M-2016-2522508

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April 29, 2016

VIA UNITED PARCEL SERVICE

RECEIVED

APR 29 2016

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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

Re: Joint 2015 Annual Reliability Report – Metropolitan Edison Company, Pennsylvania Electric Company and Pennsylvania Power Company and West Penn Power Company

Dear Secretary Chiavetta,

Pursuant to 52 Pa. Code § 57.195(a) and (b), enclosed for filing are two copies of the Joint 2015 Annual Reliability Report ("Joint Report") of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company (collectively, the "Companies"). Please date-stamp the additional copy and return it in the postage-paid envelope provided.

Please contact me if you have any questions.

Sincerely,

Tori L. Giesler

dlm
Enclosures

c: As Per Certificate of Service
D. Gill – Bureau of Technical Utility Services
D. Searfoorce – Bureau of Technical Utility Services

PennPower
A FirstEnergy Company

Penelec
A FirstEnergy Company

Met-Ed
A FirstEnergy Company

WestPenn Power
A FirstEnergy Company

Joint 2015 Annual Reliability Report

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

Pursuant to 52 Pa. Code § 57.195(a) and (b)

Joint 2015 Annual Reliability Report
Pennsylvania Power Company, Pennsylvania Electric Company
Metropolitan Edison Company, and West Penn Power Company
Pursuant to 52 Pa. Code Chapter § 57.195(a) and (b)

The following Joint 2015 Report ("Report") is submitted to the Pennsylvania Public Utility Commission ("PaPUC" or "Commission") on behalf of Pennsylvania Power Company ("Penn Power"), Pennsylvania Electric Company ("Penelec"), Metropolitan Edison Company ("Met-Ed"), and West Penn Power Company ("West Penn") (collectively, the "Companies").

Section 57.195(b)(1) *An overall current assessment of the state of the system reliability in the EDC's service territory including a discussion of the EDC's current programs and procedures for providing reliable electric service.*

Current Assessment of the State of System Reliability

Penn Power, Penelec, Met-Ed, and West Penn are committed to providing safe and reliable electric service to their customers. Reliability indices such as System Average Interruption Duration Index ("SAIDI"), System Average Interruption Frequency Index ("SAIFI"), and Customer Average Interruption Duration Index ("CAIDI") indicate that the Companies have generally been successful in their efforts to maintain system reliability. In 2015, all four Companies achieved twelve-month reliability performance standards and, in some instances, performed near or better than their individual benchmark performance standards established by the Commission. The Companies employ various programs to maintain system reliability. For example, to reduce the likelihood of distribution line and equipment caused outages, the Companies follow inspection and maintenance ("I&M") programs that set forth schedules for regular inspection of distribution facilities.[1] In addition to I&M, the Companies employ other routine programs to ensure the reliability of their distribution systems. For example, Companies may perform sectionalization of the system to reduce outages, evaluate devices that experience multiple interruptions, and perform enhanced tree trimming in conjunction with the normal cycle based tree trimming.

[1] Pursuant to 52 Pa. Code § 57.198, every two years an electric distribution company shall file, and receive approval from the Commission of, a biennial plan for the periodic inspection, maintenance, repair and replacement of its facilities. On December 30, 2013, Paul Diskin, Director, Technical Utility Services, issued a letter approving the Companies' biennial inspection, maintenance, repair, and replacement plan effective January 1, 2015 through December 31, 2016.

In addition to the items described above, the Companies have put into place additional plans, through various filings, to further support and improve reliability performance. These filings include Corrective Action Plans ("CAP"),[2] Reliability Plans,[3] Worst Performing Circuit ("WPC") Plans,[4] and the Long Term Infrastructure Improvement Plans ("LTIIP").[5] Components of these plans, in combination with the Companies routine reliability programs, are described in the sections below.

Penn Power

Penn Power has seen positive improvements to all reliability indices. Since 2013, Penn Power achieved a 16% reduction in SAIFI, a 29% reduction in CAIDI, and a 39% reduction in SAIDI. These improvements can be attributed to the actions that the Company has taken and with the aid of favorable weather conditions.

One of Penn Power's largest contributors to the SAIDI, SAIFI, and CAIDI indices are tree-caused outages. In addition to the vegetation management work that Penn Power performs, including its routine vegetation management program and additional trimming of transmission radial taps with an aerial saw, Penn Power's enhanced tree trimming has resulted in the removal of a large number of trees (healthy or not) that are located outside of the right-of-way, which impact lines and make it more difficult to restore quickly. In 2015, the Company performed enhanced trimming on 200 miles of circuits resulting in the removal of a large number of trees that are located outside the right-of-way. The enhanced trimming, combined with its routine vegetation management program, removed over 14,000 off right-of-way trees in 2015. The Company plans to continue with this aggressive off right-of-way tree removal program by performing enhanced trimming on 400 miles in 2016. These efforts are already proving to be successful as the customer minutes interrupted for tree caused outages in 2015 is at a five-year low.

Supervisory control and data acquisition ("SCADA") provides communication with circuit breakers and line switches, which provides the ability to remotely operate the breakers or switches

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[2] In November 2014, Penn Power submitted a CAP designed to improve overall reliability and achieve benchmark performance in all three indices by year-end 2018. The projects and initiatives included in the CAP were for the period of 2014-2018. In December 2014, Penelec submitted a CAP designed to improve overall reliability and achieve benchmark performance in all three indices by year-end 2018. The projects and initiatives included in the CAP were for the period of 2015-2018.

[3] On March 30, 2015, the Commission issued an order directing Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company to prepare and file a revised implementation plan relating to specific topics addressed in the report issued by the Commission's Bureau of Audits on February 12, 2015. *Implementation Plan for the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company*, Docket Nos. D-2013-2365991, D-2013-2365992, D-2013-2365993, D-2013-2365994.

[4] See Footnote 3.

[5] On October 19, 2015, pursuant to Section 1352 of the Pennsylvania Public Utility Code, 52 Pa. Code §§ 121.1 et seq. and the Commission's final order in Implementation of Act 11 of 2012, Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company filed their respective petitions for approval of their LTIIPS at Docket Nos. P-2015-2508942, P-2015-2508936, P-2015-2508948, P-2015-2508931. On February 11, 2016 the Commission approved the plans.

to reduce restoration time. In 2015, Penn Power installed thirty SCADA line switches on its transmission system and seven on its distribution system and, in 2016, plans to install an additional thirty switches on the transmission system and three on the distribution system.

The seven circuits that received SCADA line switches in 2015 were also outfitted with adaptive relaying at their substations. One additional circuit was also outfield with adaptive relaying, bringing the 2015 total to eight circuits. Adaptive relaying installed within substations further allows a breaker to instantaneously trip and reclose during lightning and wind storm temporary events. This clears a momentary fault versus operating a fuse that would create a sustained fault and negatively impact CAIDI.

The Company will install new distribution circuit ties and loops to improve reliability, specifically CAIDI and SAIDI, by reducing long duration outages. This is accomplished by creating an alternate path from which power is provided to customers affected by an outage. In 2015, Penn Power built or upgraded fifteen miles of distribution lines to create the circuit ties and loops and plans to build or upgrade an additional twenty-five miles by the end of 2016.

Penn Power will continue the rehabilitation of selected transmission lines to help reduce CAIDI and SAIDI. In 2015, Penn Power completed twelve miles of 69kV line rehabilitation. In 2016, Penn Power will inspect approximately twenty-four miles of transmission lines, replacing equipment as necessary. Poles, switches, crossarms, insulators and braces are examples of equipment that is typically replaced during this type of effort. This project will strengthen Penn Power's 69kV system, thereby decreasing the risk of extended outages affecting a high volume of customers.

As part of its I&M programs, Penn Power conducts routine field assessments of its facilities with the goal of identifying aging infrastructure and broken equipment during circuit patrols and infrared inspections. Items such as crossarms, braces, switches, insulators, and poles are inspected to determine if they require repair or replacement before they negatively affect the reliability of service to customers.

Penn Power's customers experiencing multiple interruptions ("CEMI") program focuses on the clusters of customers that experience frequent operations of line protection devices. This program not only aims to enhance system performance, but it also provides a means to reduce frequency of outages at the customer level that might not be otherwise addressed when targeting overall system metrics. Since 2005, Penn Power has installed over 200 reclosers and 2,900 fuses to help address these types of concerns.

Penelec

In response to its recent challenges with reliability performance, Penelec conducted an analysis of reliability data which revealed that the two largest contributors to the Company's SAIFI and CAIDI are equipment and off right-of-way tree caused outages. As a result, Penelec's current efforts are focused towards improving SAIFI and CAIDI by reducing equipment failure outages and long duration tree outages.

Cutout failures have been identified as the highest contributor to the equipment failure outage category. Installing new cutouts is expected to greatly enhance the reliability of the 34.5kV system and reduce the number of equipment failures that Penelec experiences. Penelec's porcelain cutout replacement program is specifically geared towards the 34.5kV system. In 2015, Penelec replaced porcelain cutouts on sixty-seven circuits, and plans to complete an additional sixty-eight circuits by the end of 2016.

