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Overhead circuit inspection	Complete	Oct-15	
			Install recloser on Taneytown Rd	Complete	Nov-15	
			Replace recloser	To be completed 2016	0%	
			Install recloser	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	Bern Church	00789-1	<i>Performance was driven by equipment failure (28%), vehicles (16%), trees off ROW (11%), and trees on ROW (10%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 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	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	60%	
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	50%	
			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	
14	Birdsboro	00757-1	<i>Performance was driven by trees off ROW (45%), line failure (25%), and trees on ROW (12%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Proactive every-other-month main line forestry inspection	Complete	Apr-15		
			Targeted tree trimming to improve reliability	Complete	Jun-15		
			Targeted forestry inspection	Complete	Jun-15		
			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		
			Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	50%		
			Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	25%		
			Targeted tree trimming to improve reliability	To be completed 2016	0%		
Proactive every-other-month main line forestry inspection (March-April time period)	To be completed 2016	0%					
15	Bernville	00787-1	<i>Performance was driven by an equipment failure during a blizzard (49%) and trees on ROW (33%).</i>				
			Repair equipment failure during blizzard	Complete	Jan-16		
			Three phase forestry inspection	Complete	Mar-16		
			Upgrade main line recloser	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
16	Birchwood	00622-3	<i>Performance was driven by trees off ROW (78%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			On cycle tree trimming	To be completed 2016	0%	
17	Bath	00873-3	<i>Performance was driven by vehicles (71%).</i>			2Q 2015 3Q 2015 1Q 2016
			Replace items identified during circuit assessment	Complete	Aug-15	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Nov-15	
18	Barto	00705-1	<i>Performance was driven by trees on ROW (41%), animals (22%), and trees off ROW (12%).</i>			4Q 2015 1Q 2016
			Proactive main line forestry patrol	Complete	May-15	
			Replace crossarm braces from assessment	Complete	Jun-15	
			Replace switch arrester from assessment	Complete	Oct-15	
			Three phase forestry inspection	Complete	Mar-16	
			On cycle tree trimming	To be completed 2016	50%	
			Upgrade main line recloser	To be completed 2016	50%	
Overhead circuit inspection	To be completed 2016	0%				
19	Shawnee	00899-3	<i>Performance was driven by trees off ROW (62%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 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	To be completed 2016	20%				
20	Ringing Rocks	00708-1	<i>Performance was driven by trees off ROW (81%).</i>			3Q 2015 4Q 2015 1Q 2016
			Targeted forestry inspection	Complete	Oct-15	
			Three phase forestry inspection	Complete	Mar-16	
			Targeted tree trimming to improve reliability	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
21	Annville	00741-2	<i>Performance was driven by trees off ROW (80%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by trees during a storm	Complete	Oct-15	
			On cycle tree trimming	Complete	Nov-15	
			Reliability job to install fuses	Complete	Feb-16	
			Replace recloser	To be completed 2016	50%	
22	Fairview	00519-4	<i>Performance was driven by vehicles (73%) and equipment failure (21%). 70% of the outages were the result of one car pole accident that occurred on October 21, 2015.</i>			4Q 2015 1Q 2016
			Overhead circuit inspection	Complete	Apr-15	
23	Painted Sky	00650-1	<i>Performance was driven by an overhead line failure (57%) and an underground equipment failure (31%).</i>			3Q 2015 4Q 2015 1Q 2016
			Replace pole identified during wood pole inspection	Complete	Apr-15	
			Underground equipment inspection	To be completed 2016	0%	
			Overhead circuit inspection	To be completed 2016	0%	
24	Stouchburg	00758-2	<i>Performance was driven by equipment failure (33%), trees on ROW (28%), and vehicles (23%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 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	0%	
25	North Cornwall	00610-2	<i>Performance was driven by trees off ROW (38%) and non-company object contacting line (26%).</i>			2Q 2015 3Q 2015 1Q 2016
			Replace switch	Complete	Apr-15	
			Install additional main line recloser	Complete	Apr-15	
			Install additional fault indicators	Complete	Jun-15	
			Overhead circuit inspection	Complete	Sep-15	
