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February 1, 2016

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

FEB 01 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU**Re: Joint 4th Quarter 2015 Reliability Report – Metropolitan Edison Company,
Pennsylvania Electric Company, Pennsylvania Power Company and West Penn
Power Company – Public Version**

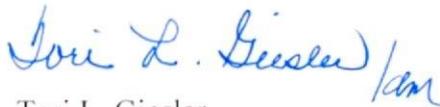
Dear Secretary Chiavetta:

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 4th Quarter 2015 Reliability Report – Public Version ("Joint Report"). Please note that this report contains an addendum seeking modifications to the Companies' currently-effective Inspection and Maintenance Plans. 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)

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 4th Quarter 2015 Reliability Report – :
Metropolitan Edison Company, :
Pennsylvania Electric Company :
Pennsylvania Power Company and West :
Penn Power Company – Public Version :**

CERTIFICATE OF SERVICE

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

Service by first class mail, as follows:

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

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Pennsylvania Public Utility Commission
P.O. Box 3265
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Service by electronic mail, as follows:

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Dated: February 1, 2016


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

PennPower
A FirstEnergy Company

Penelec
A FirstEnergy Company

Met-Ed
A FirstEnergy Company

**WestPenn
Power**
A FirstEnergy Company



Joint 2015 4th 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)

**Joint 4th Quarter 2015 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 December 31, 2015.

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

4Q 2015 (12-Mo Rolling)	Penn Power			Penelec			Met-Ed			West Penn Power		
	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	1.14	1.26	1.52	1.36	1.15	1.38	1.19	1.05	1.26	1.17
CAIDI	101	121	100 ²	117	141	140	117	140	113 ³	170	204	154 ⁴
SAIDI	113	162	114	148	213	191	135	194	136	179	257	179 ⁴
MAIFI ⁵			0.64			2.61			1.18			
Customers Served ⁶	159,612			581,832			554,476			709,782		
Number of Sustained Interruptions	2,940			11,487			8,814			11,268		
Customers Affected	181,479			792,673			662,492			827,613		
Customer Minutes	18,211,842			111,191,315			75,171,284			127,282,345		
Number of Customer Momentary Interruptions	102,231			1,521,440			655,993					

² Penn Power achieved better than benchmark performance.

³ Met-Ed achieved better than benchmark performance.

⁴ West Penn Power achieved benchmark performance or better.

⁵ MAIFI values are not available for West Penn Power.

⁶ 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 Power’s rankings of the 5% Worst Performing Circuits are provided in Attachment A to this report.

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

Worst Performing Circuits – Remedial Actions

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

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

Outages by Cause

Outages by Cause – Penn Power

Outage by Cause				
4th Quarter 2015 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Trees off ROW - tree	5,136,802	463	39,046	15.75%
Equipment failure	4,842,420	405	46,004	13.78%
Animal	646,878	377	7,347	12.82%
Lightning	1,852,006	308	16,767	10.48%
Line failure	1,918,499	296	13,282	10.07%
Bird	231,782	284	2,813	9.66%
Trees off ROW - limb	852,379	229	6,149	7.79%
Unknown	678,138	151	14,376	5.14%
Trees - sec/service	66,608	83	319	2.82%
Vehicle	747,461	73	5,910	2.48%
Overload	133,051	63	1,996	2.14%
Previous lightning	21,858	46	205	1.56%
Forced outage	142,846	43	6,073	1.46%
Customer equipment	313,461	23	13,900	0.78%
Human error - non-company	50,473	22	394	0.75%
UG dig-up	22,007	18	209	0.61%
Trees on ROW	42,793	14	495	0.48%
Human error - company	41,673	13	4,484	0.44%
Ice	20,032	10	116	0.34%
Object contact with line	359,712	10	1,246	0.34%
Vandalism	6,358	5	44	0.17%
Fire	79,945	2	240	0.07%
Contamination	61	1	1	0.03%
Other electric utility	4,599	1	63	0.03%
Total	18,211,842	2,940	181,479	100.00%

Proposed Solutions – Penn Power

Penn Power analyzed its reliability performance in order to determine the primary reasons for long duration outages. The following identifies the top outage causes and actions to address these outage causes experienced by Penn Power for the reporting period.

Trees off ROW - tree

Penn Power plans to target approximately 400 miles in 2016. In addition, the enhanced tree removal program focuses on the large number of tree outages that occur primarily as a result of healthy trees falling from outside the ROW. Vegetation management continues to have the most immediate impact on reliability and therefore, Forestry Services reviews the trees off right-of-way (“ROW”) outages over 10,000 customer minutes of interruption (“CMI”) to see if there has been a high frequency of occurrences on the circuit. A patrol of the circuit is conducted to identify trees that need to be trimmed or removed to avoid future outages during the normal maintenance trim. In addition, line and forestry personnel patrol for danger/priority trees as part of their daily work routine. The danger/priority tree program identifies off right-of-way trees that present a hazard to power lines. Under this program all circuits that have had trees off ROW caused outages are prioritized based on customer outage minutes. A patrol of the three-phase backbone of each circuit is performed and foresters work with private property owners to remove any potentially dangerous tree conditions. Enhanced tree trimming takes place in addition to its cycle based vegetation management.

Equipment failure

To reduce the likelihood of equipment failures, Penn Power follows inspection and maintenance practices, such as circuit inspections, pole inspections, selective infrared scanning and others.⁷ These inspections are an important source of information in determining the need for, and prioritizing, repairs. In addition, the Engineering Department 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.

Animal

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 to the items identified above, has developed a plan which contains several initiatives to improve reliability that will occur during the period of 2016-2018. This plan is a combination of existing and accelerated or enhanced projects aimed to enhance reliability, as well as additional new projects to drive further reliability benefits.

⁷ Pursuant to § 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.

1. Installation of circuit ties (loops and sources)

Penn Power will build or upgrade 25 miles of distribution lines to create the circuit ties and loops in 2016. The plan also includes building three new substations. These new substations will provide a new source to feed customers as well as provide additional capacity.

2. Rehabilitation of transmission lines

Rehabilitation of selected transmission lines will help to reduce CAIDI and SAIDI. This rehabilitation will include inspecting approximately 24 miles of transmission lines in 2016 and replacing equipment as necessary. Poles, switches, crossarms, insulators, and braces are examples of equipment that is typically replaced during this type of effort. This project will strengthen Penn Power's 69kV system, therefore decreasing the risk of extended outages affecting a high volume of customers.

3. Installation of SCADA line switches

The plan contains the installation of 30 supervisory control and data acquisition ("SCADA") controlled line switches in 2016. These switches will allow the Distribution Control Center ("DCC") and the Akron Control Center ("ACC") to remotely operate the line switches versus dispatching crews to manually operate them, thereby reducing restoration time, or CAIDI.

Outages by Cause – Penelec

Outage by Cause				
4th Quarter 2015 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	25,261,911	3,124	229,909	27.20%
Unknown	7,481,221	1,584	67,459	13.79%
Trees off ROW - tree	33,683,440	1,205	142,277	10.49%
Animal	3,901,225	1,193	31,294	10.39%
Line failure	13,502,094	942	106,566	8.20%
Forced outage	5,570,413	740	53,276	6.44%
Lightning	5,269,822	604	43,131	5.26%
Trees - sec/service	504,911	378	1,912	3.29%
Trees off ROW - limb	3,912,132	373	26,605	3.25%
Bird	821,963	358	8,992	3.12%
Vehicle	4,041,100	219	28,617	1.91%
Human error - company	2,417,568	134	10,985	1.17%
Trees on ROW	682,932	125	5,837	1.09%
Human error - non-company	856,287	106	10,002	0.92%
Previous lightning	95,423	79	372	0.69%
Overload	582,682	70	11,368	0.61%
UG dig-up	55,395	52	231	0.45%
Other electric utility	196,979	47	1,192	0.41%
Object contact with line	1,141,745	40	3,471	0.35%
Ice	10,704	30	62	0.26%
Customer equipment	89,951	26	3,452	0.23%
Wind	745,247	20	2,362	0.17%
Vandalism	268,676	16	1,236	0.14%
Fire	15,431	9	243	0.08%
Contamination	2,463	6	11	0.05%
Other utility - non electric	27,396	6	127	0.05%
Switching error	52,204	1	1,684	0.01%
Total	111,191,315	11,487	792,673	100.00%

Proposed Solutions – Penelec

Penelec has developed a plan that is designed to target these top outage causes. The plan contains system upgrades as well as a targeted vegetation management component in an attempt to reduce the number of customer interruptions. The following identifies the top outage causes and actions to address these outage causes experienced by Penelec for the reporting period.

Equipment failure

When it comes to equipment failure, cutout failures have been identified as the highest contributor to this outage category. To address this cause, Penelec continues to replace porcelain cutouts with polymer cutouts on the main feed three-phase backbone of circuits. The porcelain cutout replacement component of Penelec's plan is specifically geared towards its 34.5kV system. Installing new cutouts is expected to greatly enhance the reliability of the Company's 34.5kV system and reduce the number of equipment failures that Penelec experiences. Penelec plans to complete 68 circuits in 2016.

To reduce the likelihood of equipment failures, Penelec follows inspection and maintenance practices, such as circuit inspections, pole inspections, selective infrared scanning and others.⁸ Penelec inspects each circuit in its entirety (from substation to meter), including the main three-phase backbone system, on a five-year cycle. Off-cycle inspections are performed based on circuit performance and may include infrared scanning to assist in identification of potential equipment problems.

Unknown

Outage-by-cause analysis is one of the tools used to analyze and develop circuit and system reliability improvement plans. 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 by reliability inspectors.

Trees off ROW – tree

One of the largest contributors to SAIFI, SAIDI and CAIDI are off ROW tree outages attributed to, in particular, healthy trees. In addition to the other vegetation management work that the Company performs, Forestry Services reviews the trees off ROW outages to see if there has been a high frequency of occurrences on the circuit. A patrol of the circuit is conducted to identify dead or diseased trees that need to be trimmed or removed to avoid future outages. In addition, line and forestry personnel patrol for danger/ priority trees as part of their daily work routine. The danger/priority tree inspections identify off right-of-way trees that present a hazard to power lines.

⁸ Pursuant to § 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.

Circuits are then prioritized by customer minutes due to trees off ROW outages. A patrol of the entire circuit is performed and Forestry Services works with private property owners to remove any potentially dangerous tree conditions. This practice has been adopted as part of the Company's normal tree trimming maintenance program. Penelec will accelerate the removal of trees outside the ROW in zones 1 and 2 on nearly 400 miles of its distribution and 34.5kV system in 2016 that typically experience high tree-related SAIFI.⁹

In addition to the items identified above, has developed a plan which contains several initiatives to improve reliability that will occur during the period of 2016-2018. This plan is a combination of existing and accelerated or enhanced projects aimed to enhance reliability, as well as additional new projects to drive further reliability benefits.

1. Targeted circuit rehabilitation

Penelec will target the zone 1 section of two circuits in 2016, primarily on its 34.5kV system, for circuit rehabilitation.¹⁰ When performing circuit rehabilitation, the Company will first conduct an inspection to identify and then replace equipment. Equipment may include poles, switches, crossarms, insulators, braces and cutouts.

2. Sectionalizing and remote SCADA switching control

Remote SCADA controlled switches allow the DCC to remotely operate switches to restore service to customers when an outage occurs. This eliminates the need to dispatch crews to manually operate them and reduces the number of customers affected by an outage, as well as reduces outage durations. Penelec plans to install thirteen SCADA controlled switches in 2016.

⁹ Zone 2 is defined as the three phase conductor and devices after the first protective device.

¹⁰ Zone 1 is defined as the portion of the circuit from the substation breaker to the first protective device.

Outages by Cause – Met-Ed

Outage by Cause				
4th Quarter 2015 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	20,121,093	2,656	186,658	30.13%
Animal	2,736,568	1,241	34,247	14.08%
Unknown	4,482,265	996	67,852	11.30%
Trees off ROW - tree	15,305,051	673	72,045	7.64%
Line failure	6,786,224	542	45,856	6.15%
Trees on ROW	4,239,012	416	21,695	4.72%
Trees off ROW - limb	4,091,501	413	29,990	4.69%
Forced outage	4,615,025	404	83,950	4.58%
Lightning	2,374,493	401	18,298	4.55%
Bird	505,677	325	7,052	3.69%
Vehicle	7,404,078	292	61,485	3.31%
Trees - sec/service	226,561	161	680	1.83%
Human error - non-company	608,256	67	4,851	0.76%
Overload	418,404	49	7,304	0.56%
Previous lightning	236,255	32	1,526	0.36%
Human error - company	155,630	30	7,847	0.34%
Object contact with line	247,068	27	6,395	0.31%
Customer equipment	74,793	23	822	0.26%
UG dig-up	29,657	20	114	0.23%
Fire	61,902	9	610	0.10%
Other electric utility	6,285	8	31	0.09%
Ice	63,775	6	259	0.07%
Switching error	14,892	5	1,241	0.06%
Wind	323,686	5	1,592	0.06%
Contamination	3,310	4	33	0.05%
Other utility - non electric	38,256	4	49	0.05%
Vandalism	637	4	4	0.05%
Call error	930	1	6	0.01%
Total	75,171,284	8,814	662,492	100.00%

Proposed Solutions – Met-Ed

Met-Ed has undertaken several initiatives to improve reliability. These initiatives include the development of an enhanced vegetation management program; installation of fuses, reclosers, SCADA controlled devices, and faulted circuit indicators; and the refinement of partial restoration procedures. The following identifies the top outage causes and actions to address these outage causes experienced by Met-Ed for the reporting period.

Equipment failure

Porcelain cutout failures represent approximately one-third of the equipment failure outages in Met-Ed's territory. To address this cause, Met-Ed continues to replace porcelain cutouts with polymer cutouts as part of the Porcelain Cutout Replacement Program. Met-Ed plans to replace porcelain cutouts in zones 1 and 2 on six circuits in 2016.

To reduce the likelihood of equipment failures, Met-Ed follows inspection and maintenance practices, such as circuit inspections, pole inspections, selective infrared scanning and others.¹¹ Further, distribution circuit protection coordination reviews and the enhanced circuit protection schemes that result will provide isolation of equipment failures and reduce the impact of outages to a smaller number of customers. In addition, the Engineering Department 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.

Unknown

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.

Animal

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.

¹¹ Pursuant to § 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.

In addition to the items identified above, Met-Ed has developed a plan which contains several initiatives to improve reliability on sixteen worst performing circuits that will occur during the period of 2016-2018. This plan is a combination of existing and accelerated or enhanced projects aimed to enhance reliability, as well as additional new projects to drive further reliability benefits.

1. Accelerated and enhanced vegetation management

Met-Ed's enhanced vegetation management program will remove overhang and danger trees in zones 1 and 2, and will also clear cross country rights of way with mowing in zones 1 and 2. This forestry work is in addition to the other vegetation management work that the Company implements, including its routine vegetation management program.

2. Targeted circuit rehabilitation

Targeted circuit rehabilitation will include replacement and installation of crossarms, poles, insulators, switches, and animal guards.

3. SCADA device installations

SCADA devices, designed to limit the number of customers interrupted if a failure occurs, will be installed at intervals along the circuit. These switches will allow the DCC to remotely operate the line switches versus dispatching crews to manually operate them, thereby reducing restoration time. Met-Ed plans to install SCADA devices on eleven circuits in 2016.

4. Circuit ties

Circuit ties will provide an alternate path from which power is provided to customers affected by an outage, thus, reducing long duration outages.

