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February 3, 2014

**VIA UNITED PARCEL SERVICE**Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120**Re: Joint 4<sup>th</sup> Quarter 2013 Reliability Report – Metropolitan Edison Company,  
Pennsylvania Electric Company and Pennsylvania Power Company –  
Public Version**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 57.195(d) and (e), enclosed for filing on behalf of Metropolitan Edison Company, Pennsylvania Electric Company and Pennsylvania Power Company (collectively, the “Companies”) are two copies of the Joint 4<sup>th</sup> Quarter 2013 Reliability Report – Public Version (“Joint Report”). Please date stamp the additional copy and return it in the postage-prepaid envelope provided.

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

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

**RECEIVED**

Sincerely,

FEB 03 2014

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAUDavid J. Karafa  
President, Pennsylvania Operations

Enclosures

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

**PennPower**  
A FirstEnergy Company

**Penelec**  
A FirstEnergy Company

**Met-Ed**  
A FirstEnergy Company



## Joint 2013 4<sup>th</sup> Quarter Reliability Report

Pennsylvania Power Company,  
Pennsylvania Electric Company and  
Metropolitan Edison Company

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

**Joint 4<sup>th</sup> Quarter 2013 Reliability Report –  
Pennsylvania Power Company,  
Pennsylvania Electric Company and  
Metropolitan Edison Company**

*Section 57.195(e)(1): A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future<sup>1</sup>*

*Major Events*

The Companies did not experience a major event during the reporting period ending December 31, 2013.

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

*Section 57.195(e)(2): Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available MAIFI) for the EDC's service territory for the preceding quarter. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer interruptions, the number of customers affected, and the customer minutes of interruption. If MAIFI values are provided, the report shall also include the number of customer momentary interruptions.*

**Reliability Index Values**

4Q 2013 (12-Mo Rolling)	Penn Power			Penelec			Met-Ed		
	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	1.35 <sup>4</sup>	1.26	1.52	1.48	1.15	1.38	1.09 <sup>2</sup>
CAIDI	101	121	140 <sup>4</sup>	117	141	117 <sup>3</sup>	117	140	105 <sup>2</sup>
SAIDI	113	162	188 <sup>4</sup>	148	213	174	135	194	115 <sup>2</sup>
MAIFI			1.42			4.24			1.92
Customers Served <sup>5</sup>	159,195			583,116			548,887		
Number of Sustained Interruptions	3,450			11,265			7,261		
Customers Affected	214,133			863,604			598,111		
Customer Minutes	29,871,524			101,239,564			62,982,468		
Number of Customer Momentary Interruptions	225,439			2,471,057			1,052,998		

<sup>2</sup> Met-Ed achieved better than benchmark for SAIFI, CAIDI and SAIDI.

<sup>3</sup> Penelec achieved benchmark for CAIDI.

<sup>4</sup> Penn Power's higher-than-normal reliability performance is directly attributed to two non-excludable storm events that occurred on April 10 and June 25, 2013, which contributed a 52 minute SAIDI impact.

<sup>5</sup> Represents the average number of customers served during the reporting period

*Section 57.195(e)(3): Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system. An explanation of how the EDC defines its worst performing circuits shall be included.*

### *Worst Performing Circuits – Reliability Indices*

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

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

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

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

*Worst Performing Circuits – Remedial Actions*

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

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

### Outages by Cause

#### Outages by Cause – Penn Power<sup>6</sup>

Outages by Cause				
4th Quarter 2013 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
LIGHTNING	2,177,708	476	14,956	13.80%
TREES OFF ROW-TREE	9,565,324	440	52,921	12.75%
ANIMAL	658,586	406	8,294	11.77%
BIRD	355,238	372	4,357	10.78%
EQUIPMENT FAILURE	2,193,595	350	51,916	10.14%
LINE FAILURE	2,194,265	308	17,308	8.93%
TREES/NOT PREVENTABLE	5,213,842	263	12,407	7.62%
TREES OFF ROW-LIMB	1,829,578	195	12,163	5.65%
UNKNOWN	331,567	93	3,249	2.70%
TREES - SEC/SERVICE	116,008	88	357	2.55%
VEHICLE	1,221,607	83	8,557	2.41%
ICE	1,130,404	72	1,606	2.09%
OVERLOAD	227,238	63	2,956	1.83%
FORCED OUTAGE	215,081	56	7,029	1.62%
TREES ON ROW	1,480,297	53	3,517	1.54%
PREVIOUS LIGHTNING	56,406	51	363	1.48%
HUMAN ERROR -NON-COMPANY	306,474	25	2,076	0.72%
CUSTOMER EQUIPMENT	38,277	15	6,255	0.43%
HUMAN ERROR - COMPANY	4,488	11	121	0.32%
OBJECT CONTACT WITH LINE	476,669	11	2,955	0.32%
UG DIG-UP	10,516	6	121	0.17%
VANDALISM	59,468	5	567	0.14%
TREES/PREVENTABLE	2,791	3	23	0.09%
WIND	2,747	2	3	0.06%
CONTAMINATION	2,001	1	29	0.03%
OTHER ELECTRIC UTILITY	636	1	4	0.03%
SWITCHING ERROR	713	1	23	0.03%
<b>Total</b>	<b>29,871,524</b>	<b>3,450</b>	<b>214,133</b>	<b>100.00%</b>

<sup>6</sup> In May 2013, new outage cause codes were added to help better categorize tree related outages. Definitions of these codes are as follows:

Trees On ROW - An outage caused by tree that has grown into or contacted a Penn Power primary within the distribution clearing zone  
 Trees Off ROW-Tree - An outage caused by tree that has fallen into a Penn Power primary outside the distribution clearing zone  
 Trees Off ROW-Limb - An outage caused by tree limb that has fallen into a Penn Power primary outside the distribution clearing zone  
 Trees - Sec/Service - An outage caused by tree that has grown into or contacted a Penn Power secondary or service.

## Proposed Solutions – Penn Power

### Lightning

The number of lightning-caused outages is mitigated through Penn Power's reliability improvement strategy. This includes inspection and maintenance practices such as circuit inspections and annual main feed inspections. These inspections can locate blown lightning arresters, broken grounds and other condition items which could lead to higher lightning-caused outages. Substations also contain lightning protection through equipment such as arresters and grounding. These items are maintained by the substation group based on the substation practices. Distribution protection coordination reviews allow for a fewer number of customers affected and quicker isolation of the affected circuit sections. In addition, Penn Power conducts periodic reviews of multi-operation devices to identify causes and trends and will engineer solutions to reduce the frequency of the outages.

### Trees Off ROW-Tree

Forestry Services reviews the "Trees Off ROW-Tree" outages 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. 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-Tree" 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.

### Animal

Animal guards are installed on equipment where a high frequency of animal related outages is experienced. When possible, animal guards are installed at the time service is restored for the outages caused by animals.

Outages by Cause – Penelec<sup>7</sup>

Outages by Cause				
4th Quarter 2013 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
EQUIPMENT FAILURE	21,067,549	2,932	233,926	26.03%
UNKNOWN	10,190,282	2,064	128,284	18.32%
TREES OFF ROW-TREE	23,808,972	951	95,730	8.44%
ANIMAL	1,770,532	908	32,407	8.06%
LINE FAILURE	12,508,136	880	115,736	7.81%
FORCED OUTAGE	6,110,372	708	46,882	6.28%
TREES/NOT PREVENTABLE	6,311,692	438	43,010	3.89%
LIGHTNING	3,938,654	405	31,004	3.60%
TREES - SEC/SERVICE	513,223	324	1,264	2.88%
VEHICLE	4,360,712	319	32,828	2.83%
BIRD	464,487	291	5,801	2.58%
TREES OFF ROW-LIMB	3,388,468	283	27,820	2.51%
HUMAN ERROR - COMPANY	195,775	177	2,460	1.57%
HUMAN ERROR -NON-COMPANY	893,196	111	10,447	0.99%
OVERLOAD	562,621	81	12,169	0.72%
CUSTOMER EQUIPMENT	1,935,393	78	16,055	0.69%
TREES ON ROW	134,274	65	821	0.58%
OTHER ELECTRIC UTILITY	174,606	60	1,988	0.53%
UG DIG-UP	84,895	41	490	0.36%
PREVIOUS LIGHTNING	49,154	32	160	0.28%
OBJECT CONTACT WITH LINE	166,256	29	1,393	0.26%
CONTAMINATION	1,036,570	24	13,962	0.21%
VANDALISM	67,324	21	507	0.19%
ICE	144,193	17	491	0.15%
FIRE	183,379	9	1,872	0.08%
WIND	1,159,105	7	5,260	0.06%
OTHER UTILITY-NON ELEC	14,226	6	150	0.05%
SWITCHING ERROR	5,180	2	685	0.02%
TREES/PREVENTABLE	338	2	2	0.02%
<b>Total</b>	<b>101,239,564</b>	<b>11,265</b>	<b>863,604</b>	<b>100.00%</b>

<sup>7</sup> In May 2013, new outage cause codes were added to help better categorize tree related outages. Definitions of these codes are as follows:

Trees On ROW - An outage caused by tree that has grown into or contacted a Penelec primary within the distribution clearing zone

Trees Off ROW-Tree - An outage caused by tree that has fallen into a Penelec primary outside the distribution clearing zone

Trees Off ROW-Limb - An outage caused by tree limb that has fallen into a Penelec primary outside the distribution clearing zone

Trees - Sec/Service - An outage caused by tree that has grown into or contacted a Penelec secondary or service.

## Proposed Solutions – Penelec

### Equipment Failure

Porcelain cutout failures represent approximately one-third of the equipment failure outages in Penelec's territory. To address this cause, Penelec continues to replace porcelain cutouts with polymer cutouts on the main feed three-phase backbone of circuits.

Inspection and maintenance practices, such as overhead circuit inspections, identify and correct potential equipment-related problems before they cause an outage. Penelec is inspecting the entire circuit from substation to meter which includes the main three-phase backbone system on a five-year cycle. Off-cycle inspections are performed based on circuit performance and may include infrared scanning to assist in identification of potential equipment problems.

To reduce the impact of outages, distribution circuit protection coordination reviews and the enhanced circuit protection schemes that result provide isolation of equipment failures. To limit the number of multiple outages at the same location, Engineering Services continually monitors and investigates devices experiencing three or more outages in sixty days to identify causes and trends of equipment failures and other outages.

### Unknown

Outage-by-cause analysis is one of the tools used to analyze and develop circuit and system reliability improvement plans. If the troubleshooter cannot accurately identify the cause of an outage, that outage is coded with an unknown cause. To limit the number of unknown outages, and to identify the outage cause, troubleshooters are directed to continue to patrol a circuit, even after service has been restored, as long as those patrols will not interfere with restoration of other customers. Significant unknown outages are reviewed by Reliability Engineering, with post outage circuit inspections being completed as needed by reliability inspectors.

### Trees Off ROW-Tree

Forestry Services reviews the "Trees Off ROW-Tree" outages to see if there has been a high frequency of occurrences on the circuit. A patrol of the circuit is conducted to identify dead or diseased trees that need to be trimmed or removed to avoid future outages. In addition, line and forestry personnel patrol for danger/priority trees as part of their daily work routine. The danger/priority tree inspections identify off right-of-way trees that present a hazard to power lines. Circuits are then prioritized by customer minutes due to "Trees Off ROW-Tree" outages. A patrol of the entire circuit is performed and Forestry Services works with private property owners to remove any potentially dangerous tree conditions. This practice has been adopted as part of the Company's normal tree trimming maintenance program.