			Replace high priority items identified during circuit patrol	Complete	Dec-15	
			On cycle tree trimming	To be completed 2016	96%	
			Install additional main line recloser	To be completed 2016	75%	
			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 (55%) and equipment failure (30%).</i>				
			On cycle tree trimming	Complete	Jul-15	3Q 2015	
			Upgrade tie switch	To be completed 2016	50%	4Q 2015	
			Install additional tap fuses	To be completed 2016	10%	1Q 2016	
			Replace main line recloser control	To be completed 2016	10%		
27	Flying Hills	00777-1	<i>Performance was driven by trees off ROW (43%), equipment failure (23%), and trees on ROW (19%).</i>				
			Comprehensive circuit assessment	Complete	Jul-15		
			Install additional main line recloser	Complete	Aug-15		
			Upgrade circuit getaway cables	Complete	Aug-15	3Q 2015	
			Upgrade circuit tie capability	Complete	Aug-15	4Q 2015	
			Upgrade main line conductor	Complete	Aug-15	1Q 2016	
			Three phase forestry inspection	Complete	Mar-16		
			On cycle tree trimming	To be completed 2016	80%		
			Overhead circuit inspection	To be completed 2016	0%		
28	North Lebanon	00712-2	<i>Performance was driven by trees off ROW (58%) and equipment failure (34%).</i>				
			Replace/repair high priority items identified during circuit patrol	Complete	Apr-15	2Q 2015	
			Repair equipment failure	Complete	Jan-16	3Q 2015	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Feb-16	1Q 2016	
29	S. Nazareth	00809-3	<i>Performance was driven by equipment failure (55%) and trees off ROW (28%).</i>				2Q 2015
			Forestry Zone 1 aerial patrol	Complete	Jul-15	3Q 2015 1Q 2016	
30	Fox Hill	00850-3	<i>Performance was driven by trees off ROW (46%), vehicles (24%), and equipment failure (21%).</i>				
			Post storm forestry inspection	Complete	Mar-16		
			Extensive off right-of-way danger tree removal	Complete	Mar-16		
31	North Bangor	00813-3	<i>Performance was driven by vehicles (62%) and equipment failure (21%).</i>				
			Forestry Zone 1 aerial patrol	Complete	Jul-15		
			Cycle tree trimming	Complete	Nov-15	2Q 2015	
			Replace porcelain cutouts on circuit three phase with polymer cutouts	To be completed 2016	80%	4Q 2015	
			Overhead circuit inspection	To be completed 2016	30%	1Q 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	
32	Crossroads	00728-4	<i>Performance was driven by vehicles (40%) and line failure (33%).</i>				
			Forestry to perform off cycle comprehensive circuit tree patrol	Complete	Oct-15		
			Replace poles identified during wood pole inspection	To be completed 2016	0%		
			Overhead circuit inspection	To be completed 2016	0%		
33	Spry	00488-4	<i>Performance was driven by trees off ROW (61%) and equipment failure (33%).</i>				
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Feb-16		
			Mid-cycle backbone and three phase forestry inspection	To be completed 2016	0%		
34	Orrtanna	00764-4	<i>Performance was driven by equipment failure (50%), trees on ROW (28%), and trees off ROW (12%).</i>				4Q 2015 1Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete	May-15		
			On cycle tree trimming	Complete	Dec-15		
35	Grantley	00401-4	<i>Performance was driven by trees off ROW (86%).</i>				
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Feb-16		
			Mid-cycle backbone and three phase forestry inspection	To be completed 2016	0%		
			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	
36	Newberry	00576-4	<i>Performance was driven by trees off ROW (41%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Replace/repair high priority items identified during circuit patrol	Complete	Apr-15		
			Mid-cycle backbone and three phase forestry inspection	Complete	May-15		
			Targeted tree trimming to improve reliability	Complete	Jun-15		
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Aug-15		
			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%		
37	North Hanover	00509-4	<i>Performance was driven by trees off ROW (49%), vehicles (38%), and equipment failure (11%). 49% of the trees off ROW outages occurred during minor storms on June 30 and July 9, 2015.</i>				3Q 2015 4Q 2015 1Q 2016
			The pole damaged by the vehicle accident was replaced and associated repairs were made at time of restoration	Complete	May-15		
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jun-15		
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-15		
			On cycle tree trimming	To be completed 2017 ²²	0%		
38	Swatara Hill	00764-2	<i>Performance was driven by equipment failure (47%) and vehicles (37%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair damage caused by a vehicle	Complete	Jul-15		
			Pole was replaced and equipment repaired	Complete	Sep-15		
			Lockout zone circuit inspection	Complete	Dec-15		