Targeted circuit rehabilitation is performed where the Company first conducts an inspection to identify equipment replacement needs and then schedules and completes the work. Equipment may include poles, switches, crossarms, insulators, braces, and cutouts. In 2015, Penelec completed the rehabilitation of four circuits, and plans to complete the rehabilitation of two additional circuits in 2016.

Remote SCADA controlled switches allow Penelec personnel to remotely operate switches and potentially restore service to an outaged section of line. This eliminates the need to dispatch crews to manually operate the switch and has the potential to reduce the number of customers affected by an outage, as well as the outage duration. Fourteen SCADA controlled switches were installed in 2015, and the Company plans to install an additional thirteen in 2016.

Off right-of-way tree outages are one of the largest contributors to SAIFI, SAIDI and CAIDI. As part of its vegetation management program, Penelec thoroughly inspects and performs vegetation management on every circuit once every five years. The vegetation management program includes removal of off right-of-way priority trees that are dead, dying, diseased, and leaning, or those that are significantly encroaching upon the right-of-way. Penelec also invests in the proactive removal of Ash trees that have been deemed a threat due to the Emerald Ash Borer insect. Penelec accelerated the removal of trees outside the right-of-way in zones one and two[6] of its distribution and 34.5kV system that typically experience high tree-related SAIFI. In 2015, Penelec accelerated over 1,100

[6] Zone one is defined as the portion of the circuit from the substation breaker to the first protective device. Zone two is defined as the three phase conductor and devices after the first protective device.

miles and plans to accelerate approximately 400 miles in 2016. These miles include the removal of Ash trees deemed a threat due to the Emerald Ash Borer.

As part of its I&M programs, Penelec conducts routine inspections of the distribution system to find areas of the system in need of repair before a potential outage can occur. The Company's I&M programs are geared towards specific components such as capacitors, poles, radio-controlled switches, circuits, transformers, and reclosers. Equipment identified is repaired or replaced, as appropriate.

In addition, Penelec also established a program and a means to track the reduction of the backlog priority 3 ("P3") conditions on its transmission system. Each month, Penelec's leadership reviews the results of the work that was performed to ensure the Company meets its targeted goals. In 2015, Penelec exceeded its goal by repairing 633 P3 conditions. Penelec will work to maintain this positive trend of significantly reducing the number of overdue P3 conditions by executing a five-year reduction plan.

Penelec has identified improvements specifically targeted to improve CAIDI performance. This includes conducting mid-cycle danger tree removal on the top seven circuits with high tree customer minutes interrupted ("CMI") and tree outages. In addition, post storm patrols are performed to identify vegetation that could potentially pose an outage risk. Penelec has also implemented efficiencies into its current storm process targeted to improve CAIDI. This includes the prestaging of internal crews in advance of a weather event and an update to the phone system designed to improve communications between the field and the dispatcher.

Penelec focuses on customer complaints as a starting point to analyze clusters of customers that experience frequent or repeated outages. This includes a thorough review and analysis of equipment on a customer's line by Company engineers to determine whether action is required. If so, Penelec will make the necessary modifications to its lines and equipment to ensure the customer's needs are satisfied. In 2016, sixty-four projects are planned as a result of this program.

Met-Ed

Over the past several years, Met-Ed has continued its trend of strong system reliability performance that not only surpassed the Commission-directed performance standard for SAIFI and SAIDI, but also surpassed the Commission's benchmark performance metric for CAIDI in 2015.

Tree caused outages continue to be one of the leading causes of outages in Met-Ed's service territory. In addition to the vegetation management work that Met-Ed performs, the Company continues with its aggressive tree trimming program across its service territory which led to the

trimming of over 156,000 trees and the removal of over 3,100 off right-of-way priority trees that were identified as dead, dying, diseased, and leaning or significantly encroaching the right-of-way. The trees identified by this program were determined to be a potential cause of a future outage and were removed to prevent an interruption of electrical service to Met-Ed's customers. This tree trimming program will continue in the future to reduce the number of tree-caused outages.

In the event that an outage does occur, Met-Ed has installed protective devices, such as fuses and reclosers, across the entire system. These devices may prevent circuit lockouts by limiting the area of an outage to smaller sections of the circuit. Met-Ed added sixty-five fuses and twelve reclosers to the system in 2015.

Additionally, Met-Ed continued its efforts to add remote controlled sectionalizing devices that allow for prompt restoration during outages. In 2015, ten SCADA devices were installed with plans to install an additional seventy SCADA devices in 2016 on eleven worst performing circuits. These devices reduce the time it takes to restore customers during an outage. Met-Ed also installed 544 fault indicators in 2015 that are designed to help linemen quickly locate the source of an outage.

Met-Ed has also been proactively replacing porcelain cutouts with polymer cutouts. Crews have focused their efforts on zone one of the Company's circuits, as this represents the greatest opportunity to enhance the Company's system. In 2015, Met-Ed replaced 533 porcelain cutouts on ten circuits and will target an additional six circuits in 2016.

As part of its I&M programs, Met-Ed conducts routine field assessments of its facilities with the goal of identifying aging infrastructure and broken equipment during circuit patrols. Items such as crossarms, braces, switches, insulators, and poles are inspected to determine if they require repair or replacement before they can negatively affect the reliability of service to customers.

Met-Ed also established another program as means to track the reduction of the backlog P3 conditions on its transmission system. Similar to Penelec, Met-Ed leadership reviews the results of the work that was performed to ensure the Company meets its targeted goals. In 2015, Met-Ed exceeded its goal by repairing 458 P3 conditions. Met-Ed will work to maintain this positive trend of significantly reducing the number of overdue P3 conditions by executing a five-year reduction plan.

West Penn

In 2015, West Penn not only surpassed the Company's Commission-directed twelve month and three-year performance standard for SAIFI, but also surpassed the Commission's three-year standard and benchmark performance metrics for CAIDI and SAIDI. Since 2013, West Penn has achieved a 3% reduction in SAIFI, a 16% reduction in CAIDI, and a 19% reduction in SAIDI. These improvements can be attributed to the actions that the Company has taken and with the aid of favorable weather conditions.

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 accelerate the mitigation of trees subject to damage by the Emerald Ash Borer from its current five years to a new three-year completion timeline for the subtransmission system and the zone two portion of its distribution system. This program, combined with the Company's on-cycle tree trimming, will improve both blue sky and minor storm performance on both distribution circuits and subtransmission lines.

West Penn has plans to conduct targeted circuit rehabilitation which consist of a circuit inspection, identification of equipment in need of replacement, and then the replacement of the identified equipment. Equipment may include, but is not limited to, poles, switches, crossarms, insulators, braces and cutouts. West Penn plans to target thirty-eight circuits in 2016 for rehabilitation.

The enhanced overcurrent protection and SCADA control program will target the installation of new electronic reclosers with SCADA control which will limit the number of customers affected during a lockout and allow remote switching to restore customers more quickly. Adding SCADA control to electronic reclosers in select substations with existing SCADA capabilities will provide additional monitoring and also allow for remote switching to restore customers at the circuit level more quickly. In 2016, West Penn plans to replace a total of twenty-five breakers with electronic reclosers at five substations.

The underground getaway replacement program will replace select underground substation exits which is cable that leads out of the substation to the overhead lines. These exits are also referred to as underground getaways. Specifically, this program will target underground getaways that were installed prior to 1988 and are known to be prone to failure. By replacing these getaways, West Penn may reduce the interruptions to a circuit associated with the cable as well as the long interruption times associated with the replacement. In 2016, West Penn will replace underground getaways at three substations, which will provide positive impact to nine circuits.

The subtransmission modernization and automation program will oversee the installation of SCADA controlled reclosers and switches and automatic air switch modernization. This will provide enhanced sectionalizing for larger blocks of customers at the substation source level. The SCADA controlled switches will also allow for remote switching to sectionalize and restore large blocks of customers more quickly, leading to reduced outage durations. In 2016, West Penn will install forty-five SCADA controlled reclosers and switches at its substations.

Finally, as part of its I&M programs, West Penn conducts routine field assessments of its facilities with the goal of identifying aging infrastructure and broken equipment during circuit patrols. Items such as crossarms, braces, switches, insulators, and poles are inspected to determine if they require repair or replacement before they can negatively affect the reliability of service to customers.

Conclusion

The Companies continue to make significant investments in their electric systems and employ various programs and projects to improve reliability, limit the scope of outages, and improve outage response times. All of the work described above is designed to better ensure that their reliability performance continues to not only meet the Commission-directed twelve month performance standards, but also to achieve benchmark performance by year-end 2018. The Companies are committed to providing customers with safe and reliable electric service and look forward to seeing the benefits these projects and programs will provide in future years.

Reliability Results

The table below, taken from the 4th Quarter 2015 Joint Reliability Report, shows that all of the Companies' 12 reliability indices in 2015 were better than the Commission's 12-Month Standard (shown in **green**).

