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2800 Pottsville Pike P.O. Box 16001 Reading, PA 19612-6001

610-929-3601

May 1, 2012

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MAY - 1 2012

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

PA PUBLIC UTILITY COMMISSION SECHETARY'S SUREAU

Re: Joint 1<sup>st</sup> Quarter 2012 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 seven (7) copies of their Joint 1<sup>st</sup> Quarter 2012 Reliability Report - Public Version ("Joint Report"), pursuant to 52 Pa. Code § 57.195(d) and (e). Please date-stamp and return the additional copy in the enclosed postage-paid, addressed envelope for our files. A copy of this Joint Report is also being copied to the Office of Consumer Advocate and the Office of Small Business Advocate.

In 2012, the Companies modified their method of ranking worst performing circuits. The modified method will continue to focus on circuits that will improve the overall reliability to customers but will also take into account the number of outages the circuits experience. A detailed explanation can be found under Section 57.195(e)(3).

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 Joint Report is being filed under separate cover.

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

Sincerely,

Jour Don

Douglas S. Elliott President, Pennsylvania Operations (610) 921-6060 elliottd@firstenergycorp.com

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Eric J. Dickson Director, Operations Services (330) 384-5970 dicksone@firstenergycorp.com

# **PUBLIC VERSION**



# RECEIVED MAY - 1 2012 PA PUBLIC UTILITY COMMISSION SECRETARY'S SUREAU Joint 2012 1<sup>st</sup> Quarter Reliability Report Pennsylvenie Power Compeny, Pennsylvania Electric Company and Metropoliten Edison Company-Pursuant to 52 Pa. Code § 57.195(d) and (9)

# Joint 1<sup>st</sup> Quarter 2012 Reliability Report – Pennsylvania Power Company, Pennsylvania Electric Company and Metropolitan Edison Company

<u>Section 57.195(e)(1):</u> 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 any major events during the reporting period ending March 31, 2012.

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## MAY = 1 2012

PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

<sup>&</sup>lt;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.

<u>Section 57.195(e)(2)</u>: 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.

10 2012		enn Powe			Penelec #			∉Met-Ed	
(12-Mo Rolling)	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	1.06	1.26	1.52	1.30	1.15	1.38	1.16
CAIDI	101	121	135 <sup>2</sup>	117	141	174 <sup>3</sup>	117	140	117
SAIDI	113	162	143	148	213	226 <sup>3</sup>	135	194	136
Customers Served <sup>4</sup>		158,640			585,618			546,261	
Number of Sustained Interruptions		3,599			12,513			81,353	
Customers Affected		168,067			762,198	_		633,877	
Customer Minutes		22,641,523		1	32,450,266			74,008,290	

#### Reliability Index Values

<sup>&</sup>lt;sup>2</sup> Penn Power's higher-than-normal CAIDI is directly attributed to several non-excludable storm events as well as a substation vandalism incident. The substation vandalism resulted in a thirty-one minute CAIDI impact.

<sup>&</sup>lt;sup>3</sup> Penelec's higher-than-normal CAIDI and SAIDI are directly attributed to the non-excludable event, Hurricane Irene which occurred in August 2011. This event resulted in a forty-five minute CAIDI and seventy-four minute SAIDI impact.

<sup>&</sup>lt;sup>4</sup> Represents the average number of customers served during the reporting period.

<u>Section 57.195(e)(3)</u>: 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

In 2012, the Companies modified their worst performing circuit methodology. This modification now takes into account the number of customer outages on a circuit. This allows the method to be more stable and more accurately describe circuit performance.

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.