Outages by Cause – Met-Ed<sup>8</sup>

Outages by Cause				
4th Quarter 2013 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
EQUIPMENT FAILURE	18,699,169	2,113	214,166	29.10%
ANIMAL	3,004,590	1,076	27,213	14.82%
UNKNOWN	3,995,693	870	50,726	11.98%
TREES OFF ROW-TREE	8,996,430	503	56,619	6.93%
LINE FAILURE	6,600,045	501	38,347	6.90%
LIGHTNING	2,340,781	327	24,753	4.50%
FORCED OUTAGE	3,920,703	303	62,330	4.17%
VEHICLE	5,959,469	295	38,117	4.06%
TREES/NOT PREVENTABLE	2,883,257	274	23,787	3.77%
BIRD	382,822	226	4,470	3.11%
TREES OFF ROW-LIMB	2,338,148	216	17,377	2.97%
TREES ON ROW	1,215,052	164	7,218	2.26%
TREES - SEC/SERVICE	173,157	88	723	1.21%
OVERLOAD	414,317	79	3,545	1.09%
HUMAN ERROR -NON-COMPANY	489,673	49	4,582	0.67%
HUMAN ERROR - COMPANY	678,479	34	16,331	0.47%
PREVIOUS LIGHTNING	27,817	31	160	0.43%
UG DIG-UP	71,343	27	345	0.37%
OBJECT CONTACT WITH LINE	558,894	21	3,041	0.29%
TREES/PREVENTABLE	66,714	16	524	0.22%
CUSTOMER EQUIPMENT	19,012	15	258	0.21%
WIND	52,197	11	246	0.15%
VANDALISM	25,539	8	2,537	0.11%
OTHER UTILITY-NON ELEC	45,831	5	438	0.07%
FIRE	5,847	3	162	0.04%
OTHER ELECTRIC UTILITY	1,878	3	25	0.04%
CONTAMINATION	2,254	2	34	0.03%
ICE	13,357	1	37	0.01%
<b>Total</b>	<b>162,982,468</b>	<b>17,261</b>	<b>1,598,111</b>	<b>100.00%</b>

<sup>8</sup> In May 2013, new outage cause codes were added to help better categorize tree related outages. Definitions of these codes are as follows:

- Trees On ROW - An outage caused by tree that has grown into or contacted a Met-Ed primary within the distribution clearing zone
- Trees Off ROW-Tree - An outage caused by tree that has fallen into a Met-Ed primary outside the distribution clearing zone
- Trees Off ROW-Limb - An outage caused by tree limb that has fallen into a Met-Ed primary outside the distribution clearing zone
- Trees - Sec/Service - An outage caused by tree that has grown into or contacted a Met-Ed secondary or service

## Proposed Solutions – Met-Ed

### Equipment Failure

The number of equipment failures is mitigated by way of inspection and maintenance practices, such as circuit inspections and others. Further, distribution circuit protection coordination reviews and the enhanced circuit protection schemes that result will provide isolation of equipment failures and lessen the impact of outages to a smaller number of customers. In addition, the Engineering Department periodically conducts a multi-operation device review to identify causes and trends of equipment failures and other outage causes. Engineering then plans accordingly to repair or replace facilities.

### Animal

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

### Unknown

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

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

*Section 57.195(e)(6): Quarterly and year-to-date information on progress toward meeting transmission and distribution inspection and maintenance goals/objectives (for first, second and third quarter reports only).*

### *T&D Inspection and Maintenance Programs*

Information is not required for the 4<sup>th</sup> Quarter report.

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

*Section 57.195(e)(7): Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC's own functional account code as available. (For first, second and third quarter reports only).*

*Budgeted vs. Actual T&D Operation & Maintenance Expenditures*

Information is not required for the 4<sup>th</sup> Quarter report.

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

*Section 57.195(e)(8): Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures in total and detailed by the EDC's own functional account code or FERC account code as available. (For first, second and third quarter reports only).*

*Budgeted vs. Actual T&D Capital Expenditures*

Information is not required for the 4<sup>th</sup> Quarter report.

*Section 57.195(e)(9): Dedicated staffing levels for transmission and distribution operation and maintenance at the end of the quarter, in total and by specific category (for example, linemen, technician, and electrician).*

*Staffing Levels*

Penn Power 2013					
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	27	29	28	28
	Lineman	66	63	61	61
Substation	Technician	4	4	4	4
	Construction & Maintenance (C&M)	21	21	20	18
<b>Total</b>		<b>118</b>	<b>117</b>	<b>113</b>	<b>111</b>

Penelec 2013					
Department	Staff	1Q	2Q	3Q	4Q <sup>i</sup>
Line	Leader / Chief	140	137	129	85
	Lineman	178	179	180	146
Substation	Technician	6	6	6	5
	Construction & Maintenance (C&M)	71	69	69	53
<b>Total</b>		<b>395</b>	<b>391</b>	<b>384</b>	<b>289</b>

Met-Ed 2013					
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	54	53	53	52
	Lineman	178	176	176	174
Substation	Technician	15	15	15	15
	Construction & Maintenance (C&M)	59	59	59	59
<b>Total</b>		<b>306</b>	<b>303</b>	<b>303</b>	<b>300</b>

<sup>i</sup> On November 25, 2013 FirstEnergy declared a lockout of members of Utilities Workers Union of America (UWUA) Local 180 at its Penelec subsidiary. UWUA Local 180 represents approximately 140 line, substation, clerks and meter services employees. Penelec initiated a work continuation plan that covers the work in the UWUA Local 180 area utilizing management personnel and contractors.

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

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

### *Contractor Expenditures*

This portion of the report is confidential per Docket L-00301061.

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

### *Call-out Acceptance Rate*

This portion of the report is confidential per Docket L-00301061.

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

*Call-out Response*

This portion of the report is confidential per Docket L-00301061.

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

Penn Power													
Circuit Rank	Substation	Circuit Desc	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Conneaut	W-173	Clark	1,933	38	1	974,627	2,850	6.12	504.2	1.47	341.97	0
2	Hickory	W-245	Clark	1,457	15	2	883,252	3,156	5.55	602.08	2.15	279.86	3
3	Jamestown	W-162	Clark	1,037	58	0	802,307	3,263	5.04	773.68	3.15	245.88	0
4	Hermitage	W-260	Clark	2,394	54	2	641,238	6,005	4.03	267.85	2.51	106.78	0
5	Stoneboro	W-130	Clark	804	35	0	638,989	1,278	4.01	794.76	1.59	499.99	0.09
6	Sharon	W-135	Clark	1,131	37	1	622,819	2,115	3.91	550.68	1.87	294.48	0
7	Sharpsville	W-218	Clark	1,330	31	1	580,062	2,411	3.64	436.14	1.81	240.59	1
8	Mercer	W-167	Clark	851	45	0	560,739	1,309	3.52	658.92	1.54	428.37	0
9	Silver Street	W-268	Clark	2,181	22	2	560,058	4,898	3.52	256.79	2.25	114.34	0

Penelec													
Circuit Rank	Substation	Circuit Desc	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Union City	00206-43	Erie	3,774	132	1	2,756,918	16,917	4.73	731	4.48	163	10.70
2	Union City	00425-43	Erie	721	19	0	1,352,089	1,709	2.32	1,875	2.37	791	8.78
3	Springboro	00237-52	Meadville	2,830	75	0	1,257,247	7,902	2.17	448	2.79	160	11.85
4	Madera	00165-22	Philipsburg	697	33	0	1,254,418	3,070	2.15	1,800	4.40	409	13.45
5	East Pike	00095-13	Indiana	3,337	31	1	1,158,246	6,539	1.99	347	1.96	177	2.04
6	Madera	00166-22	Philipsburg	2,489	61	2	1,130,178	11,512	1.94	454	4.63	98	5.70
7	Marienville	00328-51	Oil City	1,170	42	0	1,018,486	2,444	1.75	871	2.09	417	19.83
8	Warren South	00220-41	Warren	2,968	65	0	842,484	4,017	1.44	284	1.35	210	6.39
9	Edinboro	00420-34	Erie	1,587	34	1	809,585	4,558	1.39	510	2.87	178	7.23
10	Philipsburg	00162-22	Philipsburg	3,277	95	0	735,393	7,615	1.26	224	2.32	97	16.43
11	Erie South	00259-31	Erie	2,513	70	1	707,045	6,954	1.21	281	2.77	102	1.98
12	Logan	00700-81	Lewistown	1,020	33	0	701,343	1,930	1.20	688	1.89	363	22.49
13	DuBois	00124-23	DuBois	2,089	27	0	698,084	6,251	1.20	334	2.99	112	0.81
14	Saxton	00624-73	Altoona	622	8	0	674,564	802	1.16	1,085	1.29	841	1.62
15	Lake Como	00788-65	Montrose	730	29	2	658,457	3,278	1.13	902	4.49	201	17.65
16	Williamsburg	00046-71	Altoona	386	23	0	641,268	1,630	1.10	1,661	4.22	393	2.40
17	East Pike	00094-13	Indiana	1,526	14	2	640,982	6,453	1.10	420	4.23	99	14.88
18	Seward	00075-11	Johnstown	905	20	0	600,715	3,070	1.03	664	3.39	196	5.59
19	Belleville	00124-81	Lewistown	544	24	2	592,869	1,710	1.02	1,090	3.14	347	24.68
20	Union City	00207-43	Erie	854	30	2	577,702	4,012	0.99	676	4.70	144	13.03
21	Rolling Meadows	00310-31	Erie	3,061	26	0	548,913	4,174	0.94	179	1.36	132	0.59
22	French Road	00223-31	Erie	2,101	31	2	538,264	10,339	0.92	256	4.92	52	2.16
23	Cerry East	00440-43	Erie	592	22	1	520,642	1,292	0.89	879	2.18	403	8.17
24	St. Benedict	00057-72	Altoona	921	14	1	518,079	2,043	0.89	563	2.22	254	12.01
25	East Towanda	00525-62	Towanda	675	33	0	475,070	2,332	0.81	704	3.45	204	5.01
26	Maitland	00149-81	Lewistown	1,317	49	0	455,882	2,236	0.78	346	1.70	204	11.22
27	Birmingham	00168-22	Philipsburg	1,048	36	0	450,920	2,813	0.77	430	2.68	160	30.27
28	Tunkhannock	00533-65	Montrose	1,231	52	1	442,274	2,671	0.76	359	2.17	166	12.00
29	Tower 51	00051-11	Johnstown	586	22	0	431,103	1,282	0.74	736	2.19	336	5.64
30	Madera	00147-22	Philipsburg	1,070	30	2	430,242	3,255	0.74	402	3.04	132	24.27
31	Covington	00729-63	Mansfield	757	31	0	430,156	2,072	0.74	568	2.74	208	2.17

Penelec													
Circuit Rank	Substation	Circuit Desc	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
32	Emlenton	00121-51	Oil City	655	24	2	406,954	2,587	0.70	621	3.95	157	13.44
33	Viscose Hill	00116-81	Lewistown	673	20	0	404,994	814	0.69	602	1.21	498	0.44
34	Tiffany	00440-65	Monroese	1,207	19	0	394,782	2,613	0.68	327	2.16	151	4.58
35	Edgewood	00097-13	Indiana	1,349	15	0	390,714	3,383	0.67	290	2.51	115	16.14
36	Hilltop	00048-11	Johnstown	1,996	20	1	383,303	7,354	0.66	192	3.68	52	11.17
37	Blairsville East	00080-13	Indiana	1,059	22	0	380,464	3,042	0.65	359	2.87	125	4.17
38	Main Street	00675-63	Mansfield	651	16	1	360,676	1,269	0.62	554	1.95	284	5.52
39	Elk Run	00622-23	DuBois	1,048	29	0	358,973	1,651	0.62	343	1.58	217	6.94
40	Hooversville	00019-12	Somerset	1,637	40	0	355,897	3,819	0.61	217	2.33	93	0.97
41	Edgewood	00089-13	Indiana	889	31	1	355,442	1,774	0.61	400	2.00	200	7.93
42	French Road	00222-31	Erie	1,828	17	0	352,775	2,206	0.60	193	1.21	160	0.00
43	DuBois	00137-23	DuBois	2,926	63	0	349,340	3,580	0.60	119	1.22	98	4.32
44	Rockton Mountain	00138-21	Clearfield	497	14	0	345,407	787	0.59	695	1.58	439	3.11
45	Waverly	00164-66	Towanda	951	23	2	341,973	2,037	0.59	360	2.14	168	5.63
46	Union City	00208-43	Erie	1,257	44	2	340,407	2,574	0.58	271	2.05	132	10.28
47	Tionesta Jct Sw Sta	00498-51	Oil City	1,109	44	0	336,576	2,232	0.58	303	2.01	151	2.76
48	Cooper	00069-11	Johnstown	657	18	0	335,526	888	0.58	511	1.35	378	5.78
49	Tionesta	00344-51	Oil City	529	12	0	332,220	763	0.57	628	1.44	435	1.09
50	Lake Como	00787-65	Monroese	743	25	0	322,115	2,147	0.55	434	2.89	150	5.69
51	Clearfield	00148-21	Clearfield	1,689	41	0	321,174	2,482	0.55	190	1.47	129	21.99
52	Mount Union	00154-82	Lewistown	1,196	30	1	316,002	1,843	0.54	264	1.54	171	2.98
53	Timblin	00103-23	DuBois	803	42	1	311,427	2,783	0.53	388	3.47	112	33.68
54	Mine 40	00277-11	Johnstown	477	7	0	308,171	1,148	0.53	646	2.41	268	4.10
55	Platea	00432-34	Erie	610	31	0	302,456	2,338	0.52	496	3.83	129	7.05
56	Mansfield	00559-63	Mansfield	547	20	1	298,674	1,215	0.51	546	2.22	246	3.46
57	Pittsburgh Avenue	00524-31	Erie	1,679	25	2	296,667	4,439	0.51	177	2.64	67	2.14
58	Emeigh	00951-22	Philpsburg	479	17	0	291,393	583	0.50	608	1.22	500	0.04
59	Mansfield	00558-63	Mansfield	765	31	0	291,158	991	0.50	381	1.30	294	10.59
60	Falls	00297-65	Monroese	808	21	0	287,238	1,237	0.49	355	1.53	232	1.27
61	Shawville	00151-21	Clearfield	2,326	44	1	285,316	7,718	0.49	123	3.32	37	14.35
62	Ralphton	00015-12	Somerset	1,145	34	2	279,138	2,009	0.48	244	1.75	139	18.67
63	East Sayre	00518-61	Towanda	883	32	1	276,848	3,085	0.47	314	3.49	90	12.35