²² Incorrectly reported with a 2016 completion date in the 3rd quarter of 2015.

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
39	Allen	00501-4	<i>Performance was driven by equipment failure (40%), trees off ROW (31%), vehicles (9%), and lighting (8%).</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			The problem tree was removed and associated repairs were made at time of restoration	Complete	May-15	
			Repair damage caused by a vehicle	Complete	Sep-15	
			Overhead circuit inspection	To be completed 2016	0%	

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q2 2015	Q3 2015	Q4 2015	Q1 2016
Allen	00502-4	X	X		
Annville	00743-2	X		X	
Bernville	00786-1	X	X	X	
Birchwood	00623-3	X	X		
Carsonia	00764-1	X	X		
Dillsburg	00749-4	X		X	
Mountain	00740-4	X	X		
Mountain	00744-4	X	X	X	
Newberry	00586-4	X	X		
Saylorsburg	00114-3	X	X		
Shawnee	00860-3	X	X	X	
South Hamb	00741-1		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
Annville	00743-2	Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	0%
Bernville	00786-1	Replace main line crossarms from inspection	To be completed 2016	50%
		Replace recloser	To be completed 2016	0%
Carsonia	00764-1	Install recloser	Complete	Feb-16
Dillsburg	00749-4	Overhead circuit inspection	To be completed 2016	0%
East Tipton	00733-1	Complete circuit reconfiguration	To be completed 2016	25%
Leesport	00811-1	Install additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	0%
Mountain	00744-4	Overhead circuit inspection	Complete	Apr-16
Newberry	00586-4	Replace recloser	To be completed 2016	0%
Shawnee	00822-3	Install additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	0%
Shawnee	00860-3	Replace porcelain side-post insulators on circuit 3 phase with polymer insulators	To be completed 2016	80%
		Install additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	50%
		Install Supervisory Control and Data Acquisition (SCADA) on recloser	To be completed 2016	50%
Schuylkill Ave	00157-1	Complete engineering review for substation upgrade	Complete	Jan-16
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	Replace recloser	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	Kiski Valley Distrib	Kittanning Rd	<i>Performance was driven by trees off ROW (76%) and forced outages (17%). 92% of the outages occurred during minor storms.</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Feb-15	
			Repair equipment failure	Complete	Jan-16	
			Repair line failure	Complete	Mar-16	
			Reliability job to install fuses	To be completed 2016	0%	
2	Cecil	Bishop	<i>Performance was driven by trees off ROW (81%) and forced outages (13%). 81% of the outages occurred during minor storms.</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. Five danger trees found and remediated.	Complete	Jul-15	
			Repair damaged pole	Complete	Mar-16	
			Underground substation exit replacement	To be completed 2016	0%	
3	Westraver	West Newton	<i>Performance was driven by equipment failure (71%) and forced outages (15%). 75% of the outages occurred during minor storms.</i>			3Q 2015 4Q 2015 1Q 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 storm	Complete	Mar-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	
4	Vandergrift	Grifflo Park	<i>Performance was driven by equipment failure (49%) and trees off ROW (46%). 68% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15		
			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%					
5	Dutch Fork	Claysville	<i>Performance was driven by trees off ROW (36%), equipment failure (26%), and unknowns (19%). 56% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 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%					
6	Lagonda	Lagonda	<i>Performance was driven by trees off ROW (88%). 96% of the outages occurred during minor storms.</i>				3Q 2015 4Q 2015 1Q 2016
			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					

West Penn						
Rank	Substation	Circuit	Remedial Actions Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters
7	Kanc	Russell City	<i>Performance was driven by equipment failure (29%), and trees off ROW (61%). 93% of the outages occurred during minor storms.</i>			4Q 2015 1Q 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	
			On cycle tree trimming	To be completed 2016	0%	
8	Donegal	Champion	<i>Performance was driven by trees off ROW (42%), line failure (31%), unknowns (11%), and vehicles (11%). 79% of the outages occurred during minor storms.</i>			3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-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	

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	
9	Amity	Banetown	<i>Performance was driven by trees off ROW (56%), unknowns (26%), and equipment failure (10%). 59% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware issues found. Eight trees found and remediated.	Complete	Jun-15		
			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		
			Targeted line rehab	To be completed 2016	0%		
10	Shaffers Corner	Braeburn	<i>Performance was driven by trees off ROW (69%) and trees on ROW (18%). 63% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Jan-16		
			Repair line failure during a storm	Complete	Jan-16		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Repair damage caused by tree	Complete	Mar-16		
			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%					