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

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

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Worst Performing Circuits – Remedial Action

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

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<u>Section 57.195(e)(5):</u> 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

	Outages by Cause											
1st Quarter 2012 12-Month Rolling		Penn F	ower									
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages								
LIGHTNING	3,882,050	866	29,569	24.06%								
TREES/NOT PREVENTABLE	7,472,849	750	41,580	20.84%								
ANIMAL	1,144,804	445	15,064	12.36%								
EQUIPMENT FAILURE	2,331,800	355	33,701	9.86%								
LINE FAILURE	2,589,576	341	15591	9.47%								
BIRD	291,596	287	4,010	7.97%								
UNKNOWN	487,407	95	5285	2.64%								
OVERLOAD	289,553	95	2,553	2.64%								
PREVIOUS LIGHTNING	62,660	91	640	2.53%								
VEHICLE	768,146	83	6,539	2.31%								
FORCED OUTAGE	143,231	64	4,498	1.78%								
HUMAN ERROR -NON-COMPANY	172,099	34	2,752	0.94%								
TREES/PREVENTABLE	62,063	29	375	0.81%								
HUMAN ERROR - COMPANY	50,821	15	665	0.42%								
OBJECT CONTACT WITH LINE	19,823	12	181	0.33%								
CUSTOMER EQUIPMENT	1,884	10	30	0.28%								
UG DIG-UP	7,097	- 7	40	0.19%								
VANDALISM	2,818,883	6	4,345	0.17%								
Trees/Not Preventable	19,399	6	85	0.17%								
FIRE	12,171	3	468	0.08%								
CALL ERROR	11,088	1	84	0.03%								
OTHER UTILITY-NON ELEC	1,050	1	6	0.03%								
OTHER ELECTRIC UTILITY	872	1	4	0.03%								
CONTAMINATION	58	1	1	0.03%								
WIND	543	1	1	0.03%								
TOTAL	22,641,523	3,599	168,067	100.00%								

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#### 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 line 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 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.

#### <u>Animal</u>

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, Penn Power installs animal guards on new overhead transformers.

## Outages by Cause - Penelec

	≩.,Outaged by	Cause	Park And The	
1st Quarter 2012		Pene	lec	
12-Month Rolling				-
	Customer	Number of	Customers	% Based on
Cause	Minutes	Sustained	Affected	Number of
		Interruptions		Outages
EQUIPMENT FAILURE	33,413,565	3,635	256,453	29.05%
TREES/NOT PREVENTABLE	55570642	2,022	135200	16.16%
UNKNOWN	9,900,545	1,884	82,671	15.06%
ANIMAL	1,437,535	1,086	16,764	8.68%
LINE FAILURE	14,160,226	1,025	120,974	8.19%
LIGHTNING	3,700,811	689	39,538	5.51%
FORCED OUTAGE	2,878,578	648	31,391	5.18%
VEHICLE	5,623,246	384	35590	3.07%
BIRD	372,317	278	4,790	2.22%
OVERLOAD	1,562,145	195	12,165	1.56%
HUMAN ERROR - COMPANY	72,825	144	2,603	1.15%
HUMAN ERROR -NON-COMPANY	1,016,724	103	9208	0.82%
OTHER ELECTRIC UTILITY	831,510	91	2,005	0.73%
PREVIOUS LIGHTNING	69,249	67	1,657	0.54%
UG DIG-UP	117,064	67	621	0.54%
ICE	609,793	51	1,559	0.41%
TREES/PREVENTABLE	85,515	41	649	0.33%
OBJECT CONTACT WITH LINE	337,050	36	2,387	0.29%
CUSTOMER EQUIPMENT	109,772	21	2,509	0.17%
FIRE	117,267	17	297	0.14%
VANDALISM	357,162	14	1,990	0.11%
OTHER UTILITY-NON ELEC	105,364	9	1,172	0.07%
CONTAMINATION	1,361	5	5	0.04%
CALL ERROR	0	1	0	0.01%
Tôtal	132,450,266	12,513	762,198	100%

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#### 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 has been replacing porcelain cutouts with polymer cutouts on the main feed-three phase backbone of circuits since 2009.

In addition, inspection and maintenance practices, such as overhead circuit inspections, identify and correct potential equipment-related problems before they cause an outage. Penelec's entire main feed three-phase backbone system has been inspected at least once since 2008 and is currently on a five-year cycle of inspections. 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.