4Q 2015 (12-Mo Rolling)	Penn Power			Penelec			Met-Ed			West Penn		
	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.12	1.34	**1.14**	1.26	1.52	**1.36**	1.15	1.38	**1.19**	1.05	1.26	**1.17**
CAIDI	101	121	**100**[7]	117	141	**140**	117	140	**113**[8]	170	204	**154**[9]
SAIDI	113	162	**114**	148	213	**191**	135	194	**136**	179	257	**179**[10]
MAIFI[11]			0.64			2.61			1.18			
Customers Served[12]	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					

[7] Penn Power achieved better than benchmark performance.
[8] Met-Ed achieved better than benchmark performance.
[9] West Penn achieved benchmark performance or better.
[10] West Penn achieved benchmark performance or better.
[11] MAIFI values are not available for West Penn.
[12] Represents the average number of customers served during the reporting period.

Section 57.195(b)(2) *A description of each major event that occurred during the year being reported on, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted to avoid or minimize the impact of similar events in the future.*

Major Events

As defined in 52 Pa. Code § 57.192, a major event is determined to have occurred where: 1) 10% of an electric utility's customers are out of service for five minutes or greater; or 2) an unscheduled interruption of electric service results from an action taken by an electric utility to maintain the adequacy and security of the electrical system, including emergency load control, emergency switching and energy conservation procedures, affecting at least one customer. This annual report for 2015 is based on the exclusion of major events as described in the first scenario above and is consistent with the major events granted by the Commission and reported in each of the 2015 quarterly reports. The major events for 2015 are as follows:

FirstEnergy Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Penn Power	15,838	Duration	23 hours and 39 minutes	Line of severe thunderstorms with high wids (+45 mph)	Approved August 21, 2015
		Start Date/Time	May 11, 2015 18:33		
		End Date/Time	May 12, 2015 18:12		

Section 57.195(b)(3) *A table showing the actual values of each of the reliability indices (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the EDC's service territory for each of the preceding 3 calendar years. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer minutes interruptions, the number of customers affected and the minutes of interruption. If MAIFI values are provided, the number of customer momentary interruptions shall also be reported.*

Reliability Indices

For the purposes of this Report, all reliability reporting is based upon the Commission's definitions for "momentary outages" and "major events" (outage data excluded as a result of major events).

Historic 12-Month Rolling Reliability Indices				
	Index	**2013**	**2014**	**2015**
Penn Power	SAIFI	1.35	1.11	1.14
	CAIDI	140	106	100
	SAIDI	188	118	114
	MAIFI	1.92	1.12	0.64
	Customer Minutes	29,871,524	18,617,503	18,211,842
	Customers Affected	214,133	175,271	181,479
	Minutes of Interruption	1,188,313	721,189	666,315
	Customers Served[13]	159,195	158,429	159,612
Penelec	SAIFI	1.48	1.55	1.36
	CAIDI	117	118	140
	SAIDI	174	183	191
	MAIFI	4.24	4.47	2.61
	Customer Minutes	101,239,564	106,425,607	111,191,315
	Customers Affected	863,604	903,429	792,673
	Minutes of Interruption	2,915,725	2,677,703	3,029,993
	Customers Served[14]	583,116	581,972	581,832
Met-Ed	SAIFI	1.09	1.11	1.19
	CAIDI	105	128	113
	SAIDI	115	141	136
	MAIFI	1.92	1.33	1.18
	Customer Minutes	62,982,468	77,955,889	75,171,284
	Customers Affected	598,111	610,606	662,492
	Minutes of Interruption	1,528,229	2,536,278	2,068,447
	Customers Served[15]	548,887	551,502	554,476

[13] Represents the average number of customers served during the reporting period.
[14] Represents the average number of customers served during the reporting period.
[15] Represents the average number of customers served during the reporting period.

Historic 12-Month Rolling Reliability Indices				
	Index	**2013**	**2014**	**2015**
West Penn	SAIFI	1.21	1.02	1.17
	CAIDI	183	137	154
	SAIDI	222	139	179
	Customer Minutes	157,751,725	99,203,464	127,282,345
	Customers Affected	863,104	722,597	827,613
	Minutes of Interruption	3,888,701	2,592,328	3,418,558
	Customers Served[16]	710,379	711,915	709,782

3-Year Rolling Year-End 2015	Penn Power		Penelec	
	3-Year Standard	3-Year Actual	3-Year Standard	3-Year Actual
SAIFI	1.23	1.20	1.39	1.46
CAIDI	111	115	129	125
SAIDI	136	140	179	183

3-Year Rolling Year-End 2015	Met-Ed		West Penn	
	3-Year Standard	3-Year Actual	3-Year Standard	3-Year Actual
SAIFI	1.27	1.13	1.16	1.13
CAIDI	129	115	187	158
SAIDI	163	131	217	180

[16] Represents the average number of customers served during the reporting period.

Section 57.195(b)(4) *A breakdown and analysis of outage causes during the year being reported on, including the number and percentage of service outages, the number of customers interrupted, the 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 outage data from 2015 to determine proposed solutions to improve reliability. The following paragraphs identify the top outage causes and actions to address these outage causes experienced by Penn Power for the reporting period. See Penn Power's Current Assessment of the State of System Reliability portion of this report, where many of these programs are described in further detail.

To address tree outages, Penn Power implements an enhanced tree removal program that 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 ROW outages over 10,000 customer minutes of interruption 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.

To reduce the likelihood of equipment caused outages, Penn Power follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate. To further reduce equipment caused outages, Penn Power employs additional programs which include installation of SCADA and circuit ties, rehabilitation of transmission lines, and a CEMI program which focuses on clusters of customers that experience frequent operation of devices.

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

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 analyzed its outage data from 2015 to determine proposed solutions to improve reliability. The following paragraphs identify the top outage causes and actions to address these outage causes experienced by Penelec for the reporting period. See Penelec's Current Assessment of the State of System Reliability portion of this report, where many of these programs are described in further detail.

To reduce the likelihood of equipment caused outages, Penelec follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, radio-controlled switches, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate. To further reduce equipment caused outages, Penelec employs additional programs which includes the replacement of porcelain cutouts, targeted circuit rehabilitation, installation of SCADA control switches, targeting clusters of customers that experience frequent outages, and continues to work to reduce the backlog of the P3 conditions on its transmission system.

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

Off right-of-way tree outages are one of the largest contributors to SAIFI, SAIDI and CAIDI. As part of its vegetation management program, Penelec thoroughly inspects and performs vegetation management on every circuit once every five years. The vegetation management program removes off right-of-way priority trees that are dead, dying, diseased, and leaning or significantly encroaching the right-of-way. Penelec also invests in the proactive removal of Ash trees that have been deemed a threat due to the Emerald Ash Borer insect. Penelec accelerated the removal of trees outside the right-of-way in zones one and two of its distribution and 34.5kV system that typically experience high tree-related SAIFI. This includes the removal of Ash trees deemed a threat due to the Emerald Ash Borer.

Submitted Pursuant to 52 Pa. Code § 57.195(a) and (b)

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 analyzed its outage data from 2015 to determine proposed solutions to improve reliability. The following paragraphs identify the top outage causes and actions to address these outage causes experienced by Met-Ed for the reporting period. See Met-Ed's Current Assessment of the State of System Reliability portion of this report, where many of these programs are described in further detail.

To reduce the likelihood of equipment caused outages, Met-Ed follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, radio-controlled switches, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate. To further reduce equipment caused outages, Met-Ed employs additional programs which includes the installation of protective devices and remote controlled sectionalizing devices as well as proactively replaces porcelain cutouts with polymer cutouts, and works to reduce the backlog of the P3 conditions on its transmission system.

To address animal caused outages, Met-Ed installs animal guards on equipment that experiences a high frequency of animal related outages. When possible, animal guards are installed at the time service is restored to prevent future animal related outages. In addition, Met-Ed requires animal guards to be installed on all new overhead and underground riser installations.

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

Outages by Cause – West Penn

Outage by Cause				
4th Quarter 2015 12-Month Rolling	**West Penn**			
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

West Penn analyzed its outage data from 2015 to determine proposed solutions to improve reliability. The following paragraphs below identify the top outage causes and actions to address these outage causes experienced by West Penn for the reporting period. See West Penn's Current Assessment of the State of System Reliability in section 57.195(b)(1) where many of these programs are described in further detail.

To reduce the likelihood of equipment caused outages, West Penn follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate. To further reduce equipment caused outages, West Penn employs additional programs which includes targeted circuit rehabilitation, installation of new electronic reclosers with SCADA control, subtransmission modernization and automation, and an underground getaway replacement program.

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

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

Section 57.195(b)(5) A list of the major remedial efforts taken to date and planned for circuits that have been on the worst performing 5% of circuits list for a year or more.