Met-Ed													
Circuit Rank	Substation	Circuit Desc	District	Average Customers	Outages	Lockouts	Customer Minutes	Customer Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Fox Hill	00816-3	Stroudsburg	3,807	51	0	1,050,361	6,462	1.91	275.90	1.70	162.54	5.19
2	Ottsville	00661-3	Easton	667	45	2	981,265	4,289	1.79	1471.16	6.43	228.79	0.06
3	Shawnee	00895-3	Stroudsburg	3,718	55	0	891,171	6,986	1.62	239.69	1.88	127.57	3.69
4	Newberry	00577-4	York	1,605	10	1	866,739	3,638	1.62	552.49	2.27	243.74	3.00
5	Birdsboro	00756-1	Reading	1,523	59	2	838,799	4,589	1.53	550.75	3.01	182.78	2.01
6	S. Nazareth	00809-3	Easton	2,988	46	1	811,685	6,529	1.48	271.65	2.19	124.32	0.95
7	Flying Hills	00776-1	Reading	1,485	20	0	767,903	1,762	1.40	517.11	1.19	435.81	2.00
8	Mountain	00744-4	Dillsburg	1,813	58	0	678,304	3,079	1.24	374.13	1.70	220.30	2.00
9	Shawnee	00860-3	Stroudsburg	3,154	44	3	613,091	4,830	1.12	194.39	1.53	126.93	10.79
10	Mt. Rose	00564-4	York	1,087	9	3	587,472	3,437	1.07	540.45	3.16	170.93	4.01
11	Broad Street	00776-2	Lebanon	1,850	17	1	584,790	3,638	1.07	316.10	1.97	160.74	0.00
12	Barto	00705-1	Boyertown	2,086	65	1	583,290	5,318	1.06	279.62	2.55	109.68	3.00
13	Birdsboro	00757-1	Reading	1,926	36	2	529,574	5,769	0.96	274.96	3.00	91.80	1.74
14	Allen	00501-4	Dillsburg	1,481	43	2	507,090	4,290	0.92	342.40	2.90	118.20	21.00
15	Straban	00676-4	Gettysburg	1,072	37	0	482,235	3,078	0.88	449.85	2.87	156.67	2.00
16	Tolna	00793-4	York	1,512	19	1	456,096	1,880	0.83	301.65	1.24	242.60	3.99
17	H. Bangor	00826-3	Easton	3,152	76	0	443,753	5,355	0.81	140.78	1.70	82.87	0.86
18	Newberry	00576-4	York	1,786	57	0	428,718	3,088	0.78	240.04	1.73	138.83	13.15

Met-Ed													
Circuit Rank	Substation	Circuit Desc	District	Average Customers	Outages	Lockouts	Customer Minutes	Customer Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
19	N. Bangor	00813-3	Easton	1,337	36	0	422,136	1,610	0.77	315.73	1.20	262.20	0.00
20	Bern Church	00789-1	Reading	1,421	49	0	342,576	2,354	0.62	241.08	1.66	145.53	3.25
21	Totna	00792-4	York	1,734	22	1	410,855	1,955	0.75	236.94	1.13	210.16	2.00
22	Hokes	00587-4	York	814	15	2	404,559	2,106	0.74	497.00	2.59	192.10	0.00
23	Leesport	00811-1	Hamburg	1,488	25	1	392,042	3,078	0.71	263.47	2.07	127.37	0.00
24	Lynnville	00735-1	Hamburg	1,331	26	2	388,816	3,025	0.71	292.12	2.27	128.53	10.94
25	Dillsburg	00748-4	Dillsburg	1,811	39	3	382,586	5,206	0.70	211.26	2.87	73.49	3.58
26	Windsor	00795-4	York	1,034	38	1	377,783	2,354	0.69	365.36	2.28	160.49	0.00
27	Moselem	00779-1	Reading	1,896	20	1	334,007	2,050	0.61	176.16	1.08	162.93	1.00
28	Ferndale	00871-3	Easton	485	18	0	329,417	800	0.60	679.21	1.65	411.77	0.98
29	Birdsboro	00760-1	Reading	2,154	19	0	329,281	4,567	0.60	152.87	2.12	72.10	0.00
30	Snydersville	00621-3	Stroudsburg	1,789	17	1	316,784	3,771	0.58	177.07	2.11	84.01	0.00
31	South Hamburg	00745-1	Hamburg	1,209	10	2	313,805	2,598	0.57	259.56	2.15	120.79	1.00
32	W. Boyertown	00715-1	Boyertown	1,682	28	1	313,598	2,246	0.57	186.44	1.34	139.63	0.94
33	Annvile	00743-2	Lebanon	1,131	25	0	310,653	2,184	0.57	274.67	1.93	142.24	5.01
34	Northwood	00808-3	Easton	891	13	1	308,115	1,648	0.56	345.81	1.85	186.96	0.88
35	Lincoln Park	00750-1	Reading	896	19	1	305,165	1,738	0.56	340.59	1.94	175.58	0.00
36	Birchwood	00623-3	Stroudsburg	1,323	29	0	304,844	2,298	0.56	230.42	1.74	132.66	3.00
37	Wind Gap	00600-3	Easton	1,717	19	0	298,189	2,256	0.00	173.67	1.31	132.18	0.96
38	Myerstown	00752-2	Lebanon	1,439	16	2	294,494	3,020	0.54	204.65	2.10	97.51	5.03

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

In addition to specific remedial efforts taken and planned for the worst performing 5% of circuits identified in 52 Pa Code § 57.195(e)(3), the Companies have identified circuits that have been on this list for one year or more, or in four out of six quarters, in accordance with the Stratified Management and Operations Audit Implementation Plan dated February 14, 2007, Recommendation XI-4 at Docket Number D-05MGT003.

PennPower						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
1	Conneaut	W-173	<i>Performance was driven by two outages both caused by non-preventable trees.</i>			
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-13	
			Reliability job to install fuses	Complete	Dec-13	
2	Hickory	W-245	<i>Performance was driven by two outages both caused by non-preventable trees.</i>			
			Circuit reliability coordinator field review of circuit to identify visible equipment failures	Complete	Sep-12	
			Forestry to trim circuit	Complete	Jun-13	
			Circuit reliability coordinator field review of circuit to identify visible equipment failures	Complete	Jun-13	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-13	
Reliability job to install recloser	To be completed 2014					
3	Jamestown	W-152	<i>Performance was driven by three outages caused by non-preventable trees.</i>			
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Nov-13	
4	Heritage	W-250	<i>Performance was driven by two outages caused by line failures due to wind associated with thunderstorm.</i>			4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Equipment that was damaged by lightning was replaced at time of restoration	Complete	Aug-12	
			Equipment that was damaged by wind was replaced at time of restoration	Complete	Jun-13	
			Circuit reliability coordinator field review of circuit to identify visible equipment failures	Complete	Mar-13	
			CEM improvement project on the main feed of the circuit	Complete	Jul-13	
			Forestry to trim circuit	Complete	Nov-13	
Reliability job to install fuses	Complete	Nov-13				

Penn Power						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
5	Stoneboro	W-130	<i>Performance was driven by two outages caused by line failures due to wind associated with thunderstorms in 2013.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-12	
			Field review of circuit to identify visible equipment failures	Complete	Sep-12	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-13	
			CEMI improvement project on the main feed of the circuit	To be completed 2014		
6	Sharon	W-135	<i>Performance was driven by one outage caused by non-preventable trees in 2nd quarter and one outage caused by non-preventable trees in the 4th quarter of 2013.</i>			
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Apr-13	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Nov-13	
			Reliability job to install fuses	To be completed 2014		
7	Sharpsville	W-218	<i>Performance was driven by one outage caused a car pole accident.</i>			
			Pole was replaced and associated repairs made at the time of restoration.	Complete	Dec-13	
8	Mercer	W-167	<i>Performance was driven by one outage caused by non-preventable trees during weather conditions and one outage caused by non-preventable trees.</i>			
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jun-13	
			Reliability job to install fuses	Complete	Nov-13	
			Forestry to trim circuit	Complete	Nov-13	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Nov-13	
			Reliability job to install fuses	To be completed 2014		

Penn. Power						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
9	Silver Street	W-258	<i>Performance driven by two outages one caused by steel roof blown into line by storm and one cause by an equipment failure during switching.</i>			
			Steel roof was removed and associated repairs were made at time of restoration	Complete	Apr-13	
			Equipment was replaced and associated repairs were made at time of restoration	Complete	Dec-13	
			Reliability job to install fuses	To be completed 2014		
	McDowell	W-120	<i>Performance was driven by one outage caused by non-preventable trees.</i>			
			Circuit reliability coordinator field review of circuit to identify visible equipment failures	Complete	Jun-13	
			CEMI improvement project on the main feed of the circuit	Complete	Jul-13	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-13	
	Evans City	D611	<i>Performance was driven by four outages, one caused by line failure, two caused by equipment failure, and one caused by a non-preventable tree with all occurring during weather conditions prior to CRC field review</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Equipment that was broken by lightning was replaced at time of restoration	Complete	Jul-12	
			The equipment failure was repaired at the time of restoration	Complete	Jul-12	
			The equipment failure was repaired at the time of restoration	Complete	Jul-12	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-12	
			Field review of circuit to identify visible equipment failures	Complete	Oct-12	
			Circuit reliability coordinator field review of circuit to identify visible equipment failures	Complete	Apr-13	
Forestry to trim circuit	Complete	Jun-13				

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
1	Union City	00206-43	<i>Performance was driven by damage from a tornado(22%), trees non-preventable (34%) and equipment failure (22%).</i>				
			Repair damage caused by a tree during a storm	Complete	Jul-12	3Q 2012	
			Add additional protection per circuit coordination	Complete	Dec-12	4Q 2012	
			Full cycle tree clearing	Complete	Dec-12	1Q 2013	
			Repair damage caused by a tornado	Complete	May-13	2Q 2013	
			Repair tree damage from minor storm	Complete	Jul-13	3Q 2013	
			Repair equipment failure	Complete	Nov-13	4Q 2013	
2	Union City	00425-43	<i>Performance was driven by damage from a tornado (97%).</i>				
			Repair tornado damage	Complete	May-13		
			Circuit inspection	To be completed 2014			
3	Springboro	00237-52	<i>Performance was driven by trees non-preventable (48%) during a minor storm and equipment failure (48%).</i>				
			Repair equipment failure	Complete	Feb-13		
			Repair damage caused by a tree	Complete	Jun-13		
			Add additional protection per circuit coordination	Complete	Jun-13		
			Repair tree damage from minor storm	Complete	Oct-13		
			Repair equipment failure	Complete	Dec-13		
4	Madera	00165-22	<i>Performance was driven by trees non-preventable (52%) and equipment failure (38%) during a storm.</i>				
			Add additional protection per circuit coordination	Complete	Feb-13	3Q 2012	
			Repair equipment failure	Complete	Apr-13	4Q 2012	
			Repair damage caused by a tree	Complete	May-13	1Q 2013	
			Circuit inspection	Complete	Aug-13	2Q 2013	

