

April 30, 2010

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P.O. Box 3265  
Harrisburg, PA 17120

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APR 30 2010

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

*L-00030161*

Re: Joint 1<sup>st</sup> Quarter 2010 Reliability Report – Pennsylvania Power Company, Pennsylvania Electric Company and Metropolitan Edison Company - Pursuant to 52 Pa. Code § 57.195(d) and (e)

Dear Secretary Chiavetta,

Enclosed for filing on behalf of Pennsylvania Power Company, Pennsylvania Electric Company, and Metropolitan Edison Company (collectively, the “Companies”) is an original and six (6) copies of their Joint 1<sup>st</sup> Quarter 2010 Reliability Report – Public Version, pursuant to 52 Pa. Code § 57.195(d) and (e).

On December 22, 2004, the Companies filed an Application for Protective Order at Docket No. L-000301061. The Application was granted, allowing the Companies to file proprietary versions of the quarterly reliability reports. The Proprietary Version of this report is being filed under separate cover.

Sincerely,



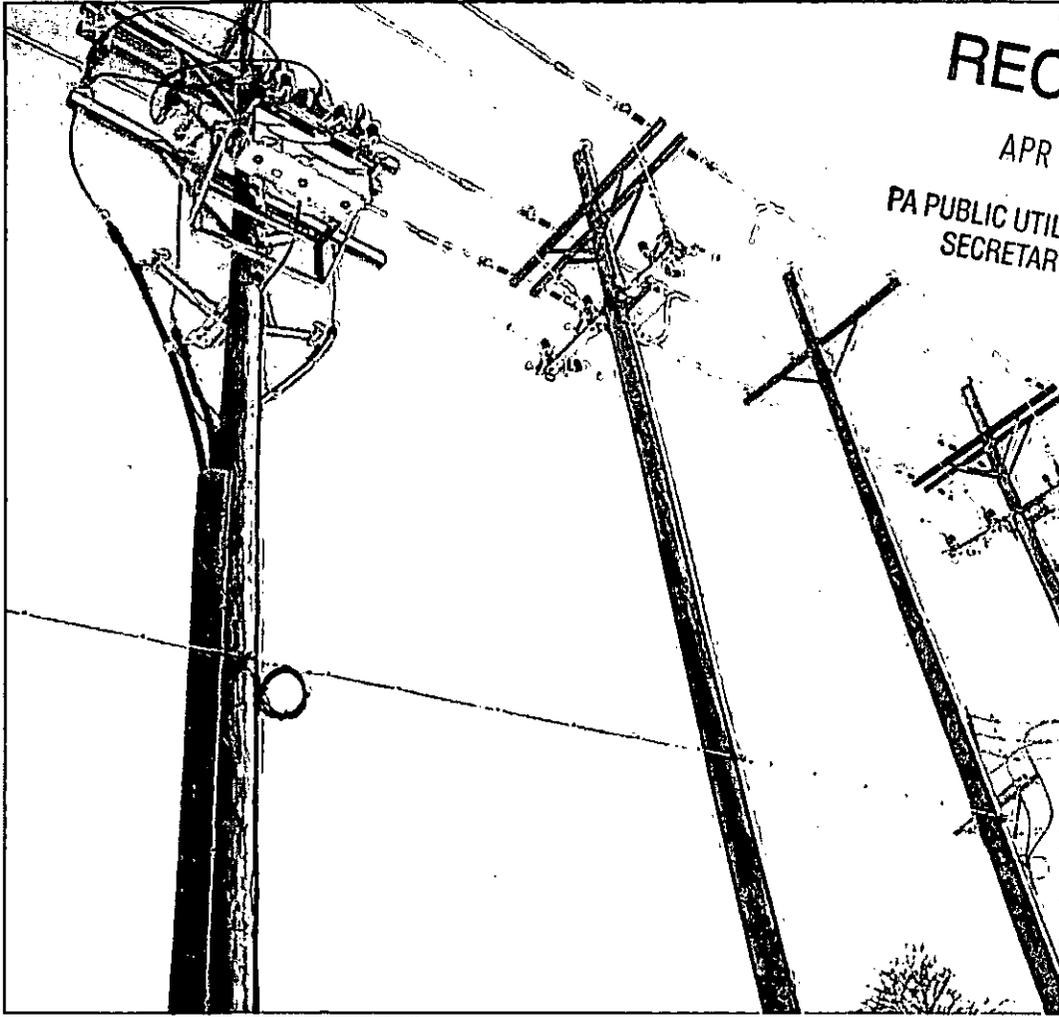
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**FirstEnergy**

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PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

## Joint 2010 1<sup>st</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 1<sup>st</sup> Quarter 2010 Reliability Report –  
Pennsylvania Power Company,  
Pennsylvania Electric Company and  
Metropolitan Edison Company**

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APR 30 2010

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

The following Joint 1<sup>st</sup> Quarter 2010 Reliability Report is filed on behalf of Pennsylvania Power Company (“Penn Power”), Pennsylvania Electric Company (“Penelec”), and Metropolitan Edison Company (“Met-Ed”), collectively referred to as the “Companies” for the period-ending March 31, 2010.

*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>a</sup>.*

*Major Events*

The Companies did not experience a major event during the reporting period ending March 31, 2010.

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<sup>a</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**

1Q 2010 (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
<b>SAIFI</b>	1.12	1.34	0.88	1.26	1.52	1.24	1.15	1.38	1.20
<b>CAIDI</b>	101	121	109	117	141	120	117	140	117
<b>SAIDI</b>	113	162	96	148	213	148	135	194	141
<b>Customers Served (a)</b>	157,228			581,518			543,295		
<b>Number of Sustained Interruptions</b>	2,750			10,633			9,213		
<b>Customers Affected</b>	138,293			719,040			653,113		
<b>Customer Minutes</b>	15,075,758			86,149,445			76,613,221		

(a) Represents the average number of customers served during the reporting period.

Penn Power, Penelec, and Met-Ed results for 1<sup>st</sup> Quarter 2010 are:

- better than the Commission's 12-Month Standard for 9 out of 9 reliability indices (SAIFI, CAIDI, SAIDI)
- better than, or equal to, the Commission's Benchmark for 5 of the 9 reliability indices

Penn Power	
<b>SAIFI</b>	34% better than Commission's 12-Month Standard 21% better than Commission's Benchmark
<b>CAIDI</b>	10% better than Commission's 12-Month Standard 6% improvement over 12-Month Rolling Actual for 4Q 2009
<b>SAIDI</b>	41% better than Commission's 12-Month Standard 15% better than Commission's Benchmark
Penelec	
<b>SAIFI</b>	18% better than Commission's 12-Month Standard 2% better than Commission's Benchmark 2% improvement over 12-Month Rolling Actual for 4Q 2009
<b>CAIDI</b>	15% better than Commission's 12-Month Standard
<b>SAIDI</b>	31% better than Commission's 12-Month Standard Equal to Commission's Benchmark
Met-Ed	
<b>SAIFI</b>	13% better than Commission's 12-Month Standard 1% improvement over 12-Month Rolling Actual for 4Q 2010
<b>CAIDI</b>	16% better than Commission's 12-Month Standard Equal to Commission's Benchmark
<b>SAIDI</b>	27% better than Commission's 12-Month Standard

*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*

Penn Power, Penelec, and Met-Ed's ranking of the 5% Worst Performing Circuits are provided in Attachment A of 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 Action*

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

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*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

<b>Outages by Cause</b>				
<b>1st Quarter 2010 12-Month Rolling</b>	<b>Penn Power</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Number of Outages</b>
TREES/NOT PREVENTABLE	4,493,770	596	20,778	21.67%
ANIMAL	674,105	384	10,412	13.96%
EQUIPMENT FAILURE	3,194,849	381	41,569	13.85%
BIRD	244,454	297	3,761	10.80%
LINE FAILURE	1,419,321	281	9,740	10.22%
LIGHTNING	1,705,443	261	16,961	9.49%
UNKNOWN	366,141	130	3,188	4.73%
VEHICLE	1,088,959	90	10,597	3.27%
OVERLOAD	72,819	69	1,265	2.51%
PREVIOUS LIGHTNING	210,726	57	2,263	2.07%
HUMAN ERROR -NON-COMPANY	311,299	53	3,339	1.93%
FORCED OUTAGE	390,267	52	6,648	1.89%
TREES/PREVENTABLE	40,875	34	356	1.24%
OBJECT CONTACT WITH LINE	644,509	21	4,066	0.76%
ICE	2,041	15	17	0.55%
UG DIG-UP	11,102	9	141	0.33%
VANDALISM	916	8	9	0.29%
HUMAN ERROR - COMPANY	111,968	5	2,247	0.18%
CUSTOMER EQUIPMENT	85,615	4	912	0.15%
CONTAMINATION	1,684	2	13	0.07%
FIRE	4,895	1	11	0.04%
<b>TOTAL</b>	<b>15,075,758</b>	<b>2,750</b>	<b>138,293</b>	<b>100.00%</b>

## Proposed Solutions – Penn Power

### Trees Non-Preventable

Forestry Services reviews the “Trees Non-Preventable” 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 Non-Preventable” 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 high frequencies of animal-related outages are experienced. When possible, animal guards are installed at the time service is restored for the outages caused by animals. In addition, Penn Power requires animal guards to be installed on all new overhead and underground riser installations.

### Equipment Failure

The number of equipment failures are 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.

Penn Power’s review has shown an increase in the number of outages from cutouts. Porcelain cutouts were found to be the major cause for cutout-related outages, resulting in the discontinued use of porcelain cutouts for new installations, and older porcelain cutouts are being replaced with new polymer cutouts when they fail.

In 2009, all of Penn Power's main feed three phase backbone was inspected twice, once in the winter/spring and once in the fall, to identify critical problems before they cause an outage. Infrared scanning of three phase backbone occurred on 17 circuits. These scans find "hot spots" that are repaired before they can cause an outage.