Worst Performing Circuits – Remedial Actions

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

Section 57.195(b)(6) *A comparison of established transmission and distribution inspections and maintenance goals/objectives versus actual results achieved during the year being reported on. Explanations of any variances shall be included.*

T&D Inspection and Maintenance Programs

Inspection and Maintenance 2015		Penn Power		Penelec		Met-Ed		West Penn	
		Planned	**Completed**	**Planned**	**Completed**	**Planned**	**Completed**	**Planned**	**Completed**
Forestry	Transmission (Miles)	53.31	53.31	526.65	526.65	262.27	262.27	168.99	168.99
	Distribution (Miles)	1,122	1,122	3,791	3,763[17]	2,305	2,305	4,559	4,559
Transmission	Aerial Patrols	2	2	2	2	2	2	2	2
	Groundline	0	0	0	0	1,127	1,379	0	0
Substation	Substation Inspections Class A	146	146	802	802	422	422	980	980
	Substation Inspections Class B	146	146	802	802	422	422	980	980
	Substation Inspections Class C	584	584	3,208	3,208	1,688	1,688	3,920	3,920
	Transformers	112	112	598	598	343	343	551	551
	Breakers	10	10	242	242	71	71	428	428
	Relay Schemes	33	33	153	153	96	96	160	160
Distribution	Capacitors	998	998	8,766	8,766	4,753	4,753	1,304	1,304
	Poles	11,000	11,079	41,111	42,796	29,055	29,987	52,889	53,159
	Reclosers	791	791	2,571	2,570[18]	1,085	1,070[19]	3,762	3,762
	Radio-Controlled Switches (2 / year)	Penn Power has no radio-controlled switches		2,466	2,538	284	282[20]	West Penn has no radio-controlled switches	

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

[17] Penelec completed the remaining twenty-eight miles of its 2015 forestry goal on January 22, 2016.
[18] One unit was not in the field.
[19] Fifteen units were not in the field.
[20] One device incorrectly reported as radio controlled.

Section 57.195(b)(7) A comparison of budgeted versus actual transmission and distribution operation and maintenance expenses for the year being reported on in total and detailed by the EDC's own functional account code of FERC account code as available. Explanations of any variances shall be included.

Budgeted vs. Actual T&D Operation & Maintenance Expenditures

Penn Power T&D O&M - 2015 ($)					
Transmission					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[21]**
560	Operation Supervision and Engineering	290	-	100%	1
561	Load Dispatching	91,237	113,534	-20%	2
562	Station Expenses	1,913	-	100%	3
563	Overhead Lines Expenses	3,327	-	100%	4
565	Transmission of Electricity by Others	4,738,814	7,203,360	-34%	5
566	Miscellaneous Transmission Expenses	31,305	34,009	-8%	
567	Rents	0	-	100%	
568	Maintenance Supervision and Engineering	8,673	10,899	-20%	6
569	Maintenance of Structures	35,532	84,131	-58%	7
570	Maintenance of Station Equipment	34,980	3,047	1,048%	8
571	Maintenance of Overhead Lines	94,535	(78,786)	-220%	9
572	Transmission-Maintenance of Underground Lines	-	-	100%	
573	Maintenance of Miscellaneous Transmission Plant	(680)	-	100%	1
575	Market Administration, Monitoring & Compliance Services	11,801	20,035	-41%	10
Transmission Total		**5,051,728**	**7,390,229**	**-32%**	
Distribution					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[22]**
580	Operation Supervision and Engineering	6,991	-	100%	11
581	Load Dispatching	-	-	-	
582	Station Expenses	28,518	-	100%	12
583	Overhead Line Expenses	84,305	-	100%	13
584	Underground Line Expenses	180,736	570,310	-68%	14
586	Meter Expenses	70,654	84,654	-17%	15
587	Customer Installations Expenses	-	-	-	
588	Miscellaneous Distribution Expenses	(678,993)	782,299	-187%	16
589	Rents	355,110	318,986	11%	17
590	Maintenance Supervision and Engineering	120,273	98,110	23%	18
591	Maintenance of Structures	-	-	-	
592	Maintenance of Station Equipment	851,632	577,877	47%	19
593	Maintenance of Overhead Lines	9,789,770	11,532,013	-15%	20
594	Maintenance of Underground Lines	457,815	(8,657)	-5,388%	21
595	Maintenance of Line Transformer	15,373	-	100%	22
596	Maintenance of Street Lighting and Signal Systems	244,158	-	100%	21
597	Maintenance of Meters	555,398	271,630	104%	23
598	Maintenance of Miscellaneous Distribution Plant	361,511	498,884	-28%	24
Distribution Total		**12,443,249**	**14,726,106**	**-16%**	
Penn Power Total		**17,494,976**	**22,116,335**	**-21%**	

[21] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

[22] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

Penn Power - Variance Explanations (Variances 10% or greater)	
1	Current budgeting practices do not budget directly to FERC accounts. Penn Power budgets to different cost collectors, which settle to FERC accounts. Actual settlements to these FERC accounts are relatively immaterial amounts.
2	Under budget due to transmission and dispatching costs being lower than budgeted.
3	Over budget due to station work labor being higher than budgeted.
4	Over budget due to transmission line labor being higher than budgeted.
5	Under budget due to lower network integration transmission service charges which is a result of greater customers shopping than anticipated.
6	Under budget due to lower supervision and engineering costs than budgeted.
7	Under budget due to lower information technology service labor and software costs.
8	Over budget due to higher labor, contractors and materials for maintenance of station equipment.
9	Over budget due to tree trimming, material and labor greater than budget for maintenance of overhead lines.
10	Under budget due to load procurement expenses less than budget.
11	Over budget due distribution operations supervision and engineering costs greater than budget.
12	Over budget due to higher labor, leases, and materials for equipment repair and maintenance than anticipated.
13	Over budget due to higher labor and contractor costs for overhead lines.
14	Under budget due to lower contractor services, labor, and materials less than budget.
15	Under budget due to lower labor required for meter replacements and repairs than budgeted.
16	Under budget due to lower material, and lease assessment costs.
17	Over budget due to higher joint use rental than budgeted.
18	Over budget due to higher contractor and labor allocations of distribution maintenance supervision and engineering costs than budget.
19	Over budget due to higher contractor, labor, and material costs for maintenance of station equipment than budget.
20	Under budget due to lower contractors, leases, and materials for maintenance of overhead lines than budgeted.
21	Over budget due to higher labor, materials, and lease costs for maintenance being greater than budgeted.
22	Over budget due to higher labor for maintenance of distribution transformers than budgeted.
23	Over budget due to higher labor, motor fuels, vehicle lease costs for maintenance of meters than budget.
24	Under budget due to information technology service labor, materials, and stores handling less than budget.

Penelec T&D O&M - 2015 ($)					
Transmission					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[23]**
560	Operation Supervision and Engineering	45,593	18,466	147%	1
561	Load Dispatching	658,975	1,412,098	-53%	2
562	Station Expenses	34,750	-	100%	3
563	Overhead Lines Expenses	318,224	355,969	-11%	4
565	Transmission of Electricity by Others	16,139,619	16,480,442	-2%	
566	Miscellaneous Transmission Expenses	321,292	514,740	-38%	5
567	Rents	3,416,765	3,344,046	2%	
568	Maintenance Supervision and Engineering	990,987	1,459,004	-32%	6
569	Maintenance of Structures	571,044	486,189	17%	7
570	Maintenance of Station Equipment	2,484,324	426,117	483%	8
571	Maintenance of Overhead Lines	9,923,296	10,264,838	-3%	
572	Transmission - Maintenance of Underground Lines	1,482	-	100%	9
573	Maintenance of Miscellaneous Transmission Plant	21,960	-	100%	10
575	Market Administration, Monitoring & Compliance Services	16,729	30,918	-46%	11
Transmission Total		**34,945,041**	**34,792,827**	**0%**	
Distribution					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[24]**
580	Operation Supervision and Engineering	271,858	101,171	169%	12
581	Load Dispatching	384,733	427,181	-10%	
582	Station Expenses	409,701	-	100%	13
583	Overhead Line Expenses	30,073	52,827	-43%	14
584	Underground Line Expenses	786,940	789,356	0%	
586	Meter Expenses	625,155	717,586	-13%	6
587	Customer Installations Expenses	-	-	-	
588	Miscellaneous Distribution Expenses	8,601,881	5,227,693	65%	15
589	Rents	1,660,717	1,227,405	35%	16
590	Maintenance Supervision and Engineering	531,479	445,602	19%	1
591	Maintenance of Structures	-	-	-	
592	Maintenance of Station Equipment	3,327,335	6,784,758	-51%	17
593	Maintenance of Overhead Lines	18,765,452	20,139,740	-7%	
594	Maintenance of Underground Lines	1,062,304	175,254	506%	12
595	Maintenance of Line Transformer	78,003	-	100%	1
596	Maintenance of Street Lighting and Signal Systems	889,515	2,692,017	-67%	17
597	Maintenance of Meters	2,253,958	1,788,857	26%	18
598	Maintenance of Miscellaneous Distribution Plant	3,740,602	2,423,154	54%	7
Distribution Total		**43,419,705**	**42,992,600**	**1%**	
Penelec Total		**78,364,745**	**77,785,428**	**1%**	