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
5	East Pike	00095-13	<i>Performance was driven by equipment failure (47%), line failure (33%) and trees non-preventable (1%) during minor storm.</i>				3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by a tree during a storm	Complete	Jul-12		
			Repair equipment failure	Complete	Sep-12		
			Repair equipment failure	Complete	May-13		
			Repair equipment failure	Complete	Oct-13		
			Repair line failure	Complete	Nov-13		
			Install additional fault indicators	To be completed 2014			
6	Madera	00166-22	<i>Performance was driven by line failure (53%) during a storm and trees non-preventable (33%).</i>				3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair damage from vehicle	Complete	Aug-12		
			Repair tree damage	Complete	Sep-12		
			Repair tree damage	Complete	Jan-13		
			Repair tree damage	Complete	May-13		
			Repair line failure	Complete	Nov-13		
7	Marienville	00328-51	<i>Performance was driven by trees non-preventable (97%) during a minor storm.</i>				3Q 2012 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by a tree	Complete	May-13		
			Repair damage caused by a tree during a storm	Complete	Jun-13		
			Repair damage caused by a tree	Complete	Jul-13		
			Repair damage caused by a tree during a storm	Complete	Jul-13		
			Full cycle tree clearing	To be completed 2014			

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
8	Warren South	00220-41	<i>Performance was driven by trees non-preventable (38%) during a minor storm and a car pole accident (40%).</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by a tree	Complete	Jul-12	
			Repair damage caused by a vehicle	Complete	Mar-13	
			Repair damage caused by a tree	Complete	May-13	
			Repair damage caused by a tree	Complete	Oct-13	
			Repair damage caused by a tree during a storm	Complete	Nov-13	
9	Edinboro	00420-34	<i>Performance was driven by recloser operation, an unknown cause (78%) and lightning during minor storm (4%).</i>			
			Replace fuse after lightning strike.	Complete	Apr-13	
			Restored after recloser operation of unknown cause	Complete	Oct-13	
10	Philpsburg	00162-22	<i>Performance was driven by trees non-preventable (46%) during storm and equipment failure (32%).</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair equipment failure	Complete	Sep-12	
			Full cycle tree clearing	Complete	Dec-12	
			Repair damage caused by a tree during a storm	Complete	May-13	
			Repair equipment failure	Complete	Jul-13	
			Repair equipment failure	Complete	Jul-13	
Replace selected deteriorated equipment identified by circuit patrol	To be completed 2014					
11	Erie South	00259-31	<i>Performance was driven by equipment failure(33%), line failure (24%), trees non-preventable (12%) and a car pole accident (13%).</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair line failure	Complete	Sep-12	
			Add additional protection per circuit coordination	Complete	Jan-13	
			Repair damage caused by a tree during a storm	Complete	Jan-13	
			Repair equipment failure	Complete	Mar-13	
			Repair damage caused by a vehicle	Complete	Apr-13	
			Repair line failure	Complete	Jul-13	
			Repair equipment failure	Complete	Dec-13	
Full cycle tree clearing	To be completed 2014					

Renelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
12	Logan	00700-81	<i>Performance was driven by trees non-preventable (87%) during storm and a car pole accident (11%).</i>				4Q 2012 1Q 2013 2Q 2013 4Q 2013
			Repair tree damage during storm	Complete	Jul-12		
			Repair tree damage	Complete	Oct-12		
			Repair vehicle damage	Complete	May-13		
			Repair damage caused by a tree during a storm	Complete	Nov-13		
			Full cycle tree clearing	To be completed 2014			
13	DuBois	00124-23	<i>Performance was driven by trees non-preventable(43%), equipment failure (31%), flooding (12%) and a car pole accident (10%).</i>				3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by lightning	Complete	Jul-12		
			Repair damage caused by a tree	Complete	Nov-12		
			Repair equipment failure	Complete	Dec-12		
			Repair equipment failure	Complete	Jan-13		
			Repair damage caused by a tree during a storm	Complete	Jun-13		
			Forced outage by EMA due to flooding	Complete	Jun-13		
			Repair vehicle damage	Complete	Nov-13		
			Repair damage caused by a tree	Complete	Dec-13		
			Targeted main line reliability equipment replacement	Complete	Dec-13		
14	Saxton	00624-73	<i>Performance was driven by trees non-preventable (89%) during minor storm.</i>				
			Repair damage caused by trees during a storm	Complete	Nov-13		
15	Lake Como	00788-65	<i>Performance was driven by trees non-preventable (48%) and line failure (25%) during minor storm.</i>				
			Repair tree damage during storm	Complete	Jan-13		
			Repair tree damage	Complete	Jul-13		
			Repair line failure	Complete	Jul-13		
16	Williamsburg	00045-71	<i>Performance was driven by trees non-preventable (80%) during a storm and a car pole accident.</i>				
			Repair damage caused by trees during a storm	Complete	Jan-13		
			Repair vehicle damage	Complete	May-13		
			Repair damage caused by trees during a storm	Complete	Jun-13		
			Full cycle tree clearing	To be completed 2014			

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
17	East Pike	00094-13	<i>Performance was driven by line failure (52%) during a minor storm and equipment failure (46%).</i>			1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by a tree during a storm	Complete	Jul-12	
			Repair equipment failure	Complete	Jan-13	
			Repair line failure	Complete	May-13	
			Circuit inspection	Complete	Jun-13	
			Repair equipment failure	Complete	Jun-13	
18	Seward	00075-11	<i>Performance was driven by trees non-preventable (46%) and line failure (46%) during minor storm.</i>			4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Add additional protection per circuit coordination	Complete	Mar-13	
			Repair line failure	Complete	May-13	
			Repair damage caused by a tree during a storm	Complete	Jun-13	
			Replace selected deteriorated equipment identified by circuit patrol	To be completed 2014		
19	Belleville	00124-81	<i>Performance was driven by equipment failure (72%) during a storm and an recloser operation unknown cause (17%).</i>			1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair line failure	Complete	Jul-12	
			Repair equipment failure	Complete	Jan-13	
			Add additional protection per circuit coordination	Complete	May-13	
			Restored recloser operation of unknown cause	Complete	Sep-13	
20	Union City	00207-43	<i>Performance was driven by damage during a tornado (60%), a car pole accident (19%) and line failure (7%).</i>			4Q 2012 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by a vehicle	Complete	Mar-13	
			Repair damage caused by a tornado	Complete	May-13	
			Repair line failure	Complete	Jul-13	
			Full cycle tree clearing	To be completed 2014		
			Circuit inspection	To be completed 2014		
21	Rolling Meadows	00310-31	<i>Performance was driven by equipment failure (73%) and line failure (20%).</i>			4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair line failure	Complete	Dec-12	
			Repair equipment failure	Complete	Jan-13	
			Repair line failure	Complete	Feb-13	
			Repair equipment failure	Complete	Feb-13	

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
22	French Road	00223-31	<i>Performance was driven by trees non-preventable (58%) during storm and equipment failure (17%).</i>				
			Repair damage caused by a tree during a storm	Complete	Jan-13		
			Repair line failure	Complete	Jul-13		
			Repair damage caused by a tree	Complete	Sep-13		
			Repair equipment failure	Complete	Dec-13		
23	Corry East	00440-43	<i>Performance was driven by trees non-preventable (77%) during a storm.</i>				
			Repair damage caused by a tree	Complete	Aug-12	3Q 2012	
			Repair damage caused by trees during a storm	Complete	May-13	4Q 2012	
			Circuit inspection	Complete	Jun-13	1Q 2013	
			Full cycle tree clearing	Complete	Oct-13	2Q 2013	
			Add additional protection per circuit coordination	To be completed 2014		3Q 2013	
24	St. Benedict	00057-72	<i>Performance was driven by trees non-preventable (64%) and equipment failure (34%) during a storm.</i>				4Q 2013
			Repair equipment failure	Complete	Jan-13	1Q 2013	
			Repair damage caused by a tree during a storm	Complete	Jun-13	2Q 2013	
25	East Towanda	00525-62	<i>Performance was driven by line failure (42%), trees non-preventable (29%) and equipment failure (34%).</i>				3Q 2013
			Repair line failure	Complete	Jul-13	4Q 2013	
			Repair equipment failure	Complete	Dec-13		
			Repair tree damage	Complete	Dec-13		
26	Matland	00149-81	<i>Performance was driven by equipment failure (50%) and trees non-preventable (30%) during a storm.</i>				
			Repair equipment failure	Complete	Jan-13		
			Repair equipment failure	Complete	Apr-13		
			Repair damage caused by trees during a storm	Complete	Nov-13		
27	Birmingham	00168-22	<i>Performance was driven by line failure (42%), equipment failure (28%) and trees non-preventable (19%) during a storm.</i>				
			Repair damage caused by a tree during a storm	Complete	Apr-13		
			Repair equipment failure	Complete	Jun-13		
			Repair line failure	Complete	Sep-13		
			Repair equipment failure	Complete	Sep-13		

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
28	Tunkhannock	00533-65	<i>Performance was driven by trees non-preventable (74%) and equipment failure (7%).</i>				3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair tree damage	Complete	Aug-12		
			Repair damage caused by a tree	Complete	Nov-12		
			Repair equipment damage	Complete	Apr-13		
			Repair tree damage	Complete	Apr-13		
			Repair tree damage	Complete	May-13		
			Full cycle tree clearing	Complete	Oct-13		
29	Tower 51	00051-11	<i>Performance was driven by trees non-preventable (57%) and equipment failure (23%) during a storm.</i>				
			Repair damage caused by a vehicle	Complete	Jan-13		
			Add additional protection per circuit coordination	Complete	Feb-13		
			Repair equipment failure	Complete	Mar-13		
			Repair tree damage during storm	Complete	Jul-13		
30	Madera	00147-22	<i>Performance was driven by trees non-preventable (66%) and equipment failure (21%) during a storm.</i>				1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair equipment failure	Complete	Oct-12		
			Repair damage caused by a tree during a storm	Complete	Jan-13		
			Repair damage caused by a tree during a storm	Complete	May-13		
			Repair equipment failure	Complete	Aug-13		
			Add additional protection per circuit coordination	Complete	Oct-13		
31	Covington	00729-63	<i>Performance was driven by line failure during a storm (87%) and a car pole accident (7%).</i>				
			Repair vehicle damage	Complete	Jan-13		
			Repair line damage	Complete	Sep-13		
			Add additional protection per circuit coordination	To be completed 2014			
			Full cycle tree clearing	To be completed 2014			
			Circuit inspection	To be completed 2014			
32	Emlenton	00121-51	<i>Performance was driven by trees non-preventable (82%) and equipment failure (9%) during a storm.</i>				
			Repair damage caused by a tree during a storm	Complete	Apr-13		
			Repair equipment damage	Complete	Apr-13		
			Repair damage caused by a tree during a storm	Complete	Jun-13		
			Circuit inspection	Complete	Sep-13		