Outages by Cause – Penelec

Outages by Cause				
1st Quarter 2010 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
EQUIPMENT FAILURE	22,132,177	3,060	212,232	28.78%
TREES/NOT PREVENTABLE	29,180,036	1,696	135,941	15.95%
UNKNOWN	6,380,414	1,522	73,399	14.31%
ANIMAL	2,295,636	1,190	33,648	11.19%
LINE FAILURE	11,633,487	837	110,536	7.87%
FORCED OUTAGE	3,490,382	488	38,408	4.59%
LIGHTNING	2,313,632	428	21,198	4.03%
VEHICLE	4,681,912	317	34,163	2.98%
BIRD	886,564	286	15,598	2.69%
HUMAN ERROR - COMPANY	383,163	126	13,477	1.18%
OVERLOAD	694,945	109	7,348	1.03%
PREVIOUS LIGHTNING	148,237	99	566	0.93%
HUMAN ERROR -NON-COMPANY	685,878	95	7,038	0.89%
ICE	60,250	88	369	0.83%
OTHER ELECTRIC UTILITY	381,876	66	2,117	0.62%
UG DIG-UP	129,361	65	564	0.61%
VANDALISM	288,312	40	3,511	0.38%
TREES/PREVENTABLE	46,358	30	623	0.28%
OBJECT CONTACT WITH LINE	158,737	27	3,292	0.25%
CUSTOMER EQUIPMENT	58,212	25	2,120	0.24%
FIRE	31,676	23	347	0.22%
CONTAMINATION	13,050	5	141	0.05%
OTHER UTILITY-NON ELEC	56,440	5	1,549	0.05%
SWITCHING ERROR	18,549	4	1,037	0.04%
CALL ERROR	62	1	1	0.01%
WIND	99	1	1	0.01%
	<b>86,149,445</b>	<b>10,633</b>	<b>719,224</b>	<b>100.00%</b>

## Proposed Solutions – Penelec

### Equipment Failure

Penelec has identified porcelain cutout failures to be a large contributor to equipment failure outages and, as such, has been replacing porcelain cutouts with polymer cutouts as a preventive measure in conjunction with existing work plans, as a part of the targeted mainline equipment replacement program.

The number of equipment failures are further mitigated by way of inspection and maintenance practices, such as circuit inspections and others. Penelec's entire main feed three-phase backbone was inspected during 2008 to identify and repair critical problems before they caused an outage. Inspections of the main feed three-phase was performed again on 50% of the circuits during 2009. Infrared scanning on the main feed three-phase has been completed on 46% of Penelec's circuits since 2008.

In addition, 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. Engineering Services continually monitors and investigates devices experiencing three or more outages in thirty days to identify causes and trends of equipment failures and other outages.

### Trees Non-Preventable

Forestry Services reviews the "Trees Non-Preventable" 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 Non-Preventable" 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 our normal tree trimming maintenance program.

### Unknown Outages

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.

Outages by Cause – Met-Ed

Outages by Cause				
1st Quarter 2010 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
EQUIPMENT FAILURE	16,597,827	2450	186,203	26.59%
TREES/NOT PREVENTABLE	32,173,400	2033	183,248	22.07%
ANIMAL	1,545,552	1256	21,550	13.63%
UNKNOWN	3,891,635	1108	38,648	12.03%
LINE FAILURE	6,692,621	692	44,043	7.51%
LIGHTNING	2,193,186	481	21,675	5.22%
VEHICLE	5,987,796	304	46,588	3.30%
FORCED OUTAGE	2,940,914	285	56,622	3.09%
TREES/PREVENTABLE	695,888	118	6,314	1.28%
BIRD	235,454	107	4,563	1.16%
HUMAN ERROR -NON-COMPANY	444,693	73	3,898	0.79%
OVERLOAD	510,543	71	7,103	0.77%
PREVIOUS LIGHTNING	50,533	55	423	0.60%
HUMAN ERROR - COMPANY	820,551	48	20,500	0.52%
UG DIG-UP	101,592	35	569	0.38%
ICE	1,984	23	23	0.25%
CUSTOMER EQUIPMENT	76,659	19	751	0.21%
OBJECT CONTACT WITH LINE	360,342	19	3,920	0.21%
WIND	1,017,428	10	3,460	0.11%
VANDALISM	54,646	8	1,729	0.09%
FIRE	5,734	7	76	0.08%
OTHER UTILITY-NON ELEC	210,610	7	1,193	0.08%
OTHER ELECTRIC UTILITY	3,607	3	13	0.03%
CONTAMINATION	26	1	1	0.01%
<b>TOTAL</b>	<b>76,613,221</b>	<b>9,213</b>	<b>653,113</b>	<b>100.00%</b>

## Proposed Solutions – Met-Ed

### Equipment Failure

The number of equipment failures are 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.

### Trees Non-Preventable

Forestry Services reviews areas where “Trees Non-Preventable” outages occur to see if there has been a high frequency of occurrence. 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 the Danger / Priority Tree program, circuits identified by engineering that have had "Trees Non-Preventable" caused outages are prioritized based on customer outage minutes. A patrol of the three-phase backbone of each circuit is performed and foresters identify any potentially dangerous tree conditions. If the tree cannot be removed, overhang at the location is removed.

### Animal

Animal guards are installed on equipment where high frequencies of animal-related outages are 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.

*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*

Inspection and Maintenance 2010		Penn Power			Penelec			Met-Ed			
		Planned	Completed		Planned	Completed		Planned	Completed		
		Annual	1Q	YTD	Annual	1Q	YTD	Annual	1Q	YTD	
Forestry	Transmission (Miles)	189	15	15	456	6	6	133	9	9	
	Distribution (Miles)	832	252	252	4,817	774	774	2,671	559	559	
Transmission	Aerial Patrols	2	1	1	2	1	1	2	0	0	
	Groundline <sup>b</sup>	150	0	0	2,024	0	0	1,206	0	0	
Substation	General Inspections	1,044	261	261	5,544	1,386	1,386	2,916	729	729	
	Transformers	123	105	105	834	677	677	488	175	175	
	Breakers	68	40	40	601	330	330	162	35	35	
	Relay Schemes	74	30	30	443	281	281	469	114	114	
Distribution	Capacitors	983	990	990	8,632	8,312	8,312	4,581	4,581	4,581	
	Poles	12,400	10,107	10,107	50,000	0	0	30,000	26,398	26,398	
		Planned	Completed		Planned	Completed		Planned	Completed		
	Reclosers <sup>c</sup>	727	0	0	2,490	0	0	877	877	877	
	Radio-Controlled Switches (2 / year)	1st half 2010	Penn Power has no radio controlled switches			1,036	179		80	6	
		2nd half 2010				1,036					

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

<sup>b</sup> Transmission groundline inspections:

- Penn Power includes 69kV and 138kV
- Penelec includes 115kV and 230kV
- Met-Ed includes 69kV and 115kV

<sup>c</sup> Pursuant to the Inspection, Maintenance, Repair and Replacement programs that were approved by the Commission on December 15, 2009 the Companies visually inspect line reclosers annually.

*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 or FERC account code as available. (For first, second and third quarter reports only).*

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

<b>T&amp;D O&amp;M - 1Q / YTD March 2010</b>						
<b>Company</b>	<b>PUC Category</b>	<b>1Q Actual</b>	<b>1Q Budget</b>	<b>YTD Actual</b>	<b>YTD Budget</b>	<b>Annual Budget</b>
<b>Penn Power</b>	Corrective Maintenance	333,593	1,424,088	333,593	1,424,088	4,577,944
	Preventive Maintenance	141,488	3,044	141,488	3,044	12,174
	Storms	165,539	172,131	165,539	172,131	695,962
	Vegetation Management	296,328	985,645	296,328	985,645	3,482,580
	Misc	513,038	688,257	513,038	688,257	2,768,827
	Operations	583,654	458,463	583,654	458,463	2,579,489
<b>Penn Power Total</b>		<b>2,033,640</b>	<b>3,731,628</b>	<b>2,033,640</b>	<b>3,731,628</b>	<b>14,116,976</b>
<b>Penelec</b>	Corrective Maintenance	1,957,518	3,737,127	1,957,518	3,737,127	14,948,507
	Preventive Maintenance	921,346	994,797	921,346	994,797	3,979,186
	Storms	337,167	687,502	337,167	687,502	2,750,007
	Vegetation Management	359,233	1,048,295	359,233	1,048,295	7,651,229
	Misc	1,905,186	1,410,950	1,905,186	1,410,950	6,540,399
	Operations	4,527,143	4,753,475	4,527,143	4,753,475	23,738,465
<b>Penelec Total</b>		<b>10,007,593</b>	<b>12,632,146</b>	<b>10,007,593</b>	<b>12,632,146</b>	<b>59,607,793</b>
<b>Met-Ed</b>	Corrective Maintenance	1,684,910	2,391,039	1,684,910	2,391,039	10,778,850
	Preventive Maintenance	685,940	669,260	685,940	669,260	2,961,935
	Storms	4,969,328	1,385,303	4,969,328	1,385,303	6,064,242
	Vegetation Management	1,423,473	1,595,847	1,423,473	1,595,847	7,178,113
	Misc	1,319,998	1,265,111	1,319,998	1,265,111	5,628,033
	Operations	3,781,990	5,832,306	3,781,990	5,832,306	30,418,454
<b>Met-Ed Total</b>		<b>13,865,639</b>	<b>13,138,866</b>	<b>13,865,639</b>	<b>13,138,866</b>	<b>63,029,627</b>
<b>Grand Total</b>		<b>25,906,872</b>	<b>29,502,640</b>	<b>25,906,872</b>	<b>29,502,640</b>	<b>136,754,396</b>