Outages by Cause – West Penn Power

Outage by Cause				
4th Quarter 2015 12-Month Rolling	West Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
Equipment failure	24,123,882	2,478	163,485	21.99%
Unknown	12,745,233	1,826	102,928	16.21%
Trees off ROW - tree	37,958,947	1,595	145,026	14.16%
Forced outage	10,192,104	1,269	162,065	11.26%
Animal	2,088,177	1,127	21,386	10.00%
Line failure	17,752,042	1,086	81,711	9.64%
Trees off ROW - limb	5,278,315	443	29,382	3.93%
Trees on ROW	5,992,474	416	24,549	3.69%
Vehicle	7,373,652	308	52,532	2.73%
Bird	238,630	220	2,642	1.95%
Trees - sec/service	235,634	197	487	1.75%
Lightning	1,469,376	86	12,209	0.76%
Human error - non-company	760,631	73	10,166	0.65%
Human error - company	174,473	39	11,738	0.35%
UG dig-up	111,995	34	586	0.30%
Object contact with line	163,654	21	1,418	0.19%
Overload	243,977	17	2,561	0.15%
Customer equipment	7,880	10	32	0.09%
Vandalism	170,621	8	1,751	0.07%
Wind	14,565	4	30	0.04%
Fire	2,112	3	8	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%
Other utility - non electric	18,250	2	49	0.02%
Total	127,282,345	11,268	827,613	100.00%

Proposed Solutions – West Penn Power

West Penn Power has implemented several programs to improve overall reliability. These programs include introduction of a new vegetation management program which adopted a more aggressive five-year cycle, establishment of a danger tree program which also includes Emerald Ash Borer mitigation, zone one circuit patrols, subtransmission aerial flyovers and subsequent hardware repairs, and large outage (over 250 customers interrupted) reviews. The following identifies the top outage causes and actions to address these outage causes experienced by West Penn Power for the reporting period.

Equipment failure

Equipment failure outages are addressed by remediating hardware on distribution circuit mainlines, subtransmission hardware items discovered through aerial patrol inspections, installation of subtransmission auto air switches, and substation carbide arrestor replacements. West Penn Power addresses equipment failures using a three-prong approach. The first step is to conduct pole by pole reviews of main line hardware and correct any deficiencies found. The second step is a review of the entire overhead circuit, visiting all locations on a six-year cycle. The third step is conducting an engineering review and root cause analysis of all distribution circuit lockouts. Equipment failures are mitigated through these programs and the resulting follow up corrective actions. In addition, the Engineering Department periodically conducts a multi-operation device review to identify causes and trends of equipment failures and other outage causes. This information is used to determine the need to repair or replace facilities.

Equipment failure-caused outages in West Penn Power are comprised primarily of transformers (approximately one-third) and porcelain cutouts (approximately one-fourth). West Penn Power continues to address these failures by replacing single bushing self-protected transformers with externally-protected transformers and by installing polymer cutouts in all new or replacement locations.

Unknown

There are numerous events, which are typically transient in nature, that result in outages with an unknown cause. Procedures are in place for field personnel to investigate recurring outages on a specific sectionalizing device. Experience has shown that very few of the outage events classified as unknown are recurrent in nature. West Penn Power also employs a root cause analysis process for all circuit lockouts that includes field patrols of all unknown outage causes.

Trees off ROW – tree

Since implementing its new, more aggressive vegetation management program in 2011, West Penn has experienced positive improvements in overall reliability. 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 2 portion of its distribution system from its current five years to a new three-year completion timeline. West Penn Power'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.

In addition to the items identified above, West Penn Power has developed a plan which contains several initiatives to improve reliability that will occur during the period of 2016-2018. This plan is a combination of existing and accelerated or enhanced projects aimed to enhance reliability, as well as additional new projects to drive further reliability benefits.

1. Targeted circuit rehabilitation

West Penn's plan includes a circuit rehabilitation program on approximately 38 circuits in 2016 which will target zones 1 and 2. When performing circuit rehabilitation, the Company will conduct a circuit inspection, identify equipment to replace and then replace the identified equipment. Equipment may include, but is not limited to, poles, switches, crossarms, insulators, braces and cutouts.

2. Enhanced overcurrent protection and SCADA control

West Penn will install new electronic reclosers with SCADA control which will limit the number of customers affected during a lockout and allow remote switching by the DCC to restore customers more quickly. Adding SCADA control to electronic reclosers in select substations with existing SCADA capabilities will provide better monitoring and also allow remote switching by the DCC to restore customers at the circuit level more quickly.

3. Underground getaway replacement

This program will replace approximately ten underground substation exits in 2016 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 will reduce the interruptions to a circuit associated with the cable as well as the long interruption times associated with the replacement.

4. Subtransmission modernization and automation

The installation of SCADA controlled reclosers and switches and automatic air switch modernization will provide enhanced sectionalizing for larger blocks of customers at the substation source level. The SCADA controlled switches will also allow remote switching by the DCC to sectionalize and restore large blocks of customers more quickly, leading to reduced outage durations.

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).

Information is not required for the 4th Quarter report.

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).

Information is not required for the 4th Quarter report.

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).

Information is not required for the 4th Quarter report.

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).¹²

Staffing Levels

Penn Power 2015												
Staffing Level						Staff Added in Quarter			Staff Lost in Quarter			Plan to
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹³	Retirement	Voluntary Separation	Other ¹⁴	Hire in 2016 ¹⁵
Distribution	Line Leader	26	25	25	25							
	Line Troubleshooter	13	11	11	11							
	Lineman	40	42	42	42							
Substation	Substation Leader	5	5	5	5							
	Substation Employee	17	17	16	15	2					3	
Transmission	Line Leader	1	1	1	1							
	Lineman	3	3	2	5	3						
Total		105	104	102	104	5					3	

¹²As 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.

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

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

¹⁵ Although Penn Power may hire externally in 2016, there are no plans to hire externally at this time.

Penelec 2015												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁶	Retirement	Voluntary Separation	Other ¹⁷	Hire in 2016 ¹⁸
Distribution	Line Leader	92	88	86	85			1		1	1	
	Line Troubleshooter	59	62	61	61							
	Lineman	109	109	104	109	6					1	
Substation	Substation Leader	3	3	3	3							
	Substation Employee	67	66	66	64			4	1		5	
Transmission	Line Leader	1	1	1	2			1				
	Lineman	5	5	5	4						1	
	Total	336	334	326	328	6		6	1	1	8	

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

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

¹⁸ Although Penelec may hire externally in 2016, there are no plans to hire externally at this time.

Met-Ed 2015												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2016 ²¹
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁹	Retirement	Voluntary Separation	Other ²⁰	
Distribution	Line Leader	55	55	54	54			1			1	
	Line Troubleshooter	32	33	33	32						1	
	Lineman	125	124	124	124							
Substation	Substation Leader	9	9	9	9							
	Substation Employee	64	62	60	58			1	1		2	
Transmission	Line Leader	1	1	1	1							
	Lineman	3	3	3	3							
Total		289	287	284	281			2	1		4	

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

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

²¹ Although Met-Ed may hire externally in 2016, there are no plans to hire externally at this time.

West Penn Power 2015												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2016
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ²²	Retirement	Voluntary Separation	Other ²³	
Distribution	Line Leader	70	66	65	60			2	2		5	
	Line Troubleshooter ²⁴	N/A	N/A	67	64				1		2	
	Lineman	146	159	84	77	1		4	2	1	9	15
Substation	Substation Leader	14	14	14	14							
	Substation Employee	52	53	53	51			4	2		4	7
Transmission	Line Leader	1	1		1			1				
	Lineman	2	2	1	2			1				
Total		285	295	284	269	1		12	7	1	20	22

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

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

²⁴ New position created in 3Q 2015.

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

This portion of the report is confidential.

Call-out Response

This portion of the report is confidential.

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

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	2,395	59	1	419,414	6,080	2.63	175	2.54	69	0.27
2	Mercer	W-167	Clark	848	45	0	391,520	1,533	2.45	462	1.81	255	0.59
3	Wheatland	W-150	Clark	1,516	6	1	362,606	1,563	2.27	239	1.03	232	0.28
4	Hillcrest	D-322	New Castle	1,127	3	1	351,785	1,147	2.20	312	1.02	307	0.00
5	Hadley	W-195	Clark	906	50	0	304,653	1,537	1.91	336	1.70	198	0.08
6	Seneca	W700	Zelienople	1,063	39	0	292,859	1,855	1.83	276	1.75	158	1.01
7	Knox	D509	Zelienople	975	17	1	285,450	1,361	1.79	293	1.40	210	0.53
8	Stoneboro	W-131	Clark	1,414	51	0	277,812	1,848	1.74	196	1.31	150	0.63
9	McDowell	W-120	Clark	1,035	23	0	276,591	1,863	1.73	267	1.80	148	1.09

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	2,917	108	0	2,894,673	12,055	4.98	992	4.13	240	3.11
2	Union City	00206-43	Erie	3,744	132	0	1,948,734	14,847	3.35	520	3.97	131	5.33
3	French Road	00223-31	Erie	2,132	26	1	1,067,120	5,302	1.83	501	2.49	201	4.54
4	DuBois	00137-23	DuBois	3,097	73	0	1,013,708	8,896	1.74	327	2.87	114	0.64
5	Madera	00166-22	Philipsburg	2,155	68	1	985,454	4,142	1.69	457	1.92	238	6.16
6	Powell Avenue	00237-31	Erie	1,824	33	1	937,414	3,097	1.61	514	1.70	303	4.17
7	Erie East	00234-31	Erie	1,008	54	0	929,794	1,666	1.60	922	1.65	558	5.92
8	Hilltop	00048-11	Johnstown	2,286	16	2	920,344	7,583	1.58	403	3.32	121	2.16
9	Tionesta Jct Sw Sta	00498-51	Oil City	1,077	48	2	909,566	8,203	1.56	845	7.62	111	12.28
10	Grandview	00354-51	Oil City	551	31	3	907,806	2,872	1.56	1,648	5.21	316	2.97
11	N Meshoppen Tran	00534-65	Montrose	964	34	0	903,348	3,216	1.55	937	3.34	281	3.31
12	Buffalo Road	00580-31	Erie	1,407	19	2	823,631	4,043	1.42	585	2.87	204	1.17
13	Crown	00319-51	Oil City	1,304	48	1	809,777	3,471	1.39	621	2.66	233	2.00
14	Falls	00297-65	Montrose	795	26	0	727,828	2,286	1.25	916	2.88	318	0.32
15	Titusville	00387-51	Oil City	622	16	0	688,003	764	1.18	1,106	1.23	901	3.00
16	Tower 51	00051-11	Johnstown	576	22	0	677,751	1,968	1.16	1,177	3.42	344	6.44
17	Boyer	00584-31	Erie	1,624	26	2	664,880	5,495	1.14	409	3.38	121	1.94
18	McKean	00411-34	Erie	1,030	45	1	617,161	2,443	1.06	599	2.37	253	7.56
19	French Road	00550-31	Erie	1,526	26	1	586,976	5,679	1.01	385	3.72	103	3.05
20	DuBois Central	00119-23	DuBois	1,336	28	0	582,614	3,549	1.00	436	2.66	164	1.24
21	East Pike	00096-13	Indiana	2,613	20	2	574,398	5,342	0.99	220	2.04	108	0.00
22	Birmingham	00168-22	Philipsburg	1,071	44	0	570,860	4,003	0.98	533	3.74	143	2.98
23	East Pike	00095-13	Indiana	3,261	25	2	567,330	11,038	0.98	174	3.38	51	2.87
24	Piney	00523-51	Oil City	1,190	41	0	566,223	3,754	0.97	476	3.15	151	0.00
25	Blairsville East	00081-13	Indiana	1,645	32	2	560,300	5,422	0.96	341	3.30	103	11.43
26	Grover	00527-63	Mansfield	1,101	49	1	544,273	2,697	0.94	494	2.45	202	6.12
27	Timblin	00103-23	DuBois	739	31	0	532,362	3,410	0.91	720	4.61	156	5.56
28	Corry Central	00432-43	Erie	574	5	1	526,781	801	0.91	918	1.40	658	0.99
29	Boyer	00583-31	Erie	1,686	33	1	519,275	6,158	0.89	308	3.65	84	2.00
30	Philipsburg	00162-22	Philipsburg	3,364	91	0	506,587	5,442	0.87	151	1.62	93	4.75
31	Millcreek	00052-11	Johnstown	1,045	17	2	495,788	2,845	0.85	474	2.72	174	11.02
32	Cooper	00069-11	Johnstown	680	24	1	493,671	1,710	0.85	726	2.51	289	20.87
33	Meyersdale North	00022-12	Somerset	1,467	28	0	490,359	2,334	0.84	334	1.59	210	3.17
34	Lucerne	00091-13	Indiana	1,775	22	0	457,519	2,729	0.79	258	1.54	168	0.61
35	North Warren	00207-41	Warren	1,378	49	0	454,514	2,766	0.78	330	2.01	164	0.89

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Dixonville East	00098-13	Indiana	764	25	1	453,269	2,036	0.78	593	2.66	223	7.01
37	Green Garden	00224-31	Erie	1,157	23	1	451,576	4,723	0.78	390	4.08	96	0.00
38	Corry East	00247-43	Warren	280	17	2	448,185	1,172	0.77	1,601	4.19	382	0.45
39	Bradford South	00106-42	Bradford	1,087	26	0	430,762	2,388	0.74	396	2.20	180	0.46
40	Brockway	00127-23	DuBois	1,191	18	0	423,184	2,670	0.73	355	2.24	158	1.49
41	East Sayre	00518-61	Towanda	936	24	1	421,794	2,517	0.72	451	2.69	168	2.62
42	Emlenton	00121-51	Oil City	584	29	1	409,626	1,266	0.70	701	2.17	324	1.00
43	Tiffany	00435-65	Montrose	1,597	27	0	393,383	2,171	0.68	246	1.36	181	12.87
44	Brookville	00125-23	DuBois	626	31	0	387,004	2,863	0.67	618	4.57	135	0.86
45	Page Road	00445-43	Erie	652	33	0	384,258	1,687	0.66	589	2.59	228	4.00
46	Knox	00323-51	Oil City	1,321	40	0	380,185	2,558	0.65	288	1.94	149	2.00
47	East Hickory	00200-41	Warren	465	20	0	376,226	646	0.65	809	1.39	582	24.94
48	Buffalo Road	00265-31	Erie	865	13	0	374,476	1,027	0.64	433	1.19	365	1.03
49	McConnellstown	00099-82	Altoona	776	14	3	367,372	2,863	0.63	473	3.69	128	3.37
50	Bay	00200-11	Johnstown	932	8	1	364,494	2,004	0.63	391	2.15	182	0.16
51	Portage	00081-72	Altoona	562	12	1	353,837	1,005	0.61	630	1.79	352	0.00
52	Lake Como	00788-65	Montrose	622	29	1	350,552	1,638	0.60	564	2.63	214	22.61
53	Greenwood	00041-71	Altoona	1,230	43	0	348,392	1,992	0.60	283	1.62	175	1.00
54	Marienville	00328-51	Oil City	1,201	33	0	348,316	2,243	0.60	290	1.87	155	6.00
55	Utica Junction	00331-51	Oil City	655	30	0	340,582	1,264	0.59	520	1.93	269	1.00
56	Mercer Pike	00473-52	Meadville	540	16	1	340,113	1,121	0.58	630	2.08	303	6.09
57	Belleville	00124-81	Lewistown	544	21	2	334,138	1,159	0.57	614	2.13	288	9.86
58	Edgewood	00089-13	Indiana	881	25	2	333,243	2,455	0.57	378	2.79	136	2.02
59	French Road	00551-31	Erie	868	18	2	331,171	3,435	0.57	382	3.96	96	2.17
60	Ralphton	00014-12	Somerset	1,778	45	1	327,315	3,524	0.56	184	1.98	93	12.31
61	South Mansfield	00617-63	Mansfield	476	16	5	324,419	2,992	0.56	682	6.29	108	2.33
62	Salix	00070-11	Johnstown	2,209	35	0	321,686	3,003	0.55	146	1.36	107	1.31
63	Buffalo Road	00201-31	Erie	815	37	0	321,358	1,280	0.55	394	1.57	251	3.62