[23] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

[24] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

	Penelec - Variance Explanations (Variances 10% or greater)
1	Over budget due to supervision and engineering overheads being greater than planned.
2	Under budget due to lower outside services/contractors and PJM reimbursable services settling to load dispatching.
3	Over budget due to labor requirements and network costs being more than planned.
4	Under budget due to equipment rental expenses being less than planned.
5	Under budget due to lower outside services/contractors and labor costs being less than planned.
6	Under budget due to labor costs being less than planned.
7	Over budget due to higher information technology costs than anticipated.
8	Over budget due to internal labor required to complete this work being more than planned.
9	Current budgeting practices do not budget directly to FERC accounts. Penelec budgets to different cost collectors, which settle to FERC accounts. Actual settlements to these FERC accounts are relatively immaterial amounts.
10	Over budget due to materials required for this work being greater than planned.
11	Under budget due to lower load procurement expenses for the load serving entity.
12	Over budget due to labor costs being more than planned.
13	Over budget due to internal labor required to complete this work which was not budgeted to this FERC account.
14	Under budget due to other costs being less than planned.
15	Over budget due to fleet costs charged to O&M being greater than planned.
16	Over budget due to no contribution in aid to construction and labor costs being greater than planned.
17	Under budget due to fleet costs charged to O&M and labor costs being less than planned.
18	Over budget due to labor required to complete this work being greater than planned.

Met-Ed T&D O&M - 2015 ($)					
Transmission					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[25]**
560	Operation Supervision and Engineering	38,933	17,503	122%	1
561	Load Dispatching	612,144	1,491,628	-59%	2
562	Station Expenses	36,791	-	100%	3
563	Overhead Lines Expenses	37,578	33,112	13%	4
565	Transmission of Electricity by Others	13,767,113	16,390,649	-16%	5
566	Miscellaneous Transmission Expenses	417,824	444,540	-6%	
567	Rents	1,037,323	835,574	24%	6
568	Maintenance Supervision and Engineering	845,187	1,258,782	-33%	7
569	Maintenance of Structures	339,329	402,996	-16%	8
570	Maintenance of Station Equipment	2,035,772	2,389,753	-15%	7
571	Maintenance of Overhead Lines	4,030,981	5,550,301	-27%	9
572	Maintenance of Underground Lines	-	-	100%	
573	Maintenance of Miscellaneous Transmission Plant	304,184	218,250	39%	10
575	Market Administration, Monitoring & Compliance Services	20,983	39,104	-46%	11
Transmission Total		**23,524,144**	**29,072,193**	**-19%**	
Distribution					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[26]**
580	Operation Supervision and Engineering	123,189	94,022	31%	12
581	Load Dispatching	234,175	377,351	-38%	13
582	Station Expenses	852,118	621,931	37%	14
583	Overhead Line Expenses	52,833	37,277	42%	15
584	Underground Line Expenses	(184,895)	576,477	-132%	16
586	Meter Expenses	553,739	738,286	-25%	17
587	Customer Installations Expenses	-	-	100%	
588	Miscellaneous Distribution Expenses	6,415,886	8,848,872	-27%	18
589	Rents	537,279	540,873	-1%	
590	Maintenance Supervision and Engineering	484,960	407,244	19%	19
591	Maintenance of Structures	12,040	17,728	-32%	20
592	Maintenance of Station Equipment	3,682,164	3,938,353	-7%	
593	Maintenance of Overhead Lines	19,275,880	18,199,723	6%	
594	Maintenance of Underground Lines	2,080,927	2,028,332	3%	
595	Maintenance of Line Transformer	177,644	394,300	-55%	20
596	Maintenance of Street Lighting and Signal Systems	911,116	251,887	262%	21
597	Maintenance of Meters	2,254,848	1,774,920	27%	22
598	Maintenance of Miscellaneous Distribution Plant	2,200,762	2,213,807	-1%	
Distribution Total		**39,664,665**	**41,061,383**	**-3%**	
Met-Ed Total		**63,188,809**	**70,133,576**	**-10%**	

[25] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

[26] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

	Met-Ed - Variance Explanations (Variances 10% or greater)
1	Over budget due to higher than planned service company labor allocations.
2	Under budget due to lower than planned contractor expenses.
3	Over budget due to higher than planned labor and transportation expenses.
4	Over budget due to higher than planned labor expense.
5	Under budget due to lower PJM emergency load response and transmission enhancement charges.
6	Over budget due to higher than planned building lease/rentals.
7	Under budget due to lower than planned labor expenses.
8	Under budget due to lower than planned information technology labor, utilities and software maintenance.
9	Under budget due to lower vegetation management contractor expenses.
10	Over budget due to higher than planned materials and utilities expenses.
11	Under budget due to lower than planned load procurement expenses for the load service entity.
12	Over budget due to higher than planned labor, telecommunications, and right of way expenses.
13	Under budget due to lower than planned labor, direct purchases, and telecommunications expenses.
14	Over budget due to higher than planned contractors, leases, hardware maintenance, and utilities.
15	Over budget due to higher than planned labor, equipment acquisition, contractors, and telecommunications.
16	Under budget due to adjustments made for construction overheads for supervision & engineering and administration & general.
17	Under budget due to lower than planned labor and materials.
18	Under budget due to lower than planned amortizations, labor, contractors, materials, leases, utilities and telecommunications expenses.
19	Over budget due to higher than planned labor and outside contractors.
20	Under budget due to lower contractor and material expenses.
21	Over budget due to higher than planned labor and material expenses.
22	Over budget due to higher than planned labor, materials, leases, and telecommunications expenses.

West Penn T&D O&M - 2015 ($)					
Transmission					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[27]**
560	Operation Supervision and Engineering	45,606	19,812	130%	1
561	Load Dispatching	870,063	2,074,497	-58%	2
562	Station Expenses	117,718	1,878,106	-94%	3
563	Overhead Lines Expenses	37,997	7,000	443%	4
565	Transmission of Electricity by Others	38,478,662	29,981,264	28%	5
566	Miscellaneous Transmission Expenses	247,455	347,572	-29%	6
567	Rents	305,193	263,394	16%	7
568	Maintenance Supervision and Engineering	423,002	442,246	-4%	
569	Maintenance of Structures	71,872	287,972	-75%	8
570	Maintenance of Station Equipment	2,241,711	252,380	788%	9
571	Maintenance of Overhead Lines	9,588,917	3,992,661	140%	10
572	Maintenance of Underground Lines	480	-	100%	11
573	Maintenance of Miscellaneous Transmission Plant	-	-	-	
575	Market Administration, Monitoring & Compliance Services	46	-	100%	11
Transmission Total		**52,428,722**	**39,546,903**	**33%**	
Distribution					
	Category	**2015 Actuals**	**2015 Budget**	**Variance %**	**Notes[28]**
580	Operation Supervision and Engineering	207,358	123,987	67%	12
581	Load Dispatching	1,346,663	1,439,153	-6%	
582	Station Expenses	521,657	1,226,191	-57%	3
583	Overhead Line Expenses	1,872,868	1,333,065	40%	13
584	Underground Line Expenses	1,145,564	974,363	18%	14
586	Meter Expenses	803,148	733,731	9%	
587	Customer Installations Expenses	-	-	100%	
588	Miscellaneous Distribution Expenses	14,377,839	11,969,124	20%	15
589	Rents	-	-	100%	
590	Maintenance Supervision and Engineering	477,161	401,360	19%	16
591	Maintenance of Structures	-	-	100%	
592	Maintenance of Station Equipment	9,410,098	6,250,731	51%	17
593	Maintenance of Overhead Lines	20,717,185	28,820,050	-28%	18
594	Maintenance of Underground Lines	681,870	1,706,905	-60%	19
595	Maintenance of Line Transformer	53,251	-	100%	20
596	Maintenance of Street Lighting and Signal Systems	1,027,303	803,116	28%	17
597	Maintenance of Meters	1,283,058	1,381,068	-7%	
598	Maintenance of Miscellaneous Distribution Plant	929,432	1,755,701	-47%	21
Distribution Total		**54,854,455**	**58,918,545**	**-7%**	
West Penn Total		**107,283,177**	**98,465,448**	**9%**	

[27] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

[28] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

West Penn - Variance Explanations (Variances 10% or greater)	
1	Over budget due to greater transmission operation supervision and engineering FirstEnergy Service Company costs for labor and all other expenses being greater than planned.
2	Under budget due to contractor and labor costs required to perform the work being less than planned.
3	Under budget due to internal labor and fleet requirements for the work being less than anticipated.
4	Over budget due to higher work Management and engineering service labor costs than budgeted.
5	Over budget due to transmission enhancement charges-TrAIL and PJM ancillary service transmission enhancement "schedule 12" charges being more than planned.
6	Under budget due to labor costs required to perform the work being less than planned.
7	Over budget due to rents for information technology and transmission personnel occupying space at the Akron Control Center and Wadsworth were greater than planned.
8	Under budget due to lower information technology labor costs than anticipated.
9	Over budget due to internal labor, contractor, material, and lease costs being more than planned.
10	Over budget due to higher internal labor and contractor costs for tree-trimming being greater than planned.
11	Current budgeting practices do not budget directly to FERC accounts. West Penn budgets to different cost collectors, which settle to FERC accounts. Actual settlements to these FERC accounts are relatively immaterial amounts.
12	Over budget due to distribution supervision and engineering costs being greater than planned.
13	Over budget due to contractor costs being more than planned.
14	Over budget due to contractor costs for underground locating work being more than planned.
15	Over budget due to company vehicle and internal labor costs being greater than planned, partially offset by contractor, material, utilities, and lease costs being less than planned.
16	Over budget due to contractor costs for technologies being more than planned.
17	Over budget due to internal labor, contractor, and material costs being greater than planned.
18	Under budget due to internal labor, contractor tree trimming, and fleet costs being less than planned.
19	Under budget due to internal labor, contractor, and fleet costs being less than planned.
20	Current budgeting practices do not budget directly to FERC accounts. West Penn budgets to different cost collectors, which settle to FERC accounts. Actual settlements to these FERC accounts are primarily immaterial amount for service company labor, contractor, and other expense for Connellsville transformer repairs.
21	Under budget due to lower information technology labor costs and FirstEnergy Service Company costs than planned.