*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*

T&D Capital Only Includes CIAC(net) - 1Q / YTD March 2010						
Company	PUC Category	1Q Actual	1Q Budget	YTD Actual	YTD Budget	Annual Budget
Penn Power	New Business	748,961	699,850	748,961	699,850	4,033,297
	Reliability	1,528,734	1,630,696	1,528,734	1,630,696	9,253,672
	Capacity	82,833	18,300	82,833	18,300	99,532
	Misc	528,075	485,847	528,075	485,847	668,293
	Forced	1,127,554	750,851	1,127,554	750,851	3,985,920
	Vegetation Management	1,845,042	507,451	1,845,042	507,451	1,678,339
<b>PennPower Total</b>		<b>5,861,199</b>	<b>4,092,995</b>	<b>5,861,199</b>	<b>4,092,995</b>	<b>19,719,053</b>
Penelec	New Business	3,546,915	3,822,692	3,546,915	3,822,692	17,227,653
	Reliability	9,249,461	8,292,827	9,249,461	8,292,827	41,001,900
	Capacity	1,539,340	4,512,014	1,539,340	4,512,014	18,171,872
	Misc	3,104,130	3,280,147	3,104,130	3,280,147	7,744,948
	Forced	5,366,968	6,739,949	5,366,968	6,739,949	27,100,339
	Vegetation Management	4,581,782	2,654,467	4,581,782	2,654,467	17,405,125
<b>Penelec Total</b>		<b>27,388,596</b>	<b>29,302,096</b>	<b>27,388,596</b>	<b>29,302,096</b>	<b>128,651,837</b>
Met-Ed	New Business	3,692,273	4,536,221	3,692,273	4,536,221	21,384,212
	Reliability	6,967,365	7,177,820	6,967,365	7,177,820	24,629,352
	Capacity	5,602,955	10,259,630	5,602,955	10,259,630	15,259,222
	Misc	1,912,014	2,071,241	1,912,014	2,071,241	4,907,552
	Forced	3,342,340	4,063,457	3,342,340	4,063,457	19,135,777
	Vegetation Management	3,989,368	4,032,943	3,989,368	4,032,943	16,393,794
<b>Met-Ed Total</b>		<b>25,506,315</b>	<b>32,141,312</b>	<b>25,506,315</b>	<b>32,141,312</b>	<b>101,709,909</b>
<b>Grand Total</b>		<b>58,756,110</b>	<b>65,536,403</b>	<b>58,756,110</b>	<b>65,536,403</b>	<b>250,080,799</b>

*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 2010					
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	27			
	Lineman	54			
Substation	Technician	6			
	Construction & Maintenance (C&M)	14			
<b>Total</b>		<b>101</b>			

Penelec 2010					
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	140			
	Lineman	189			
Substation	Technician	8			
	Construction & Maintenance (C&M)	69			
<b>Total</b>		<b>406</b>			

Met-Ed 2010					
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	53			
	Lineman	159			
Substation	Technician	12			
	Construction & Maintenance (C&M)	57			
<b>Total</b>		<b>281</b>			

*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.

*Call-out Response*

This portion of the report is confidential per Docket L-000301061.

**ATTACHMENT A**

**Worst Performing Circuits - Reliability Indices**

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The Companies define their 5% worst performing circuits based on SAIDI. The Companies use SAIDI as a measure of circuit performance. The SAIDI index is a measure of the total customer minutes of distribution outages on the circuit. Beginning in 2006, distribution circuits were ranked based on SAIDI contribution to the overall Company SAIDI (customer minutes).

Penn Power													
Circuit Rank	Substation	Circuit Desc	District	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	HARTSTOWN	W-126	Clark	2,165	56	1	1,154,725	5,929	7.34	533	2.74	195	2.2
2	EVANS CITY	D611	Zell	995	28	1	350,324	3,646	2.23	352	3.66	96	7.5
3	JACKSON	W730	Zell	1,858	17	1	344,772	2,285	2.19	186	1.23	151	5.0
4	CASTLEWOOD	D-326	Clark	1,076	27	1	327,028	2,261	2.08	304	2.10	145	2.1
5	CANAL	W-104	Clark	1,678	10	1	263,767	2,473	1.68	157	1.47	107	0.4
6	MERCER	W-167	Clark	1,374	36	0	259,196	1,620	1.65	189	1.18	160	2.9
7	PERRY	W-156	Clark	1,037	42	0	245,963	819	1.56	237	0.79	300	0.0
8	CONNEAUT	W-173	Clark	1,917	42	0	217,195	2,115	1.38	113	1.10	103	0.2
9	WENGLER AVENUE	D-249	Clark	1,225	4	1	212,681	1,266	1.35	174	1.03	168	0.0

- (1) Average number of customers served by the circuit for the 12-month period.
- (2) Number of unique outages experienced by one or more customers on the circuit during the period, due to distribution outage causes.
- (3) Number of circuit lockouts during the period.
- (4) Total customer minutes of outage during the period due to distribution outage causes.
- (5) Number of customer outages during the period due to distribution outage causes.
- (6) Impact of the distribution outages on this circuit to Penn Power's SAIDI.
- (7) Distribution circuit SAIDI, SAIFI, CAIDI and MAIFI 12-Month Rolling due to distribution outage causes.

Penelec													
Circuit Rank	Substation	Circuit Desc	District	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	Philipsburg	00162-22	Philipsburg	3,262	98	1	1,944,747	17,704	3.34	596	5.43	110	21.6
2	Springboro	00237-52	Meadville	2,864	55	0	1,938,613	5,801	3.33	677	2.03	334	11.8
3	Powell Ave	00237-31	Erie	2,139	28	0	1,000,780	6,938	1.72	468	3.24	144	7.0
4	Madera	00166-22	Philipsburg	2,230	56	0	960,614	4,448	1.65	431	1.99	216	6.7
5	Madera	00165-22	Philipsburg	763	35	1	893,178	5,271	1.54	1,171	6.91	169	35.7
6	Powell Ave	00513-31	Erie	1,727	13	1	881,477	2,746	1.52	510	1.59	321	8.2
7	Grover	00527-63	Mansfield	1,101	77	1	824,463	2,266	1.42	749	2.06	364	11.4
8	Curryville	00644-71	Altoona	1,758	41	0	750,381	2,649	1.29	427	1.51	283	12.7
9	Birmingham	00168-22	Philipsburg	1,048	41	1	740,494	3,166	1.27	707	3.02	234	4.7
10	Tunkhannock	00533-65	Tunkhannock	1,239	34	1	714,008	3,578	1.23	576	2.89	200	7.3
11	N Meshoppen	00534-65	Tunkhannock	835	47	0	709,899	3,696	1.22	850	4.43	192	7.8
12	French Rd	00550-31	Erie	1,329	21	2	642,942	4,177	1.11	484	3.14	154	6.1
13	Elkland	00625-63	Mansfield	869	4	1	593,963	899	1.02	684	1.03	661	0.8
14	Philipsburg	00164-22	Philipsburg	2,321	27	0	593,948	4,859	1.02	256	2.09	122	7.5
15	Lake Como	00788-65	Montrose	620	44	2	588,559	4,119	1.01	949	6.64	143	14.0
16	DuBois	00137-23	DuBois	2,852	68	0	587,125	6,347	1.01	206	2.23	93	3.1
17	Avery	00791-65	Montrose	351	13	2	544,317	1,043	0.94	1,551	2.97	522	6.3
18	Athens	00514-61	Sayre	778	22	0	543,596	928	0.93	699	1.19	586	0.5
19	Oxbow	00555-65	Tunkhannock	712	16	0	532,569	919	0.92	748	1.29	580	12.3
20	Erie East	00234-31	Erie	958	54	1	528,734	3,100	0.91	552	3.24	171	10.9
21	Philipsburg	00161-22	Philipsburg	771	23	0	498,973	1,515	0.86	647	1.96	329	3.4
22	Lake City	00429-34	Erie	713	12	0	494,558	1,412	0.85	694	1.98	350	0.0
23	Warren South	00220-41	Warren	2,959	64	0	476,339	3,517	0.82	161	1.19	135	5.7
24	Greenwood	00003-71	Altoona	1,564	12	1	456,587	1,966	0.79	292	1.26	232	5.2
25	Walnut Street	00520-31	Erie	1,774	15	0	455,027	9,596	0.78	256	5.41	47	4.4
26	Shawville	00151-21	Clearfield	2,337	37	1	453,880	9,661	0.78	194	4.13	47	14.2
27	Lowell Avenue	00518-31	Erie	976	19	2	447,838	2,681	0.77	459	2.75	167	42.2
28	Boyer	00583-31	Erie	1,568	34	1	418,351	3,601	0.72	267	2.30	116	3.5

Penelec													
Circuit Rank	Substation	Circuit Desc	District	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact (5)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
29	Clearfield	00148-21	Clearfield	1,692	60	0	417,224	4,768	0.72	247	2.82	88	28.0
30	Union City	00206-43	Corry	3,735	92	0	401,293	5,136	0.69	107	1.38	78	10.9
31	Alexandria	00097-82	Huntingdon	925	31	1	392,596	1,498	0.68	424	1.62	262	1.3
32	Tionesta Switching Station	00498-51	Oil City	1,135	28	0	392,323	2,362	0.67	346	2.08	166	9.7
33	Brady Street	00136-23	DuBois	673	6	0	390,991	2,577	0.67	581	3.83	152	0.0
34	Erie South	00259-31	Erie	2,554	52	0	378,221	3,951	0.65	148	1.55	96	5.7
35	Blairsville East	00080-13	Indiana	996	18	0	372,649	2,531	0.64	374	2.54	147	4.9
36	Roxbury	00138-83	Shippensburg	507	22	3	361,010	1,802	0.62	712	3.55	200	0.0
37	West Tunkhannock	00231-65	Tunkhannock	374	14	1	358,188	1,014	0.62	958	2.71	353	2.0
38	Port Allegany	00151-42	Bradford	500	19	1	357,606	1,262	0.61	715	2.52	283	1.4
39	Rolling Meadows	00310-31	Erie	3,081	16	1	354,385	7,017	0.61	115	2.28	51	16.5
40	Knox	00323-51	Oil City	1,326	23	0	322,762	2,371	0.56	243	1.79	136	15.5
41	Russell Hill	00282-65	Tunkhannock	1,058	34	0	319,111	643	0.55	302	0.61	496	20.9
42	Greenwood	00041-71	Altoona	1,238	31	0	310,999	1,573	0.53	251	1.27	198	6.2
43	Fairview East	00218-34	Erie	1,001	15	0	310,803	1,233	0.53	310	1.23	252	4.8
44	Glory	00105-13	Indiana	426	13	0	309,280	557	0.53	726	1.31	555	3.3
45	South Mansfield	00619-63	Mansfield	457	15	0	303,899	795	0.52	665	1.74	382	7.3
46	North Meshoppen	00437-65	Tunkhannock	456	24	0	303,419	726	0.52	665	1.59	418	7.7
47	Madera	00167-22	Philipsburg	1,637	36	1	302,125	3,518	0.52	185	2.15	86	8.0
48	Northeast	00592-31	Erie	1,547	44	0	295,653	1,500	0.51	191	0.97	197	3.8
49	Green Garden	00224-31	Erie	2,138	19	1	284,519	2,802	0.49	133	1.31	102	4.0
50	Mercer Pike	00474-52	Meadville	459	35	1	282,096	1,183	0.49	615	2.58	238	1.3
51	Fairview East	00216-34	Erie	570	6	0	274,230	638	0.47	481	1.12	430	1.0
52	Eagles Mere	00777-62	Towanda	520	26	1	272,350	746	0.47	524	1.43	365	3.0
53	Erie South	00312-31	Erie	1,429	26	0	271,389	3,649	0.47	190	2.55	74	5.0
54	N Meshoppen Tran	00530-65	Tunkhannock	548	22	1	261,195	1,855	0.45	477	3.39	141	41.2
55	Page Road	00445-43	Corry	563	43	0	255,314	2,295	0.44	453	4.08	111	3.9