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Birdsboro	00756-1	Reading	1,412	62	2	1,012,355	5,264	1.83	717	3.73	192	23.52
2	Flying Hills	00776-1	Reading	1,494	33	2	931,380	7,260	1.68	623	4.86	128	3.57
3	Northwood	00821-3	Easton	1,565	16	1	925,566	5,083	1.67	591	3.25	182	1.51
4	Shawnee	00895-3	Stroudsburg	3,735	81	0	878,987	5,803	1.59	235	1.55	151	0.23
5	Lickdale	00626-2	Lebanon	2,068	46	2	819,033	6,435	1.48	396	3.11	127	0.00
6	Fox Hill	00816-3	Stroudsburg	3,818	54	1	817,687	6,642	1.47	214	1.74	123	2.24
7	Swatara Hill	00763-2	Lebanon	1,404	36	1	741,276	2,915	1.34	528	2.08	254	14.67
8	Lynnville	00737-1	Hamburg	1,053	56	1	730,024	3,942	1.32	693	3.74	185	2.01
9	Painted Sky	00650-1	Reading	1,770	13	1	720,319	3,672	1.30	407	2.07	196	1.99
10	Bern Church	00789-1	Reading	1,412	62	0	696,529	2,716	1.26	493	1.92	256	1.00
11	Straban	00676-4	Gettysburg	1,088	36	1	686,648	3,374	1.24	631	3.10	204	2.00
12	Mountain	00744-4	Dillsburg	1,775	54	0	658,480	2,916	1.19	371	1.64	226	0.00
13	Annaville	00741-2	Lebanon	936	32	3	592,760	3,064	1.07	633	3.27	193	15.32
14	Bernville	00786-1	Hamburg	1,821	45	0	592,353	2,740	1.07	325	1.50	216	0.00
15	Birdsboro	00757-1	Reading	2,036	49	1	585,296	4,658	1.06	287	2.29	126	2.96
16	Shawnee	00860-3	Stroudsburg	3,081	54	0	580,643	6,876	1.05	188	2.23	84	3.80
17	Barto	00705-1	Boyertown	2,088	81	0	575,455	3,397	1.04	276	1.63	169	0.00
18	Shawnee	00899-3	Stroudsburg	1,765	57	0	541,953	4,542	0.98	307	2.57	119	0.00
19	Birchwood	00622-3	Stroudsburg	1,832	32	1	539,748	3,772	0.97	295	2.06	143	0.11
20	State Street	00620-1	Hamburg	878	9	2	505,769	2,686	0.91	576	3.06	188	1.00
21	Flying Hills	00777-1	Reading	1,758	52	1	498,688	4,534	0.90	284	2.58	110	11.11
22	Swatara Hill	00764-2	Lebanon	1,424	37	2	473,510	3,985	0.85	333	2.80	119	6.97
23	Fairview	00519-4	Hanover	2,529	21	1	469,459	3,893	0.85	186	1.54	121	3.00
24	Schuylkill Ave	00157-1	Reading	1,431	9	2	453,284	3,984	0.82	317	2.78	114	0.00
25	North Bangor	00813-3	Easton	1,329	28	1	425,680	1,701	0.77	320	1.28	250	0.00
26	Annaville	00743-2	Lebanon	1,162	31	1	425,145	3,159	0.77	366	2.72	135	1.00
27	Windsor	00797-4	York	1,533	52	0	424,294	3,646	0.77	277	2.38	116	7.00
28	South Hamb	00741-1	Hamburg	1,583	35	1	423,998	2,248	0.76	268	1.42	189	0.00
29	Taxville	00575-4	York	2,152	47	2	422,191	8,206	0.76	196	3.81	51	10.97
30	North Hanover	00509-4	Hanover	1,173	13	2	417,537	3,927	0.75	356	3.35	106	6.00
31	North Bangor	00826-3	Easton	3,177	72	0	417,143	4,233	0.75	131	1.33	99	1.02
32	Ringin Rocks	00708-1	Boyertown	2,262	42	1	412,478	3,313	0.74	182	1.46	125	3.01
33	Newberry	00576-4	York	1,785	68	0	409,494	2,922	0.74	229	1.64	140	5.27
34	Violet Hill	00527-4	York	1,117	12	3	394,434	3,533	0.71	353	3.16	112	7.95
35	Orrtanna	00764-4	Gettysburg	1,671	42	1	380,609	3,283	0.69	228	1.96	116	0.00

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
36	Dillsburg	00749-4	Dillsburg	1,799	56	2	376,355	4,305	0.68	209	2.39	87	4.01
37	Angelica	00129-1	Reading	691	23	1	372,181	1,429	0.67	539	2.07	260	0.00
38	Allen	00501-4	Dillsburg	1,910	60	0	352,684	2,533	0.64	185	1.33	139	2.07

West Penn Power												
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	1,801	31	1	1,634,340	5,363	2.30	907	2.98	305
2	Cecil	Bishop	Boyce	1,592	37	0	1,586,490	5,313	2.24	997	3.34	299
3	Vandergrift	Grifflo Park	Arnold	2,723	47	3	1,253,087	9,028	1.77	460	3.32	139
4	Dutch Fork	Claysville	Washington Pa	1,596	65	2	1,252,530	6,655	1.76	785	4.17	188
5	Lagonda	Lagonda	Washington Pa	1,415	36	1	1,170,319	2,173	1.65	827	1.54	539
6	Donegal	Champion	Pleasant Valley	1,166	28	2	1,019,986	4,351	1.44	875	3.73	234
7	Kane	Russell City	St Marys	702	22	0	989,691	1,982	1.39	1,410	2.82	499
8	Westraver	Pittsburgh Coal	Charleroi	2,247	28	1	988,030	7,510	1.39	440	3.34	132
9	Gordon	Wolfdale	Washington Pa	2,061	36	1	954,702	3,706	1.35	463	1.80	258
10	Shaffers Corner	Braeburn	Arnold	1,291	30	1	952,572	4,019	1.34	738	3.11	237
11	Shaffers Corner	Seventh St Rd	Arnold	2,065	25	3	948,627	8,701	1.34	459	4.21	109
12	Piney Fork	Stoltz	Charleroi	2,094	25	2	894,276	4,928	1.26	427	2.35	181
13	Amity	Banetown	Washington Pa	1,491	47	0	851,782	3,117	1.20	571	2.09	273
14	Driftwood	Driftwood	St Marys	969	28	1	818,502	3,089	1.15	845	3.19	265
15	South Union	Fairchance	Uniontown	2,118	46	2	805,162	7,595	1.13	380	3.59	106
16	Midway	Midway	McDonald	951	30	0	802,437	1,743	1.13	844	1.83	460
17	Finleyville	Gastonville	Charleroi	1,585	18	0	794,816	6,063	1.12	501	3.83	131
18	Murrycrest	Sardis Road	Jeannette	1,484	41	3	768,672	5,707	1.08	518	3.85	135
19	Cecil	Southpointe	Boyce	512	8	1	749,214	2,760	1.06	1,463	5.39	271
20	Gordon	Tyler	Washington Pa	1,876	30	3	732,211	7,197	1.03	390	3.84	102
21	Westraver	West Newton	Charleroi	1,728	33	0	690,265	4,354	0.97	399	2.52	159
22	South Fayette 138	Abele	Boyce	928	24	2	687,718	3,872	0.97	741	4.17	178
23	North Union	Phillips	Uniontown	1,456	36	2	686,961	5,983	0.97	472	4.11	115
24	Superior	Culmerville	Arnold	1,174	17	2	684,652	2,535	0.96	583	2.16	270
25	Franklin	Rogersville	Jefferson	846	39	1	656,525	2,329	0.92	776	2.75	282
26	Westraver	Fellsburg	Charleroi	1,106	18	1	638,588	2,604	0.90	577	2.35	245
27	Cecil	Muse	Boyce	876	11	1	623,498	1,427	0.88	712	1.63	437
28	Rutan	Bristoria	Jefferson	1,171	49	0	598,933	1,711	0.84	511	1.46	350
29	Vanceville	Vanceville	Charleroi	1,376	51	0	594,537	2,115	0.84	432	1.54	281
30	Rutan	Windridge	Jefferson	519	22	0	584,344	1,759	0.82	1,126	3.39	332
31	Houston	Murdock	Washington Pa	2,075	29	2	582,982	4,943	0.82	281	2.38	118
32	Houston	Canonsburg	Washington Pa	1,297	7	1	563,268	2,025	0.79	434	1.56	278
33	Lake Lynn-Union	Fancy Hill	Uniontown	941	40	0	560,089	2,209	0.79	595	2.35	254
34	Hickory	Fort Cherry	McDonald	1,014	27	1	552,560	2,305	0.78	545	2.27	240
35	Smithton	Yukon	Charleroi	1,294	36	1	526,846	3,190	0.74	407	2.47	165

General Note: MAIFI values are not available for West Penn Power

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
36	Hickory	Hickory	McDonald	910	63	0	520,516	2,037	0.73	572	2.24	256
37	Stahlstown	Kreager	Latrobe	282	16	0	519,414	906	0.73	1,842	3.21	573
38	Wilcox	Wilcox	St Marys	945	39	0	510,452	1,444	0.72	540	1.53	354
39	Waterville	Waterville	State College	356	14	1	473,032	2,098	0.67	1,329	5.89	225
40	Fort Palmer	West Fairfield	Latrobe	961	45	0	466,948	1,678	0.66	486	1.75	278

General Note: MAIFI values are not available for West Penn Power

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

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

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 trees off ROW (38%), equipment failure (37%), and vehicles (7%).</i>				2Q 2015 3Q 2015 4Q 2015
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-14		
			Repair damage caused by a vehicle	Complete	Nov-14		
			Repair equipment failure	Complete	May-15		
			Enhanced tree trimming	Complete	Nov-15		
			Repair equipment failure	Complete	Nov-15		
2	Mercer	W-167	<i>Performance was driven by lightning (36%), trees off ROW (26%), and equipment failure (9%).</i>				2Q 2015 3Q 2015 4Q 2015
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-14		
			Reliability job to install fuses	Complete	Oct-14		
			Repair line failure	Complete	Dec-14		
			Repair line failure	Complete	Jan-15		
			Repair line failure	Complete	Oct-15		
			On cycle tree trimming	Complete	Nov-15		
			Enhanced tree trimming	Complete	Dec-15		
3	Wheatland	W-150	<i>Performance was driven by equipment failure (62%) and lightning (37%). No significant outages occurred on this circuit during the fourth quarter.</i>				3Q 2015 4Q 2015
			Repair damage caused by lightning	Complete	Jun-15		
			Repair equipment failure	Complete	Aug-15		

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
4	Hillcrest	D-322	<i>Performance was driven by object contact with line (96%) and customer equipment (3%). No significant outages occurred on this circuit during the fourth quarter.</i>			3Q 2015 4Q 2015
			The object was removed and associated repairs were made at time of restoration	Complete	Aug-15	
			Repair equipment failure	Complete	Aug-15	
5	Hadley	W-195	<i>Performance was driven by line failure (36%), trees off ROW (27%), and ice (12%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by vehicle	Complete	Jul-14	
			Repair damage caused by tree	Complete	Nov-14	
			Repair line failure	Complete	Feb-15	
			Conduct thermal scan of circuit	Complete	Mar-15	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	May-15	
			Reliability job to install fuses	Complete	May-15	
			Repair line failure	Complete	Aug-15	
			Repair line failure	Complete	Oct-15	
Enhanced tree trimming	Complete	Nov-15				
6	Seneca	W700	<i>Performance was driven by trees off ROW (44%), lightning (27%), and vehicles (19%).</i>			3Q 2015 4Q 2015
			Repair damage caused by tree	Complete	Feb-15	
			Repair damage caused by tree	Complete	Jun-15	
			Repair damage caused by lightning	Complete	Jun-15	
			Repair damage caused by a vehicle	Complete	Aug-15	
Repair damage caused by tree	Complete	Sep-15				
7	Knox	D509	<i>Performance was driven by trees off ROW (75%) and equipment failure (21%). No significant outages occurred on this circuit during the fourth quarter.</i>			2Q 2015 3Q 2015 4Q 2015
			Repair equipment failure	Complete	Nov-14	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jun-15	
			On cycle tree trimming	Complete	Nov-15	

Penn Power						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters
8	Stoneboro	W-131	<i>Performance was driven by trees off ROW (38%), equipment failure (26%), and line failure (20%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by tree	Complete	Sep-14	
			Reliability job to install fuses	Complete	Nov-14	
			Repair equipment failure	Complete	Jan-15	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jun-15	
			Reliability job to install fuses	Complete	Jun-15	
			Repair line failure	Complete	Aug-15	
			Enhanced tree trimming	Complete	Nov-15	
Repair equipment failure	Complete	Dec-15				
9	McDowell	W-120	<i>Performance was driven by trees off ROW (53%), trees on ROW (11%), and vehicles (10%).</i>			
			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	
	Canal	W-101	<i>Performance was driven by equipment failure (37%) and trees off ROW (21%). No significant outages occurred on this circuit during the fourth quarter.</i>			1Q 2015 2Q 2015
			Repair equipment failure	Complete	Jul-14	
			Repair damage caused by tree	Complete	Sep-14	
			Forestry to trim circuit	Complete	Apr-15	
			Conduct thermal scan of circuit	Complete	Sep-15	
			Enhanced tree trimming	Complete	Nov-15	

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
	Hartstown	W-125	<i>Performance was driven by trees off ROW (76%) and line failure (16%). No significant outages occurred on this circuit during the fourth quarter.</i>			1Q 2015 2Q 2015
			Repair damage caused by tree	Complete	Jul-14	
			Repair damage caused by tree	Complete	Nov-14	
			Reliability job to install fuse	Complete	Dec-14	
			Conduct thermal scan of circuit	Complete	Feb-15	
			Enhanced tree trimming	Complete	Nov-15	
	Jamestown	W-162	<i>Performance was driven by trees off ROW (48%), equipment failure (19%), line failure (18%), and animals (6%). No significant outages occurred on this circuit during the fourth quarter.</i>			1Q 2015 2Q 2015
			Repair line failure	Complete	Jul-14	
			Repair damage caused by tree	Complete	Jul-14	
			Repair equipment failure	Complete	Sep-14	
			Conduct thermal scan of circuit	Complete	Sep-15	
			Enhanced tree trimming	Complete	Nov-15	
	Stoneboro	W-132	<i>Performance was driven by trees off ROW (68%) and line failure (19%).</i>			1Q 2015 2Q 2015
			Repair damage caused by tree	Complete	Sep-14	
			Repair damage caused by tree	Complete	Dec-14	
			Repair line failure	Complete	Feb-15	
			Conduct thermal scan of circuit	Complete	Feb-15	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jun-15	
			On cycle tree trimming	Complete	Nov-15	
			Enhanced tree trimming	Complete	Dec-15	
	Mercer	W-128	<i>Performance was driven by trees off ROW (55%) and line failure (15%).</i>			
			Repair line failure	Complete	Jan-15	
			On cycle tree trimming	Complete	Nov-15	
	Mercer	W-129	<i>Performance was driven by lightning (50%), trees off ROW (11%), animals (10%), and equipment failure (7%).</i>			
			Repair equipment failure	Complete	Aug-14	
			Repair damage caused by tree	Complete	Nov-14	
			Conduct thermal scan of circuit	Complete	Feb-15	
			On cycle tree trimming	Complete	Nov-15	
			Enhanced tree trimming	Complete	Dec-15	