Section 57.195(b)(8) *A comparison of budgeted versus actual transmission and distribution operation and maintenance capital expenses for the year being reported on in total and detailed by the EDC's own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.*

Budgeted vs. Actual T&D Capital Expenditures

Penn Power T&D Capital – 2015 ($)					
Category	**2015 Actuals**	**2015 Budget**	**Annual Budget**	**Variance %**	**Notes[29]**
Capacity	5,410,528	2,223,398	2,223,398	143%	1
Condition	1,893,346	7,034,550	7,034,550	-73%	2
Facilities	672,682	956,803	956,803	-30%	3
Forced	6,124,876	2,041,265	2,041,265	200%	4
Meter Related	1,051,671	(29,894)	(29,894)	-3,618%	5
New Business	4,004,496	2,547,564	2,547,564	57%	6
Other	27,669,374	21,961,385	21,961,385	26%	7
Reliability	8,800,593	2,532,325	2,532,325	248%	8
Street Light	190,899	65,228	65,228	193%	9
Tools & Equip	854,147	323,145	323,145	164%	10
Vegetation Mgt.	3,659,267	3,992,187	3,992,187	-8%	
Penn Power Total	**60,331,878**	**43,647,957**	**43,647,957**		

Penelec T&D Capital – 2015 ($)					
Category	**2015 Actuals**	**2015 Budget**	**Annual Budget**	**Variance %**	**Notes[30]**
Capacity	10,338,380	5,883,018	5,883,018	76%	11
Condition	17,046,125	25,235,991	25,235,991	-32%	12
Facilities	4,460,285	2,429,569	2,429,569	84%	13
Forced	36,712,283	32,416,429	32,416,429	13%	14
Meter Related	7,138,962	3,780,689	3,780,689	89%	15
New Business	11,011,362	11,739,956	11,739,956	-6%	
Other	23,184,348	29,531,666	29,531,666	-21%	16
Reliability	26,000,345	15,068,538	15,068,538	73%	17
Street Light	1,998,008	1,864,142	1,864,142	7%	
Tools & Equip	6,895,053	4,770,812	4,770,812	45%	18
Vegetation Mgt.	18,243,269	20,627,446	20,627,446	-12%	19
Penelec Total	**163,028,422**	**153,348,258**	**153,348,258**		

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

[29] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on page 33.

[30] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on page 33.

Met-Ed T&D Capital – 2015 ($)					
Category	**2015 Actuals**	**2015 Budget**	**Annual Budget**	**Variance %**	**Notes[31]**
Capacity	7,483,011	7,351,896	7,351,896	2%	
Condition	19,893,177	14,746,353	14,746,353	35%	20
Facilities	5,508,796	3,895,007	3,895,007	41%	21
Forced	29,088,516	21,860,758	21,860,758	33%	22
Meter Related	3,833,236	3,864,460	3,864,460	-1%	
New Business	14,565,309	12,437,644	12,437,644	17%	23
Other	25,640,553	26,503,727	26,503,727	-3%	
Reliability	6,452,397	6,533,178	6,533,178	-1%	
Street Light	302,742	492,096	492,096	-38%	24
Tools & Equip	1,677,772	946,073	946,073	77%	25
Vegetation Mgt.	5,598,279	5,116,770	5,116,770	9%	
Met-Ed Total	**120,043,789**	**103,747,962**	**103,747,962**		

West Penn T&D Capital – 2015 ($)					
Category	**2015 Actuals**	**2015 Budget**	**Annual Budget**	**Variance %**	**Notes[32]**
Capacity	8,336,170	6,879,465	6,879,465	21%	26
Condition	6,664,763	9,772,124	9,772,124	-32%	2
Facilities	7,596,716	5,988,783	5,988,783	27%	27
Forced	22,869,626	28,791,843	28,791,843	-21%	28
Meter Related	3,779,453	2,570,325	2,570,325	47%	15
New Business	19,419,586	25,459,848	25,459,848	-24%	29
Other	22,245,233	20,133,955	20,133,955	10%	7
Reliability	7,024,525	7,112,923	7,112,923	-1%	
Street Light	1,741,411	827,750	827,750	110%	30
Tools & Equip	2,543,628	1,698,880	1,698,880	50%	31
Vegetation Mgt.	29,732,249	31,277,667	31,277,667	-5%	
West Penn Total	**131,953,360**	**140,513,562**	**140,513,562**		

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

[31] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

[32] Please use the numbers listed in the "Notes" column when referencing the "Variance Explanations (Variances 10% or greater)" table on the next page.

	Variance Explanations (Variances 10% or greater)
1	Over budget due to equipment replacement projects being higher than budgeted.
2	Under budget due to fewer unscheduled equipment repairs and replacements than budgeted.
3	Under budget due to lower roofing repair costs on the Clark service center than anticipated.
4	Over budget due to additional forestry work, line failure work, highway relocation, and related follow up work being greater than budgeted.
5	Over budget due to greater meter related work than budgeted.
6	Over budget due to greater residential and commercial new business work than anticipated in the budget.
7	Over budget due to work order aggregation for closeout.
8	Over budget due to greater circuit reliability work and equipment replacement than budgeted.
9	Over budget due to higher unscheduled lighting repair and replacement-related work than budgeted.
10	Over budget due to higher work management equipment and tool costs than budgeted.
11	Over budget due to timing differences in several construction projects and adjustment to capital related payroll overhead.
12	Under budget due to timing differences in several construction projects.
13	Over budget due to Erie Power Systems Institute relocation and Johnstown service center hardening project.
14	Over budget due to critical infrastructure protection version 5, electric service standard - distribution overhead circuit inspection & maintenance follow-up, and substation repair costs being greater than planned.
15	Over budget due to the meter exchange program and smart meter project being greater than planned.
16	Under budget due to PN - smart meter implementation and 2015 - reinforceable pole work - distribution being less than planned.
17	Over budget due to higher condition repairs, clearance remediation costs, and 2015 Penelec corrective active plan being greater than planned.
18	Over budget due to work management rollout and information technology projects being greater than planned.
19	Under budget due to both vegetation management planned distribution and vegetation management planned transmission being less than planned.
20	Over budget due to higher than planned distribution overhead/underground projects, substation projects, transmission priority repair projects, and information technology projects.
21	Over budget due to Reading Pottsville Pike and service center projects, lighting upgrades and construction of training towers.
22	Over budget due to major storms, substation failures, critical infrastructure protection version 5 compliance and the Mt. Rose substation project.
23	Over budget due to residential new business and other service upgrades.
24	Under budget due to lower than planned streetlight repairs.
25	Over budget due to information technology projects being greater than planned.
26	Over budget due to an accounting adjustment assigning higher payroll overheads than budgeted.
27	Over budget due to more facilities work performed than budgeted, including Greensburg Transmission Ops. consolidation.
28	Under budget due to major storm costs being less than budgeted.
29	Under budget due to commercial new business being less than budgeted.
30	Over budget due to LED replacement of streetlights and outdoor area lighting upgrades being greater than budgeted.
31	Over budget due to higher information technology projects and small tools costs being greater than budgeted.

Section 57.195(b)(9) *Quantified transmission and distribution inspection and maintenance goals/objectives for the current calendar year detailed by system area (that is, transmission, substation and distribution).*

T&D Inspection & Maintenance Programs – 2016 Goals / Objectives

T&D Inspection & Maintenance Programs - 2016				
Program/Project	**Penn Power**	**Penelec**	**Met-Ed**	**West Penn**
Forestry				
Transmission (Miles)	116.03	386.17	258.02	171.55
Distribution (Miles)	1,109	3,794	2,349	4,516
Transmission				
Aerial Patrols	2	2	2	2
Groundline (Poles)	532	1,274	904	15
Substation				
Substation Inspections Class A	146	798	420	972
Substation Inspections Class B	146	798	420	972
Substation Inspections Class C	584	3,192	1,680	3,888
Transformers	100	524	222	504
Breakers	8	256	24	322
Relay Schemes	14	101	97	160
Distribution				
Capacitors	992	8,783	4,755	1,305
Poles	10,600	41,111	17,111	26,880
Reclosers	808	2,567	1,079	3,776
Radio-Controlled Switches (2 / year)	Penn Power has no radio-controlled switches	2,566	290	West Penn has no radio-controlled switches

Section 57.195(b)(10) Budgeted transmission and distribution operation and maintenance expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.