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
33	Viscose Hill	00116-81	<i>Performance was driven by trees non-preventable (97%) during a storm.</i>			
			Add additional protection per circuit coordination	Complete	Jun-13	
			Repair tree damage	Complete	Jul-13	
			Full cycle tree clearing	To be completed 2014		
34	Tiffany	00440-65	<i>Performance was driven by trees non-preventable (77%) and line failure (6%) during a storm.</i>			
			Repair line failure	Complete	May-13	
			Repair damage caused by a tree during a storm	Complete	Sep-13	
			Circuit inspection	Complete	Sep-13	
			Repair damage caused by a tree during a storm	Complete	Nov-13	
35	Edgewood	00097-13	<i>Performance was driven by line failure (38%) and equipment failure (37%).</i>			
			Repair equipment damage	Complete	Jul-13	
			Repair line damage	Complete	Jul-13	
			2013 Circuit inspection	Complete	Jun-13	
			Add additional protection per circuit coordination	To be completed 2014		
36	Hilltop	00048-11	<i>Performance was driven by line failure (42%) and equipment failure (40%).</i>			
			Repair line failure	Complete	Oct-13	
			Repair equipment damage	Complete	Oct-13	
37	Blairsville East	00080-13	<i>Performance was driven by trees non-preventable (81%) and equipment failure (16%) during a storm.</i>			3Q 2012 2Q 2013 3Q 2013 4Q 2013
			Add additional protection per circuit coordination	Complete	Apr-13	
			Repair damage caused by a tree during a storm	Complete	May-13	
			Repair equipment failure	Complete	May-13	
			Repair damage caused by a tree during a storm	Complete	Jun-13	
38	Main Street	00575-63	<i>Performance was driven by recloser operation of an unknown cause (93%).</i>			1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair equipment failure	Complete	Sep-12	
			TM patrolled whole circuit and restored recloser operation of unknown cause	Complete	Feb-13	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
39	Elk Run	00622-23	<i>Performance was driven by line failure (66%) and trees non-preventable (19%) during a storm.</i>			
			Repair damage caused by a tree during a storm	Complete	Nov-13	
			Repair line failure	Complete	Dec-13	
40	Hooversville	00019-12	<i>Performance was driven by equipment failure (62%) and trees non-preventable (29%).</i>			
			Repair tree damage from minor storm	Complete	Jul-12	3Q 2012
			Repair line failure	Complete	Dec-12	4Q 2012
			Repair damage caused by a tree	Complete	Sep-13	1Q 2013
			Add additional protection per circuit coordination	Complete	Oct-13	2Q 2013
			Repair equipment failure	Complete	Dec-13	3Q 2013 4Q 2013
41	Edgewood	00089-13	<i>Performance was driven by a car pole accident (46%) and trees non-preventable (36%) during a storm.</i>			
			Full cycle tree clearing	Complete	Mar-13	3Q 2012
			Repair damage from vehicle	Complete	Apr-13	4Q 2012
			Repair damage caused by a tree during a storm	Complete	Aug-13	1Q 2013 3Q 2013 4Q 2013
42	French Road	00222-31	<i>Performance was driven by equipment failure (98%).</i>			
			Repair equipment damage	Complete	Oct-13	
43	DuBois	00137-23	<i>Performance was driven by trees non-preventable (34%), equipment failure (34%) and car pole accident (15%).</i>			
			Repair damage caused by a tree	Complete	Mar-13	1Q 2013
			Repair equipment damage	Complete	Jun-13	2Q 2013
44	Rockton Mountain	00138-21	<i>Performance was driven by trees non-preventable (94%) during a storm.</i>			
			Repair damage caused by a tree during a storm	Complete	Apr-13	3Q 2013
			Repair damage caused by a tree during a storm	Complete	Jun-13	4Q 2013
			Repair damage caused by a tree	Complete	Dec-13	
			Full cycle tree clearing	To be completed 2014		

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
45	Waverly	00164-66	<i>Performance was driven by trees non-preventable (64%) and object in contact with line (32%) during a storm.</i>				
			Removed object in contact with line	Complete	Jun-13		
			Repair damage caused by a tree during a storm	Complete	Sep-13		
			Add additional protection per circuit coordination	To be completed 2014			
			Full cycle tree clearing	To be completed 2014			
46	Union City	00203-43	<i>Performance was driven by damage from a tornado (45%) and trees non-preventable (35%).</i>				
			Repair damage caused by a tree during a storm	Complete	Apr-13		
			Repair damage caused by a tornado	Complete	May-13		
			Add additional protection per circuit coordination	Complete	Dec-13		
47	Tionesta Jct Sw Sta	00493-51	<i>Performance was driven by trees non-preventable (50%) and equipment failure (31%) during a storm.</i>				4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair equipment damage	Complete	Dec-12		
			Repair equipment damage	Complete	Jan-13		
			Repair equipment damage	Complete	Jun-13		
			Repair damage caused by a tree during a storm	Complete	Nov-13		
			Install additional fault indicators	To be completed 2014			
			Off right-of-way tree trim identified by circuit patrol	To be completed 2014			
48	Cooper	00959-11	<i>Performance was driven by trees non-preventable (81%).</i>				
			Repair damage caused by a tree	Complete	Jul-13		
			Full cycle tree clearing	To be completed 2014			
			Circuit inspection	To be completed 2014			
49	Tionesta	00344-51	<i>Performance was driven by trees non-preventable (57%) and recloser operation from unknown cause (35%) during a storm .</i>				3Q 2012 4Q 2012 1Q 2013 4Q 2013
			Circuit inspection	Complete	Sep-13		
			Repair damage caused by a tree during a storm	Complete	Nov-13		
			Repair damage caused by a tree during a storm	Complete	Nov-13		
			TM patrolled line and restored recloser operation of unknown cause	Complete	Nov-13		
			Add additional protection per circuit coordination	To be completed 2014			
Full cycle tree clearing	To be completed 2014						

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
50	Lake Como	00787-65	<i>Performance was driven by equipment operation (38%) and equipment failure (11%) during snow and ice storm.</i>			
			Add additional protection per circuit coordination	Complete	Dec-12	
			Restored recloser operation during ice storm	Complete	Nov-13	
			Repair equipment damage	Complete	Nov-13	
51	Clearfield	00148-21	<i>Performance was driven by trees non-preventable (77%) and equipment failure (17%) during a storm.</i>			
			Repair damage caused by a tree	Complete	Jul-13	
			Circuit inspection	Complete	Aug-13	
			Repair equipment damage	Complete	Nov-13	
52	Mount Union	00154-82	<i>Performance was driven by a car pole accident (56%) and trees non-preventable (28%) during a storm.</i>			
			Repair tree damage	Complete	Jul-12	
			Add additional protection per circuit coordination	Complete	Dec-12	
			Repair damage caused by a tree during a storm	Complete	Jun-13	
			Repair damage caused by a vehicle	Complete	Nov-13	
53	Timbin	00103-23	<i>Performance was driven by equipment failure(40%), trees non-preventable (13%) and car pole accidents (9%).</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair damage caused by a tree during a storm	Complete	Jul-12	
			Repair damage caused by a vehicle	Complete	Sep-12	
			Repair equipment failure	Complete	Jun-13	
			Repair damage caused by a tree	Complete	Jul-13	
			Circuit inspection	Complete	Sep-13	
			Repair damage caused by a vehicle	Complete	Nov-13	
			Install additional fault indicators	To be completed 2014		
Full cycle tree clearing	To be completed 2014					

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
54	Mine 40	00277-11	<i>Performance was driven by a car pole accident (89%).</i>			
			Repair damage caused by a vehicle	Complete	Aug-13	
55	Platea	00432-34	<i>Performance was driven by trees non-preventable (51%) and equipment failure (25%) during a storm.</i>			
			Repair damage caused by a tree during a storm	Complete	Jul-13	
			Repair equipment failure	Complete	Aug-13	
56	Mansfield	00559-63	<i>Performance was driven by lightning damage during a storm (82%).</i>			
			Repair damage caused by lightning	Complete	Sep-13	
57	Pittsburgh Avenue	00524-31	<i>Performance was driven by equipment failure (65%) and animal contact (23%).</i>			
			Repair damage caused by lightning	Complete	Jul-12	3Q 2012
			Circuit inspection	Complete	Jul-13	4Q 2012
			Restored circuit breaker following animal contact	Complete	Oct-13	1Q 2013
			Repair equipment damage	Complete	Oct-13	2Q 2013
			Add additional protection per circuit coordination	To be completed 2014		4Q 2013
58	Erneigh	00951-22	<i>Performance was driven by a car pole accident (96%).</i>			
			Repair damage caused by a vehicle	Complete	Dec-13	
			Add additional protection per circuit coordination	To be completed 2014		
			Circuit inspection	To be completed 2014		
59	Mansfield	00558-63	<i>Performance was driven by line failure (53%) and equipment failure (33%).</i>			
			Repair line failure	Complete	Aug-13	
			Repair overload damage	Complete	Sep-13	
			Repair equipment damage	Complete	Dec-13	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
60	Falls	00297-65	<i>Performance was driven by trees non-preventable (86%) during a storm.</i>			
			Repair damage caused by a tree	Complete	Apr-13	
			Repair damage caused by a tree	Complete	Sep-13	
			Add additional protection per circuit coordination	To be completed 2014		
61	Shawville	00151-21	<i>Performance was driven by lightning (33%) and equipment failure (23%) during a storm.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 4Q 2013
			Repair equipment damage	Complete	Aug-12	
			Circuit inspection	Complete	Aug-13	
			Repair equipment damage	Complete	Oct-13	
			Add additional protection per circuit coordination	Complete	Dec-13	
			Full cycle tree clearing	To be completed 2014		
62	Ralphton	00015-12	<i>Performance was driven by trees non-preventable (84%) during minor storm.</i>			
			Repair damage caused by a tree during a storm	Complete	Nov-13	
			Repair tree damage	Complete	Aug-13	
			Full cycle tree clearing	To be completed 2014		
			Circuit inspection	To be completed 2014		
63	East Sayre	00518-61	<i>Performance was driven by equipment failure (47%) and trees non-preventable (35%).</i>			
			Repair damage caused by a tree	Complete	Apr-13	
			Repair equipment failure	Complete	Jul-13	
			Add additional protection per circuit coordination	Complete	Nov-13	
	Salix	00070-11	<i>Performance was driven by trees non-preventable and a line failure during a minor storm.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013
			Repair line failure	Complete	Dec-12	
			Full cycle tree clearing	Complete	May-13	
			Repair tree damage during storm	Complete	Jun-13	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	Phelpsburg	00164-22	<i>Performance was driven by equipment failure and a car pole accident.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013
			Repair equipment failure	Complete	Oct-12	
			Repair equipment failure	Complete	Dec-12	
			Add additional protection per circuit coordination	Complete	Mar-13	
			Repair damage caused by a vehicle	Complete	Jun-13	
	Holidaysburg	00202-71	<i>Performance was driven by trees non-preventable and lightning during a minor storm.</i>			4Q 2012 1Q 2013 2Q 2013 3Q 2013
			Repair damage caused by a tree during a storm	Complete	Dec-12	
			Full cycle tree clearing	Complete	Feb-13	
			Repaired damage caused by lightning during storm	Complete	Jul-13	
	Lawrenceville	00632-63	<i>Performance was driven by equipment failure during a storm and trees non-preventable.</i>			
			Repair equipment failure	Complete	Apr-13	
			Customer correct equipment issue	Complete	May-13	
			Repair tree damage	Complete	May-13	
			Repair equipment failure	Complete	May-13	
			Add additional protection per circuit coordination	Complete	Oct-13	
	Saxton	00625-73	<i>Performance was driven by line failure and trees non-preventable during a storm.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013
			Repair line failure	Complete	Sep-12	
			Repair tree damage	Complete	Jul-13	
	Erie East	00234-31	<i>Performance was driven by equipment failure and vehicle damage.</i>			
			Repair equipment failure	Complete	Jan-12	
			Repair damage caused by a vehicle	Complete	Sep-12	
			Add additional protection per circuit coordination	Complete	Oct-12	
			Full cycle tree clearing	Complete	Nov-13	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	Punxsutawney	00829-23	<i>Performance was driven by trees non-preventable during a storm.</i>			
			Repair damage caused by a tree during a storm	Complete	May-12	
			Circuit inspection	Complete	Jul-13	
			Full cycle tree clearing	Complete	Sep-13	
	Knox	00323-51	<i>Performance was driven by trees non-preventable during a storm.</i>			
			Repair line failure	Complete	Aug-12	
			Repair equipment failure	Complete	Sep-12	
			Circuit inspection	Complete	Sep-13	
	Two Mile	00127-42	<i>Performance was driven by non-preventable tree damage during a minor storm and line failure.</i>			
			Repair damage caused by a tree during a storm	Complete	Jul-12	
			Repair line failure	Complete	Jan-13	
			Add additional protection per circuit coordination	Complete	Dec-13	
	Cambridge Springs	00461-52	<i>Performance was driven by non-preventable trees during a storm.</i>			3Q 2012
			Repair damage caused by a tree during a storm	Complete	Jul-12	4Q 2012
			Circuit inspection	Complete	Jul-13	1Q 2013 2Q 2013
	Brookville	00125-23	<i>Performance was driven by non-preventable trees and line failure.</i>			3Q 2012
			Repair damage caused by a tree	Complete	Aug-12	4Q 2012
			Repair line failure	Complete	Jan-13	1Q 2013
			Circuit inspection	Complete	Aug-13	2Q 2013