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
	Thompson Run	D-550	<i>Performance was driven by trees off ROW (63%), lightning (19%), and vehicles (11%).</i>			
			Repair damage caused by tree	Complete	Oct-14	
			On cycle tree trimming	Complete	Dec-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	
1	Warren South	00220-41	<i>Performance was driven by trees off ROW (88%) and line failure (6%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14		
			Repair line failure	Complete	Nov-14		
			Repair damage caused by trees during a storm	Complete	Nov-14		
			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	Union City	00206-43	<i>Performance was driven by equipment failure (29%), lightning (28%), and trees off ROW (26%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Restore recloser operation of unknown cause	Complete	Jul-14		
			Repair equipment failure	Complete	Aug-14		
			Repair equipment failure	Complete	Jan-15		
			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%		
3	French Road	00223-31	<i>Performance was driven by wind (42%), trees off ROW (36%), and equipment failure (16%).</i>				1Q 2015 2Q 2015 4Q 2015
			Repair damage caused by trees	Complete	Jul-14		
			Repair equipment failure	Complete	Aug-14		
			Repair equipment failure during a storm	Complete	Feb-15		
			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%		

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 (48%), trees off ROW (23%), vehicles (9%), and recloser operation of unknown cause (9%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by a vehicle	Complete	Mar-15		
			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	Madera	00166-22	<i>Performance was driven by trees off ROW (46%), line failure (28%), and equipment failure (16%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair tree damage	Complete	Jul-14		
			Repair line failure during a storm	Complete	Jan-15		
			Repair equipment failure during a storm	Complete	Jan-15		
			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		
6	Powell Avenue	00237-31	<i>Performance was driven by trees off ROW (98%). 93% of the outages occurred at two locations on the same day.</i>				
			Repair line failure	Complete	Aug-14		
			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%					

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
7	Erie East	00234-31	<i>Performance was driven by trees off ROW (66%), line failure (13%), and wind (11%).</i>			
			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	
8	Hilltop	00048-11	<i>Performance was driven by equipment failure (49%) and lightning (39%).</i>			3Q 2015 4Q 2015
			Repair damage caused by vehicle accident	Complete	Jul-15	
			Repair damage caused by lightning	Complete	Aug-15	
			Repair equipment failure during a storm	Complete	Oct-15	
9	Tionesta Jct Sw Sta	00498-51	<i>Performance was driven by trees off ROW (54%), equipment failure (35%), and a recloser operation of unknown cause (9%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Off right-of-way tree trim identified by circuit patrol	Complete	Sep-14	
			Restore recloser operation of unknown cause	Complete	Jan-15	
			Repair equipment failure	Complete	Mar-15	
			Repair equipment failure	Complete	Mar-15	
			Repair damage caused by trees during a storm	Complete	Jul-15	
			Porcelain cutout replacement	Complete	Sep-15	
			On cycle tree trimming	Complete	Nov-15	
10	Grandview	00354-51	<i>Performance was driven by trees off ROW (79%) and line failure (18%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair damage caused by trees	Complete	Aug-14	
			Repair damage caused by vehicle accident	Complete	Nov-14	
			Repair line failure	Complete	Feb-15	
			Repair damage caused by trees during a storm	Complete	May-15	
			Circuit inspection	To be completed 2016	0%	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters
11	N Meshoppen Tran	00534-65	<i>Performance was driven by trees off ROW (90%) and equipment failure (5%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair equipment failure	Complete	Oct-14	
			Restore fuse after operation from unknown cause	Complete	Nov-14	
			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%	
12	Buffalo Road	00580-31	<i>Performance was driven by line failure (57%) and animals (36%).</i>			2Q 2015 3Q 2015 4Q 2015
			Restore breaker operation of unknown cause	Complete	Sep-14	
			Repair damage caused by animal contact	Complete	Jun-15	
			Repair line failure during a storm	Complete	Sep-15	
13	Crown	00319-51	<i>Performance was driven by trees off ROW (76%) and vehicles (18%).</i>			
			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%	
14	Falls	00297-65	<i>Performance was driven by trees off ROW (48%) and equipment failure (46%).</i>			2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by a tree during a storm	Complete	Jul-14	
			Repair damage caused by trees	Complete	Nov-14	
			Repair damage caused by trees	Complete	Apr-15	
			Add additional protection per circuit coordination	Complete	Apr-15	
			Repair equipment failure	Complete	Jun-15	
			On cycle tree trimming	To be completed 2016	0%	
			Circuit inspection	To be completed 2016	0%	
15	Titusville	00387-51	<i>Performance was driven by trees off ROW (99%). 91% of the outages occurred on one day.</i>			2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	May-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	
16	Tower 51	00051-11	<i>Performance was driven by trees off ROW (38%), animals (30%), and equipment failure (29%).</i>				2Q 2015 3Q 2015 4Q 2015
			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%		
17	Boyer	00584-31	<i>Performance was driven by trees off ROW (54%), lightning (25%), and equipment failure (13%).</i>				3Q 2015 4Q 2015
			Repair damage caused by trees	Complete	Nov-14		
			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%		
18	McKean	00411-34	<i>Performance was driven by trees off ROW (58%) and line failure (29%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair equipment failure	Complete	Sep-14		
			Repair damage caused by animal contact	Complete	Oct-14		
			Repair line failure	Complete	Jan-15		
			Repair damage caused by trees	Complete	Mar-15		
			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%		
19	French Road	00550-31	<i>Performance was driven by equipment failure (71%) and line failure (19%).</i>				3Q 2015 4Q 2015
			Repair equipment failure	Complete	Dec-14		
			Repair line failure	Complete	Jul-15		
			Repair equipment failure	Complete	Aug-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	
20	DuBois Central	00119-23	<i>Performance was driven by trees off ROW (85%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Restore fuse operation of unknown cause during a storm	Complete	Sep-14		
			Repair damage caused by trees during a storm	Complete	Sep-14		
			Repair damage caused by trees during a storm	Complete	Nov-14		
			Repair damage caused by trees	Complete	Feb-15		
			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%		
21	East Pike	00096-13	<i>Performance was driven by lightning (75%) and vehicles (24%).</i>				2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by lightning	Complete	Jun-15		
			Repair damage caused by vehicle accident	Complete	Jun-15		
			Circuit inspection	Complete	Aug-15		
22	Birmingham	00168-22	<i>Performance was driven by line failure (34%), trees off ROW (34%), and vehicles (22%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Restore recloser after operation from unknown cause	Complete	Nov-14		
			Repair line failure	Complete	Jan-15		
			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		
			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	
23	East Pike	00095-13	<i>Performance was driven by equipment failure (69%) and line failure (18%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair line failure	Complete	Aug-14		
			Install additional fault indicators	Complete	Sep-14		
			Repair equipment failure	Complete	Sep-14		
			Repair equipment failure	Complete	Dec-14		
			Repair equipment failure	Complete	May-15		
			Circuit inspection	Complete	Aug-15		
			Repair line failure	Complete	Sep-15		
Targeted main line rehab	Complete	Oct-15					
24	Piney	00523-51	<i>Performance was driven by equipment failure (40%), animals (21%), trees off ROW (16%), and line failure (7%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jun-14		
			Repair line failure	Complete	Feb-15		
			Repair equipment failure during a storm	Complete	Mar-15		
			Repair damage from animal contact	Complete	May-15		
			On cycle tree trimming	Complete	Jun-15		
Porcelain cutout replacement	Complete	Nov-15					
25	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
			Repair line failure	Complete	Jul-14		
			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					
26	Grover	00527-63	<i>Performance was driven by a breaker operation of unknown cause (47%), equipment failure (38%), and trees off ROW (11%).</i>				
			Repair damage caused by trees	Complete	Mar-15		
			Restore breaker operation of unknown cause during a storm	Complete	Oct-15		
Repair equipment failure	Complete	Dec-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
27	Timblin	00103-23	<i>Performance was driven by trees off ROW (79%) and equipment failure (13%).</i>			2Q 2015 3Q 2015 4Q 2015
			Full cycle tree clearing	Complete	Dec-14	
			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	
			Porcelain cutout replacement	To be completed 2016	0%	
			Install new radio controlled switch	To be completed 2016	0%	
28	Corry Central	00432-43	<i>Performance was driven by trees off ROW (99%). 87% of the outages occurred on one day.</i>			
			Repair damage caused by trees during a storm	Complete	Sep-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
29	Boyer	00583-31	<i>Performance was driven by lightning (35%), equipment failure (27%), and trees off ROW (10%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by vehicle	Complete	Aug-14	
			Repair equipment failure	Complete	Jan-15	
			Circuit inspection	Complete	Jun-15	
			Repair damage caused by lightning	Complete	Jul-15	
			Repair damage caused by trees during a storm	Complete	Oct-15	
30	Philipsburg	00162-22	<i>Performance was driven by equipment failure (72%) and lightning (15%).</i>			3Q 2015 4Q 2015
			Repair damage caused by a vehicle	Complete	Oct-14	
			Replace selected deteriorated equipment identified by circuit patrol	Complete	Dec-14	
			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	
31	Millcreek	00052-11	<i>Performance was driven by line failure (71%) and vehicles (23%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Oct-14	
			Repair damage caused by vehicle accident	Complete	Feb-15	
			Repair line failure	Complete	Feb-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
32	Cooper	00069-11	<i>Performance was driven by trees off ROW (55%) and line failure (43%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Full cycle tree trimming	Complete	Jul-14	
			Repair line failure	Complete	Aug-14	
			Circuit inspection	Complete	Aug-14	
			Repair damage caused by wind	Complete	Dec-14	
			Repair line failure during a storm	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Jun-15	
33	Meyersdale North	00022-12	<i>Performance was driven by line failure (85%).</i>			1Q 2015 2Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair line failure during a storm	Complete	Feb-15	
			Repair line failure	Complete	Jul-15	
34	Lucerne	00091-13	<i>Performance was driven by trees off ROW (85%) and equipment failure (12%). 81% of the outages occurred on one day.</i>			3Q 2015 4Q 2015
			Repair equipment failure during a storm	Complete	May-15	
			Repair damage caused by trees	Complete	Aug-15	
35	North Warren	00207-41	<i>Performance was driven by trees off ROW (86%) and animals (10%).</i>			
			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	
36	Dixonville East	00098-13	<i>Performance was driven by trees off ROW (56%), lightning (19%), and equipment failure (12%).</i>			2Q 2015 3Q 2015 4Q 2015
			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	
			On cycle tree trimming	To be completed 2016	0%	
37	Green Garden	0224-31	<i>Performance was driven by trees off ROW (53%) and animals (40%).</i>			1Q 2015 2Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jun-14	
			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	
			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
38	Corry East	00247-43	<i>Performance was driven by trees off ROW (78%) and equipment failure (16%).</i>			3Q 2015 4Q 2015
			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%	
39	Bradford South	00106-42	<i>Performance was driven by trees off ROW (44%), a fuse operation of unknown cause (33%), and vehicles (19%).</i>			2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by vehicle accident	Complete	Jan-15	
			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	
40	Brockway	00127-23	<i>Performance was driven by line failure (54%) and trees off ROW (32%).</i>			
			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%	
41	East Sayre	00518-61	<i>Performance was driven by trees off ROW (46%), equipment failure (29%), and line failure (20%).</i>			3Q 2015 4Q 2015
			Repair equipment failure	Complete	Mar-15	
			Repair line failure	Complete	Jun-15	
			Repair damage caused by trees	Complete	Jul-15	
			Porcelain cutout replacement	Complete	Dec-15	
42	Emlenton	00121-51	<i>Performance was driven by trees off ROW (91%). 91% of the outages occurred on two days.</i>			3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair damage caused by trees during a storm	Complete	Sep-15	
			On cycle tree trimming	To be completed 2016	0%	
43	Tiffany	00435-65	<i>Performance was driven by vandalism (66%), trees off ROW (22%), and line failure (10%).</i>			3Q 2015 4Q 2015
			Repair damage caused by vehicle accident	Complete	Nov-14	
			Repair line failure	Complete	Mar-15	
			Repair damage caused by vandalism	Complete	Jul-15	
			Repair damage caused by trees	Complete	Oct-15	
			Circuit inspection	To be completed 2016	0%	

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters	
44	Brookville	00125-23	<i>Performance was driven by equipment failure (33%), lightning (22%), trees off ROW (20%), and line failure (10%).</i>				2Q 2015 3Q 2015 4Q 2015
			Repair damaged caused by trees	Complete	Aug-14		
			Repair line failure	Complete	Feb-15		
			Repair damage caused by lightning	Complete	Jun-15		
			Repair equipment failure	Complete	Jun-15		
			Repair equipment failure	Complete	Oct-15		
			Porcelain cutout replacement	To be completed 2016	0%		
45	Page Road	00445-43	<i>Performance was driven by equipment failure (52%), trees off ROW (35%), and lightning (8%).</i>				1Q 2015 2Q 2015 4Q 2015
			Repair damage caused by vehicle accident	Complete	Jul-14		
			Repair equipment failure	Complete	Sep-14		
			Repair equipment failure	Complete	Oct-14		
			Repair line failure	Complete	Oct-14		
			Full cycle tree clearing	Complete	Dec-14		
			Repair equipment failure	Complete	Mar-15		
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Circuit inspection	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
46	Knox	00323-51	<i>Performance was driven by trees off ROW (46%), equipment failure (37%), and animals (4%).</i>				1Q 2015 3Q 2015 4Q 2015
			Repair damage caused by trees	Complete	Sep-14		
			Repair damage caused by trees	Complete	Feb-15		
			Repair equipment failure	Complete	Apr-15		
			Repair damage from animal contact	Complete	Sep-15		
			Repair damage caused by trees during a storm	Complete	Nov-15		
47	East Hickory	00200-41	<i>Performance was driven by trees off ROW (93%) and equipment failure (6%).</i>				2Q 2015 3Q 2015 4Q 2015
			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		

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
48	Buffalo Road	00265-31	<i>Performance was driven by vehicles (81%) and equipment failure (12%). 84% of the outages occurred on two days.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair damage caused by vehicle accident	Complete	Jan-15	
			Repair equipment failure	Complete	Jan-15	
			Porcelain cutout replacement	Complete	Nov-15	
49	McConnellstown	00099-82	<i>Performance was driven by a breaker operation of unknown cause (55%) and trees off ROW (38%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair line failure	Complete	Dec-14	
			Restore breaker operation of unknown cause	Complete	Mar-15	
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Circuit inspection	Complete	Aug-15	
50	Bay	00200-11	<i>Performance was driven by vehicles (75%) and line failure (21%). 94% of the outages occurred on two days.</i>			3Q 2015 4Q 2015
			Repair line failure	Complete	Jul-15	
			Repair damage caused by vehicle accident	Complete	Sep-15	
51	Portage	00081-72	<i>Performance was driven by trees off ROW (84%) and a forced outage due to structure fire (16%).</i>			
			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%	
52	Lake Como	00788-65	<i>Performance was driven by trees off ROW (78%) and equipment failure (20%).</i>			2Q 2015 3Q 2015 4Q 2015
			Repair damaged caused by trees during a storm	Complete	Jul-14	
			Repair equipment failure during a storm	Complete	Jul-14	
			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%	
53	Greenwood	00041-71	<i>Performance was driven by non-company human error (41%), trees off ROW (35%), and vehicles (11%).</i>			
			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%	