2016 T&D O&M Budget[33]

Penn Power T&D O&M - Annual 2016 ($)		
Transmission		
Category		**Annual Budget**
561	Load Dispatching	113,534
565	Transmission of Electricity by Others	7,912,360
566	Miscellaneous Transmission Expenses	120,490
568	Maintenance Supervision and Engineering	11,263
569	Maintenance of Structures	22,815
570	Maintenance of Station Equipment	3,047
571	Maintenance of Overhead Lines	(104,906)
573	Maintenance of Miscellaneous Transmission Plant	-
575	Market Administration, Monitoring & Compliance Services	20,035
Transmission Total		**8,098,638**
Distribution		
Category		**Annual Budget**
580	Operation Supervision & Engineering	-
582	Station Expenses	-
584	Underground Line Expenses	549,945
586	Meter Expenses	83,916
588	Miscellaneous Distribution Expenses	760,794
589	Rents	318,986
590	Maintenance Supervision and Engineering	108,672
592	Maintenance of Station Equipment	490,579
593	Maintenance of Overhead Lines	12,525,125
594	Maintenance of Underground Lines	(8,657)
596	Maintenance of Street Lighting and Signal Systems	-
597	Maintenance of Meters	267,587
598	Maintenance of Miscellaneous Distribution Plant	120,281
Distribution Total		**15,217,228**
Penn Power Total		**23,315,866**

[33] Budgets are subject to change.

Submitted Pursuant to 52 Pa. Code § 57.195(a) and (b)

Penelec T&D O&M - Annual 2016 ($)		
Transmission		
	Category	**Annual Budget**
560	Operation Supervision & Engineering	18,384
561	Load Dispatching	1,410,677
563	Overhead Line Expenses	355,969
565	Transmission of Electricity by Others	17,928,442
566	Miscellaneous Transmission Expenses	1,105,164
567	Rents	3,344,046
568	Maintenance Supervision and Engineering	1,457,226
569	Maintenance of Structures	109,605
570	Maintenance of Station Equipment	428,628
571	Maintenance of Overhead Lines	10,257,981
573	Maintenance of Miscellaneous Transmission Plant	-
575	Market Administration, Monitoring & Compliance Services	30,918
Transmission Total		**36,447,042**
Distribution		
	Category	**Annual Budget**
580	Operation Supervision & Engineering	106,900
581	Load Dispatching	421,219
583	Overhead Line Expenses	52,827
584	Underground Line Expenses	789,356
586	Meter Expenses	723,375
588	Miscellaneous Distribution Expenses	7,101,929
589	Rents	1,227,405
590	Maintenance Supervision and Engineering	493,177
592	Maintenance of Station Equipment	7,191,895
593	Maintenance of Overhead Lines	19,487,596
594	Maintenance of Underground Lines	175,254
596	Maintenance of Street Lighting and Signal Systems	2,905,519
597	Maintenance of Meters	1,899,872
598	Maintenance of Miscellaneous Distribution Plant	563,528
Distribution Total		**43,139,852**
Penelec Total		**79,586,894**

Met-Ed T&D O&M - Annual 2016 ($)		
Transmission		
	Category	**Annual Budget**
560	Operation Supervision & Engineering	19,295
561	Load Dispatching	1,549,563
563	Overhead Line Expenses	33,112
565	Transmission of Electricity by Others	17,657,649
566	Miscellaneous Transmission Expenses	965,756
567	Rents	835,574
568	Maintenance Supervision and Engineering	1,257,255
569	Maintenance of Structures	98,136
570	Maintenance of Station Equipment	2,658,144
571	Maintenance of Overhead Lines	5,742,576
573	Maintenance of Miscellaneous Transmission Plant	171,572
575	Market Administration, Monitoring & Compliance Services	39,104
Transmission Total		**31,027,737**
Distribution		
	Category	**Annual Budget**
580	Operation Supervision & Engineering	138,032
581	Load Dispatching	429,836
582	Station Expenses	635,086
583	Overhead Line Expenses	37,277
584	Underground Line Expenses	576,477
586	Meter Expenses	912,550
588	Miscellaneous Distribution Expenses	4,800,085
589	Rents	540,873
590	Maintenance Supervision and Engineering	450,737
591	Maintenance of Structures	19,064
592	Maintenance of Station Equipment	3,345,342
593	Maintenance of Overhead Lines	20,575,029
594	Maintenance of Underground Lines	2,101,516
595	Maintenance of Line Transformers	-
596	Maintenance of Street Lighting and Signal Systems	256,266
597	Maintenance of Meters	1,808,430
598	Maintenance of Miscellaneous Distribution Plant	719,375
Distribution Total		**37,345,977**
Met-Ed Total		**68,373,714**

West Penn T&D O&M - Annual 2016 ($)		
Transmission		
	Category	**Annual Budget**
560	Operation Supervision & Engineering	19,724
561	Load Dispatching	2,080,358
562	Station Expenses	1,463,984
563	Overhead Line Expenses	7,006
565	Transmission of Electricity by Others	30,864,730
566	Miscellaneous Transmission Expenses	347,235
567	Rents	263,394
568	Maintenance Supervision and Engineering	388,602
569	Maintenance of Structures	83,486
570	Maintenance of Station Equipment	199,456
571	Maintenance of Overhead Lines	5,544,493
573	Maintenance of Miscellaneous Transmission Plant	-
575	Market Administration, Monitoring & Compliance Services	-
Transmission Total		**41,262,469**
Distribution		
	Category	**Annual Budget**
580	Operation Supervision & Engineering	130,262
581	Load Dispatching	1,470,338
582	Station Expenses	1,256,706
583	Overhead Line Expenses	1,374,063
584	Underground Line Expenses	974,363
586	Meter Expenses	1,079,896
588	Miscellaneous Distribution Expenses	10,496,974
589	Rents	-
590	Maintenance Supervision and Engineering	444,241
591	Maintenance of Structures	-
592	Maintenance of Station Equipment	2,919,585
593	Maintenance of Overhead Lines	35,868,603
594	Maintenance of Underground Lines	728,590
595	Maintenance of Line Transformers	-
596	Maintenance of Street Lighting and Signal Systems	831,979
597	Maintenance of Meters	1,472,240
598	Maintenance of Miscellaneous Distribution Plant	551,464
Distribution Total		**59,599,305**
West Penn Total		**100,861,774**

Section 57.195(b)(11) Budgeted transmission and distribution capital expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.

2016 T&D Capital Budget[34]

Penn Power T&D Capital - Annual 2016 ($)	
Category	**Annual Budget**
Capacity	751,832
Condition	7,150,119
Facilities	602,890
Forced	3,122,387
Meter Related	(29,741)
New Business	1,532,307
Other	5,520,456
Reliability	18,597,817
Street Light	30,169
Tools & Equip	439,691
Vegetation Management	3,773,223
Penn Power Total	**41,491,149**

Penelec T&D Capital - Annual 2016 ($)	
Category	**Annual Budget**
Capacity	27,883,571
Condition	21,748,193
Facilities	3,990,402
Forced	30,242,225
Meter Related	4,571,800
New Business	10,288,566
Other	60,570,532
Reliability	17,571,069
Street Light	2,049,681
Tools & Equip	1,538,594
Vegetation Management	21,191,380
Penelec Total	**201,646,013**

[34] Budgets are subject to change and are reported on a Generally Accepted Accounting Principles (GAAP) basis.

Met-Ed T&D Capital - Annual 2016 ($)	
Category	**Annual Budget**
Capacity	16,592,793
Condition	21,080,001
Facilities	2,640,989
Forced	26,337,879
Meter Related	4,017,105
New Business	15,597,407
Other	26,337,860
Reliability	12,193,200
Street Light	403,763
Tools & Equip	1,281,871
Vegetation Management	11,280,846
Met-Ed	**137,763,715**

West Penn T&D Capital - Annual 2016 ($)	
Category	**Annual Budget**
Capacity	7,892,506
Condition	9,082,236
Facilities	3,345,053
Forced	29,427,863
Meter Related	3,143,581
New Business	28,649,406
Other	21,760,865
Reliability	27,984,215
Street Light	3,030,711
Tools & Equip	3,351,261
Vegetation Management	28,833,132
West Penn	**166,500,829**

Section 57.195(b)(12) *Significant changes, if any, to the transmission and distribution maintenance programs previously submitted to the Commission.*

Changes to T&D Maintenance Programs

The Companies continue to review their inspection and maintenance practices to confirm that they are consistent with industry standards and that they support the achievement of the applicable Commission-approved reliability benchmarks and standards. In the 4th quarter of 2015, the Companies requested approval to include switches and sectionalizers as part of the Companies Distribution Overhead Line Inspection practices as items that will be inspected. On March 4, 2016, the Commission granted approval with this change being effective beginning in 2016.