#### 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 the Company's normal tree trimming maintenance program.

#### <u>Unknown</u>

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

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	: Outage by	Cause		
1st Quarter 2012 12-Month Rolling		Med	-Ed	
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Number of Outages
EQUIPMENT FAILURE	14,570,677	2,255	136,947	27.00%
TREES/NOT PREVENTABLE	24,527,849	1,614	150,683	19.32%
ANIMAL	2,918,567	1,005	33,281	12.03%
UNKNOWN	4,182,911	873	60,617	10.45%
LIGHTNING	4,479,931	623	39,172	7,46%
LINE FAILURE	6,663,153	602	35,978	7.21%
FORCED OUTAGE	2,350,241	345	51,968	4.13%
VEHICLE	7,463,796	292	63,562	3.50%
BIRD	252,561	189	2,286	2.26%
TREES/PREVENTABLE	998,350	173	5,794	2.07%
HUMAN ERROR -NON-COMPANY	445,693	89	5,251	1.07%
OVERLOAD	454,717	58	5,262	0.69%
WIND	3,412,334	54	19,345	0.65%
PREVIOUS LIGHTNING	39,000	51	222	0.61%
HUMAN ERROR - COMPANY	195,396	34	10,581	0.41%
UG DIG-UP	152,161	27	2,058	0.32%
OBJECT CONTACT WITH LINE	457,047	24	4,958	0.29%
CUSTOMER EQUIPMENT	53,235	15	1,665	0.18%
VANDALISM	353,096	14	3,646	0.17%
FIRE	29,977	8	565	0.10%
OTHER ELECTRIC UTILITY	2,168	4	12	0.05%
OTHER UTILITY-NON ELEC	4,060	2	20	0.02%
CONTAMINATION	1,370	2	4	0.02%
TOTAL	74,008,290	8,353	633,877	100%

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#### 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.

#### 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 the Engineering Department 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.

#### <u>Animal</u>

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. <u>Section 57.195(e)(6):</u> 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

Increation	and Maintonanco	Pei	in Powe			<b>Penelec</b>	Sale -	Selfiel &	Met-Ed	<b>不</b> 把131
inspection a	2012	Planned	Com	pleted	Planned	Com	pleted	Plannëd	annëd Comp	
Free Barren are		Annual	1Q.	Y/TD:	Annuai	1Q	YTD	Annuai	1Q	YTD
Forestry	Transmission (Miles)	69.90	0	0	677.85	0	0	343.90	24.13	24.13
	Distribution (Miles)	1,115	324	324	4,868	1,111	1,111	3,088	668	668
Transmission	Aerial Patrols	2	1	1	2	1	1	2	1	1
in anomiosion	Groundline⁴	0	0	0	2,658	0	0	0	0	0
	General Inspections	960	240	240	5,004	1,251	1,251	2,268	657	657
Substation	Transformers	124	60	60	787	618	618	349	160	160
Gubotation	Breakers	75	44	44	696	322	322	227	46	46
	Relay Schemes	110	22	22	477	177	177	445	109	109
	Capacitors	1,000	1,007	1,007	8,676	8,676	8,676	4,668	4,668	4,668
Distribution	Poles	10,500	0	0	41,111	14,093	14,093	28,433	28,032	28;032
	Reclosers	760	0	0	2,577	0	0	976	550	550
	Radio-Controlled Switches	Penn Pov contro	wer has no olled switch	radio- nes	2,244	288	288	118	26	26

General Note:

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

<sup>4</sup> Transmission groundline inspections:

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

<u>Section 57.195(e)(7)</u>: 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<sup>5</sup>