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
54	Marienville	00328-51	<i>Performance was driven by trees off ROW (67%) and line failure (18%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Full cycle tree trimming	Complete	Sep-14	
			Repair damage caused by trees	Complete	Oct-14	
			Repair damage caused by trees during a storm	Complete	Nov-14	
			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	
55	Utica Junction	00331-51	<i>Performance was driven by trees off ROW (76%), line failure (10%), and equipment failure (7%).</i>			
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair line failure	Complete	Oct-15	
			Repair equipment failure	Complete	Nov-15	
56	Mercer Pike	00473-52	<i>Performance was driven by trees off ROW (96%). 89% of the outages occurred on one day.</i>			3Q 2015 4Q 2015
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Repair damage caused by trees during a storm	Complete	Sep-15	
57	Belleville	00124-81	<i>Performance was driven by vehicles (79%) and line failure (20%). 97% of the outages occurred on two days.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Repair line failure	Complete	Jan-15	
			Repair damage caused by a vehicle	Complete	Jan-15	
			Circuit inspection	Complete	Jun-15	
58	Edgewood	00089-13	<i>Performance was driven by trees off ROW (82%) and line failure (10%).</i>			2Q 2015 3Q 2015 4Q 2015
			Repair equipment failure	Complete	Jul-14	
			Repair damage caused by a vehicle	Complete	Sep-14	
			Repair equipment failure	Complete	Dec-14	
			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	

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	French Road	00551-31	<i>Performance was driven by a breaker operation of unknown cause (55%), trees off ROW (27%), and animals (13%).</i>				
			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%		
60	Ralphton	00014-12	<i>Performance was driven by equipment failure (46%), line failure (26%), and lightning (20%).</i>				3Q 2015 4Q 2015
			Repair equipment failure	Complete	Mar-15		
			Repair damage caused by lightning	Complete	Apr-15		
			Repair line failure during a storm	Complete	Jun-15		
			Repair equipment failure	Complete	Sep-15		
			Repair equipment failure	Complete	Dec-15		
61	South Mansfield	00617-63	<i>Performance was driven by line failure (50%), a breaker operation of unknown cause (33%), and lightning (10%).</i>				
			Repair line failure	Complete	Mar-15		
			Repair damage caused by lightning	Complete	Jul-15		
			Restore breaker operation of unknown cause	Complete	Dec-15		
62	Salix	00070-11	<i>Performance was driven by equipment failure (52%) and trees off ROW (41%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Restore recloser operation of unknown cause during storm	Complete	Jul-14		
			Repair equipment failure	Complete	Feb-15		
			Replace underground exit	Complete	May-15		
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
			Circuit inspection	To be completed 2016	0%		

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters	
63	Buffalo Road	00201-31	<i>Performance was driven by equipment failure (47%), trees off ROW (22%), and trees on ROW (19%).</i>				
			Repair equipment failure	Complete	Jan-15		
			Repair equipment failure	Complete	Apr-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
			Repair damage caused by trees during a storm	Complete	Dec-15		
	Brooklyn	00749-65	<i>Performance was driven by trees off ROW (99%).</i>				1Q 2015 2Q 2015
			Repair tree damage	Complete	Jul-14		
			Repair damage caused by trees during a storm	Complete	Jul-14		
	Brookville West	00121-23	<i>Performance was driven by trees off ROW (46%) and vehicles (42%).</i>				1Q 2015 2Q 2015 3Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14		
			Repair damage caused by trees	Complete	Oct-14		
			Repair damage caused by trees during a storm	Complete	Nov-14		
			Repair equipment failure	Complete	Mar-15		
			Repair damage caused by a vehicle	Complete	Apr-15		
	East Hickory	00201-41	<i>Performance was driven by trees off ROW (90%).</i>				1Q 2015 2Q 2015 3Q 2015
			Repair damage caused by trees	Complete	Jul-14		
			Repair damage caused by trees	Complete	Dec-14		
			Repair damage caused by trees during a storm	Complete	Jun-15		
			Circuit inspection	Complete	Aug-15		
	East Towanda	00525-62	<i>Performance was driven by line failure (72%) and vehicles (11%).</i>				1Q 2015 2Q 2015 3Q 2015
			Repair equipment failure during storm	Complete	Jul-14		
			Repair line failure	Complete	Aug-14		
			Repair line failure	Complete	Nov-14		
			Repair line failure	Complete	Jan-15		
			Reconductor circuit between poles TWM-1 and TWM-42	Complete	Aug-15		
	Kearsarge	00528-31	<i>Performance was driven by equipment failure (45%), line failure (35%), and trees off ROW (19%).</i>				1Q 2015 2Q 2015
			Repair damage caused by trees	Complete	Jul-14		
			Repair line failure	Complete	Sep-14		
			Repair equipment failure	Complete	Jan-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
	Laceyville	00278-65	<i>Performance was driven by trees off ROW (91%). 90% of the outages occurred on one day.</i>			1Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	2Q 2015
	Lake City	00429-34	<i>Performance was driven by trees off ROW (86%) and lightning (5%).</i>			1Q 2015
			Repair damage caused by lightning	Complete	Jul-14	2Q 2015
			Repair damage caused by a tree	Complete	Sep-14	
	Laporte	00772-62	<i>Performance was driven by a recloser operation of unknown cause (85%) and trees off ROW (15%).</i>			1Q 2015
			Restore recloser operation of unknown cause during storm	Complete	Jul-14	2Q 2015
			Repair damage caused by trees	Complete	Oct-14	
	McVeytown	00112-81	<i>Performance was driven by trees off ROW (90%).</i>			1Q 2015
			Repair damage caused by a tree during a storm	Complete	Jul-14	2Q 2015
			Repair damage caused by trees	Complete	Aug-14	
	Meshoppen	00283-65	<i>Performance was driven by trees off ROW (67%) and line failure (21%).</i>			1Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	2Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair line failure	Complete	Nov-14	
	Natl Forge Sw Sta	00577-41	<i>Performance was driven by equipment failure (47%), trees off ROW (37%), and lightning (10%).</i>			2Q 2015
			Repair equipment failure during a storm	Complete	May-15	3Q 2015
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair damage due to lightning strike	Complete	Jun-15	
	North Warren	00596-41	<i>Performance was driven by trees off ROW (56%), equipment failure (18%), and non-utility lightning strike (9%).</i>			1Q 2015
			Restore recloser operation due to non-utility lightning strike	Complete	Jul-14	2Q 2015
			Repair damage caused by trees	Complete	Jul-14	
			Repair damage caused by trees during a storm	Complete	Nov-14	
			Restore fuse after operation from unknown cause	Complete	Nov-14	
			Rehabilitate circuit - items identified during circuit patrol	Complete	Sep-15	
			On cycle tree trimming	Complete	Dec-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
	Punxsutawney	00625-23	<i>Performance was driven by line failure (99%). One outage accounted for 99% of the CMI in the past twelve months.</i>			1Q 2015 2Q 2015 3Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair damage caused by trees during a storm	Complete	Sep-14	
			Repair line failure	Complete	Nov-14	
	Russell Hill	00282-65	<i>Performance was driven by trees off ROW (56%), line failure (16%), and fuse operation due to unknown cause (9%).</i>			1Q 2015 2Q 2015
			Restore fuse operation of unknown cause during a storm	Complete	Jul-14	
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair line failure	Complete	Dec-14	
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Circuit inspection	Complete	Aug-15	
	Saxton	00625-73	<i>Performance was driven by trees off ROW (45%), equipment failure (23%), and animals (14%).</i>			1Q 2015 2Q 2015 3Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair damage caused by trees	Complete	Oct-14	
			Repair damage from animal contact	Complete	Jun-15	
			Repair equipment failure	Complete	Jun-15	
			Circuit inspection	Complete	Jul-15	
	Springboro	00237-52	<i>Performance was driven by equipment failure (48%), a recloser operation of unknown cause (26%), and trees off ROW (16%).</i>			1Q 2015 2Q 2015
			Repair equipment failure during a storm	Complete	Jul-14	
			Restore recloser operation of unknown cause during a storm	Complete	Nov-14	
			Repair damage caused by trees	Complete	Mar-15	
			Targeted main line rehab	Complete	Dec-15	
			Porcelain cutout replacement	Complete	Dec-15	
			On cycle tree trimming	Complete	Dec-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
	Thompson	00436-65	<i>Performance was driven by line failure (34%), trees off ROW (28%), and animals (20%).</i>			1Q 2015 2Q 2015 3Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair line failure	Complete	Aug-14	
			Circuit inspection	Complete	Aug-14	
			Repair line failure	Complete	Jan-15	
			Repair damage caused by trees	Complete	Sep-15	
			On cycle tree trimming	Complete	Nov-15	
	Thompson	00442-65	<i>Performance was driven by trees off ROW (66%) and equipment failure (29%).</i>			1Q 2015 2Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair equipment failure	Complete	May-15	
	Timblin	00116-23	<i>Performance was driven trees off ROW (75%) and a recloser operation of unknown cause (21%).</i>			1Q 2015 2Q 2015
			Repair damage caused by trees during a storm	Complete	Sep-14	
			Restore recloser operation of unknown cause during a storm	Complete	Jun-15	
	Union City	00207-43	<i>Performance was driven by line failure (61%) and trees off ROW (17%).</i>			1Q 2015 2Q 2015
			Repair damage caused by trees during a storm	Complete	Jul-14	
			Repair line failure during a storm	Complete	Feb-15	
			Repair line failure during a storm	Complete	Feb-15	
	Utica Junction	00318-51	<i>Performance was driven by line failure (32%), trees off ROW (29%), lightning (25%), and equipment failure (13%).</i>			2Q 2015 3Q 2015
			Repair equipment failure	Complete	Jul-14	
			Repair line failure during a storm	Complete	Apr-15	
			Repair damage due to lightning strike	Complete	Jun-15	
			Circuit inspection	Complete	Aug-15	
	Wyalusing	00532-62	<i>Performance was driven by equipment failure (80%) and trees off ROW (19%).</i>			1Q 2015 2Q 2015
			Repair equipment failure during storm	Complete	Jul-14	
			Repair damage caused by trees	Complete	Dec-14	
	Blairsville East	00082-13	<i>Performance was driven by line failure (71%) and trees off ROW (26%).</i>			
			Repair line failure	Complete	Jul-14	
			Circuit inspection	Complete	Jul-15	
			On cycle tree trimming	Complete	Nov-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
	Curryville	00644-71	<i>Performance was driven by equipment failure (30%), line failure (30%), vehicles (18%), and trees off ROW (14%).</i>			
			Repair damage caused by trees	Complete	Jul-14	
			Repair line failure	Complete	Nov-14	
			Repair line failure	Complete	Dec-14	
			Circuit inspection	Complete	Jul-15	
			On cycle tree trimming	Complete	Nov-15	
	Lowell Avenue	00518-31	<i>Performance was driven by trees off ROW (40%), line failure (34%), and vehicles (14%).</i>			
			Repair damage caused by vehicle accident	Complete	Oct-14	
			Repair damage caused by trees during a storm	Complete	May-15	
			Repair line failure	Complete	Aug-15	
			On cycle tree trimming	Complete	Dec-15	
	Madera	00147-22	<i>Performance was driven by trees off ROW (44%) and equipment failure (37%).</i>			
			Repair damage caused by trees during a storm	Complete	Jun-15	
			Repair damage caused by trees	Complete	Jul-15	
			Repair equipment failure	Complete	Aug-15	
			Repair equipment failure	Complete	Oct-15	
			Porcelain cutout replacement	Complete	Dec-15	
	Shawville	00153-21	<i>Performance was driven by trees off ROW (52%), equipment failure (25%), and line failure (7%).</i>			
			Repair damage caused by trees	Complete	Aug-14	
			Repair equipment failure	Complete	Aug-14	
			Repair line failure during a storm	Complete	Dec-14	
			Porcelain cutout replacement	Complete	Dec-15	

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	Birdsboro	00756-1	<i>Performance was driven by trees off ROW (66%) and line failure (20%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Install additional main line tap fusing	Complete	Sep-14		
			Spot tree removals	Complete	Oct-14		
			Upgrade main line recloser	Complete	Dec-14		
			Main line switch arrester repairs from assessment	Complete	Dec-14		
			Install additional main line fault indicators	Complete	Jan-15		
			Complete engineering review for additional remote-control devices	Complete	Jan-15		
			Proactive every-other-month main line forestry inspection	Complete	Feb-15		
			Spot tree trimming/removals	Complete	Mar-15		
			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		
			Replace porcelain cutout	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	
2	Flying Hills	00776-1	<i>Performance was driven by underground line failure (35%), trees off ROW (29%), and trees on ROW (20%).</i>				2Q 2015 3Q 2015 4Q 2015
			Comprehensive circuit assessment	Complete	Mar-15		
			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	To be completed 2016	50%		
			On cycle tree trimming	To be completed 2016	5%		
Overhead circuit inspection	To be completed 2016	0%					
3	Northwood	00821-3	<i>Performance was driven by a single wind storm (67%).</i>				
			Overhead circuit inspection	Complete	Feb-15		
			Forestry Zone 1 aerial patrol	Complete	Jul-15		
			Replace/repair high priority items identified during circuit patrol	To be completed 2016	50%		
4	Shawnee	00895-3	<i>Performance was driven by trees off ROW (33%), forced outage (27%), trees on ROW (20%), and equipment failure (15%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			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		
			On cycle tree trimming	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	
5	Lickdale	00626-2	<i>Performance was driven by equipment failure (77%) and trees on ROW (11%).</i>				2Q 2015 3Q 2015 4Q 2015
			Replace underground exit	Complete	Aug-14		
			Replace switch	Complete	Jan-15		
			Repair line failure	Complete	Jun-15		
			Circuit inspection	Complete	Sep-15		
			Replace main line recloser	To be completed 2016	50%		
			Replace main line recloser	To be completed 2016	0%		
6	Fox Hill	00816-3	<i>Performance driven by forced outages (40%), vehicles (23%), and trees off ROW (22%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Replace crossarms identified during circuit assessment	Complete	Aug-14		
			Mid-cycle backbone and three phase forestry inspection	Complete	Oct-14		
			Danger tree removal from mid-cycle forestry inspection	Complete	Nov-14		
			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		
			On cycle tree trimming	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	Swatara Hill	00763-2	<i>Performance was driven by a cutout problem (45%) and trees off ROW (21%). 88% of the CMI occurred on three days.</i>				2Q 2015 3Q 2015 4Q 2015
			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		
8	Lynnville	00737-1	<i>Performance was driven by trees off ROW (37%) and equipment failure (35%).</i>				3Q 2015 4Q 2015
			Overhead circuit inspection	Complete	Aug-14		
			Install additional main line fault indicators	Complete	Oct-14		
			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		
9	Painted Sky	00650-1	<i>Performance was driven by overhead line failure (48%), underground line failure (26%), and underground equipment failure (15%).</i>				3Q 2015 4Q 2015
			Perform wood pole inspection	Complete	Mar-15		
			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%		

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	Bern Church	00789-1	<i>Performance was driven by equipment failure (30%), vehicles (18%), trees off ROW (13%), and trees on ROW (11%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Upgrade substation relays	Complete	Sep-14	
			Comprehensive tree trimming	Complete	Dec-14	
			Pole replacements from pole inspections	Complete	Jan-15	
			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 pole top	To be completed 2016	0%	
Overhead circuit inspection	To be completed 2016	0%				
11	Straban	00676-4	<i>Performance was driven by vehicles (45%), trees off ROW (41%), and equipment failures (11%).</i>			2Q 2015 3Q 2015 4Q 2015
			Overhead circuit inspection	Complete	Oct-15	
			Install recloser on Taneytown Rd	Complete	Nov-15	
12	Mountain	00744-4	<i>Performance was driven by trees off ROW (67%), vehicles (15%), and equipment failure (8%). 32% of the outages were the result of a June 20, 2015 storm.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Upgrade main line Group Operated Air Break (GOAB) #74459 to EMS radio controlled Motor Operated Air Break (MOAB) switch with faulted circuit indicators	Complete	Oct-14	
			Upgrade main line recloser to EMS radio controlled	Complete	Oct-14	
			Upgrade main line GOAB #T1-754 to EMS radio controlled MOAB with faulted circuit indicators	Complete	Sep-15	
			Repair/replace items identified during underground circuit inspection	Complete	Oct-15	
			Overhead circuit inspection	To be completed 2016	0%	