Penelec													
Circuit Rank	Substation	Circuit Desc	District	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
56	Tunkhannock	00695-65	Tunkhannock	526	15	0	254,608	221	0.44	484	0.42	1152	3.0
57	Eagles Mere	00686-62	Towanda	312	25	1	254,116	833	0.44	814	2.67	305	5.2
58	Thomas Avenue	00212-61	Sayre	751	5	1	253,640	891	0.44	338	1.19	285	0.0
59	Mill Road	00588-31	Erie	1,459	7	1	253,385	1,686	0.44	174	1.16	150	3.2

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- (6) Impact of the distribution outages on this circuit to Penn Power's SAIDI.
- (7) Distribution circuit SAIDI, SAIFI, CAIDI and MAIFI 12-Month Rolling due to distribution outage causes.

Met-Ed													
Circuit Rank	Substation	Circuit Desc	District	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	Walker Sub	00865-3	STROUDSBURG	2,044	66	0	1,405,006	5,221	2.58	687	2.55	269	8.2
2	No Bangor	00826-3	EASTON	3,178	114	1	1,344,381	15,602	2.47	423	4.91	86	4.8
3	Yorkana Substation	00715-4	YORK	2,336	67	1	1,226,699	3,919	2.25	525	1.68	313	6.0
4	Newberry	00576-4	YORK	1,787	67	1	1,147,212	5,414	2.11	642	3.03	212	16.0
5	Yorkana	00708-4	YORK	2,672	63	1	1,041,055	5,188	1.91	390	1.94	201	1.0
6	19th and Cotton	00153-1	READING	1,590	12	1	1,013,128	2,719	1.86	637	1.71	373	1.0
7	Birdsboro	00756-1	READING	1,533	71	5	915,973	8,776	1.68	598	5.72	104	15.5
8	Windsor	00795-4	YORK	1,035	74	0	857,220	2,893	1.57	828	2.80	296	1.0
9	Shawnee	00895-3	STROUDSBURG	3,711	87	0	793,806	7,866	1.46	214	2.12	101	11.1
10	Barto	00706-1	BOYERTOWN	2,553	83	0	722,417	3,275	1.33	283	1.28	221	10.2
11	Pine Lane	00720-1	BOYERTOWN	1,070	34	4	707,210	4,507	1.30	661	4.21	157	13.0
12	Bridgeton Hill	00117-3	EASTON	297	12	2	681,653	754	1.25	2,295	2.54	904	1.0
13	Barto	00705-1	BOYERTOWN	2,086	85	1	648,854	4,131	1.19	311	1.98	157	9.0
14	S Nazareth	00809-3	EASTON	2,864	36	2	634,461	8,465	1.17	222	2.96	75	1.6
15	Dillsburg	00749-4	DILLSBURG	1,783	41	2	620,559	5,407	1.14	348	3.03	115	4.0
16	Pleasureville	00710-4	YORK	917	14	2	614,703	1,896	1.13	670	2.07	324	0.0
17	Shawnee	00860-3	STROUDSBURG	3,221	61	2	591,456	9,734	1.09	184	3.02	61	10.0
18	Shawnee	00837-3	STROUDSBURG	1,192	28	3	585,967	3,146	1.08	492	2.64	186	7.7
19	Mt Rose	00564-4	YORK	1,038	14	3	572,273	4,262	1.05	551	4.11	134	0.0
20	Newberry	00586-4	YORK	1,594	31	1	558,378	2,180	1.03	350	1.37	256	5.0
21	North Lebanon	00712-2	LEBANON	2,074	34	3	551,123	7,883	1.01	266	3.80	70	17.9
22	River View Sub	00793-1	READING	3,075	24	2	530,402	6,171	0.97	172	2.01	86	5.0
23	Ringing Rocks Sub	00708-1	BOYERTOWN	2,188	48	1	527,529	4,200	0.97	241	1.92	126	12.6
24	Pine Lane Sub	00713-1	BOYERTOWN	653	23	0	526,361	1,302	0.97	806	1.99	404	5.3
25	Shawnee	00822-3	STROUDSBURG	3,692	84	0	507,439	6,603	0.93	137	1.79	77	13.8
26	Hill	00736-4	YORK	1,064	22	2	506,185	2,406	0.93	476	2.26	210	3.0
27	Windsor	00797-4	YORK	1,538	82	0	492,951	2,209	0.91	321	1.44	223	6.0
28	Birchwood	00622-3	STROUDSBURG	1,838	43	2	468,982	5,380	0.86	255	2.93	87	8.1
29	Shawnee	00899-3	STROUDSBURG	1,784	44	2	466,020	3,006	0.86	261	1.68	155	5.0
30	Annville	00743-2	LEBANON	375	30	0	464,373	2,625	0.85	1,238	7.00	177	5.0

Met-Ed													
Circuit Rank	Substation	Circuit Desc	District	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
31	Campbelltown	00731-2	LEBANON	2,271	67	1	463,765	4,905	0.85	204	2.16	95	13.2
32	Mountain	00744-4	DILLSBURG	1,792	62	0	458,427	4,152	0.84	256	2.32	110	3.0
33	Bern Church	00789-1	READING	1,425	53	1	445,182	3,473	0.82	312	2.44	128	12.6
34	Gardners	00752-4	GETTYSBURG	1,323	52	1	432,212	3,464	0.79	327	2.62	125	3.0
35	Bernville	00787-1	HAMBURG	1,754	53	1	430,463	2,924	0.79	245	1.67	147	18.4
36	Dillsburg	00746-4	DILLSBURG	2,124	34	1	428,937	4,094	0.79	202	1.93	105	2.2
37	Taxville	00575-4	YORK	1,959	32	1	426,679	5,387	0.78	218	2.75	79	5.3

- (1) Average number of customers served by the circuit for the 12-month period.
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- (3) Number of circuit lockouts during the period.
- (4) Total customer minutes of outage during the period due to distribution outage causes.
- (5) Number of customer outages during the period due to distribution outage causes.
- (6) Impact of the distribution outages on this circuit to Penn Power's SAIDI.
- (7) Distribution circuit SAIDI, SAIFI, CAIDI and MAIFI 12-Month Rolling due to distribution outage causes.

ATTACHMENT B

Worst Performing Circuits – Remedial Action

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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.

<b>Penn Power</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
1	Hartstown	W-126	<b>The performance of this circuit was driven by three outages caused by a vehicle accident, a line failure and a non-preventable tree. Two of the three outages were downstream of a recloser and the third was downstream of the station breaker.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Engineering field review of the section of circuit served by a recloser. No additional work identified.	Complete	Oct-08	
			Engineering field review of the section of circuit served by a recloser. No additional work identified	Complete	Jul-09	
			Engineering field review of the section of circuit served by substation breaker. No additional work identified	Complete	May-09	
			Complete reliability work identified	Complete	Sep-09	
			A targeted engineering review was conducted on the circuit and a capital project was developed from the review aimed at improving the reliability of a portion of the circuit, which has been experiencing line and equipment failures, through the replacement of identified conductors and equipment.	To be completed in 2010		
			Forestry to trim circuit in 2010	To be completed in 2010		
2	Evans City	D611	<b>Performance driven by one outage caused by lightning and one outage caused by a vehicle accident.</b>			
			Equipment that was hit by lightning was replaced at time of restoration.	Complete	Aug-09	
			Equipment that was broken due to the vehicle accident was replaced at time of restoration	Complete	Oct-09	
3	Jackson	W730	<b>Performance driven by one outage caused by a non-preventable tree.</b>			
			Problem tree was removed at time of restoration	Complete	Dec-09	
4	Castlewood	D-326	<b>Performance driven by one outage caused by a vehicle accident near the substation.</b>			
			Broken equipment to be repaired	Complete	Sep-09	

Penn Power						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
5	Canal	W-104	Performance driven by one outage downstream of the substation.	Complete	Aug-09	4Q 2008
			Engineering field review of the section of circuit served by the substation.			1Q 2009
6	Mercer	W-167	Performance driven by one outage downstream of a recloser and one downstream of a fuse. The outages were caused by non-preventable trees.	Complete	Jul-09	2Q 2009
			Engineering field review of the section of circuit served by the recloser			3Q 2009
			Problem tree was removed at time of restoration			4Q 2009
7	Perry	W-156	Performance driven by one outage caused by a non-preventable tree.	Complete	Dec-09	1Q 2010
			Problem tree was removed at time of restoration			
8	Conneaut	W-173	Performance driven by one outage downstream of a recloser. The outage was caused by a non-preventable tree.	Complete	Oct-09	
			Complete reliability improvement work downstream of a recloser			
			Forestry to trim circuit in 2010			To be completed in 2010
9	Wengler Avenue	D-249	Performance driven by one outage downstream of the substation. The outage was caused by equipment failure.	Complete	Dec-09	
			Complete repairs identified from 2009 circuit inspection.			