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	Rutan	Windridge	<i>Performance was driven by trees off ROW (51%), line failure (27%), and forced outages (11%). 41% of the outages occurred during minor storms.</i>			4Q 2015 1Q 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	
			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%	
12	Shaffers Corner	Seventh St Rd	<i>Performance was driven by trees off ROW (92%). 93% of the outages occurred during minor storms.</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Repair line failure	Complete	Jan-16	
			Repair damage caused by trees during a storm	Complete	Jan-16	
			Repair equipment failure	Complete	Mar-16	
			Enhanced overcurrent protection	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	
13	Gordon	Wolfdale	<i>Performance was driven by trees off ROW (89%). 85% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15		
			Overhead circuit patrol	Complete	Nov-15		
			Repair line failure	Complete	Jan-16		
			Repair equipment failure during a storm	Complete	Feb-16		
			Repair equipment failure	Complete	Mar-16		
			Repair line failure	Complete	Mar-16		
			Repair damage caused by tree	Complete	Mar-16		
			Repair damage caused by a vehicle	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
			Reliability job to install fuses	To be completed 2016	0%		
			On cycle tree trimming	To be completed 2016	0%		
14	Driftwood	Driftwood	<i>Performance was driven by trees off ROW (73%) and unknowns (18%).</i>				3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15		
			Repair damage caused by human error (non-company)	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		
On cycle tree trimming	To be completed 2016	56%					

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	
15	Peters	Venetia	<i>Performance was driven by line failure (43%) and unknowns (40%). 97% of the outages occurred during minor storms.</i>				
			Repair line failure	Complete	Feb-16		
			Repair line failure during a storm	Complete	Mar-16		
			Repair damage caused by a vehicle	Complete	Mar-16		
			Targeted circuit rehab	To be completed 2016	0%		
			Reliability job to install fuses	To be completed 2016	0%		
			Cycle tree trimming	To be completed 2016	0%		
16	North Union	Phillips	<i>Performance was driven by trees off ROW (57%), equipment failure (19%), and unknowns (12%). 80% of the outages occurred during minor storms.</i>				4Q 2015 1Q 2016
			Cycle tree trimming	Complete	Jul-15		
			Repair damage caused by trees during a storm	Complete	Jan-16		
			Targeted circuit rehab	To be completed 2016	0%		
17	Piney Fork	Stoltz	<i>Performance was driven by equipment failure (82%) and line failure (8%). 67% of the outages occurred during minor storms.</i>				4Q 2015 1Q 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%		

West Penn							
Rank	Substation	Circuit	Remedial Actions Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters	
18	Murrycrest	Sardis Road	<i>Performance was driven by trees off ROW (45%) and equipment failure (19%).</i>				2Q 2015 3Q 2015 4Q 2015 1Q 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%		
19	Midway	Midway	<i>Performance was driven by trees off ROW (68%), trees on ROW (14%), and forced outages (9%). 92% of the outages occurred during minor storms.</i>				4Q 2015 1Q 2016
			Zone 1 forestry patrol. Nineteen trees found and remediated.	Complete	Nov-15		
20	Westraver	Pittsburgh Coal	<i>Performance was driven by trees off ROW (41%), line failure (24%), trees on ROW (15%), and forced outages (13%). 61% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Cycle tree trimming	Complete	Dec-15		
			Repair damage caused by tree	Complete	Jan-16		
			Repair equipment failure during a storm	Complete	Feb-16		
			Repair equipment failure	Complete	Mar-16		
			Repair line failure	Complete	Mar-16		
21	Cecil	Southpointe	<i>Performance was driven by line failure (65%) and trees off ROW (33%). 82% of the outages occurred during minor storms.</i>				2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15		
			On cycle tree trimming	Complete	Feb-16		
22	Superior	Clumerville	<i>Performance was driven by equipment failure (51%) and trees off ROW (43%). 69% of the outages occurred during minor storms.</i>				2Q 2015 4Q 2015 1Q 2016
			Repair equipment failure	Complete	Jan-16		
			Repair damage caused by a vehicle	Complete	Jan-16		
			Repair equipment failure	Complete	Mar-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
23	South Fayette 138	Abele	<i>Performance was driven by equipment failure (35%), trees off ROW (22%), line failure (21%), forced outages (12%), and unknowns (9%). 70% of the outages occurred during minor storms.</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			On cycle tree trimming	Complete	Nov-15	
			Repair line failure	Complete	Mar-16	
			Reliability job to install fuses	To be completed 2016	0%	
24	Houston	Canonsburg	<i>Performance was driven by trees off ROW (96%). 82% of the outages occurred during minor storms.</i>			3Q 2015 4Q 2015 1Q 2016
			Overhead circuit patrol	Complete	Nov-15	
			On cycle tree trimming	Complete	Dec-15	
			Repair damage caused by tree	Complete	Mar-16	
			Enhanced overcurrent protection	To be completed 2016	0%	
25	Franklin	Rogersville	<i>Performance was driven by line failure (65%) and forced outages (17%).</i>			3Q 2015 4Q 2015 1Q 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				