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
1	Fox Hill	00816-3	<i>Performance was driven by an underground residential development outage on 12/16/13 which contributed 36% of circuit minutes, a motor vehicle accidents which contributed 27% of circuit minutes and trees which contributed 26% of circuit minutes.</i>			
			Replace porcelain cutouts on backbone with polymer	Complete	Oct-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
			Replace crossarms identified during circuit assessment	To be completed 2014		
			Forestry to perform mid-cycle inspection	To be completed 2014		
			Comprehensive circuit assessment	To be completed 2014		
2	Ottsville	00661-3	<i>Performance was driven by non-preventable trees which contributed 67% of circuit minutes and line failure which contributed 31% of circuit minutes.</i>			
			Install recloser	Complete	Aug-12	
			Comprehensive tree trimming	Complete	Dec-13	
			Perform wood pole inspection	To be completed 2014		
3	Shawnee	00895-3	<i>Performance was driven by trees which contributed 47% of circuit minutes and an insulator failure on 7/28/13 which contributed 38% of circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Repair split pole top found on circuit assessment	Complete	Oct-12	
			Correct fuse coordination	Complete	Oct-12	
			Comprehensive tree trimming	Complete	Oct-12	
			Replace porcelain cutouts on recloser backbone with polymer cutouts	Complete	May-13	
			Install additional Supervisory Control And Data Acquisition (SCADA) switch	Complete	Jul-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
4	Hewberry	00577-4	<i>Performance was driven by tree-caused outages which contributed 64% of the circuit minutes and equipment failure which contributed 34% of the minutes.</i>			
			Comprehensive circuit assessment	To be completed 2014		
			Perform accelerated backbone, three phase circuit and single phase circuit assessment.	To be completed 2014		
			Comprehensive tree trimming	To be completed 2014		

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
5	Birdsboro	00756-1	<i>Performance was driven by a sub transmission crossarm problem which contributed 29% of the circuit minutes, an outage caused by a tree which contributed 26% of the minutes, a line tap problem which contributed 19% of the minutes and a forced outage caused by a primary conductor problem which contributed 15% of the minutes .</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Perform accelerated backbone and three phase assessment	Complete	Jul-12	
			Engineering review for the installation of an additional main line recloser	Complete	Jul-12	
			Proactive every other month main line forestry inspection	Complete	Sep-12	
			Spot main line tree trimming and removals	Complete	Oct-12	
			Proactive every other month main line forestry inspection	Complete	Nov-12	
			Replace main line crossarm from assessment	Complete	Dec-12	
			Spot tree trimming and removals	Complete	Dec-12	
			Proactive every other month main line forestry inspection	Complete	Feb-13	
			Spot tree trimming and removals	Complete	Mar-13	
			Install main line tap fuse and fault indicators	Complete	May-13	
			Comprehensive circuit patrol	Complete	Jun-13	
			Proactive every other month main line forestry inspection	Complete	Jun-13	
			Main line crossarm brace repair from comprehensive circuit patrol	Complete	Jun-13	
			Main line pole top repair from comprehensive circuit patrol	Complete	Jun-13	
			Spot tree trimming and removals	Complete	Aug-13	
			Proactive every other month main line forestry inspection	Complete	Sep-13	
			Spot tree trimming and removals	Complete	Oct-13	
			Upgrade main line recloser and customer re-distribution project	Complete	Oct-13	
			Replace main line crossarm from assessment	Complete	Oct-13	
			Perform accelerated backbone and three phase assessment	Complete	Dec-13	
			Main line arrester repairs from comprehensive circuit patrol	To be completed 2014		
Upgrade additional main line recloser	To be completed 2014					
Install additional main line fault indicators	To be completed 2014					
Comprehensive tree trimming	To be completed 2014					

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
6	S. Nazareth	00809-3	<i>Performance was driven by a storm on 6/24/13 which contributed 40% of minutes, lightning on 5/23/13 which contributed 17% of minutes and a vehicle accident 12% of circuit minutes.</i>			
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Dec-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Dec-13	
			Install fault indicators	Complete	Dec-13	
			Replace main line crossarm from assessment	To be completed 2014		
			Install additional Supervisory Control And Data Acquisition (SCADA) switch	To be completed 2014		
			Perform wood pole inspection	To be completed 2014		
7	Flying Hills	00776-1	<i>Performance was driven by an underground cable problems which contributed 64% of minutes and a vehicle caused outage which contributed 26% of the minutes in the Flying Hills Underground Residential Development.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Perform accelerated backbone and three phase assessment	Complete	Jul-12	
			Spot forestry patrol	Complete	Jul-12	
			Engineering review for the installation of an additional main line recloser	Complete	Jul-12	
			Spot tree removals	Complete	Sep-12	
			Engineering review for the creation of an additional circuit tie	Complete	Dec-12	
			Engineering circuit inspection	Complete	Dec-12	
			Spot forestry patrol	Complete	Dec-12	
			Spot tree trimming and removals (Freemansville Road)	Complete	May-13	
			Replace underground cable in Flying Hills URD	Complete	Aug-13	
			Install additional set of main line disconnects	Complete	Aug-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Sep-13	
			Spot tree removal Hickory Rd	Complete	Sep-13	
Mid-cycle backbone and three phase forestry inspection	To be completed 2014					

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
8	Mountain	00744-4	<i>Performance driven by trees which contributed 59% of circuit minutes and one crossarm failure which contributed 23% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 4Q 2013
			Perform accelerated post storm forestry vegetation assessment	Complete	Jul-12	
			Perform tree work identified during accelerated post storm forestry assessment	Complete	Jul-12	
			Perform follow-up forestry vegetation assessment	Complete	Sep-12	
			Perform tree work identified during follow-up forestry assessment	Complete	Sep-12	
			Perform partial post Hurricane Sandy accelerated circuit reliability assessment of main line	Complete	Nov-12	
			Perform partial post Hurricane Sandy accelerated circuit reliability assessment of three phase	Complete	Nov-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
Comprehensive tree trimming	To be completed 2014					
9	Shawnee	00880-3	<i>Performance was driven by an insulator failure on 1/2/13 which contributed 49% of minutes and trees during a storm on 4/19/13 which contributed 30% of minutes.</i>			3Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Install Supervisory Control and Data Acquisition (SCADA) controlled switch	Complete	Sep-12	
			Install Supervisory Control and Data Acquisition (SCADA) controlled switch	Complete	Sep-12	
			Repair conditioned items from circuit assessment	Complete	Dec-12	
			Comprehensive tree trimming	Complete	Apr-13	
			Replace sectionalizer with Supervisory Control And Data Acquisition (SCADA NOAB)	Complete	Aug-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
			Replace sectionalizer with Supervisory Control And Data Acquisition (SCADA NOAB)	To be completed 2014		
10	Mt. Rose	00564-4	<i>Performance was driven by non-preventable trees which contributed 88% of circuit minutes.</i>			
			Perform accelerated backbone assessment	Complete	Sep-12	
			Comprehensive tree trimming	To be completed 2014		
			Perform accelerated backbone, three phase and single phase circuit assessment.	To be completed 2014		

<b>Met-Ed</b>						
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work</b>	<b>Date Remedial Work Completed</b>	<b>Appeared in 4 of 6 Quarters</b>
11	Broad Street	00776-2	<i>Performance was driven by equipment failure and vehicle accident 70%.</i>			1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Comprehensive tree trimming	Complete	Dec-12	
			Replace underground cable - seven spans	Complete	Feb-13	
			Repair broken switch - 77555	Complete	Aug-13	
			Install additional main line recloser	To be completed 2014		
12	Barto	00705-1	<i>Performance was driven by tree-caused outages which contributed 54% of the circuit minutes, an outage caused by a line tap problem which contributed 16% of the minutes and a vehicle accident which contributed 14% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Transmission substation equipment repair	Complete	Jul-12	
			Main line forestry inspection	Complete	Aug-12	
			Spot forestry inspection	Complete	Sep-12	
			Spot forestry inspection	Complete	Nov-12	
			Spot forestry inspection	Complete	Apr-13	
			Perform accelerated backbone assessment	Complete	Sep-13	
			Replace main line crossarm from assessment	Complete	Sep-13	
			Mid-cycle backbone and three phase forestry inspection	To be completed 2014		

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
13	Birdsboro	00757-1	<i>Performance was driven by an outage caused by a subtransmission crossarm problem which contributed 33% of the circuit minutes and tree-caused outages which contributed 54% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Engineering review for the installation of an additional main line recloser	Complete	Jul-12	
			Complete forestry assessment of three phase for SAIFI analysis	Complete	Sep-12	
			Proactive every other month main line forestry inspection	Complete	Sep-12	
			Spot main line tree trimming and removals	Complete	Oct-12	
			Proactive every-other-month main line forestry inspection	Complete	Nov-12	
			Spot tree trimming and removals	Complete	Dec-12	
			Proactive every other month main line forestry inspection	Complete	Feb-13	
			Spot tree trimming and removals	Complete	Mar-13	
			Replace additional main line crossarms from assessment	Complete	Apr-13	
			Proactive every other month main line forestry inspection	Complete	Jun-13	
			Complete comprehensive circuit patrol	Complete	Jun-13	
			Spot tree trimming and removals	Complete	Aug-13	
			Proactive every other month main line forestry inspection	Complete	Sep-13	
			Spot tree trimming and removals	Complete	Oct-13	
			Main line crossarm repairs from comprehensive circuit patrol	To be completed 2014		
			Upgrade main line recloser	To be completed 2014		
			Install remote operated main line switches	To be completed 2014		
Comprehensive tree trimming	To be completed 2014					
14	Allen	00501-4	<i>Performance was driven by vehicle related outages which contributed 61% of circuit minutes and a conductor failure while emergency backfeeding an adjacent circuit which contributed 29% of circuit minutes.</i>			
			Replaced 13 poles identified during the pole inspection	Complete	Mar-13	

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
15	Straban	00676-4	<i>Performance driven by non-preventable trees during a storm on June 13, 2013 which contributed 71% of circuit minutes.</i>			
			Perform partial accelerated circuit reliability assessment of main line	Complete	Jun-13	
			Perform partial accelerated circuit reliability assessment of three phase	Complete	Jun-13	
			Perform switch maintenance on two gang operated air break switches	Complete	Jul-13	
			Perform partial accelerated circuit reliability assessment of three phase	Complete	Jul-13	
			Comprehensive tree trimming	Complete	Jul-13	
			Replace one crossarm identified on partial main line assessment	Complete	Jul-13	
Perform circuit reconfiguration to improve circuit reliability	To be completed 2014					
16	Tona	00793-4	<i>Circuit performance was driven by object (roof) becoming distodged and contacting the line during a minor storm which contributed 83% of the circuit minutes.</i>			
			Install additional fault indicators on the circuit	Complete	Oct-12	
			Replace/Repair high priority items identified during circuit patrol	Complete	Aug-13	
			Perform accelerated backbone, three phase, and single phase circuit assessment.	To be completed 2014		
17	N. Bangor	00826-3	<i>Performance was driven by trees which contributed 56% of circuit minutes and 20% of the minutes due to equipment failure.</i>			
			Forestry to perform mid-cycle inspection	Complete	Nov-12	3Q 2012
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Apr-13	4Q 2012
			Replace sectionalizer with SCADA MOAB	Complete	Jun-13	1Q 2013
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	2Q 2013
			Comprehensive tree trimming	To be completed 2014		3Q 2013
18	Newberry	00576-4	<i>Performance was driven by non-preventable tree outages which contributed 44% of the circuit minutes and vehicle cause outages which contributed 27% of the circuit minutes.</i>			
			Comprehensive tree trimming	To be completed 2014		
			Perform accelerated backbone, three phase and single phase circuit assessment.	To be completed 2014		
19	N. Bangor	00813-3	<i>Performance was driven by non-preventable trees which contributed 61% of circuit minutes.</i>			
			Forestry to perform on mid-cycle tree trimming	Complete	Dec-12	1Q 2013
			Install new electronic recloser	Complete	Sep-13	2Q 2013
			Mid-cycle backbone and three phase forestry inspection	To be completed 2014		3Q 2013
						4Q 2013