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
1	Philipsburg	00162-22	<b>Performance was driven by non-preventable trees during minor storms, equipment failures, overload and car-pole accidents.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Performed mainline reliability inspection	Complete	Feb-09	
			Repaired damage from car-pole accident	Complete	Aug-09	
			Targeted Mainline Reliability Equipment Replacement	Complete	Sep-09	
			Repaired damage from minor storm	Complete	Oct-09	
			Repaired damage from minor storm	Complete	Dec-09	
2	Springboro	00237-52	<b>Performance was driven by non-preventable trees during a minor storm and car-pole accidents.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repaired damage to line during minor storm	Complete	Aug-09	
			Engineering review of full circuit coordination	Complete	Aug-09	
			Targeted mainline reliability equipment replacement	Complete	Nov-09	
			Repaired damage from car-pole accident	Complete	Jan-10	
			Review circuit for additional fault indicators	To be completed 2010		
3	Powell Ave	00237-31	<b>Performance was driven by equipment failure, and minor storm damage.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repaired equipment due to minor storm	Complete	Apr-09	
			Engineering review of full circuit coordination	Complete	Sep-09	
			Repaired non-preventable tree damage from minor storm	Complete	Oct-09	
			Engineering review of overload caused outages for corrective actions	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	
			Repair conditions found by previous reliability inspection	Complete	Feb-10	
			Review circuit for additional fault indicators	To be completed 2010		

Penelec							
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters	
4	Madera	00166-22	<b>Performance was driven by trees non-preventable during minor storm and equipment failures.</b>				4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Engineering review of equipment caused outages	Complete	Mar-09		
			Repair damage from minor storm	Complete	Jul-09		
			Targeted mainline reliability equipment replacement	Complete	Aug-09		
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10		
			Repair conditions found by previous reliability inspection	Complete	Feb-10		
			Review circuit for additional fault indicators	To be completed 2010			
5	Madera	00165-22	<b>Performance was driven by non-preventable tree damage during minor storms.</b>				
			Repaired damage from minor storm	Complete	May-09		
			Repaired damage from minor storm	Complete	Jul-09		
			Perform mainline reliability inspection	Complete	Nov-09		
			Repair conditions found by previous reliability inspection	To be completed 2010			
6	Powell Ave	00513-31	<b>Performance was driven by non-preventable trees during minor storm.</b>				
			Repair damage to line from minor storm	Complete	Oct-09		
			Targeted mainline reliability equipment replacement	Complete	Nov-09		
7	Grover	00527-63	<b>Performance was driven by non-preventable trees and damage during minor storms.</b>				2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repair damage from minor storm	Complete	Aug-09		
			Targeted Mainline Reliability Equipment Replacement	Complete	Aug-09		
			Repair damage from minor storm	Complete	Dec-09		

<b>Renelec</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
8	Curryville	00644-71	<b>Performance was driven by a car-pole accident and equipment failure.</b>			
			Repair damage from line failure	Complete	Apr-09	
			Repair damage from car-pole accident	Complete	Feb-10	
			Review circuit for additional fault indicators	To be completed 2010		
			Targeted mainline reliability equipment replacement	To be completed 2010		
9	Birmingham	00168-22	<b>Performance was driven by non-preventable trees during minor storm, animal contact and line failure.</b>			
			Engineering review of full circuit coordination	Complete	Sep-09	4Q 2008
			Repaired damage from minor storm	Complete	Oct-09	1Q 2009
			Field review animal prone outage areas for additional animal guards	Complete	Nov-09	2Q 2009
			Review circuit for additional fault indicators	To be completed 2010		3Q 2009
10	Tunkhannock	00533-65	<b>Performance was driven by non-preventable tree during minor storm, equipment failure and line failure.</b>			
			Full cycle tree clearing	Complete	Apr-09	4Q 2009
			Repair damage from minor storm	Complete	Jun-09	1Q 2009
			Targeted mainline reliability equipment replacement	Complete	Jun-09	2Q 2009
			Review circuit for additional fault indicators	To be completed 2010		3Q 2009
11	N Meshoppen Tran	00534-65	<b>Performance was driven by minor storm damage, animal contact and line failure.</b>			
			Repaired damage from minor storm	Complete	Jun-09	4Q 2009
			Repair damage due to animal contact	Complete	Jan-10	1Q 2010
			Repair damage due to line failure	Complete	Jan-10	2Q 2009

<b>Penelec</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
12	French Rd	00550-31	<b>Performance was driven by equipment failure during minor storm and animal contact.</b>			2Q 2009
			Repaired equipment due to minor storm	Complete	Dec-09	3Q 2009 4Q 2009 1Q 2010
13	Elkland	00625-63	<b>Performance was driven by non-preventable trees during a minor storm.</b>			
			Repaired conductor due to non-preventable tree during minor storm	Complete	Aug-09	
			Review circuit for additional fault indicators	To be completed 2010		
14	Philipsburg	00164-22	<b>Performance was driven by lightning and equipment failure during minor storm.</b>			
			Performed mainline reliability inspection	Complete	Mar-09	
			Repaired damage from lightning	Complete	Jun-09	
			Repaired equipment from minor storm damage	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	2Q 2009 3Q 2009
			Repair conditions found by previous reliability inspection	To be completed 2010		4Q 2009 1Q 2010
			Full cycle tree clearing	To be completed 2010		
Targeted mainline reliability equipment replacement	To be completed 2010					
15	Lake Como	00788-65	<b>Performance was driven by non-preventable trees during minor storm and equipment failure.</b>			4Q 2008 1Q 2009
			Full cycle tree clearing	Complete	Jul-09	2Q 2009
			Repaired damage from minor storm	Complete	Aug-09	3Q 2009
			Repair equipment failure	Complete	Mar-10	4Q 2009 1Q 2010

<b>Penelec</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
16	DuBois	00137-23	<b>Performance was driven by non-preventable trees during minor storm, line and equipment failure.</b>			4Q 2008
			Targeted mainline reliability equipment replacement	Complete	Sep-09	1Q 2009
			Engineering review of full circuit coordination	Complete	Sep-09	2Q 2009
			Repaired damage from minor storm	Complete	Oct-09	3Q 2009
			Perform mainline reliability inspection	Complete	Dec-09	4Q 2009
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	1Q 2010
17	Avery	00791-65	<b>Performance was driven by non-preventable trees during minor storm.</b>			
			Repair damage from minor storm	Complete	Jun-09	2Q 2009
			Full cycle tree clearing	To be completed 2010		3Q 2009
			Review circuit for additional fault indicators	To be completed 2010		4Q 2009
18	Athens	00514-61	<b>Performance was driven by non-preventable trees during minor storm and line failure.</b>			
			Targeted mainline reliability equipment replacement	Complete	Sep-09	1Q 2010
			Repair damage from minor storm	Complete	Dec-09	
19	Oxbow	00555-65	<b>Performance was driven non-preventable trees during minor storm.</b>			
			Repair damage from minor storm	Complete	Jun-09	2Q 2009
			Full cycle tree clearing	To be completed 2010		3Q 2009
			Review circuit for additional fault indicators	To be completed 2010		4Q 2009
20	Erie East	00234-31	<b>Performance was driven by non-preventable trees, line and equipment failure and equipment failure during minor storm.</b>			
			Full cycle tree clearing	Complete	Jun-09	1Q 2010
			Engineering review of full circuit coordination	Complete	Aug-09	2Q 2009
			Repaired equipment from minor storm damage	Complete	Dec-09	3Q 2009
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	4Q 2009
			Repair conditions found by previous reliability inspection	To be completed 2010		
			Review circuit for additional fault indicators	To be completed 2010		

<b>Penelec</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
21	Philipsburg	00161-22	<b>Performance was driven by non-preventable trees during minor storm and vehicle damage.</b>			
			Repair damage from minor storm	Complete	Dec-09	
			Repair line due to vehicle damage	Complete	Feb-10	
22	Lake City	00429-34	<b>Performance was driven by underground failure.</b>			2Q 2009
			Underground mapping changed to reflect field conditions to improve trouble shooting of future failures	Complete	Jun-09	3Q 2009 4Q 2009 1Q 2010
23	Warren South	00220-41	<b>Performance was driven by non-preventable tree damage during minor storm, equipment failure.</b>			4Q 2008
			Engineering review of full circuit coordination	Complete	May-09	1Q 2009
			Targeted mainline reliability equipment replacement	Complete	Oct-09	2Q 2009
			Repaired damage from minor storm	Complete	Oct-09	3Q 2009 4Q 2009 1Q 2010
24	Greenwood	00003-71	<b>Performance was driven by non-preventable trees during minor storm.</b>			
			Repair damage from minor storm	Complete	Oct-09	
			Review circuit for additional fault indicators	To be completed 2010		
25	Walnut Street	00520-31	<b>Performance was driven by line and equipment failure, unknown cause and human error-non company.</b>			4Q 2008
			Full cycle tree clearing	Complete	Aug-09	1Q 2009
			Engineering to review unknown outages for possible causes and corrective measures	Complete	Dec-09	2Q 2009
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	3Q 2009
			Repair Conditions found by previous reliability inspection	Complete	Feb-10	4Q 2009 1Q 2010