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters
13	Annville	00741-2	<i>Performance was driven by trees off ROW (80%).</i>			
			Mid-cycle backbone forestry inspection	Complete	Aug-14	2Q 2015
			Repair line failure	Complete	Oct-14	3Q 2015
			Repair damage caused by trees during a storm	Complete	Oct-15	4Q 2015
			On cycle tree trimming	Complete	Nov-15	
14	Bernville	00786-1	<i>Performance was driven by equipment failure (71%).</i>			
			Main line circuit inspection	Complete	Feb-15	1Q 2015
			Main line pole replacement	Complete	Apr-15	3Q 2015
			Replace fault indicators	Complete	Sep-15	4Q 2015
			Install additional main line disconnects	Complete	Oct-15	
			Replace main line crossarms from inspection	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	
15	Birdsboro	00757-1	<i>Performance was driven by trees off ROW (40%), line failure (31%), and trees on ROW (14%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Comprehensive tree trimming	Complete	Oct-14		
			Upgrade main line recloser	Complete	Nov-14		
			Install remote operated main line switches	Complete	Nov-14		
			Install new main line recloser	Complete	Dec-14		
			Install additional main line fault indicators	Complete	Jan-15		
			Proactive every-other-month main line forestry inspection	Complete	Jan-15		
			Spot tree trimming/removals	Complete	Mar-15		
			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		
			Replace crossarm	To be completed 2016	0%		
			Replace crossarm brace	To be completed 2016	0%		
Proactive every-other-month main line forestry inspection (January-February 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
16	Shawnee	00860-3	<i>Performance was driven by equipment failure (68%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Perform wood pole inspection	Complete	Jun-15	
			Replace poles identified during wood pole inspection	Complete	Aug-15	
			Install additional Supervisory Control and Data Acquisition (SCADA) controlled switch	Complete	Sep-15	
			Perform accelerated backbone circuit assessment	Complete	Dec-15	
17	Barto	00705-1	<i>Performance was driven by trees on ROW (37%), animals (27%), and trees off ROW (16%).</i>			1Q 2015 4Q 2015
			Complete engineering circuit configuration review	Complete	Sep-14	
			Engineering circuit protection review in conjunction with Huffs Church substation construction	Complete	Jan-15	
			Lockout zone circuit inspection	Complete	Feb-15	
			Install additional main line fault indicators	Complete	Mar-15	
			Replace crossarm from assessment	Complete	Mar-15	
			Replace insulator from assessment	Complete	Mar-15	
			Comprehensive circuit assessment	Complete	Mar-15	
			Proactive main line forestry patrol	Complete	May-15	
			Replace crossarm braces from assessment	Complete	Jun-15	
			Replace switch arrester from assessment	Complete	Oct-15	
			On cycle tree trimming	To be completed 2016	5%	
			Overhead circuit inspection	To be completed 2016	0%	
18	Shawnee	00899-3	<i>Performance was driven by trees off ROW (70%).</i>			2Q 2015 3Q 2015 4Q 2015
			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	

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
19	Birchwood	00622-3	<i>Performance was driven by trees off ROW (94%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Comprehensive circuit assessment	Complete	Sep-14	
			Comprehensive tree trimming	Complete	Nov-14	
			Replace voltage regulator	Complete	Dec-14	
			Repair items identified during circuit assessment	Complete	Dec-14	
			On cycle tree trimming	To be completed 2016	0%	
20	State Street	00620-1	<i>Performance was driven by trees off ROW (63%) and equipment failure (35%).</i>			3Q 2015 4Q 2015
			On cycle tree trimming	Complete	Jul-15	
			Upgrade tie switch	To be completed 2016	50%	
21	Flying Hills	00777-1	<i>Performance was driven by trees off ROW (42%), equipment failure (26%), and trees on ROW (19%).</i>			3Q 2015 4Q 2015
			Install additional main line fault indicators	Complete	Dec-14	
			Comprehensive circuit assessment	Complete	Jul-15	
			Install additional main line recloser	Complete	Aug-15	
			Upgrade circuit getaway cables	Complete	Aug-15	
			Upgrade circuit tie capability	Complete	Aug-15	
			Upgrade main line conductor	Complete	Aug-15	
			On cycle tree trimming	To be completed 2016	0%	
			Overhead circuit inspection	To be completed 2016	0%	
22	Swatara Hill	00764-2	<i>Performance was driven by vehicles (58%) and equipment failure (32%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Replace eleven porcelain cutouts	Complete	Jul-14	
			Install new fuse	Complete	Sep-14	
			Install new span of underground cable to create underground development loop	Complete	Sep-14	
			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	
23	Fairview	00519-4	<i>Performance was driven by vehicles (91%). 70% of the outages were the result of one vehicle contact that occurred on October 21, 2015.</i>			
			Cycle tree trimming	Complete	Dec-14	
			Overhead circuit inspection	Complete	Apr-15	

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters
24	Schuylkill Ave	00157-1	<i>Performance was driven by trees off ROW (74%).</i>			
			Replace poles identified during wood pole inspection	Complete	Sep-14	
			Targeted forestry inspection	Complete	Nov-15	
			Complete engineering review for substation upgrade	To be completed 2016	25%	
25	North Bangor	00813-3	<i>Performance was driven by vehicles (70%).</i>			1Q 2015 2Q 2015 4Q 2015
			Mid-cycle backbone and three phase forestry inspection	Complete	Sep-14	
			Forestry Zone 1 aerial patrol	Complete	Jul-15	
			Cycle tree trimming	Complete	Nov-15	
			Overhead circuit inspection	To be completed 2016	0%	
26	Annville	00743-2	<i>Performance was driven by trees off ROW (47%) and equipment failure (45%).</i>			1Q 2015 2Q 2015 4Q 2015
			Mid-cycle backbone and three phase forestry inspection	Complete	Jul-14	
			Replace recloser	Complete	Jul-14	
			Perform tree work identified during mid-cycle backbone and three phase forestry inspection	Complete	Jul-14	
			Complete engineering review for remote-control devices	Complete	Oct-15	
			Comprehensive tree trimming	Complete	Nov-15	
			Replace switch with Supervisory Control and Data Acquisition (SCADA) Motor Operated Air Break (MOAB)	Complete	Dec-15	
Lockout zone circuit inspection	Complete	Dec-15				

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	
27	Windsor	00797-4	<i>Performance was driven by line failure (34%).</i>				1Q 2015 3Q 2015 4Q 2015
			Replace/repair high priority items identified during circuit patrol	Complete	May-15		
			Forestry to perform off cycle comprehensive circuit tree patrol	Complete	Jun-15		
			Replacement of porcelain cutouts with polymer cutouts on the circuit backbone	Complete	Aug-15		
			Install additional fault indicators	Complete	Sep-15		
			Install additional fuses	Complete	Sep-15		
			Replace pole identified during the circuit pole inspection	Complete	Sep-15		
28	South Hamb	00741-1	<i>Performance was driven by equipment failure (33%), wind (26%), trees on ROW (23%), and trees off ROW (13%).</i>				3Q 2015 4Q 2015
			Install additional main line fault indicators	Complete	Sep-14		
			Replace main line crossarms from assessment	Complete	Dec-14		
			Cycle tree trimming	Complete	Jul-15		
29	Taxville	00575-4	<i>Performance was driven by vehicles (42%).</i>				3Q 2015 4Q 2015
			Comprehensive circuit assessment	Complete	Apr-15		
			Replace/repair high priority items identified during circuit patrol	To be completed 2016	5%		

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	
30	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. 38% of the vehicle outages were the result of one vehicle contact on May 3, 2015.</i>				3Q 2015 4Q 2015
			The vehicle contact pole 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 ²⁵	0%		
31	North Bangor	00826-3	<i>Performance was driven by equipment failure (48%) and line failure (23%).</i>				1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Replace poles identified during wood pole inspection	Complete	Aug-14		
			Comprehensive tree trimming	Complete	Oct-14		
			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	To be completed 2016	75%		
32	Ringing Rocks	00708-1	<i>Performance was driven by trees off ROW (83%).</i>				3Q 2015 4Q 2015
			Overhead circuit inspection	Complete	Oct-14		
			Replace crossarm from inspection	Complete	Feb-15		
			Targeted forestry inspection	Complete	Oct-15		

²⁵ Incorrectly reported with a 2016 completion date in the 3rd quarter.

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
33	Newberry	00576-4	<i>Performance was driven by trees off ROW (57%).</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Comprehensive tree trimming	Complete	Oct-14	
			Replace/repair high priority items identified during circuit patrol	Complete	Nov-14	
			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	
34	Violet Hill	00527-4	<i>Performance was driven by line failure (46%).</i>			
			Replace/repair high priority items identified during circuit patrol	Complete	Dec-14	
			Perform annual recloser inspections	Complete	Mar-15	
			Replace crossarm	Complete	Oct-15	
			Replace recloser found out of service during annual inspection	Complete	Nov-15	
			On cycle tree trimming	To be completed 2016	0%	
35	Orrtanna	00764-4	<i>Performance was driven by equipment failure (50%), trees on ROW (32%), and trees off ROW (14%). 48% of the outages occurred when a pole failed during a storm on Jan 26, 2015.</i>			
			The downed pole was replaced and associated repairs were made at time of restoration	Complete	Jan-15	
			Repair/replace items identified during capacitor inspection	Complete	Mar-15	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	May-15	
			On cycle tree trimming	Complete	Dec-15	

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	Dillsburg	00749-4	<i>Performance was driven by lightning (52%), equipment failures (27%), and trees off ROW (11%). 51% of the outages occurred during a storm on May 31, 2015.</i>				2Q 2015 4Q 2015
			Cycle tree trimming	Complete	Oct-14		
			Install new recloser on Range End Rd	Complete	Sep-14		
			The lightning damage was repaired and associated repairs were made at time of restoration	Complete	May-15		
			Overhead circuit inspection	To be completed 2016	0%		
37	Angelica	00129-4	<i>Performance was driven by equipment failure (47%) and trees off ROW (36%).</i>				
			Install main line fault indicators	Complete	Apr-15		
			Cycle tree trimming	Complete	Oct-15		
38	Allen	00501-4	<i>Performance was driven by trees off ROW (32%), equipment failure (27%), vehicles (11%), and lightning (9%).</i>				
			Perform engineering review of faulted circuit indicator age and locations	Complete	Nov-14		
			Cycle tree trimming	Complete	Mar-15		
			Overhead circuit inspection	To be completed 2016	0%		
	Allen	00502-4	<i>Performance was driven by trees off ROW (41%), line failure (17%), vehicles (12%), and lightning (11%). 51% of outages were the result of storms that occurred on June 20, June 23, and July 25, 2015.</i>				1Q 2015 2Q 2015 3Q 2015
			Install additional faulted circuit indicators two locations	Complete	Aug-14		
			Perform engineering review of existing faulted circuit indicator age	Complete	Oct-14		
			Retire and replace failed faulted circuit indicators in five locations	Complete	Nov-14		
			Comprehensive tree trimming	Complete	Jan-15		
	Annville	00742-2	<i>Performance was driven by one storm related outage (81%).</i>				1Q 2015 2Q 2015
			Comprehensive tree trimming	Complete	Sep-15		

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
	Bairs	00571-4	<i>Performance was driven by equipment failure (37%) and vehicles (24%).</i>			1Q 2015 2Q 2015
			Install new getaway cables and riser at Bair substation	Complete	Feb-15	
			Replace broken cutout	Complete	Apr-15	
			Mid-cycle backbone and three phase forestry inspection	Complete	May-15	
			Retire and replace failed fault circuit indicators	Complete	Aug-15	
			Targeted tree trimming to improve reliability	Complete	Nov-15	
	Bath	00873-3	<i>Performance was driven by vehicles (50%), birds (16%), and equipment failure (11%).</i>			1Q 2015 2Q 2015 3Q 2015
			Comprehensive circuit assessment	Complete	Jan-15	
			Replace items identified during circuit assessment	Complete	Aug-15	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Nov-15	
	Birchwood	00623-3	<i>Performance was driven by damage from a single snow storm that occurred on November 26, 2014 (78%).</i>			1Q 2015 2Q 2015 3Q 2015
			Comprehensive circuit assessment	Complete	Jul-14	
			Comprehensive tree trimming	Complete	Dec-14	
			Replace/repair high priority items identified during circuit patrol	Complete	Feb-15	
			Install fault indicators	Complete	Feb-15	
	Carsonia	00764-1	<i>Performance was driven by line failure (32%), vehicles (24%), and equipment failure (20%).</i>			1Q 2015 2Q 2015 3Q 2015
			Comprehensive circuit assessment	Complete	Sep-14	
			Replace main line arrester from assessment	Complete	Mar-15	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Oct-15	

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
	Leesport	00811-1	<i>Performance was driven by equipment failure (44%), trees off ROW (19%), and trees on ROW (18%).</i>			1Q 2015 2Q 2015
			Main line crossarm repair from comprehensive circuit patrol	Complete	Nov-14	
			Main line pole top repair from assessment	Complete	Dec-14	
			Replace substation getaway cable and terminators	Complete	Mar-15	
			Cycle tree trimming	Complete	May-15	
			Perform accelerated backbone, three phase circuit assessment	Complete	Jul-15	
			Main line coordination improvements	Complete	Oct-15	
			Replace main line pole	Complete	Nov-15	
	Marshalls Creek	00128-3	<i>Performance was driven by damage from a storm that occurred on July 2, 2014 (79%).</i>			1Q 2015 2Q 2015
			Engineering to perform circuit protection review	Complete	Dec-14	
	Mountain	00740-4	<i>Performance was driven by equipment failure (42%), line failure (30%), animals (14%), and vehicles (5%). 66% of outages from December 6, 2014 and July 19, 2015 storms.</i>			1Q 2015 2Q 2015 3Q 2015
			Comprehensive tree trimming	Complete	Aug-14	
			Install one recloser at new location	Complete	Oct-14	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Apr-15	
	Newberry	00586-4	<i>Performance was driven by trees off ROW (23%) and vehicles (34%).</i>			1Q 2015 2Q 2015 3Q 2015
			Comprehensive circuit assessment	Complete	Oct-14	
			Cycle tree trimming	Complete	Dec-14	
			Replace/repair high priority items identified during circuit patrol	Complete	Feb-15	
			Mid-cycle backbone and three phase forestry inspection	Complete	Apr-15	
			Targeted tree trimming to improve reliability	Complete	Jun-15	

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
	North Cornwall	00610-2	<i>Performance was driven by trees off ROW (35%) and equipment failure (27%).</i>			1Q 2015 2Q 2015 3Q 2015
			Mid-cycle backbone and three phase forestry inspection	Complete	Oct-14	
			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	
	North Lebanon	00712-2	<i>Performance was driven by trees off ROW (34%), equipment failure (28%), and vehicles (17%).</i>			2Q 2015 3Q 2015
			Replace/repair high priority items identified during circuit patrol	Complete	Feb-15	
			Replace/repair high priority items identified during circuit patrol	Complete	Apr-15	
	S. Nazareth	00809-3	<i>Performance was driven by vehicles (49%), equipment failure (32%), and trees off ROW (14%).</i>			1Q 2015 2Q 2015 3Q 2015
			Install additional Supervisory Control and Data Acquisition (SCADA) controlled switch	Complete	Aug-14	
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Mar-15	
			Forestry Zone 1 aerial patrol	Complete	Jul-15	
	Saylorsburg	00114-3	<i>Performance was driven by trees off ROW (67%) and equipment failure (23%).</i>			2Q 2015 3Q 2015
			Forestry to trim circuit	Complete	Dec-14	
	Snydersville	00621-3	<i>Performance was driven by trees off ROW (77%) and equipment failure (11%).</i>			1Q 2015 2Q 2015
			Comprehensive tree trimming	Complete	Nov-14	
			Replace recloser	Complete	Feb-15	
			Install fault indicators	Complete	Mar-15	
	South Lebanon	00780-2	<i>Performance was driven by trees off ROW (52%) and vehicles (14%).</i>			1Q 2015 2Q 2015
			Mid-cycle backbone forestry inspection	Complete	Aug-14	
			Pole was replaced and equipment repaired	Complete	Oct-14	
			Cycle tree trimming	Complete	Nov-15	