SEPT.	6 5 6 TADO&M	1Q/YTD Mar	ch 2012	5. Jon Ast		19-18-39-38-1 19-18-18-18-18-18-18-18-18-18-18-18-18-18-
Company	FERC	1Q Actuals	1Q.Budget	YTD Actuals	YTD Budget	Annual Budget
	Operation Supervision and Engineering				-	
	Load Dispatchibng	20,850	22,968	20,850	22,968	89,239
	Station Expenses			-	-	
	Overhead Lines Expenses				-	
	Transmission of Electricity by Others	514,194	473,798	514,194	473,798	1,899,644
Penn Power	Miscellaneous Transmission Expenses	1,472	2,535	1,472	2,535	8,223
	Rents	1		1	-	-
	Maintenance Supervision and Engineering	1,898	1,201	1,898	1,201	833
	Maintenance of Structures	7,386	14,669	7,386	14,669	74,221
	Maintenance of Station Equipment	530	14,573	530	14,573	60,867
	Maintenance of Overhead Lines	12,605	6,268	12;605	6,268	29,187
	Maintenance of Miscellaneous Transmission Plant	(690)	-	(690)	•	7
Penn Power	Market Administration, Monitoring & Compliance Svs	6,183	17,260	6,183	17,260	69,041
	Operation Supervision and Engineering	66		66	-	-
	Load Dispatching			-	-	·····
	Station Expenses	6,266	8,656	6,266	8,656	35,541
	Overhead Line Expenses	5,529		5,529	-	•
	Underground Line Expenses	4,355	69,390	4,355	69,390	330,007
	Meter Expenses	15,478	16,745	15,478	16,745	66,297
	Customer Installations Expenses				-	
	Miscellaneous Dx Expenses	193,030	(51,202)	193,030	(51,202)	268,821
	Rents	82,155	79,334	82,155	79,334	317,191
	Maintenance Supervision and Engineering	7,894	5,036	7,894	5,036	(8,109)
	Maintenance of Structures			-	-	· · · · · · · · · · · · · · · · · · ·
	Maintenance of Station Equipment	238,096	75,299	238,096	75,299	362,451
	Maintenance of Overhead Lines	1;870,582	1,234,955	1,870,582	1,234;955	5,041,000
	Maintenance of Underground Lines	236,817		236,817	-	-
	Maint, Line Transformer			-		
	Maintenance of Street Lighting and Signal Systems	89,690	88,426	89,690	88,426	286,350
	Maintenance of Meters	190,909	175,203	190,909	175,203	706,228
	Maintenance of Miscellaneous Distribution Plant	65,989	81,085	65,989	81,085	410,553
Penn <sup>,</sup> Power Total		3,571,285	2,336,196	3,571,285	2,336,196	10,047,590

<sup>&</sup>lt;sup>5</sup> Budgets are subject to change.