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
26	Shawville	00151-21	<b>Performance was driven by animal contact and unknown outages.</b>			
			Engineering to review unknown outages for possible causes and corrective measures	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	
			Full Cycle Tree Clearing	To be completed 2010		
27	Lowell Avenue	00518-31	<b>Performance was driven by damage from minor storms and equipment failure.</b>			
			Repair damage from minor storm	Complete	Apr-09	
			Repair damage from minor storm	Complete	Oct-09	
			Repair damage from minor storm	Complete	Dec-09	
28	Boyer	00583-31	<b>Performance was driven by non-preventable trees during a minor storm, equipment and line failure.</b>			
			Full cycle tree clearing	Complete	Dec-09	
			Repair damage from minor storm	Complete	Oct-09	
29	Clearfield	00148-21	<b>Performance was driven by line and equipment failure, unknown cause and animal contact.</b>			
			Engineering review of full circuit coordination	Complete	Oct-09	
			Perform mainline reliability inspection	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Jan-10	
			Repair Conditions found by previous reliability inspection	To be completed 2010		
Targeted Mainline Reliability Equipment Replacement	To be completed 2010					
30	Union City	00206-43	<b>Performance was driven by equipment failure, non-preventable trees, bird contact and damage during minor storms.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repaired damage from minor storm	Complete	May-09	
			Repaired damage from minor storm	Complete	Aug-09	
			Engineering review of full circuit coordination	Complete	Oct-09	
			Targeted Mainline Reliability Equipment Replacement	Complete	Nov-09	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
31	Alexandria	00097-82	<b>Performance was driven by non-preventable trees during minor storm and equipment failure.</b>			
			Repaired equipment damage	Complete	Oct-09	
			Review circuit for additional fault indicators	To be completed 2010		
			Targeted mainline reliability equipment replacement	To be completed 2010		
32	Tionesta Switching Station	00498-51	<b>Performance was driven by non-preventable trees during minor storms, a car-pole accident and equipment failure.</b>			1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repair damage from minor storm	Complete	May-09	
			Repair damage from car pole accident	Complete	May-09	
			Targeted mainline reliability equipment replacement	Complete	Aug-09	
			Engineering review of full circuit coordination	Complete	Sep-09	
			Review circuit for additional fault indicators	To be completed 2010		
33	Brady Street	00136-23	<b>Performance was driven by a car-pole accident.</b>			
			Repair damage from car-pole accident	Complete	Feb-10	
34	Erie South	00259-31	<b>Performance was driven by equipment and line failure, minor storm damage and human error-non company.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repaired damage to line during minor storm	Complete	Aug-09	
			Engineering review of full circuit coordination	Complete	Sep-09	
			Full cycle tree clearing	Complete	Sep-09	
			Targeted mainline reliability equipment replacement	Complete	Sep-09	
			Repair Conditions found by previous reliability inspection	To be completed 2010		
35	Blairsville East	00080-13	<b>Performance was driven by pole failure, equipment and line failure.</b>			
			Repair equipment damage	Complete	Jan-10	
			Targeted mainline reliability equipment replacement	To be completed 2010		
36	Roxbury	00138-83	<b>Performance was driven by equipment failure during snow event.</b>			
			Repair equipment failure	Complete	Feb-10	
			Full cycle tree clearing	To be completed 2010		

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
37	West Tunkhannock	00231-65	<b>Performance was driven by equipment failure, non-preventable trees and equipment failures during minor storms.</b>			2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repair damage from minor storm	Complete	Jun-09	
			Full cycle tree clearing	Complete	Nov-09	
			Repair damage from minor storm	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	
			Repair conditions found by previous reliability inspection	Complete	Feb-10	
Review circuit for additional fault indicators	To be completed 2010					
38	Port Allegany	00151-42	<b>Performance was driven by equipment and line failure.</b>			
			Repair line failure	Completed	Jan-10	
			Full cycle tree clearing	To be completed 2010		
39	Rolling Meadows	00310-31	<b>Performance was driven by line failure, equipment failure, and a car-pole accident.</b>			2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repaired minor storm damage	Complete	Apr-09	
40	Knox	00323-51	<b>Performance was driven by non-preventable trees, unknown outages, equipment failure during minor storms and line failure.</b>			
			Repaired damage from minor storm	Complete	May-09	
			Repaired damage from minor storm	Complete	Aug-09	
			Repaired damage from minor storm	Complete	Dec-09	
			Engineering to review unknown outages for possible causes and corrective measures	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	
Full cycle tree clearing	To be completed 2010					
41	Russell Hill	00282-65	<b>Performance was driven by non-preventable trees during minor storm, human error non-company and equipment failure.</b>			2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repaired damage from minor storm	Complete	Jun-09	
			Engineering review of full circuit coordination	Complete	Sep-09	
			Repair conditions found by previous reliability inspection	Complete	Feb-10	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
42	Greenwood	00041-71	Performance was driven by non-preventable trees during minor storm, a car-pole accident and line failure.			
			Repair damage during minor storm	Complete	Oct-09	
			Repair car-pole accident damage	Complete	Dec-09	
			Repair line failure	Complete	Jan-10	
43	Fairview East	00218-34	Performance was driven by equipment failure.			
			Repair damage from blown arrester	Complete	Dec-09	
44	Glory	00105-13	Performance was driven by minor storm damage.			2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Repair damage from minor storm	Complete	May-09	
			Review circuit for additional fault indicators	To be completed 2010		
45	South Mansfield	00619-63	Performance was driven by equipment damage during minor storm.			
			Repair equipment failure	Complete	Mar-10	
			Review circuit for additional fault indicators	To be completed 2010		
46	North Meshoppen	00437-65	Performance was driven by non-preventable tree during minor storm and equipment failure.			
			Repair damage from minor storm	Complete	Jun-09	
			Engineering review of overload caused outages for corrective actions	Complete	Dec-09	
			Review circuit for additional fault indicators	To be completed 2010		
47	Madera	00167-22	Performance was driven by line and equipment failure, non-preventable trees and equipment failure during minor storms.			
			Repair damage from minor storm	Complete	May-09	
			Repair damage from minor storm	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	
48	Northeast	00592-31	Performance was driven by non-preventable trees during minor storm, equipment failure and animal contact.			
			Repair damage from minor storm	Complete	Dec-09	
			Repair Conditions found by previous reliability inspection	To be completed 2010		

<b>Penelec</b>						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
49	Green Garden	00224-31	Performance was driven by equipment failure during minor storm. Repair damage from minor storm	Complete	Dec-09	
50	Mercer Pike	00474-52	Performance was driven by non-preventable trees during minor storms and unknown outages. Repair damage from minor storm Repair damage from minor storm Full cycle tree clearing Review circuit for additional fault indicators	Complete Complete To be completed 2010 To be completed 2010	Aug-09 Dec-09	
51	Fairview East	00216-34	Performance was driven by non-preventable tree damage during minor storm. Repair damage from minor storm	Complete	Oct-09	
52	Eagles Mere	00777-62	Performance was driven by non-preventable tree damage during minor storm. Repair damage from minor storm Review circuit for additional fault indicators	Complete To be completed 2010	Aug-09	
53	Erie South	00312-31	Performance was driven by car-pole accident, unknown cause, lightning and line failure. Repair damage from car-pole accident	Complete	Sep-09	
54	N Meshoppen Tran	00530-65	Performance was driven by equipment failure, non-preventable tree during minor storm and animal contact. Repair equipment failure Repair equipment failure due to animal contact Repair minor storm damage Repair UG equipment failure Targeted mainline reliability equipment replacement	Complete Complete Complete Complete To be completed 2010	Apr-09 May-09 Jun-09 Jan-10	

Penelec						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
55	Page Road	00445-43	Performance was driven by line and equipment failure, animal contact and minor storm damage.			2Q 2009
			Repair damage from line failure	Complete	Mar-09	3Q 2009
			Engineering review of full circuit coordination	Complete	Aug-09	4Q 2009
			Repaired damage from minor storm	Complete	Oct-09	1Q 2010
56	Tunkhannock	00695-65	Performance was driven by non-preventable trees during minor storm and equipment failure.			
			Full cycle tree trimming	Completed	Mar-09	
			Repair damage from minor storm	Completed	Jun-09	
57	Eagles Mere	00686-62	Performance was driven by non-preventable trees and equipment failure during minor storms, a car-pole accident and equipment failure.			
			Repair damage from minor storm	Complete	Aug-09	
			Repair damage from minor storm	Complete	Dec-09	
			Repair damage from car-pole accident	Complete	Dec-09	
			Review circuit for additional fault indicators	To be completed 2010		
58	Thomas Avenue	00212-61	Performance was driven equipment failure during minor storms, and equipment failure.			
			Repair equipment failure during minor storm	Complete	Aug-09	
			Repair equipment failure	Complete	Aug-09	
			Review circuit for additional fault indicators	To be completed 2010		
59	Mill Road	00588-31	Performance was driven by unknown cause during minor storm.			
			Full cycle tree clearing	To be completed 2010		
			Review circuit for additional fault indicators	To be completed 2010		
	Shawville	00153-21	Performance was driven by car-pole accident, equipment and line failure, non-preventable trees and minor storm.			
			Repair damage from car-pole accident	Complete	Mar-09	1Q 2009
			Repair damage from car-pole accident	Complete	May-09	2Q 2009
			Engineering review of full circuit coordination	Complete	Sep-09	3Q 2009
			Target mainline reliability equipment replacement	Complete	Sep-09	4Q 2009
			Repair damage from minor storm	Complete	Dec-09	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Feb-10	
Repair conditions found by previous reliability inspection	To be completed 2010					

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	Walker	00865-3	Performance was driven by single storm and access/traffic issues.			4Q 2008
			Review additional mainline tap fusing	Complete	Feb-09	1Q 2009
			Study circuit configuration	Complete	Aug-09	2Q 2009
			Study primary customer tap fusing	Complete	Aug-09	3Q 2009
			Perform accelerated three phase and backbone assessment	Complete	Jan-10	4Q 2009
2	No Bangor	00826-3	Performance was driven by non-preventable trees and vehicle related outages.			1Q 2010
			Overloaded fuses replacement	Complete	Feb-09	2Q 2009
			Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010		3Q 2009
3	Yorkana	00715-4	Performance was driven by non-preventable tree caused outages (92% of minutes).			4Q 2008
			2009 vegetation management - condition based	Complete	Feb-09	3Q 2009
			Repair critical items identified from comprehensive circuit patrol	Complete	Sep-09	4Q 2009
			Install 5 additional sectionalizing switches	Complete	Nov-09	1Q 2010
			Repair critical items identified from backbone assessment	Complete	Dec-09	
			Perform removal of danger trees	Complete	Dec-09	
			Install additional fuses to protect the circuit backbone	Complete	Dec-09	
			Perform danger tree removal on the tree problem areas of the circuit	Complete	Dec-09	
			Installed additional fault indicators	Complete	Dec-09	
Install three radio controlled switches with fault indicators	To be completed in 2010					
4	Newberry	00576-4	Performance was driven by non-preventable tree caused outages (88% of minutes).			1Q 2009
			Perform accelerated circuit three phase backbone assessment	Complete	Feb-09	2Q 2009
			Perform accelerated circuit main three phase assessment	Complete	Feb-09	3Q 2009
			Perform tree patrol on the tree problem areas of the circuit	Complete	Apr-09	4Q 2009
			Perform line patrol of high line failure area of the circuit	Complete	Dec-09	1Q 2010
			Repair critical items identified from the backbone assessment	Complete	Dec-09	
Forestry to perform on cycle comprehensive circuit tree trimming	Complete	Mar-10				