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
	Weisenberg	00602-1	<i>Performance was driven by equipment failure (73%).</i>			1Q 2015 2Q 2015
			Install additional main line fault indicators	Complete	Sep-14	
			Replace main line insulator	Complete	Apr-15	
			Replace fault indicators	Complete	Aug-15	
			Comprehensive circuit assessment	Complete	Oct-15	
	3 rd and Green	00785-2	<i>Performance was driven by equipment failure (89%). 71% of the outages occurred on one day.</i>			1Q 2015 2Q 2015
			Comprehensive tree trimming	Complete	Aug-14	
			Replace arrester	Complete	Nov-14	
			Replace two crossarms, three cutouts, and three arresters	Complete	Nov-14	
			Replace recloser	Complete	Oct-15	
	Birchwood	00624-3	<i>Performance was driven by vehicles (34%), equipment failure (24%), trees off ROW (18%), and line failure (12%).</i>			
			Install fault indicators	Complete	Jul-14	
			Comprehensive circuit patrol	Complete	Aug-14	
			Replace recloser	Complete	Sep-14	
			Comprehensive tree trimming	Complete	Nov-14	
			Install sectionalizer	Complete	Oct-15	
			Replace porcelain cutouts on circuit backbone	Complete	Oct-15	
	East Tipton	00733-1	<i>Performance was driven by previous lightning (47%) and trees off ROW (38%).</i>			
			Complete engineering circuit configuration review	Complete	Sep-14	
			Complete engineering circuit protection review in conjunction with Huffs Church Substation construction	Complete	Jan-15	
			Overhead circuit inspection	Complete	Sep-15	
			Complete circuit reconfiguration	To be completed 2016	25%	
	Moselem	00782-1	<i>Performance was driven by equipment failure (69%) and vehicles (21%).</i>			
			Complete engineering circuit configuration review	Complete	Oct-14	
			Comprehensive circuit assessment	Complete	Aug-15	
			Comprehensive tree trimming	Complete	Nov-15	

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
	South Hamburg	00745-1	<i>Performance was driven by a line failure outage (59%) and animals (39%).</i>			
			Install additional main line fault indicators	Complete	Sep-14	
			Replace main line crossarm from assessment	Complete	Dec-14	
			Install additional main line disconnects	Complete	Oct-15	
	Third Street	00178-1	<i>Performance was driven by equipment failure (92%).</i>			
			Spot main line inspection	Complete	Jan-15	
			Complete load reduction project	Complete	Oct-15	
			Substation transformer cable replacement	Complete	Nov-15	
	Tolna	00793-4	<i>Performance was driven by lightning (44%) and trees off ROW (28%).</i>			
			Comprehensive tree trimming	Complete	Nov-15	

West Penn Power						
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 (78%) and forced outages (18%). 75% of the outages occurred on two minor storm days.</i>			2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Feb-15	
2	Cecil	Bishop	<i>Performance was driven by trees off ROW (81%) and forced outages (13%). 70% of the outages occurred on one minor storm day.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. Five danger trees found and remediated.	Complete	Jul-15	
3	Vandergrift	Grifflo Park	<i>Performance was driven by equipment failure (56%) and trees off ROW (40%). 88% of the outages occurred on two minor storm days.</i>			2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-15	
			On cycle tree trimming	To be completed 2016	0%	
4	Dutch Fork	Claysville	<i>Performance was driven by trees off ROW (38%), unknowns (33%), trees on ROW (15%), and line failure (11%). 44% of the outages occurred on three days, two of which were minor storm days.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
5	Lagonda	Lagonda	<i>Performance was driven by trees off ROW (89%). 92% of the outages occurred on two minor storm days.</i>			3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
6	Donegal	Champion	<i>Performance was driven by line failure (47%), unknowns (21%), and vehicles (12%). 81% of the outages occurred on four days, three of which were minor storm days.</i>			3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	May-15	
7	Kane	Russell City	<i>Performance was driven by trees off ROW (57%) and equipment failure (33%). 78% of the outages occurred on three minor storm days.</i>			
			On cycle tree trimming	To be completed 2016	0%	

West Penn Power							
Rank	Substation	Circuit	Remedial Actions Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters	
8	Westraver	Pittsburgh Coal	<i>Performance was driven by line failure (32%), trees off ROW (31%), forced outages (19%), and trees on ROW (12%). 76% of the outages occurred on four days, three of which were minor storm days.</i>			Dec-15	1Q 2015 2Q 2015 3Q 2015 4Q 2015
			On cycle tree trimming	Complete			
9	Gordon	Wolfdale	<i>Performance was driven by trees off ROW (91%). 78% of the outages occurred on one minor storm day.</i>			Jun-15 Nov-15 0%	2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete			
			Overhead circuit patrol	Complete			
			On cycle tree trimming	To be completed 2016			
10	Shaffers Corner	Braeburn	<i>Performance was driven by trees off ROW (69%) and trees on ROW (18%). 76% of the outages occurred on three minor storm days.</i>			Mar-15 0%	2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware issues found. Eight trees found and remediated.	Complete			
			On cycle tree trimming	To be completed 2016			
11	Shaffers Corner	Seventh St Rd	<i>Performance was driven by trees off ROW (92%). 83% of the outages occurred on three minor storm days.</i>			Dec-14 Jan-15	2Q 2015 3Q 2015 4Q 2015
			Cycle tree trimming	Complete			
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete			
12	Piney Fork	Stoltz	<i>Performance was driven by equipment failure (75%). 82% of the outages occurred on two days, once of which was a minor storm day.</i>			Nov-15 0%	
			Zone 1 forestry patrol. Thirty-six trees identified to be remediated.	Complete			
			Remediate thirty-six trees identified in Zone 1 forestry patrol	To be completed 2016			
13	Amity	Banetown	<i>Performance was driven by trees off ROW (61%), unknowns (23%), and equipment failure (11%). 61% of the outages occurred on three days, two of which were minor storm days.</i>			Jun-15	2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware issues found. Eight trees found and remediated.	Complete			

West Penn Power						
Rank	Substation	Circuit	Remedial Actions Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed	Appeared in 2 of 4 Quarters
14	Driftwood	Driftwood	<i>Performance was driven by trees off ROW (74%) and unknowns (20%). 88% of the outages occurred on four days, two of which were minor storm days.</i>			3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15	
15	South Union	Fairchance	<i>Performance was driven by line failure (63%), unknowns (19%), and equipment failure (11%). 69% of the outages occurred on four days, three of which were minor storm days.</i>			
			On cycle tree trimming	Complete	Oct-15	
16	Midway	Midway	<i>Performance was driven by trees off ROW (68%) and trees on ROW (14%). 38% of the outages occurred on one minor storm day.</i>			
			Zone 1 forestry patrol. No tree issues found.	Complete	Nov-15	
17	Finleyville	Gastonville	<i>Performance was driven by equipment failure (30%), forced outages (26%), trees off ROW (24%), and line failure (16%). 72% of the outages occurred on two days, one of which was a minor storm day.</i>			3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jan-15	
18	Murrycrest	Sardis Road	<i>Performance was driven by trees off ROW (45%), equipment failure (20%), and lightning (16%). 60% of the outages occurred on three days, one of which was a minor storm days.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware issues found. Twenty-two trees found and remediated.	Complete	Mar-15	
19	Cecil	Southpointe	<i>Performance was driven by line failure (28%), trees off ROW (23%), forced outages (15%), and trees on ROW (14%). 99% of the outages occurred on four days, three of which were minor storm days.</i>			2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15	
			On cycle tree trimming	To be completed 2016	0%	
20	Gordon	Tyler	<i>Performance was driven by equipment failure (39%), trees on ROW (29%), and vehicles (19%). 90% of the outages occurred on three minor storm days.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	

West Penn Power						
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
21	Westraver	West Newton	<i>Performance was driven by equipment failure (46%), forced outages (30%), and trees off ROW (18%). 85% of the outages occurred on three days, two of which were minor storm days.</i>	Complete	Dec-15	3Q 2015 4Q 2015
			CEMI review to be performed. No high CEMI taps found.			
22	South Fayette 138	Abele	<i>Performance was driven by equipment failure (36%), trees off ROW (23%), line failure (19%), and forced outages (12%). 70% of the outages occurred on three days, two of which were minor storm days.</i>	Complete	Nov-15	2Q 2015 3Q 2015 4Q 2015
			On cycle tree trimming			
23	North Union	Phillips	<i>Performance was driven by trees off ROW (45%), equipment failure (24%), unknowns (17%), and forced outages (11%). 81% of the outages occurred on three days, two of which were minor storm days.</i>	Complete	Jul-15	
			Cycle tree trimming			
24	Superior	Clumerville	<i>Performance was driven by equipment failure (53%) and trees off ROW (45%). 96% of the outages occurred on two days, one of which was a minor storm day.</i>	Complete	Mar-15	2Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.			
25	Franklin	Rogersville	<i>Performance was driven by line failure (62%), forced outages (17%), and trees off ROW (8%). 68% of the outages occurred on one day.</i>	Complete	Jul-15	3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware issues found. Four trees found and remediated.			
26	Westraver	Fellsburg	<i>Performance was driven by line failure (74%) and trees on ROW (12%). 85% of the outages occurred on two days.</i>	Complete	Sept-15	1Q 2015 2Q 2015 3Q 2015 4Q 2015
			On cycle tree trimming			
27	Cecil	Muse	<i>Performance was driven by trees off ROW (82%) and forced outages (13%). 86% of the outages occurred on two days, one of which was a minor storm day.</i>	Complete	Jun-15	2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.			

West Penn Power						
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
28	Rutan	Bristoria	<i>Performance was driven by trees off ROW (63%) and line failure (27%). 53% of the outages occurred on two minor storm days.</i>			3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware issues found. Five trees found and remediated.	Complete	Jul-15	
29	Vanceville	Vanceville	<i>Performance was driven by vehicles (39%), unknowns (24%), and trees off ROW (12%). 87% of the outages occurred on four days, two of which were minor storm days.</i>			1Q 2015 3Q 2015 4Q 2015
			Cycle tree trimming	Complete	Jul-14	
			Zone 1 hardware and forestry patrol. No hardware or tree issues found.	Complete	Jan-15	
			Hixon Road tie point	Complete	May-15	
30	Rutan	Windridge	<i>Performance was driven by line failure (44%), trees off ROW (38%), and forced outages (11%). 90% of the outages occurred on four days, two of which were minor storm days.</i>			
			Zone 1 vegetation patrol	Complete	Nov-15	
			Overhead circuit patrol	To be completed 2016	0%	
31	Houston	Murdock	<i>Performance was driven by unknowns (24%), trees on ROW (19%), forced outages (20%), equipment failure (16%), and vehicles (16%). 89% of the outages occurred on five days.</i>			3Q 2015 4Q 2015
			Overhead circuit patrol	Complete	Nov-15	
			Cycle tree trimming	Complete	Dec-15	
32	Houston	Canonsburg	<i>Performance was driven by trees off ROW (98%). 98% of the outages occurred on one minor storm day.</i>			3Q 2015 4Q 2015
			Overhead circuit patrol	Complete	Nov-15	
			Cycle tree trimming	Complete	Dec-15	
33	Lake Lynn-Union	Fancy Hill	<i>Performance was driven by trees off ROW (54%), trees on ROW (12%), and line failure (11%). 75% of the outages occurred on five days, four of which were minor storm days.</i>			1Q 2015 2Q 2015 3Q 2015 4Q 2015
			On cycle tree trimming	Complete	Nov-15	
34	Hickory	Fort Cherry	<i>Performance was driven by trees on ROW (58%), forced outages (21%), and trees off ROW (17%). 87% of the outages occurred on three days, two of which were minor storm days.</i>			3Q 2015 4Q 2015
			Cycle tree trimming	Complete	Jan-15	
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jul-15	

West Penn Power						
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
35	Smithton	Yukon	<i>Performance was driven by trees off ROW (32%), vehicles (30%), forced outages (18%), and line failure (17%). 90% of the outages occurred on three days, one of which was a minor storm day.</i>			
			On cycle tree trimming	Complete	Dec-14	
36	Hickory	Hickory	<i>Performance was driven by line failure (20%), trees off ROW (20%), trees on ROW (19%), unknown (13%), and forced outages (12%). 49% of the outages occurred on three days, one of which was a minor storm day.</i>			2Q 2015 3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jul-15	
37	Stahlstown	Kreager	<i>Performance was driven by trees off ROW (54%) and line failure (36%). 94% of the outages occurred on two minor storm days.</i>			
			Zone 1 vegetation patrol	Complete	Nov-15	
38	Wilcox	Wilcox	<i>Performance was driven by trees off ROW (58%), unknowns (18%), and forced outages (6%). 81% of the outages occurred on three minor storm days.</i>			3Q 2015 4Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jul-15	
			On cycle tree trimming	Complete	Nov-15	
39	Waterville	Waterville	<i>Performance was driven by other electric utility (29%), vehicles (23%), trees off ROW (22%), and forced outages (17%). 66% of the outages occurred on three days.</i>			
			Cycle tree trimming	Complete	Nov-15	
			Overhead circuit patrol	To be completed 2016	0%	
40	Fort Palmer	West Fairfield	<i>Performance was driven by vehicles (40%), line failure (26%), trees off ROW (22%), and forced outages (12%). 70% of the outages occurred on two days, one of which was a minor storm day.</i>			
			Overhead circuit patrol	To be completed 2016	0%	
	Avela	W. Middletown	<i>Performance was driven by trees off ROW (41%), forced outages (16%), line failure (11%), and vehicles (7%). 29% of the outages occurred on one day.</i>			1Q 2015 2Q 2015
			Cycle tree trimming	Complete	Dec-14	
			Zone 1 hardware and forestry patrol. No hardware or tree issues found.	Complete	Mar-15	
			Overhead circuit inspection	Complete	Nov-15	
	Bethel Park	Dashwood	<i>Performance was driven by trees off ROW (82%). 61% of the outages occurred on two days.</i>			1Q 2015 2Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	