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Company	FERC	10 Actuals	1Q <sup>i</sup> Budget	YTD Actuals	YTD Budget	Annual Budget
	Operation Supervision and Engineering	13,205	8,584	13,205	8,584	32,351
	Station Expanses	202,421	200,097	202,421	266,097	1,017,731
	Station Expenses	1 759	·	1 759	<u>ب</u>	
	Overhead Lines Expenses	76,454	251,296	76,454	251,296	286,854
	Transmission of Electricity by Others	314,440	813,355	314,440	813,355	3,414,084
}	Miscellaneous Transmission Expenses	101,849	150,121	101,849	150,121	571,571
	Rents	650,380	641,495	650,380	641,495	2,561,075
	Maintenance Supervision and Engineering	53,058	12,190	53,058	12,190	(1,963)
	Maintenance of Structures	98,791	80,922	98,791	80,922	406,381
	Maintenance of Station Equipment	1 203 416	1 676 591	1 203 416	1 676 591	7 192 351
	Maintenance of Miscellaneous Transmission Plant	1,230,410	1,070,001	1,230,410	1,070,301	7,102,331
	Maintenance of Miscellaneous Transmission Plant	9,972	·	9,972		
	Market Administration, Monitoring & Compliance Svs	18,850	15,580	18,850	15,580	59,220
	Operation Supervision and Engineering	165,017	134,968	165,017	134,968	498,361
	Load Dispatching	174,618	190,823	174,618	190,823	720,058
Penelec	Station Expenses					-
	Station Expenses	13,882		13,882		79 504
	Overhead Line Expenses	9,268	14,163	9,268	14.163	/2,521
	Underground Line Expenses	1.040		1.040	·	·
	Meter Expenses	116,330	165.981	116,330	165,981	681.777
	Customer Installations Expenses			-	-	
	Miscellaneous Dx Expenses	1,494,220	587,025	1,494,220	587,025	3,357,893
	Rents	429,557	404,067	429,557	404,067	1,616,266
	Maintenance Supervision and Engineering	44,515	39,623	44,515	39,623	(10,910)
	Maintenance of Structures	,			-	******
	Maintenance of Station Equipment	1,128;188	1,624,733	1,128,188	1,624,733	6,600,832
	Maintenance of Overhead Lines	6,380,315	3,442,597	6,380,315	3,442,597	13,288,148
	Maintenance of Underground Lines	922,059	182,312	922,859	102,312	/29,250
	Maintenance of Street Lighting and Signal Systems	341 030	589 854	341.030	589 854	1 919 895
	Maintenance of Meters	572.008	494,009	572.008	494,009	2,125,364
	Maintenance of Miscellaneous Distribution Plant	566,405	462,790	566,405	462,790	2,323,975
Penelec Total		15,814,183	12,373,039	15,814,183	12,373,039	49,929,027
	Operation Supervision and Engineering	11,034	7,172	11,034	7,172	27,031
	Load Dispatchibng	604,328	657,122	604;328	657,122	2,522,469
	Station Expenses	9 610			·	-
	Overhead Lines Expenses	3 767	5 608	8,012	- 	19.069
}	Transmission of Electricity by Others	637 533	1 402 775	637 533	1 402 775	5 831 266
	Miscellaneous Transmission Expenses	156,726	208,833	156,726	208.833	799,486
	Rents	67,561	73,062	67,561	73,062	292,248
	Maintenance Supervision and Engineering	69,170	12,487	69,170	12,487	(8.873)
	Maintenance of Structures	91,205	93,818	91,205	93,818	459,423
	Maintenance of Station Equipment	292,922	451,169	292,922	451,169	1,804,932
	Maintenance of Overhead Lines	1,643,194	930,385	1,643,194	930,385	3,837,339
	Maintenance of Miscellaneous Transmission Plant				-	-
	Maintenance of Miscellaneous Transmission Plant	2 606		2 606		•
	Market Administration, Monitoring & Compliance Svs	24,667	22,183	24.667	22,183	85,180
Mat Ed	Operation Supervision and Engineering	103,640	73,808	103,640	73,808	306,496
Met-E0	Load Dispatching	126,643	127,647	126,643	127,647	493,467
	Station Expenses	59,776	111,551	59,776	111,551	907,920
	Overhead Line Expenses	20,181	292,968	20,181	292,968	317,761
	Underground Line Expenses	2,901	153,900	2,901	153,900	615,761
	Meter Expenses		131,761	106,740	131,761	537,220
	Miscellaneous Dy Evoenses	1 256 125	502 591	1 256 125	- 502 504	4 010 105
	Rente	139:134	128/259	139 134	129,261	4,019,105 612,026
	Maintenance Supervision and Engineering	49.075	43.278	49.075	43.278	(13,732)
	Maintenance of Structures	2,965	2,364	2.965	2.364	9.849
	Maintenance of Station Equipment	808,178	589,114	808,178	589,114	2,353,814
	Maintenance of Overhead Lines	5,736,295	3,693,441	5,736,295	3,693,441	15,014,077
	Maintenance of Underground Lines	916,048	181,013	916,048	181,013	719,121
	Maint. Line Transformer		· · · · · · · · · · · · · · · · · · ·	·····	-	
	Maintenance of Street Lighting and Signal Systems	162,324	174,767	162,324	174,767	708,242
	Maintenance of Miscellaneous Distribution Diant	553,235	490,758 746 506	555,235	490,758	1,997,646
Met-Ed Total		34'211'724'	11,308,031	14 211 724	740,200	A7 638 926
Crond Total		33 597 191	26 017 267	33 507 404	26 047 347	