Submitted Pursuant to 52 Pa. Code § 57.195(a) and (b)

ATTACHMENT A

Worst Performing Circuits – Remedial Actions

Penn Power				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Hadley	W-195	*Performance was driven by line failure (36%), trees off ROW (27%), and ice (12%).*		
		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
Stoneboro	W-131	*Performance was driven by trees off ROW (38%), equipment failure (26%), and line failure (20%).*		
		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

Penelec				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Belleville	00124-81	*Performance was driven by vehicles (79%) and line failure (20%). 97% of the outages occurred on two days.*		
		Repair line failure	Complete	Jan-15
		Repair damage caused by a vehicle	Complete	Jan-15
		Circuit inspection	Complete	Jun-15
Birmingham	00168-22	*Performance was driven by line failure (34%), trees off ROW (34%), and vehicles (22%).*		
		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%
Boyer	00583-31	*Performance was driven by lightning (35%), equipment failure (27%), and trees off ROW (10%).*		
		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
Buffalo Road	00265-31	*Performance was driven by vehicles (81%) and equipment failure (12%). 84% of the outages occurred on two days.*		
		Repair damage caused by vehicle accident	Complete	Jan-15
		Repair equipment failure	Complete	Jan-15
		Porcelain cutout replacement	Complete	Nov-15
Cooper	00069-11	*Performance was driven by trees off ROW (55%) and line failure (43%).*		
		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

Penelec				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
DuBois	00137-23	*Performance was driven by equipment failure (48%), trees off ROW (23%), vehicles (9%), and recloser operation of unknown cause (9%).*		
		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
DuBois Central	00119-23	*Performance was driven by trees off ROW (85%).*		
		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%
East Pike	00095-13	*Performance was driven by equipment failure (69%) and line failure (18%).*		
		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
Grandview	00354-51	*Performance was driven by trees off ROW (79%) and line failure (18%).*		
		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				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Madera	00166-22	*Performance was driven by trees off ROW (46%), line failure (28%), and equipment failure (16%).*		
		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
Marienville	00328-51	*Performance was driven by trees off ROW (67%) and line failure (18%).*		
		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
McConnellstown	00099-82	*Performance was driven by a breaker operation of unknown cause (55%) and trees off ROW (38%).*		
		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
McKean	00411-34	*Performance was driven by trees off ROW (58%) and line failure (29%).*		
		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%

Penelec				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Millcreek	00052-11	*Performance was driven by line failure (71%) and vehicles (23%).*		
		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
N Meshoppen Tran	00534-65	*Performance was driven by trees off ROW (90%) and equipment failure (5%).*		
		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%
Piney	00523-51	*Performance was driven by equipment failure (40%), animals (21%), trees off ROW (16%), and line failure (7%).*		
		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
Salix	00070-11	*Performance was driven by equipment failure (52%) and trees off ROW (41%).*		
		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				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Tionesta Jct Sw Sta	00498-51	*Performance was driven by trees off ROW (54%), equipment failure (35%), and a recloser operation of unknown cause (9%).*		
		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
Union City	00206-43	*Performance was driven by equipment failure (29%), lightning (28%), and trees off ROW (26%).*		
		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%
Warren South	00220-41	*Performance was driven by trees off ROW (88%) and line failure (6%).*		
		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%

Met-Ed				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Bern Church	00789-1	*Performance was driven by equipment failure (30%), vehicles (18%), trees off ROW (13%), and trees on ROW (11%).*		
		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%
		Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	60%
		Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	50%
		Overhead circuit inspection	To be completed 2016	0%
Birchwood	00622-3	*Performance was driven by trees off ROW (94%).*		
		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%

Met-Ed				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Birdsboro	00756-1	*Performance was driven by trees off ROW (66%) and line failure (20%).*		
		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 cutouts on circuit backbone with polymer cutouts	To be completed 2016	50%
		Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	25%

Met-Ed				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Birdsboro	00757-1	*Performance was driven by trees off ROW (40%), line failure (31%), and trees on ROW (14%).*		
		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%
		Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	50%
		Install additional Supervisory Control and Data Acquisition (SCADA) switches and reclosers	To be completed 2016	25%
		Targeted tree trimming to improve reliability	To be completed 2016	0%

Met-Ed				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Fox Hill	00816-3	*Performance driven by forced outages (40%), vehicles (23%), and trees off ROW (22%).*		
		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%
Mountain	00744-4	*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.*		
		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				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Newberry	00576-4	*Performance was driven by trees off ROW (57%).*		
		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
		Replace porcelain cutouts on recloser backbone with polymer cutouts	To be completed 2016	50%
		Install additional Supervisory Control and Data Acquisition (SCADA) switch	To be completed 2016	25%
North Bangor	00826-3	*Performance was driven by equipment failure (48%) and line failure (23%).*		
		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
		Replace porcelain cutouts on circuit backbone with polymer cutouts	To be completed 2016	80%
		Overhead circuit inspection	To be completed 2016	75%
		Install Supervisory Control and Data Acquisition (SCADA) on two reclosers	To be completed 2016	50%
		Replace spacer cable along Meixel Valley Rd with open wire	To be completed 2016	50%

Met-Ed				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Shawnee	00860-3	*Performance was driven by equipment failure (68%).*		
		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
		Replace porcelain side-post insulators on circuit 3 phase with polymer insulators	To be completed 2016	80%
		Install additional Supervisory Control and Data Acquisition (SCADA) switches	To be completed 2016	50%
		Install Supervisory Control and Data Acquisition (SCADA) on recloser	To be completed 2016	50%
Shawnee	00895-3	*Performance was driven by trees off ROW (33%), forced outage (27%), trees on ROW (20%), and equipment failure (15%).*		
		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
		Install additional Supervisory Control and Data Acquisition (SCADA) switch	To be completed 2016	50%
		Install additional Supervisory Control and Data Acquisition (SCADA) recloser	To be completed 2016	50%
		On cycle tree trimming	To be completed 2016	0%

Met-Ed				
Substation	**Circuit**	**Remedial Action Planned or Taken**	**Status of Remedial Work Completed**	**Progress of Remedial Work or Date Completed**
Swatara Hill	00764-2	*Performance was driven by vehicles (58%) and equipment failure (32%).*		
		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

West Penn				
Substation	**Circuit**	**Remedial Actions Planned or Taken**	**Status of Remedial Work**	**Progress of Remedial Work or Date Completed**
Cecil	Bishop	*Performance was driven by trees off ROW (81%) and forced outages (13%). 70% of the outages occurred during a minor storm.*		
		Zone 1 circuit patrol. Five danger trees found and remediated.	Complete	Jul-15
Dutch Fork	Claysville	*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 occurred during minor storms.*		
		Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15
Gordon	Tyler	*Performance was driven by equipment failure (39%), trees on ROW (29%), and vehicles (19%). 90% of the outages occurred during three minor storms.*		
		Zone 1 circuit patrol. No hardware or tree issues found.	Complete	Mar-15
Lake Lynn-Union	Fancy Hill	*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 occurred during minor storms.*		
		On cycle tree trimming	Complete	Nov-15
Murrycrest	Sardis Road	*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 occurred during a minor storm.*		
		Zone 1 circuit patrol. No hardware issues found. Twenty-two trees found and remediated.	Complete	Mar-15
Westraver	Fellsburg	*Performance was driven by line failure (74%) and trees on ROW (12%). 85% of the outages occurred on two days.*		
		On cycle tree trimming	Complete	Sept-15
Westraver	Pittsburgh Coal	*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 day, three of which occurred during minor storms.*		
		On cycle tree trimming	Complete	Dec-15

ATTACHMENT B

Automatic Splice Failures

Pursuant to the Joint Petition For Full Settlement of Proceeding at Docket No. C-2012-2307244, West Penn Power Company will track automatic splice failures and will report, for a period of three years, on the frequency of automatic splice failures as part of its annual reliability report. A report that includes this data is to be filed with the Commission for the next three years as an attachment to the reliability report filed on an annual basis.

For the reporting period of 2015, West Penn experienced a total of 2 (two) automatic splice failures.

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Joint 2015 Annual Reliability Report –	:
Metropolitan Edison Company,	:
Pennsylvania Electric Company and	:
Pennsylvania Power Company	:

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

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

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

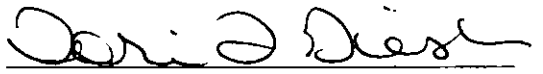
Scott Rubin
Utility Workers Union of America
333 Oak Lane
Bloomsburg, PA 17815-2036

Service by electronic mail, as follows:

David Dulick, General Counsel
David Dulick@ccsenergy.com

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

Dated: April 30, 2015



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