<b>Met-Ed</b>						
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work</b>	<b>Date Remedial Work Completed</b>	<b>Appeared in 4 of 6 Quarters</b>
20	Bern Church	00789-1	<i>Performance was driven by an outage caused by a vehicle accident which contributed 26% of the circuit minutes, two outages due to substation equipment problems which contributed 22% of the circuit minutes, tree-caused outages which contributed 15% of the circuit minutes and an outage caused by an overhead primary conductor problem which contributed 10%.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Spot forestry inspection	Complete	Aug-12	
			Fuse upgrades for tap coordination improvement	Complete	Aug-12	
			Relocate main line tap from off road location to along public roadway	Complete	Sep-12	
			Replace additional underground cable in Plum Creek Estates underground residential distribution	Complete	Oct-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Sep-13	
			Install additional main line fault indicators	Complete	Dec-13	
			Comprehensive tree trimming	To be completed 2014		
			Complete engineering for a substation relay upgrade	To be completed 2014		
Repair main line ridge pins from assessment	To be completed 2014					
21	Tolna	00792-4	<i>Performance was driven by an outage caused by a vehicle which contributed 92% of the circuit minutes.</i>			
			Perform accelerated backbone, three phase and single phase circuit assessment.	To be completed 2014		
22	Hokes	00587-4	<i>Performance was driven by tree caused outages which contributed 51% of circuit minutes.</i>			
			Replace/Repair high priority items identified during circuit patrol	Complete	Mar-13	
			Install additional animal guarding to protect the circuit three phase	Complete	Oct-13	
			Install additional fuse to protect the circuit backbone	To be completed 2014		
			Perform accelerated backbone, three phase and single phase circuit assessment.	To be completed 2014		
Comprehensive tree trimming	To be completed 2014					

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
23	Leesport	00811-1	<i>Performance was driven by an outage caused by an arrester problem which contributed 50% of the circuit minutes and a vehicle accident which contributed 23% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Spot forestry inspection	Complete	Nov-12	
			Engineering review for the installation of an additional main line recloser	Complete	Dec-12	
			Replace additional main line crossarm from assessment	Complete	Apr-13	
			Replace main line crossarm brace from assessment	Complete	Apr-13	
			Replace tap insulator from comprehensive circuit patrol	Complete	Apr-13	
			Complete comprehensive circuit patrol	Complete	May-13	
			Complete work request design for new main line recloser	Complete	Aug-13	
			Install fuse/bypass on main line	Complete	Oct-13	
			Install main line arresters	Complete	Oct-13	
			Install additional main line recloser	Complete	Nov-13	
			Main line pole top repair from comprehensive circuit assessment	To be completed 2014		
Main line crossarm repair from comprehensive circuit assessment	To be completed 2014					
24	Lynnville	00735-1	<i>Performance was driven by two outages caused by an insulator problem which contributed 75% of the circuit minutes and non-preventable tree outages which contributed 15% of the circuit minutes.</i>			
			Main line insulator repair	Complete	Feb-13	
			Comprehensive tree trimming	Complete	Nov-13	
			Comprehensive circuit patrol	Complete	Jan-14	
			Install additional main line disconnects	To be completed 2014		
25	Dillsburg	00748-4	<i>Performance was driven by trees at 62% of circuit minutes and a lightning damaged insulator at 21% of circuit minutes.</i>			
			Perform radio controlled tie switch inspection	Complete	Aug-13	
			Install three one phase electronic resettable sectionalizers to improve circuit backbone reliability	Complete	Sep-13	
			Comprehensive tree trimming	To be completed 2014		
26	Windsor	00795-4	<i>Performance was driven by lightning cause outages which contributed 51% of the circuit minutes and equipment failure caused outages which contributed 21% of the circuit minutes.</i>			1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Comprehensive tree trimming	Complete	Dec-12	
			Perform accelerated circuit reliability assessment of three phase	Complete	Apr-13	
			Perform accelerated circuit reliability assessment of single phase	Complete	Apr-13	
			Perform accelerated circuit reliability assessment of backbone	Complete	Apr-13	
			Replace/repair high priority items identified during circuit patrol	Complete	Jul-13	

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
27	Moselem	00779-1	<i>Performance was driven by an outage by a bird contact which contributed 62% of the circuit minutes and an outage due to a substation equipment problem which contributed 30% of the circuit minutes.</i>			
			Perform accelerated backbone assessment	Complete	Sep-12	
			Install additional main line tap fuse	Complete	Apr-13	
			Replace underground cable in Richmond Commons underground residential development	Complete	Jul-13	
			Replace additional underground cable in Richmond Commons underground residential development	Complete	Aug-13	
			Install additional tap fuses	Complete	Sep-13	
			Upgrade line switches and install additional main line tap fuses	Complete	Oct-13	
28	Ferndale	00871-3	<i>Performance was driven by tree caused outage on 6/10/13 which contributed 50% of the circuit minutes and a vehicle accident on 10/4/13 which contributed 21% of the circuit minutes.</i>			
			Install Supervisory Control And Data Acquisition (SCADA) controlled switch	To be completed 2014		
29	Birdsboro	00760-1	<i>Performance was driven by two outages caused by overhead primary conductor problems while circuit was being utilized as backup source for a subtransmission upgrade which contributed 58% of the minutes and an outage due to an arrester problem contributed 14% of the circuit minutes.</i>			
			Complete comprehensive circuit patrol	Complete	May-13	
			Comprehensive tree trimming	To be completed 2014		
30	Snydersville	00621-3	<i>Performance was driven by an arrester problem on 11/27/13 which contributed 52% of minutes and a broken crossarm on 5/16/13 which contributed 25% of minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013 3Q 2013 4Q 2013
			Replace recloser	Complete	Aug-12	
			Perform accelerated backbone and three phase assessment	Complete	Aug-12	
			Replace crossarm found during circuit assessment	Complete	Oct-12	
			Perform accelerated backbone and three phase assessment	Complete	Oct-13	
			Replace substation recloser and add remote control	Complete	Oct-13	
			Correct fuse coordination	Complete	Dec-13	
Comprehensive tree trimming	To be completed 2014					

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
31	South Hamburg	00745-1	<i>Performance was driven by two outages caused by animal contacts which contributed to 91% of the circuit minutes.</i>			
			Comprehensive tree trimming	Complete	Dec-12	
			Comprehensive circuit assessment	Complete	Aug-13	
			Perform accelerated backbone and three phase assessment	Complete	Dec-13	
			Substation equipment repairs	Complete	Dec-13	
			Replace main line crossarm from assessment	To be completed 2014		
			Replace spacers in main line from assessment	To be completed 2014		
			Install animal protection at a tie switch	To be completed 2014		
32	W. Boyertown	00715-1	<i>Performance was driven by an outage caused by a crossarm problem which contributed 67% of the circuit minutes and outages caused by underground equipment problems which contributed 26% of the circuit minutes.</i>			
			Comprehensive tree trimming	Complete	Sep-12	
			Comprehensive circuit patrol	Complete	Oct-12	
			Replace main line regulator	Complete	Apr-13	
			Replace submersible transformer with pad mounted transformer	Complete	Jun-13	
			Replace additional submersible transformer with pad mounted transformer	Complete	Jul-13	
			Install main line tap fuses	To be completed 2014		
33	Annville	00743-2	<i>Performance was driven by trees related outages which contributed 90% of the circuit minutes.</i>			
			Complete comprehensive circuit patrol	Complete	Jan-13	
			Replace broken switch	Complete	Jul-13	
			Mid-cycle backbone and three phase forestry inspection	To be completed 2014		
			Replace crossarm	To be completed 2014		
			Replace Pole	To be completed 2014		
34	Northwood	00808-3	<i>Performance was driven by two crossarm failures which contributed 49% of minutes and line failure on 5/4/13 which contributed 25% of the circuit minutes.</i>			
			Perform accelerated backbone and three phase circuit assessment	To be completed 2014		
			Comprehensive tree trimming	To be completed 2014		
			Replace sectionalizer with Supervisory Control And Data Acquisition (SCADA MOAB)	To be completed 2014		

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35	Lincoln Park	00750-1	<i>Performance was driven by outages caused by underground cable problems in the Grove Ave underground residential development which contributed 53% of the circuit minutes and an outage caused by a vehicle accident which contributed 31% of the circuit minutes.</i>			
			Replace underground cable in Grove Ave underground residential development	Complete	Aug-13	
			Create back feed to Grove Ave underground residential development	Complete	Aug-13	
			Install main line fault indicators	To be completed 2014		
			Install main line tap fuses	To be completed 2014		
			Comprehensive tree trimming	To be completed 2014		
36	Birchwood	00623-3	<i>Performance was driven by two insulator failures on 3/4/13 which contributed 19% of minutes and 9/17/13 which contributed 32% of the circuit minutes.</i>			
			Comprehensive circuit assessment	To be completed 2014		
			Comprehensive tree trimming	To be completed 2014		
37	Wind Gap	00600-3	<i>Performance was driven by a vehicle accident on 11/26/13 which contributed 48% of minutes and an animal caused outage on 5/19/13 which contributed 12% of the circuit minutes.</i>			
			Comprehensive circuit assessment	To be completed 2014		
			Install new electronic recloser	To be completed 2014		
38	Myerstown	00752-2	<i>Performance was driven by lightning and an animal contact outages which contributed 94% of the circuit minutes.</i>			
			Comprehensive tree trimming	Complete	Jul-13	
			Comprehensive circuit assessment	To be completed 2014		
	Shawnee	00899-3	<i>Performance was driven by non-preventable trees which contributed 33% of minutes, lightning which contributed 24% of minutes and two motor vehicle accidents which contributed 19% of minutes.</i>			
			Comprehensive tree trimming	Complete	Dec-12	3Q 2012
			Install tap fuse on backbone	Complete	Dec-12	4Q 2012
			Forestry to perform on cycle comprehensive circuit tree trimming	Complete	Jan-13	1Q 2013
			Perform accelerated backbone and three phase circuit assessment	Complete	Mar-13	2Q 2013
			Engineering to evaluate additional radio controlled switch on circuit	Complete	Sep-13	

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	Bath	00873-3	<i>Performance was driven by a vehicle accident on 9/5/12 which contributed 57% of circuit minutes and non-preventable trees which contributed 17% of minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Replace porcelain cutouts on circuit backbone with polymer cutouts	Complete	Sep-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
			Comprehensive tree trimming	To be completed 2014		
	Mohnton	00123-1	<i>Performance was driven by a trees non-preventable outage during a severe storm event that included a broken pole (82%).</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Replace main line pin insulator	Complete	Apr-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Sep-13	
			Upgrade tie switch	Complete	Sep-13	
	Angelica	00129-1	<i>Performance was driven by trees non-preventable outages which contributed 43% of the circuit minutes and an outage caused by lightning during a severe storm event which contributed 41% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Comprehensive tree trimming on substation source circuit	Complete	Dec-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Sep-13	
	Barto	00706-1	<i>Performance driven by two outages during a severe weather event caused by trees which contributed 39% of the circuit minutes and a transmission substation equipment problem which contributed 32% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Transmission substation equipment repair	Complete	Jul-12	
			Engineering review for the installation of additional main line reclosers	Complete	Jul-12	
			Spot forestry inspection	Complete	Nov-12	
			Add fault indicators and repair anchor guy on tap	Complete	Mar-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Sep-13	

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	South Hamburg	00743-1	<i>Performance driven by two outages caused by crossarm problems which contributed 46% of the circuit minutes and tree non-preventable outages which contributed 38% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Perform accelerated backbone assessment	Complete	Jul-12	
			Line Manager main line patrol	Complete	Jul-12	
			Main line crossarm replacements	Complete	Jul-12	
			Engineering review for the installation of an additional main line recloser	Complete	Jul-12	
			Comprehensive tree trimming	Complete	Dec-12	
			Replace main line crossarm from backbone assessment	Complete	Jan-13	
			Comprehensive circuit patrol	Complete	Sep-13	
			Replace additional main line crossarms from backbone assessment	Complete	Sep-13	
			Install additional main line recloser	To be completed 2014		
	Bern Church	00791-1	<i>Performance was driven by three outages during a severe weather event caused by wind and a tree which contributed 90% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Spot forestry inspection	Complete	Aug-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Sep-13	
			Comprehensive tree trimming	To be completed 2014		
	Cly	00722-4	<i>Performance was driven by trees non-preventable outages which contributed 84% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Install radio controlled switch and radio controlled recloser with fault indicators	Complete	Oct-12	
			Perform accelerated circuit reliability assessment of backbone	Complete	Dec-12	
			Perform accelerated circuit reliability assessment of three phase	Complete	Dec-12	
			Perform mid cycle forestry patrol	Complete	Dec-12	
			Forestry to perform on mid cycle backbone circuit tree trimming	Complete	Dec-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Apr-13	
			Perform accelerated single phase circuit assessment	Complete	Apr-13	
			Replace/repair high priority items identified during circuit patrol	Complete	Aug-13	
			Perform wood pole inspection	Complete	Oct-13	
			Install additional fault indicators on the circuit	Complete	Nov-13	