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<u>Section 57.195(e)(8)</u>: 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<sup>6</sup>

Mart Lag - L	States in the second second	T&D Capi	tal 10//YTD Mar	ch'2012 💽 👔	PAR NUMBER	
Company	Investment Reason	1Q Actuals	1Q.Budget	YTD Actuals	YTD Budget	Annual Budget
	Capacity	30,043	180,424	30,043	180,424	393,045
	Condition	557,703	419,423	557,703	419,423	1,847,979
	Facilities	-	-	-	-	-
	Forced	1,094,766	1,588,225	1,094,766	1,588,225	6,172,581
	Meter Related	124,313	410	124,313	410	22,241
Penn Power	New Business	1,268,206	539,978	1,268,206	539,978	2,127,954
	Other	346,285	707,225	346,285	707,225	2,539,343
1	Reliability	(29,835)	863,915	(29,835)	863,915	2,711,126
	Street Light	- 59,998	77,988	59,998	77,988	288,418
	Tools & Equipment	158,534	6,038	158,534	6,038	39,979
	Vegetation Management	1,497,143	1,526,015	1,497,143	1,526,015	5,725,011
Penn Power Tota	al contraction of the second se	5,107,157	5,909,640	5,107,157	5,909;640	21,867,675
	Capacity	4,891,453	5,179,378	4,891,453	5,179,378	20,753,889
Penelec	Condition	2,739,308	3,458,283	2,739,308	3,458,283	17,239,082
	Facilities	125,401	28,464	125,401	28,464	113,857
	Forced	5,655,954	5,517,963	5,655,954	5,517,963	26,027,454
	Meter Related	673,992	880,128	673,992	880,128	3,500,023
	New Business	3,575,408	2,489,472	3,575,408	2,489,472	11,936,842
	Other	3,495,210	3,808,256	3,495,210	3,808,256	8,935,781
	Reliability	2,012,445	6,038,102	2,012,445	6,038,102	25,330,322
	Street Light	390,900	472,162	390;900	472,162	1,855,394
	Tools & Equipment	141,835	109,675	141,835	109,675	450,485
	Vegetation Management	6,263,627	5,454,662	6,263,627	5,454,662	21,820,032
Penelec Total		29,965,533	33,436,545	29,965,533	33,436,545	137,963,162
Penn Power Penelec Penelec Met-Ed Met-Ed Total	Capacity	3,401,867	2,783,188	3,401,867	2,783,188	11,648,570
	Condition	3,735,456	4,701,302	3,735,456	4,701,302	14,961,682
	Facilities	4,993	-	4,993	-	2,946,706
Penelec Total	Forced	5,261,546	5,726,376	5,261,546	5,726,376	22,992,038
	Meter Related	883,143	631,108	883,143	631,108	2,513,731
Met-Ed	New Business	3,432,434	3,271,447	3,432,434	3,271,447	12,998,744
	Other	364,654	1,117,773	364,654	1,117,773	1,469,711
	Reliability	2,675,746	3,947,372	2,675,746	3,947,372	11,742,584
	Street Light	90,217	92;448	90,217	92,448	367,675
	Tools & Equipment	191,507	112,084	191,507	112,084	461,560
	Vegetation Management	5,190,980	5,272,975	5, 190, 980	5,272,975	21,039,996
Met-Ed Total		25,232,543	27,656,071	25,232,543	27,656,071	
Grand Total	A start of a second	60,305,232	67,002,256	60,305,232	67,002,256	262 973,834

<sup>&</sup>lt;sup>6</sup> Budgets are subject to change.