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
26	Vanceville	Vanceville	<i>Performance was driven by vehicles (36%), unknowns (22%), trees off ROW (16%), and forced outages (8%).</i>			3Q 2015 4Q 2015 1Q 2016
			Hixon Road tie point	Complete	May-15	
			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	
			Add two additional phases (1 mile) to split customer exposure	To be completed 2016	10%	
			Hardware and coordination rehabilitation	To be completed 2016	10%	
27	Stahistown	Kreager	<i>Performance was driven by trees off ROW (44%), line failure (27%), and trees on ROW (17%). 78% of the outages occurred during minor storms.</i>			4Q 2015 1Q 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	
28	Cecil	Muse	<i>Performance was driven by trees off ROW (81%) and forced outages (14%). 87% of the outages occurred during minor storms.</i>			2Q 2015 3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15	
			Repair equipment failure	Complete	Jan-16	
			Repair equipment failure during storm	Complete	Feb-16	
29	Enlow	Summit	<i>Performance was driven by vehicles (41%), forced outages (33%), and equipment failure (16%).</i>			
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Nov-15	
			Repair damage caused by a vehicle	Complete	Mar-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
30	South Union	Fairchance	<i>Performance was driven by line failure (62%), unknowns (21%), and equipment failure (15%).</i>			4Q 2015 1Q 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%	
31	Fawn	Bull Creek	<i>Performance was driven by trees off ROW (54%), vehicles (26%), and line failure (7%). 70% of the outages occurred during minor storms.</i>			
			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	
			On cycle tree trimming	To be completed 2016	7%	
32	Smith	Florence	<i>Performance was driven by trees off ROW (60%) and unknowns (31%).</i>			
			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	

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	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
			Overhead circuit patrol	Complete	Nov-15		
			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					
34	Smith	Burgettstown	<i>Performance was driven by trees off ROW (34%), vehicles (22%), trees on ROW (19%), and forced outages (13%). 54% of the outages occurred during minor storms.</i>				
			Zone 1 vegetation patrol. Four trees found and remediated.	Complete	Nov-15		
			Repair equipment failure	Complete	Feb-16		
			Repair line failure	Complete	Mar-16		
Repair damage caused by trees during a storm	Complete	Mar-16					
35	Harwick	Harman	<i>Performance was driven by line failure (45%), trees on ROW (31%), and forced outages (15%). 52% of the outages occurred during minor storms.</i>				2Q 2015 1Q 2016
			Zone 1 vegetation patrol. Eighteen trees found and remediated.	Complete	Nov-15		
			Repair line failure	Complete	Feb-16		
			Repair damage caused by tree	Complete	Feb-16		
			Repair damage caused by animal contact	Complete	Mar-16		
			Repair line failure	Complete	Mar-16		
			Repair line failure	Complete	Mar-16		
Repair damage caused by tree	Complete	Mar-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
36	Bethlen	Laughlintown	<i>Performance was driven by trees off ROW (59%), line failure (16%), unknowns (7%), and forced outages (5%). 78% of the outages occurred during minor storms.</i>			
			Repair line 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 animal contact	Complete	Feb-16	
			Repair equipment failure	Complete	Feb-16	
			Repair damaged pole	Complete	Feb-16	
			Repair damage caused by tree	Complete	Feb-16	
			Repair damage caused by trees during a storm	Complete	Feb-16	
			Repair damage caused by tree	Complete	Mar-16	
On cycle tree trimming	To be completed 2016	0%				
37	Wilcox	Wilcox	<i>Performance was driven by trees off ROW (59%), unknowns (18%), forced outages (6%), and equipment failure (5%). 88% of the outages occurred during minor storms.</i>			3Q 2015 4Q 2015 1Q 2016
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jul-15	
			On cycle tree trimming	Complete	Nov-15	
			Repair equipment failure	Complete	Jan-16	
			Repair equipment failure during a storm	Complete	Feb-16	
			Repair damage caused by trees during a storm	Complete	Feb-16	
Repair equipment failure	Complete	Mar-16				
38	Smithton	Fitzhenry	<i>Performance was driven by vehicles (67%), unknowns (19%), and line failure (5%).</i>			2Q 2015 3Q 2015 1Q 2016
			Repair equipment failure	Complete	Jan-16	
			Repair line failure	Complete	Mar-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	
39	Fort Palmer	West Fairfield	<i>Performance was driven by trees off ROW (24%), vehicles (37%), forced outages (12%), and equipment failure (10%).</i>				4Q 2015 1Q 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 tree	Complete	Mar-16		
			Repair equipment failure during a storm	Complete	Mar-16		
			Repair damage caused by trees during a storm	Complete	Mar-16		
Overhead circuit patrol	To be completed 2016	0%					
40	Piney Fork	Gillhall	<i>Performance was driven by trees off ROW (49%), trees on ROW (16%), and line failure (15%). 72% of the outages occurred during minor storms.</i>				
			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					