<b>Met-Ed</b>						
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work</b>	<b>Date Remedial Work Completed</b>	<b>Appeared in 4 of 6 Quarters</b>
	Campbelltown	00634-2	<i>Performance was driven by line failures which contributed 92% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Accelerated patrol of circuit backbone and three phase	Complete	Aug-12	
			Install fault indicators two locations	Complete	Aug-12	
			Replace recloser on circuit backbone	Complete	Feb-13	
			Replace poles at three locations to improve clearance	Complete	Jun-13	
			Comprehensive circuit patrol	Complete	Jul-13	
	Collins	00761-2	<i>Performance was primarily driven by tree caused outages which contributed 84% of the circuit minutes and equipment failure which contributed 9% of the circuit minutes.</i>			3Q 2012 4Q 2012 1Q 2013 2Q 2013
			Replace deteriorated crossarm	Complete	Jan-13	
			Comprehensive tree trimming	Complete	Mar-13	
			Replace deteriorated crossarm	Complete	Jul-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	North Lebanon	00712-2	<i>Performance was primarily driven by vehicle accidents which contributed 76% of the circuit minutes.</i>			4Q 2012 1Q 2013 2Q 2013 3Q 2013
			Replace Broken Switch 71216	Complete	Apr-13	
			Replace deteriorated crossarm	Complete	Jul-13	
			Replace recloser and control with triple single unit	Complete	Aug-13	
			Perform accelerated backbone circuit assessment	Complete	Oct-13	
			Comprehensive tree trimming	Complete	Nov-13	
			Comprehensive circuit assessment	To be completed 2014		
	H. Bangor	00814-3	<i>Performance was driven by an outage of unknown cause during a storm on 8/4/12 which contributed 48% of minutes and trees during a storm on 1/31/13 which contributed 26% of minutes.</i>			
			Perform wood pole inspection	Complete	Apr-13	
			Install two Supervisory Control And Data Acquisition (SCADA) switches	Complete	Oct-13	

<b>Met-Ed</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	Hill	00735-4	<i>Performance driven by tree cause outages which contributed 74% of the circuit minutes.</i>			
			Comprehensive tree trimming	Complete	Jul-12	
			Perform accelerated backbone and three phase assessment	Complete	Aug-12	
			Comprehensive circuit assessment	Complete	Aug-13	
			Replace poles identified during wood pole inspection	Complete	Aug-13	
			Replace/repair high priority items identified during circuit patrol	Complete	Sep-13	
			Replace/repair high priority items identified during circuit patrol	Complete	Oct-13	
	Belfast	00849-3	<i>Performance was driven by a tree caused outage on 6/30/13 which contributed 31% of minutes and a step transformer failure on 5/10/13 which contributed 27% of minutes.</i>			
			Replace crossarm identified during circuit assessment	Complete	Apr-13	
			Comprehensive tree trimming	Complete	Jun-13	
			Install additional main line fusing	Complete	Oct-13	
	Taxville	00572-4	<i>Performance was driven by lightning cause outages which contributed 89% of the circuit minutes.</i>			
			Install fault indicators on the circuit three phase backbone.	Complete	Sep-12	
			Replace/repair high priority items identified during circuit patrol	Complete	Sep-12	
			Install additional fuse on the circuit	Complete	Oct-12	
			Comprehensive tree trimming	Complete	Mar-13	
			Perform accelerated backbone circuit assessment	Complete	Oct-13	
	Gardners	00752-4	<i>Performance driven by trees at 64% of circuit minutes; and a tractor trailer pole accident at 9% of circuit minutes.</i>			
			Perform post Hurricane Sandy accelerated circuit reliability assessment of main line	Complete	Nov-12	
			Perform post Hurricane Sandy accelerated circuit reliability assessment of three phase	Complete	Nov-12	
			Replace crossarm identified on post Hurricane Sandy accelerated circuit patrol	Complete	Nov-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	

Met-Ed						
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	Shawnee	00822-3	<i>Performance was driven by a storm on 9/18/12 which contributed 39% of circuit minutes.</i>			
			Replace three sets of fault indicators	Complete	Aug-12	
			Repair conditioned items from circuit assessment	Complete	Sep-12	
			Install fault indicators	Complete	May-13	
			Replace pole with woodpecker damage	Complete	Jul-13	
			Replace pole with woodpecker damage	Complete	Jul-13	
			Upgrade recloser from form three control to form six control	Complete	Jun-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Swatara Hill	00764-2	<i>Performance was primarily driven by vehicle accidents which contributed 55% of the circuit minutes, outages of unknown origins which contributed 18%, equipment failure which contributed 14% and line failures which contributed 8% of the circuit minutes.</i>			
			Replace deteriorated crossarm	Complete	Nov-12	
			Replace deteriorated crossarm	Complete	Nov-12	
			Comprehensive tree trimming	Complete	Apr-13	
			Perform accelerated backbone circuit assessment	Complete	Oct-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Yorkana	00708-4	<i>Performance driven by tree cause outage which contributed 63% of the circuit minutes.</i>			
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Grantville	00720-2	<i>Performance was primarily driven by tree caused damage which contributed 38% of the circuit minutes, equipment damage which contributed 37% of the circuit minutes and a scissor lift contacting the line which contributed 16% of the circuit minutes.</i>			
			Repair pole top	Complete	Mar-13	
			Perform wood pole inspection	Complete	Mar-13	
			Replace recloser with new triple-single unit	Complete	May-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Allen	00503-4	<i>Performance was driven by trees at 49% of circuit minutes and a vehicle related outage accounting for 22%.</i>			
			Perform accelerated circuit reliability assessment of main line	Complete	Sep-12	
			Perform accelerated circuit reliability assessment of three phase	Complete	Sep-12	
			Perform accelerated backbone circuit assessment	Complete	Oct-13	

Met-Ed.						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	Dillsburg	00749-4	<i>Performance was driven by trees at 79% of circuit minutes. One tree related outage accounted for 68% of the circuit's minutes.</i>			
			Replace/repair high priority item identified during circuit patrol	Complete	Nov-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Dillsburg	00746-4	<i>Performance was driven by a conductor problem that accounted for 63% of circuit minutes and a tree related outage that accounted for 17% of the circuit minutes.</i>			
			Perform accelerated circuit reliability assessment of three phase	Complete	Aug-12	
			Perform accelerated backbone assessment	Complete	Aug-12	
			Replace high priority items identified during circuit patrol	Complete	Dec-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Lynnville	00737-1	<i>Performance driven by trees non-preventable outages (68%).</i>			
			Perform accelerated backbone and three phase assessment	Complete	Jul-12	
			Complete engineering main line coordination study	Complete	Jan-13	
			Comprehensive tree trimming	Complete	Sep-13	
			Perform accelerated backbone and three phase assessment	Complete	Oct-13	
	Bernville	00786-1	<i>Performance was driven by two outages related to a vehicle accident which contributed 67% of the circuit minutes and an outage caused by lightning which contributed 18% of the circuit minutes.</i>			
			Spot forestry inspection	Complete	Nov-12	
			Install additional main line tap fuses	Complete	Dec-12	
			Perform wood pole inspection	Complete	Mar-13	
			Pole replacements from pole inspections	Complete	May-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
			Comprehensive tree trimming	Complete	Oct-13	
	Bernville	00787-1	<i>Performance driven by trees non-preventable outages which contributed 70% of the circuit minutes.</i>			
			Replace arresters on main line recloser	Complete	Dec-12	
			Comprehensive tree trimming	Complete	Mar-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	N. Lebanon	00715-2	<i>Performance was primarily driven by wind caused damage which contributed 62% of the circuit minutes and vehicle accidents which contributed 32% of the circuit minutes.</i>			
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
			Comprehensive tree trimming	Complete	Oct-13	

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	S. Lebanon	00772-2	<i>Performance was primarily driven by vehicle accidents which contributed 57% of the circuit minutes, tree caused damage which contributed 21% of the minutes and forced outages which contributed 16% of the circuit minutes.</i>			
			Perform accelerated three phase circuit assessment	Complete	Jul-12	
			Perform accelerated backbone assessment	Complete	Jul-12	
			Install fault indicators at two locations	Complete	Aug-13	
			Replace deteriorated crossarm	Complete	Jul-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Yoe	00559-4	<i>Performance was driven by a line failure caused outages which contributed 82% of the circuit minutes.</i>			
			Perform mid-cycle forestry patrol	Complete	Aug-12	
			Replace/repair high priority items identified during circuit patrol	Complete	Oct-12	
			Comprehensive circuit patrol	Complete	Oct-13	
	Mountain	00742-4	<i>Performance driven by overhead conductor problems that accounted for 34% of circuit minutes, underground cable problems at 24% of circuit minutes and trees that accounted for 16% of circuit minutes.</i>			
			Replace three spans of underground primary cable	Complete	Jul-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Mountain	00743-4	<i>Performance driven by a conductor problem that accounted for 53% of circuit minutes and trees that accounted for 35% of circuit minutes.</i>			
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Grantville	00721-2	<i>Performance was primarily driven by tree caused outages which contributed 70% of the circuit minutes, equipment failure which contributed 14% of the circuit minutes and avian caused outages which contributed 8% of the circuit minutes.</i>			
			Perform accelerated backbone assessment	Complete	Jul-12	
			Perform accelerated three phase circuit assessment	Complete	Jul-12	
			Correct four coordination issues	Complete	Oct-12	
			Relocate recloser 72132	Complete	Aug-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	Glades	00580-4	<i>Performance driven by one outage caused by customer equipment failure which contributed 64% of the circuit minutes.</i>			
			Perform accelerated circuit reliability assessment of backbone	Complete	Aug-12	
			Perform accelerated circuit reliability assessment of three phase	Complete	Aug-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
	Swatara Hill	00763-2	<i>Performance was driven by equipment failures which contributed 46% of the circuit minutes and lightning damage which contributed 34% of the circuit minutes.</i>			
			Repair broken insulator on three phase	Complete	Jul-12	
			Balance load beyond recloser 76342	Complete	Sep-12	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	
	North Cornwall	00610-2	<i>Performance was driven by vehicle accidents which contributed 31% of the circuit minutes, tree damage which contributed 34% of the minutes and an outage of unknown origin which contributed 33% of the circuit minutes.</i>			
			Comprehensive tree trimming	Complete	Dec-12	
			Replace deteriorating insulator	Complete	Aug-13	
	South Lebanon	00780-2	<i>Performance was driven by an outage of unknown origin which contributed 92% of the circuit minutes and conductor failure which contributed 6% of the circuit minutes.</i>			
			Perform accelerated three phase circuit assessment	Complete	Jul-12	
			Perform accelerated backbone assessment	Complete	Jul-12	
			Install fault indicators at two locations	Complete	Aug-13	
			Perform accelerated backbone and three phase circuit assessment	Complete	Oct-13	

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 4<sup>th</sup> Quarter 2013 Reliability Report – :  
Metropolitan Edison Company, :  
Pennsylvania Electric Company and :  
Pennsylvania Power Company – Public :  
Version :**

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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).

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Harrisburg, PA 17101

Tanya McCloskey  
Office of Consumer Advocate  
555 Walnut Street  
5<sup>th</sup> Floor Forum Place  
Harrisburg, PA 17101-1923

Dated: February 3, 2014

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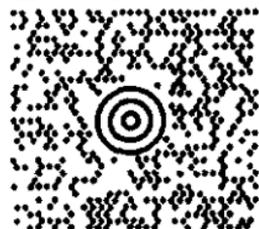
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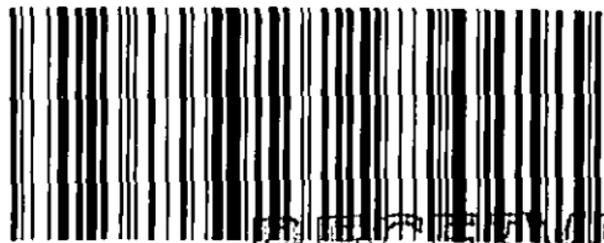
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