<u>Section 57.195(e)(9)</u>: 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

	_		<u>୍</u> ୟ	402
f	27			
	63			
	4			
& Maintenance (C&M)	20			
-	Maintenance (C&M)	11         27           63         4           & Maintenance (C&M)         20	11     27       63       4       & Maintenance (C&M)     20	1         27           63         4           & Maintenance (C&M)         20

	Penelec 2012		31268 S		
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	155			
Eille	Lineman	187			
Substation	Technician	6			
oubstation	Construction & Maintenance (C&M)	73			
	Total	421			

	Met-Ed 2012				
Department	Staff	1Q	2Q	3Q	4Q
Line	Leader / Chief	52			
	Lineman	171			
Substation	Technician	15			
Substation	Construction & Maintenance (C&M)	56			
	Total	294			

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<u>Section 57.195(e)(10)</u>: 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.

<u>Section 57.195(e)(11)</u>: 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-00301061.

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# ATTACHMENT A

# Worst Performing Circuits - Reliability Indices

Joint 2012 Quarterly Reliability Report for the period ending March 31, 2012

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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	KOPPEL	D-532	NEW CASTLE	1,198	36	0	593,976	2,853	3.74	496	2.38	208	4.8
2	CANAL	W-104	CLARK	1,684	14	1	564,178	2,597	3.56	335	1.54	217	0.0
3	STONEBORO	W-131	CLARK	1,431	83	0	547,566	1,943	3.45	383	1.36	282	0.2
4	THOMPSON RUN	D550	ZELIENOPLE	1,021	40	0	518,115	3,009	3.27	507	2.95	172	0.0
5.	ELLWOOD SW STR	D590	ZELIENOPLE	1,655	43	1	431,776	3,866	2.72	261	2.34	112	5.4
6		D603	ZELIENOPLE	1,218	54	0	375,942	1,693	2.37	309	1.39	222	0.0
7	CANAL	W-101	CLARK	1,503	43	1	374,521	3,049	2.36	249	2.03	123	1.1
8	CAMPBELL PP	W-140	CLARK	818	50	1	374,265	2,133	2.36	458	2.61	175	1.0
9	CANAL	W-102	CLARK	1,603	49	1	340,466	2,398	2.15	212	1.5	142	3.0