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	Q2 2015	Q3 2015	Q4 2015	Q1 2016
Butler	Center Ave	X	X		
Cecil	Hendersonville	X	X		
Charleroi	Warner	X	X		
Finleyville	Gastonville		X	X	
Galley	Waterdam	X	X		
Gordon	Tyler	X	X	X	
Hickory	Fort Cherry		X	X	
Hickory	Hickory	X	X	X	
Lake Lynn-Union	Fancy Hill	X	X	X	
North Fayette	Oakdale	X	X		
Piney Fork	Cochran Mill	X	X		
Rutan	Bristoria		X	X	
Weedville	Weedville	X	X		
Westraver	Fellsburg	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
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%
Hickory	Hickory	Reliability job to install fuses	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%
Piney Fork	Cochran Mill	Reliability job to install fuses	To be completed 2016	0%
Rutan	Bristoria	Reliability job to install fuses	To be completed 2016	0%
Waterville	Waterville	Overhead circuit patrol	Complete	Mar-16
		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%

ATTACHMENT C

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

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

	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				
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 1st Quarter 2016 12-Month Rolling²³			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	6	\$-	\$-
Excavated in Tolerance	9	\$18,475	\$12,400
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	-	\$-	\$-
Marked Improperly	4	\$7,493	\$5,831
No Ticket	19	\$44,324	\$16,193
Total	45	\$81,515	\$39,963

Penelec – Third Party Line Hit Incidents 1st Quarter 2016 12-Month Rolling²⁴			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	2	\$-	\$-
Excavated in Tolerance	36	\$70,323	\$23,915
Excavation Inconsistent with Ticket Scope	5	\$7,481	\$3,599
Excavation Prior to Lawful Start Date	1	\$1,243	\$1,243
Expired Ticket	6	\$13,122	\$717
Hand Digging	4	\$2,660	\$2,105
Marked Improperly	14	\$41,232	\$39,922
No Ticket	41	\$66,162	\$45,389
Total	109	\$202,223	\$116,890

²³ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2016.

²⁴ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2016.

Met-Ed – Third Party Line Hit Incidents 1st Quarter 2016 12-Month Rolling²⁵			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	11	\$-	\$-
Excavated in Tolerance	26	\$110,477	\$27,798
Excavation Inconsistent with Ticket Scope	11	\$21,633	\$6,291
Excavation Prior to Lawful Start Date	3	\$3,720	\$2,669
Expired Ticket	3	\$2,832	\$2,701
Hand Digging	-	\$-	\$-
Marked Improperly	7	\$12,363	\$8,720
No Ticket	22	\$57,128	\$11,539
Total	83	\$208,153	\$59,718

West Penn – Third Party Line Hit Incidents 1st Quarter 2016 12-Month Rolling²⁶			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	12	\$978	\$-
Excavated in Tolerance	4	\$6,516	\$2,900
Excavation Inconsistent with Ticket Scope	3	\$9,449	\$-
Excavation Prior to Lawful Start Date	3	\$439	\$439
Expired Ticket	2	\$15,064	\$748
Hand Digging	3	\$6,630	\$3,417
Marked Improperly	9	\$15,057	\$14,405
No Ticket	21	\$35,575	\$15,320
Total	57	\$89,708	\$37,229

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

²⁵ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2016.

²⁶ Data includes line hits closed during the rolling twelve-month reporting period as well as line hits that are still open as of March 31, 2016.

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 1st 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
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Harrisburg, PA 17101

Tanya McCloskey
Office of Consumer Advocate
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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:

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Dated: April 29, 2016



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