West Penn Power						
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
	Buena Vista	Chicora	<i>Performance was driven by equipment failure (46%) and trees off ROW (33%). 79% of the outages occurred on three days.</i>			1Q 2015 2Q 2015
			Cycle tree trimming	Complete	Jan-15	
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
	Butler	Center Ave	<i>Performance was driven by trees on ROW (48%), trees off ROW (20%), and line failure (13%). 55% of the outages occurred on one minor storm day.</i>			1Q 2015 2Q 2015 3Q 2015
			Cycle tree trimming	Complete	Dec-14	
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jun-15	
	Cecil	Hendersonville	<i>Performance was driven by trees off ROW (97%). 75% of the outages occurred on two minor storm days.</i>			1Q 2015 2Q 2015 3Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
	Charleroi	Warner	<i>Performance was driven by trees off ROW (91%). 91% of the outages occurred on two days.</i>			1Q 2015 2Q 2015 3Q 2015
			Cycle tree trimming	Complete	Dec-14	
	Crossgates	Peters Twp	<i>Performance was driven by trees off ROW (87%). 85% of the outages occurred on one day.</i>			1Q 2015 2Q 2015
			On cycle tree trimming	Complete	Oct-15	
	Emporium	West Creek	<i>Performance was driven by equipment failure (71%) and trees off ROW (25%). 56% of the outages occurred on one day.</i>			1Q 2015 3Q 2015
			On cycle tree trimming	Complete	Dec-15	
	Fountaindale	Carroll Valley	<i>Performance was driven by trees on ROW (34%), forced outages (28%), and vehicles (23%). 74% of the outages occurred on three days.</i>			1Q 2015 2Q 2015
			Zone 1 circuit patrol. No hardware issues found. Two trees found and remediated.	Complete	Jun-15	
	Galley	Waterdam	<i>Performance was driven by trees off ROW (60%), line failure (22%), and forced outages (14%). 95% of the outages occurred on two minor storm days.</i>			1Q 2015 2Q 2015 3Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
			Overhead circuit patrol	Complete	Nov-15	

West Penn Power						
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
	Kittanning	Garretts Run	<i>Performance was driven by trees off ROW (52%), trees on ROW (27%), and forced outages (18%). 68% of the outages occurred on two days.</i>			1Q 2015 2Q 2015
			On cycle tree trimming	Complete	Dec-15	
	North Fayette	Oakdale	<i>Performance was driven by vehicles (70%) and equipment failure (23%). 69% of the outages occurred on one day.</i>			1Q 2015 2Q 2015 3Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
	Peters	McMurray	<i>Performance was driven by trees off ROW (47%) and trees on ROW (26%). 64% of the outages occurred on three days.</i>			1Q 2015 2Q 2015
			On cycle tree trimming	Complete	Nov-15	
	Piney Fork	Cochran Mill	<i>Performance was driven by equipment failure (56%), line failure (18%), and trees off ROW (16%). 53% of the outages occurred on one day.</i>			1Q 2015 2Q 2015 3Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Feb-15	
	Robbins	Mt. Vernon	<i>Performance was driven by trees off ROW (58%) and forced outages (26%). 89% of the outages occurred on three days.</i>			1Q 2015 2Q 2015
			Circuit inspection	Complete	Nov-15	
			Cycle tree trimming	Complete	Dec-15	
	Smith	Francis Mine	<i>Performance was driven by trees off ROW (87%). 87% of the outages occurred on three days.</i>			1Q 2015 2Q 2015
			No remedial actions are planned at this time			
	Smithton	Fitzhenry	<i>Performance was driven by vehicles (66%) and equipment failure (25%). 65% of the outages occurred on one day.</i>			2Q 2015 3Q 2015
			Cycle tree trimming	Complete	Dec-14	
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Jan-15	
	St. Clair	Valley	<i>Performance was driven by trees off ROW (52%) and vehicles (25%). 49% of the outages occurred on two days.</i>			1Q 2015 2Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	

West Penn Power						
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
	Weedville	Weedville	<i>Performance was driven by trees off ROW (83%) and equipment failure (12%). 70% of the outages occurred on one minor storm day.</i>			2Q 2015 3Q 2015
			Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15	
			On cycle tree trimming	To be completed 2016	0%	
	West Waynesboro	Trinity	<i>Performance was driven by trees off ROW (47%) and vehicles (21%). 78% of the outages occurred on two days.</i>			1Q 2015 2Q 2015
			Cycle tree trimming	Complete	Dec-14	
	Fayetteville	Bikle Road	<i>Performance was driven by trees off ROW (38%), trees on ROW (24%), and line failure (22%). 82% of the outages occurred on three days.</i>			
			Cycle tree trimming	Complete	Aug-15	
	Loyalhanna	Center Drive	<i>Performance was driven by trees off ROW (65%) and lightning (16%). 91% of the outages occurred on three days.</i>			
			On cycle tree trimming	Complete	Mar-15	
	Luzerne	West Brownsville	<i>Performance was driven by vehicles (92%). 98% of the outages occurred on one day.</i>			
			Circuit inspection	Completed	Sep-15	
	Sewickley	Adamsburg	<i>Performance was driven by equipment failure (60%) and trees off ROW (40%). 100% of the outages occurred on two days.</i>			
			Zone 1 circuit patrol. No hardware or tree issues found.	Completed	Sep-15	
	Washington	Wade	<i>Performance was driven by equipment failure (50%), line failure (23%), and trees off ROW (16%). 69% of the outages occurred on two days.</i>			
			On cycle tree trimming	Complete	Oct-15	
	Whiteley	Mt. Morris	<i>Performance was driven by trees on ROW (46%) and trees off ROW (36%). 90% of the outages occurred on three days.</i>			
			Zone 1 tree trimming	To be completed 2016 ²⁶	0%	
			On cycle tree trimming	To be completed 2016	0%	

²⁶ Incorrectly reported with a 2015 completion date in the 3rd quarter

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
2Q	2,889	2,021	2,077	1,896
3Q	3,250	1,818	1,982	1,662
4Q	3,092	1,899	1,949	1,629

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 – 2015 Third Party Line Hit Incidents YTD December 2015²⁷			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	3	\$0	\$0
Excavated in Tolerance	6	\$14,613	\$7,188
Excavation Inconsistent with Ticket Scope	3	\$3,120	\$2,175
Excavation Prior to Lawful Start Date	1	\$198	\$198
Expired Ticket	3	\$7,905	\$2,221
Hand Digging	0	\$0	\$0
Marked Improperly	2	\$3,818	\$3,818
No Ticket	17	\$37,480	\$25,401
Total	35	\$67,134	\$41,001

Penelec – 2015 Third Party Line Hit Incidents YTD December 2015²⁸			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	1	\$0	\$0
Excavated in Tolerance	33	\$64,775	\$19,192
Excavation Inconsistent with Ticket Scope	4	\$3,599	\$3,599
Excavation Prior to Lawful Start Date	2	\$1,940	\$1,940
Expired Ticket	7	\$18,700	\$6,295
Hand Digging	4	\$2,660	\$2,105
Marked Improperly	10	\$32,801	\$27,292
No Ticket	34	\$55,699	\$15,849
Total	95	\$180,174	\$76,272

²⁷ Representative of claims identified since February 16, 2015, which corresponds with the implementation of the new CS-Stars Enterprise Claims Management Platform (STARS).

²⁸ Representative of claims identified since February 16, 2015, which corresponds with the implementation of the new CS-Stars Enterprise Claims Management Platform (STARS).

Met-Ed – 2015 Third Party Line Hit Incidents YTD December 2015²⁹			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	15	\$4,495	\$0
Excavated in Tolerance	24	\$107,358	\$18,737
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	\$1,811
Hand Digging	0	\$0	\$0
Marked Improperly	6	\$8,220	\$7,720
No Ticket	16	\$46,500	\$4,167
Total	78	\$194,758	\$41,395

West Penn Power – 2015 Third Party Line Hit Incidents YTD December 2015³⁰			
Cause of Line Hit	Number of Incidents	Invoice Amount	Recovery Amount
Dig In - Other	7	\$978	\$0
Excavated in Tolerance	3	\$5,721	\$2,900
Excavation Inconsistent with Ticket Scope	3	\$9,449	\$0
Excavation Prior to Lawful Start Date	3	\$1,578	\$439
Expired Ticket	2	\$15,064	\$748
Hand Digging	3	\$0	\$0
Marked Improperly	9	\$15,057	\$6,516
No Ticket	20	\$38,413	\$16,367
Total	50	\$86,260	\$26,970

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

²⁹ Representative of claims identified since February 16, 2015, which corresponds with the implementation of the new CS-Stars Enterprise Claims Management Platform (STARS).

³⁰ Representative of claims identified since February 16, 2015, which corresponds with the implementation of the new CS-Stars Enterprise Claims Management Platform (STARS).

ADDENDUM

Proposed Changes to Approved and Existing 2015-2016 Biennial Inspection, Maintenance, Repair and Replacement Plan³¹

³¹ The proposed changes and revisions that the Companies request herein only pertain to distribution overhead line inspections.

Section 57.198(l): EDC Updates. *An EDC may request approval from the Commission for revising its approved plan. An EDC shall submit to the Commission, as an addendum to its quarterly reliability report under § § 57.193(c) and 57.195, prospective and past revisions to its plan and a discussion of the reasons for the revisions. Within 60 days, the Commission or the Director of CEEP will accept or reject the revisions to the plan. The appeal procedure in subsection (k) applies to the appeal of a rejection of revisions to the plan.*

Request for Revision

Pursuant to 52 Pa. Code § 57.198(l), Pennsylvania Power Company (“Penn Power”), Pennsylvania Electric Company (“Penelec”), Metropolitan Edison Company (“Met-Ed”), and West Penn Power Company (“West Penn Power”) hereby request to modify their current distribution overhead line program. The reason for revision is to include switches and sectionalizers to the list of items to be inspected in the Distribution Inspection & Maintenance Practice – Overhead Circuits and Equipment.

The proposed distribution overhead line program follows on pages 94-97. The Penn Power revision is found on page 94; the Penelec revision is found on page 95; the Met-Ed revision is found on page 96; and the West Penn Power revision is found on page 97. Upon approval, these pages will replace the pages in the existing approved plans.



Distribution Overhead Line Inspections

Section 57.198(n)(4). Distribution overhead line inspections. *Distribution lines shall be inspected by ground patrol a minimum of once every 1 – 2 years. A visual inspection must include checking for:*

- i. Broken insulators*
- ii. Conditions that may adversely affect operation of the overhead distribution line*
- iii. Other conditions that may adversely affect operation of the overhead distribution line*

Program Description

Penn Power shall visually inspect overhead lines and equipment on a five-year cycle. The purpose for inspecting overhead lines and equipment is to identify and repair unsafe conditions or conditions that may adversely affect service reliability, and to comply with the requirements of state regulatory agencies and the National Electrical Safety Code. This program shall be limited to overhead facilities.

Approximately one-fifth of all circuits will be inspected annually to levelize labor commitments and expenses. This preventative maintenance will consist of a visual inspection and recording of abnormal conditions including but not limited to the following types of overhead circuit equipment:

- Conductors (wire and cable) – excessive slack, condition, damage, clearances
- Supporting structures (wood poles) – deteriorated condition, sustained damage (lightning, vehicle, woodpecker holes)
- Pole hardware (including insulators) – condition, damage
- Guying – condition, damage
- Pole-mounted distribution equipment (including overhead transformers) – condition, damage
- Switches
- Sectionalizers

Further detailed information regarding Penn Power's inspection of Distribution Overhead Lines may be found in the Distribution Inspection & Maintenance Practice – Overhead Circuits and Equipment.



Distribution Overhead Line Inspections

Section 57.198(N)(4). Distribution overhead line inspections. *Distribution lines shall be inspected by ground patrol a minimum of once every 1 – 2 years. A visual inspection must include checking for:*

- i. *Broken insulators*
- ii. *Conditions that may adversely affect operation of the overhead distribution line*
- iii. *Other conditions that may adversely affect operation of the overhead distribution line*

Program Description

Penelec shall visually inspect overhead lines and equipment on a five-year cycle. The purpose for inspecting overhead lines and equipment is to identify and repair unsafe conditions or conditions that may adversely affect service reliability, and to comply with the requirements of state regulatory agencies and the National Electrical Safety Code. This program shall be limited to overhead facilities.

Approximately one-fifth of all circuits will be inspected annually to levelize labor commitments and expenses. This preventative maintenance will consist of a visual inspection and recording of abnormal conditions including but not limited to the following types of overhead circuit equipment:

- Conductors (wire and cable) – excessive slack, condition, damage, clearances
- Supporting structures (wood poles) – deteriorated condition, sustained damage (lightning, vehicle, woodpecker holes)
- Pole hardware – condition, damage
- Guying – condition, damage
- Pole-mounted distribution equipment – condition, damage
- Switches
- Sectionalizers

For further detailed information regarding Penelec's inspection of Distribution Overhead Lines, reference the Distribution Inspection & Maintenance Practice – Overhead Circuits and Equipment.



Distribution Overhead Line Inspections

Section 57.198(n)(4). Distribution overhead line inspections. *Distribution lines shall be inspected by ground patrol a minimum of once every 1 – 2 years. A visual inspection must include checking for:*

- i. Broken insulators
- ii. Conditions that may adversely affect operation of the overhead distribution line
- iii. Other conditions that may adversely affect operation of the overhead distribution line

Program Description

Met-Ed shall visually inspect overhead lines and equipment on a five-year cycle. The purpose for inspecting overhead lines and equipment is to identify and repair unsafe conditions or conditions that may adversely affect service reliability, and to comply with the requirements of state regulatory agencies and the National Electrical Safety Code. This program shall be limited to overhead facilities.

Approximately one-fifth of all circuits will be inspected annually to levelize labor commitments and expenses. This preventative maintenance will consist of a visual inspection and recording of abnormal conditions including but not limited to the following types of overhead circuit equipment:

- Conductors (wire and cable) – excessive slack, condition, damage, clearances
- Supporting structures (wood poles) – deteriorated condition, sustained damage (lightning, vehicle, woodpecker holes)
- Pole hardware (including insulators) – condition, damage
- Guying – condition, damage
- Pole-mounted distribution equipment (including overhead transformers) – condition, damage
- Switches
- Sectionalizers

Further detailed information regarding Met-Ed's inspection of Distribution Overhead Lines may be found in the Distribution Inspection & Maintenance Practice – Overhead Circuits and Equipment.



Distribution Overhead Line Inspections

Section 57.198(n)(4). Distribution overhead line inspections. *Distribution lines shall be inspected by ground patrol a minimum of once every 1 – 2 years. A visual inspection must include checking for:*

- i. Broken insulators*
- ii. Conditions that may adversely affect operation of the overhead distribution line*
- iii. Other conditions that may adversely affect operation of the overhead distribution line*

Program Description

West Penn Power shall visually inspect overhead lines and equipment on a six-year cycle. The purpose for inspecting overhead lines and equipment is to identify and repair unsafe conditions or conditions that may adversely affect service reliability, and to comply with the requirements of state regulatory agencies and the National Electrical Safety Code. This program shall be limited to overhead facilities.

Approximately one-sixth of all circuits will be inspected annually to levelize labor commitments and expenses. This preventative maintenance will consist of a visual inspection and recording of abnormal conditions including but not limited to the following types of overhead circuit equipment:

- Conductors (wire and cable) – excessive slack, condition, damage, clearances
- Supporting structures (wood poles) – deteriorated condition, sustained damage (lightning, vehicle, woodpecker holes)
- Pole hardware (including insulators) – condition, damage
- Guying – condition, damage
- Pole-mounted distribution equipment (including overhead transformers) – condition, damage
- Switches
- Sectionalizers

Further information regarding West Penn Power's inspection of Distribution Overhead Lines may be found in the Distribution Inspection & Maintenance Practice – Overhead Circuits and Equipment.

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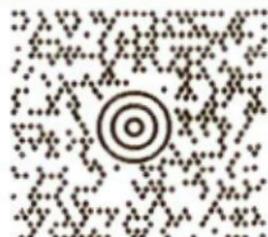
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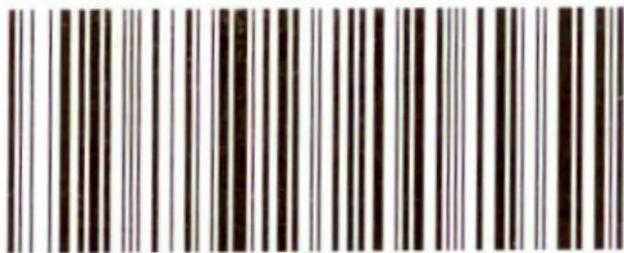
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