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	Yorkana	00708-4	Performance was driven by a wind storm which were non-preventable tree caused outages (69% of minutes).			4Q 2008 1Q 2009 2Q 2009 3Q 2009
			Crossarm and arrestor repairs	Complete	Jul-09	
			Comprehensive tree trimming	Complete	Mar-09	
			Perform accelerated circuit three phase backbone assessment after wind storm	Complete	Feb-10	
			Installed additional fault indicators	Completed	Dec-09	
Repair critical items identified from backbone assessment after wind storm	To be completed in 2010					
6	19th and Cotton	00153-1	Performance was driven by switch (cutout) equipment failure.			
			Perform accelerated three phase and backbone assessment	Complete	Dec-09	
			Replace Switch T1-156 w/ 600 A Disc.	Complete	Jan-10	
			Replace Switch T3-153 w/ 600 A Disc.	Complete	Jan-10	
			Replace Switch 15336 w/ 600 A Disc.	Complete	Jan-10	
			Replace Switch T1-153 w/ 600 A Disc.	Complete	Jan-10	
			Replace Switches 13629 & 13659 w/ 600 A Disc.	Complete	Jan-10	
Install Fuse Bypass Switch	To be completed in 2010					
7	Birdsboro	00756-1	Performance was driven by trees non-preventable (48%), unidentified causes during high wind conditions (24%) and a forced outage due to a car-pole accident (16%).			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Crossarm and Guy Wire Repairs	Complete	May-09	
			Perform Fault Current Indicator Installation Engineering Study	Complete	Oct-09	
			Install Fault Current Indicators at six locations	Complete	Dec-09	
			Perform backbone assessment	Complete	Mar-10	
			Perform three phase assessment	Complete	Mar-10	
			Forestry to perform on cycle comprehensive circuit Tree Trimming	To be completed in 2010		

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
8	Windsor	00795-4	Performance was driven by two storm events (82% of minutes). 68% of the storm minutes were a broken pole caused outage.			
			Perform accelerated circuit three phase assessment	Complete	Jan-09	
			2009 vegetation management - condition based	Complete	Mar-09	
			Perform accelerated circuit three phase backbone assessment	Complete	Oct-09	
			Install additional fuses to protect the circuit backbone	Complete	Dec-09	
			Perform accelerated circuit three phase backbone assessment after wind storm	To be completed in 2010		
Investigate additional fault indicators	To be completed in 2010					
9	Shawnee	00895-3	Performance was driven by lightning, car pole accidents and non-preventable tree-related outages.			4Q 2008
			Repair critical items identified from backbone assessment & circuit patrol	Complete	Mar-09	1Q 2009
			Install radio control communication equipment on existing automation	Complete	Aug-09	2Q 2009
			Mainline backbone protection (lateral fusing)	Complete	Nov-09	3Q 2009
			Perform accelerated three phase and backbone assessment	Complete	Jan-10	4Q 2009
			Install fault indicators	Complete	Apr-10	1Q 2010
10	Barto	00706-1	Performance was driven by trees non-preventable (69%) and a forced outage due to a car-pole accident (17%).			
			Comprehensive tree trimming	Completed	Mar-09	
			Install main-line tap fuses	Completed	Jun-09	
			Crossarm, insulator and arrester repairs	Completed	Feb-10	
			Perform accelerated backbone assessment	Completed	Mar-10	
			Perform accelerated three phase assessment	Completed	Mar-10	
			Perform fault current indicator installation engineering study	Completed	Mar-10	
			Install fault current indicators at ten locations	To be completed in 2010		

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
11	Pine Lane	00720-1	Performance was driven by single minor storm (51%).			2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Arrester repair	Completed	Jun-09	
			Install main-line tap fuses	Completed	Jun-09	
			Perform fault current indicator installation engineering study	Completed	Oct-09	
			Install fault current indicators at ten locations	Completed	Dec-09	
			Perform accelerated backbone assessment	Completed	Mar-10	
			Perform accelerated three phase assessment	Completed	Mar-10	
			Install Recloser	To be completed in 2010		
Comprehensive tree trimming	To be completed in 2011					
12	Bridgeton Hill	00117-3	Performance was driven by single storm and tree-related outages.			
			Perform accelerated three phase and backbone assessment	Complete	Jul-09	
			Comprehensive tree trimming	Complete	Dec-09	
13	Barto	00705-1	Performance was driven by trees non-preventable (75%) primarily during two small storms (February 10-11, 2010 and March 13-14, 2010).			
			Comprehensive tree trimming	Completed	Mar-09	
			Crossarm brace repair	Completed	Mar-09	
			Install mainline tap fuses	Completed	Jul-09	
			Perform accelerated backbone assessment	Completed	Mar-10	
			Perform accelerated three phase assessment	Completed	Mar-10	
			Perform fault current indicator installation engineering study	Completed	Mar-10	
Install fault current indicators at seven locations	To be completed in 2010					
14	S Nazareth	00809-3	Performance was driven by non-preventable trees, line failure and equipment failure.			4Q 2008
			Mainline enhanced tree clearing	Complete	Feb-09	1Q 2009
			Install fault indicators	Complete	Jun-09	2Q 2009
			Install fused bypass	Complete	Jul-09	3Q 2009
						4Q 2009
						1Q 2010

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
15	Dillsburg	00749-4	<b>Performance was driven by trees as cause at 92% of minutes, 59% of minutes from the October 7, 2009 tree on mainline incident.</b>			4Q 2008 1Q 2009 2Q 2009 4Q 2009 1Q 2010
			Perform accelerated circuit reliability assessment of three phase	Complete	Feb-09	
			Perform accelerated circuit reliability assessment of mainline	Complete	May-09	
			Repaired one Priority 1 finding on mainline	Complete	May-09	
			Installed additional fusing or re-coordinated fusing at 3 locations	Complete	Sep-09	
			Upgrade recloser one location	Complete	Sep-09	
			Replaced 2 poles 1 crossarm 7 insulators and 5 other items identified during patrols	Complete	Sep-09	
Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010					
16	Pleasureville	00710-4	<b>Performance was driven by non-preventable tree cause outages (88% of minutes) during a wind storm.</b>			
			Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010		
17	Shawnee	00860-3	<b>Performance was driven by insulator equipment failure (59%) and failed CLFs (21%).</b>			
			Comprehensive tree trimming	Complete	Jul-09	
			Perform accelerated three phase assessment	Complete	Jan-10	
			Repair items identified from three phase assessment	Complete	Feb-10	
			Install radio control communication equipment on sectionalizer	To be completed in 2010		
Perform fuse and coordination study	To be completed in 2010					
18	Shawnee	00837-3	<b>Performance was driven by tree contacts and equipment failure related outages.</b>			1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Forestry patrol of lockout zone	Complete	Jul-09	
			Repair critical items identified from backbone assessment & circuit patrol	Complete	Apr-09	
			Install radio control communication equipment and automation	Complete	Dec-09	
Perform accelerated three phase and backbone assessment	Complete	Jan-10				
19	Mt Rose	00564-4	<b>Performance was driven by non-preventable tree caused outages (84% of minutes).</b>			
			Perform tree patrol on the tree problem areas of the circuit	Complete	Apr-09	
			Repair critical items identified from the backbone assessment	Complete	Jul-09	
			Forestry perform off cycle patrol and trim/remove any required trees	Complete	Oct-09	
			Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010		
			Install additional fuse to protect the circuit backbone	To be completed in 2010		
			Install addition main line switch for additional sectionalizing capability to the circuit	To be completed in 2010		
Install an additional main line recloser	To be completed in 2010					

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
20	Newberry	00586-4	Performance was driven by an vehicle caused outage during a wind storm (73% of minutes).			
			Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010		
21	North Lebanon	00712-2	Performance was driven by a tree-caused outage, an equipment problem (splice), a company tree contractor contacting mainline conductors, a squirrel contact at a mainline recloser and a vehicle accident.			4Q 2008
			Install animal protection mainline recloser	Complete	Feb-09	1Q 2009
			Replace lightning arrestors	Complete	Jun-09	2Q 2009
			Install additional mainline switch	Complete	Jul-09	3Q 2009
			Comprehensive tree trimming	Complete	Nov-09	4Q 2009
			Reconfigure circuit/minimize exposure	To be completed in 2010		1Q 2010
22	River View Sub	00793-1	Performance was driven by (2) equipment failures (crossarm, cutout) and (1) animal outage.			4Q 2008
			Comprehensive tree trimming	Complete	Jun-09	1Q 2009
			Install fault indicators at two existing switch locations	Complete	Jun-09	2Q 2009
			Pole repair/replace	Complete	Dec-09	3Q 2009
			Additional fusing	Complete	Dec-09	4Q 2009
			Perform circuit three phase backbone assessment	Complete	Mar-10	1Q 2010
			Two new mainline switch installations w/ fault indicators	To be completed in 2010		
23	Ringing Rocks	00708-1	Performance was driven by company human error during tree trimming and trees non-preventable.			2Q 2009
			Crossarm and arrestor repairs	Completed	Jul-09	3Q 2009
			Comprehensive tree trimming	Completed	Jul-09	4Q 2009
			Perform accelerated backbone assessment.	Completed	Mar-10	1Q 2010
			Perform accelerated three phase assessment.	Completed	Mar-10	
24	Pine Lane	00713-1	Performance was driven by single minor storm (81%).			2Q 2009
			Install mainline tap fuses	Completed	Jun-09	3Q 2009
			Perform fault current indicator installation engineering study	Completed	Oct-09	4Q 2009
			Install fault current indicators at ten locations	Completed	Dec-09	1Q 2010
			Perform accelerated backbone assessment	Completed	Mar-10	
			Perform accelerated three phase assessment	Completed	Mar-10	
Comprehensive tree trimming	To be completed in 2011					

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
25	Shawnee	00822-3	Performance was driven by ice and equipment failure.			4Q 2008
			Install SCADA and radio controls	Complete	Feb-09	1Q 2009
			Repair critical items identified from backbone assessment and circuit patrol	Complete	Sep-09	2Q 2009
			Install fault indicators	To be completed in 2010		3Q 2009
26	Hill	00736-4	Performance was driven by two wind storm events (94% of minutes). 100% of the storm minutes were caused by broken poles.			4Q 2009
			Inspect remaining poles in lock out zone	To be completed in 2010		1Q 2010
27	Windsor	00797-4	Performance was driven by wind storm event (61% of minutes). 72% of the storm minutes were non-preventable tree caused outages.			
			Perform accelerated circuit three phase assessment	Complete	Jan-09	
			Forestry to perform on cycle comprehensive circuit tree trim in 2009	Complete	Mar-09	
			Installed additional fault indicators	Complete	Nov-09	
			Perform accelerated circuit three phase assessment after wind storm	Complete	Feb-10	
			Perform accelerated circuit three phase backbone assessment after wind storm	Complete	Feb-10	
			Repair critical items identified from accelerated circuit three phase and backbone	Complete	Feb-10	
Install additional fuses to protect the circuit main three phase	To be completed in 2010					
28	Birchwood	00622-3	Performance was driven by non-preventable trees, animal contact and wind related outages.			4Q 2008
			Study Further Backbone Protection	Complete	Aug-09	1Q 2009
			Perform accelerated three phase and backbone assessment	Complete	Mar-10	2Q 2009
29	Shawnee	00899-3	Performance was driven by non-preventable trees, equipment and line failure related outages.			3Q 2009
			Routine tree maintenance	Complete	Mar-09	4Q 2009
			Study additional backbone protection	Complete	Nov-09	1Q 2010
			PM/CM items repair	Complete	Dec-09	
30	Annville	00743-2	Performance was primarily driven by tree caused outages and cutout failures.			
			Forestry Patrol of Backbone and all of Three-Phase along Lancaster Ave	To be completed in 2010		
			Perform Accelerated Circuit Reliability Assessment	To be completed in 2010		

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	Mountain	00744-4	Performance was driven by trees as cause of 61% of circuit minutes and related equipment issues accounting for 30% of minutes. At least 44% of circuit minutes were directly attributable to trees in the radially served Pine Grove Rd - Michaux State Forest area.			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Perform accelerated circuit reliability assessment including Pine Grove Rd	Complete	Feb-09	
			Install digital recording ammeters on Pine Grove Road and study winter loading	Complete	Mar-09	
			Installed three phase fault indicators 2 locations	Complete	Mar-09	
			Forestry patrol Pine Grove Road	Complete	Apr-09	
			Forestry off cycle trim Pine Grove Rd & State Forest area, removed 11 trees and spot trimmed multiple locations	Complete	Apr-09	
			Replaced 5 poles, 10 crossarms, and 6 other items found during patrol	Complete	Jun-09	
			Engineering study to install additional fault indicators	Complete	Oct-09	
			Install fault indicators 12 locations	Complete	Nov-09	
			Forestry to perform on cycle comprehensive circuit tree trimming	Complete	Mar-10	
			Perform accelerated circuit reliability assessment of mainline - No Priority 1 findings	Complete	Mar-10	
			Perform accelerated circuit reliability assessment of three phase - No Priority 1 findings	Complete	Mar-10	
			Replaced 2 poles and 2 insulators identified on patrol (ytd)	Complete	Mar-10	
32	Campbelltown	00731-2	Performance was driven by UG cable issues along Gentry Drive which accounted for 37% of the customer minutes and tree related outages account for 59% of the minutes.			
			Forestry to perform mid-cycle assessment of three phase backbone	Complete	Dec-09	
			Replace UG cable along Gentry Drive	Complete	Jan-10	
			Forestry to perform mid-cycle assessment of remaining three phase	To be completed in 2010		
33	Bern Church	00789-1	Performance was driven by car-pole accident and five tree caused outages.			
			Perform accelerated three phase and backbone assessment	Complete	Apr-09	
			UG Cable Replacement Sunny Slopes	Complete	Aug-09	
			Install overhead fault indicators at two locations	Complete	Mar-10	
			Guy wire repairs at three locations	To be completed 2010		
Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010					
34	Gardners	00752-4	Performance was driven by vehicle contacts (13) as cause at 65% of circuit minutes and trees at 26% of minutes. 19% of minutes from tree trouble during the Jan 7, 2009 ice storm and 25% of minutes from one vehicle contact on Feb 3, 2009.			1Q 2009 2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Perform mainline forestry patrol as follow-up to 1/7/09 ice storm	Complete	Jan-09	
			Perform hot spot pine tree removals on mainline near Gardners sub	Complete	Jan-09	
			Perform accelerated circuit reliability assessment of three phase	Complete	Apr-09	
			Perform accelerated circuit reliability assessment of mainline	Complete	Sep-09	
			Forestry to perform on cycle comprehensive circuit tree trimming in 2011, evaluating for spot trimming in 2010	To be completed in 2011		

Met-Ed						
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters
35	Bernville	00787-1	Performance was driven by (4) large tree problems and insulator problem which caused a forced outage of the circuit.			
			Replace lightning arresters four locations	Complete	June -09	
			Pole Replacement 1 loc	Complete	June -09	
			Replaced crossarms - 4 locations	Complete	June -09	
			Installed three fuses to prevent circuit lockout	Complete	May-09	
			Install fault indicators (5 underground locations)	Complete	Sept-09	
			Install fault indicators (10 mainline locations)	Complete	Dec-09	
			Comprehensive tree trimming	Complete	Dec-09	
Perform accelerated three phase and backbone assessment	Complete	Mar-10				
36	Dillsburg	00746-4	Performance was driven by tree as cause at 84% of minutes. 40% of minutes from the 10/7/09 tree incident.			
			Replace 1 pole found during line patrol	Complete	Jan-09	
			Installed 3 phase fault locators one location	Complete	Jan-09	
			Replace 2 crossarms, 3 bell insulators, 3 cutouts, and 1 misc item found during patrol	Complete	May-09	
			Perform accelerated circuit reliability assessment of mainline	Complete	Oct-09	
			Perform accelerated circuit reliability assessment of three phase	Complete	Dec-09	
			Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2010		
37	Taxville	00575-4	Performance was driven by vehicle contact caused outages (51% of minutes) and with one vehicle caused outage accounting for 57% of those minutes and by line failure outages (44% of minutes).			2Q 2009 3Q 2009 4Q 2009 1Q 2010
			Install additional fuses to protect the circuit main three phase	Complete	Mar-09	
			Perform accelerated circuit three phase backbone assessment	Complete	Mar-09	
			Perform accelerated circuit main three phase assessment	Complete	May-09	
			Repair critical items identified from backbone assessment	Complete	Jun-09	
			Forestry to perform on cycle comprehensive circuit tree trimming	Complete	Oct-09	
			Perform accelerated three phase and backbone assessment	Complete	Feb-10	

<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
	Fox Hill	00816-3	<b>Performance was driven by overload, non-preventable tree and equipment related outages.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009
			Install 3ph electronic recloser @ Chipperfield Dr	Complete	Sep-08	
			Routine Tree Maintenance in 2008	Complete	Sep-08	
			UG backbone Fault locators	Complete	Sep-08	
			Perform accelerated three phase and backbone assessment, repair items	Complete	Oct-08	
			Circuit Automation (Radio controlled equipment)	Complete	Jun-09	
			Study Additional Backbone Protection	Complete	Aug-09	
	Bath	00873-3	<b>Performance was driven by vehicle accidents, non-preventable trees and equipment failure.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009 4Q 2009
			Study Downtown Bath Sectionalization	Complete	Jul-09	
			Study Bath Substation Automation	Complete	Jul-09	
			Forestry to perform on cycle comprehensive circuit Tree Trimming	Complete	Mar-10	
	Birchwood	00624-3	<b>Performance was driven by non-preventable trees and vehicle related outages</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009
			Replace overloaded fuses	Complete	Aug-08	
			Install animal guards on Reclosers	Complete	Aug-08	
			Install animal guards on 3 Reclosers	Complete	Sep-08	
			Performed CRC maintenance inspections & repair	Complete	Oct-08	
			Tap Changes, overloaded fuses	Complete	Mar-09	
			Primary Customer Tap Fusing	Complete	Mar-09	
	Main Line Back Bone protection (lateral fusing)	Complete	Nov-09			
	Northwood	00821-3	<b>Performance was driven by single equipment failure event.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009
			Install Lightning arrestors	Complete	Oct-08	
			Perform backbone assessment	Complete	Apr-09	
			Upgrade Fuse Links	Complete	Apr-09	
	Rosedale	00155-1	<b>Performance driven by a tree-caused and vehicle outages.</b>			4Q 2008 1Q 2009 2Q 2009 3Q 2009
			Crossarm Replacement	Complete	Aug-08	
			Install Additional Fusing	Complete	Dec-09	

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 1<sup>st</sup> Quarter 2010 Reliability Report** :  
**Public Version – Pennsylvania Power** :  
**Company, Pennsylvania Electric Company** :  
**and Metropolitan Edison Company -** :  
**Pursuant to 52 Pa. Code § 57.195(d) and (e)** :

**CERTIFICATE OF SERVICE**

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

Service by overnight United Parcel Service, as follows:

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

Service by overnight United Parcel Service and by electronic mail, as follows:

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Dated: April 30, 2010



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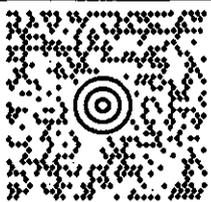
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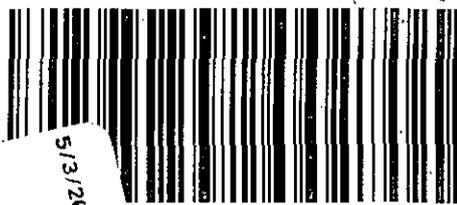
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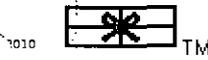
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