(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. <sup>+</sup>		· · · · · · ·	· · · · · · · · ·			· · · · · ·						3 · · · ·	
Rank	Substation	Circuit Desc	District	Áverago Gustomers (1)	Outages (2)	Lookouts (3)	Customer Minutes (4)	Customers Affected (5)	8AIDI Impact (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	Tirrany	00435-65	Montrose	777	45	2	5,726,604	3,045	9.78	7,370	3.92	1,881	27.58
2	Lake Como	00787-65	Montrose	861	52	2	3,209,730	5,393	5,48	3,728	6.26	595	15.62
3	Thompson	00446-65	Montrose	489	24	1	2,496,192	2,034	4.26	5,105	4,16	1,227	0.06
4	Starrucca	00744-65	Montrose	872	43	1	2,396,645	2,277	4.09	2,748	2.61	1,053	16.59
5	Lake Como	00786-65	Montrose	471	21	1	2,212,738	2,489	3,78	4,698	5.28	889	18.57
6	Laurel Lake	00769-65	Montrose	477	18	2	1,821,218	2,264	3.11	3,818	4,75	804	131.90
7	Thompson	00442-65	Montrose	657	34	0	1,735,701	1,372	2,96	2,642	2.09	1,265	16.37
8	Thompson	00436-65	Montrose	1,347	70	0	1,726,665	3,183	2.95	1,282	2.36	542	4.36
9	North Meshoppen	00534-65	Tunkhannock	837	54	1	1,652,289	2,681	2.62	1,974	3.20	616	3.83
10	Warren South	00220-41	Warren	2,968	76	1	1,415,759	10,086	2.42	477	3,40	140	7.80
11	New Milford	00239-65	Montrose	356	. 10	1	1,322,337	1,283	2.26	3,714	3.60	1,031	11.97
12	Susquehanna	00279-65	Montrose	623	24	3	1,168,649	1,007	2.00	1,876	1,62	1,161	17.65
13	Tunkhannock	00533-65	Tunkhannock	1,239	69	0	1,168,069	2,740	1.99	943	2.21	426	50.40
14	Blairsville East	00080-13	hdiana	1,079	24	0	1,161,030	6,279	1.98	1,076	5,82	185	8.42
15	Oakland	00132-65	Montrose	303	10	0	1,134,912	535	1.94	3,746	1.77	2,121	9.05
16	Lake Como	00788-65	Montrose	623	33	4	1,094,211	3,765	1.87	1,756	6.04	291	51.10
17	Brooklyn	00749-65	Montrose	505	34	1	1,061,453	2,366	1.81	2,102	4,69	449	16.95
18	Fats	00297-65	Tunkhannock	827	30	0	1,037,885	4,089	1.77	1,255	4.94	254	4.43
19	Brooklyn	00748-65	Montrose	200	12	0	1,022,089	442	1.75	5,110	2,21	2,312	25.40
20	Madera	00166-22	Philipsburg	2,231	91	1	1,021,080	8,246	1,74	458	3.70	124	11.90
21	East Pike	00096-13	Indiana	2,436	30	0	916,651	8,942	1.57	376	3,67	103	2.46
22	Avery	00791-65	Tunkhannock	358	32	3	916,588	1,663	1.57	2,560	4.65	551	22.06
23	North Meshoppen	00530-65	Tunkhannock	563	35	0	869,927	2,479	1.49	1,545	4.40	351	0.69
24	New Milford	00240-65	Montrose	303	11	2	851,978	623	1.45	2,812	2,06	1,368	11.99
25	Birmingham	00168-22	Philipsburg	1,060	56	1	771,805	4,323	1.32	728	4,08	179	7.87
26	Lenox	00755-65	Tunkhannock	690	30	0	756,937	1,919	1.29	1,097	2.78	394	6.63
27	Erie South	00259-31	Erie	2,474	70	0	753,104	6,762	1,29	304	2.73	111	0.67
28	Oxbow	00555-65	Tunkhannock	721	29	11	749,936	2,830	1.28	1,040	3,93	265	33.83
29	Scalp Level	00932-11	Johnstow n	664	24	0	747,454	3,312	1.28	1,126	4.99	226	4,87
	North Meshoppen	00531-65	Tunkhannock	313	24	1	739,210	777	1.26	2,362	2.48	951	4,77
31	Honey Grove	00135-83	Shippensburg	429	20	0	738,363	1,047	1.26	1,721	2.44	705	8.44
32	Salix	00070-11	Johnstow n	2,254	42	1	715,419	3,864	1.22	317	1.71	185	6.46
33	McVeytow n	00112-81	Lew istow n	1,358	47	1	676,640	1,823	1,16	498	1.34	371	11.06
34	Mansfield	00559-63	Mansfield	516	30	3	658,405	2,198	1,12	1,276	4.26	300	16.90
35	Mildred	00771-62	Tow anda	587	17	1	640,722	1,223	1,09	1,092	2.08	524	4,87
36	Montrose	00457-65	Montrose	672	38	1	629,295	997	1.07	936	1.48	631	2.49
37	Franklin Forks	00737-65	Montrose	152	5	1	604,293	229	1.03	3,976	1.51	2,639	20.08
38	Lucerne	00091-13	ndiana	1,696	25	0	584,741	2,410	1.00	345	1.42	243	0.00
39	Lenox	00434-65	Tunkhannock	270	14	0	534,099	435	0,91	1,978	1.61	1,228	11.88
40	Honey Grove	00134-83	Shippensburg	449	20	2	492,518	1,247	0.84	1,097	2.78	395	31.78
41	Logan	00700-81	Law istow n	1,047	18	1	484,700	2,032	0,83	463	1.94	239	8.51

Penelec		لاسين اور اور کې				میں ایک		مار میکند. دوری از مار میکند کنیس					
Rank	Substation	Circuit Desc	District	A verage Customers (1)	Outages (2)	Lockouts (3)	Gustomer Minutes (4)	Customers Affected (5)	SAIDI Impact (6)	.SAIDI (7)	SAIFI -(7)	CAIDI (7)	MAIFI. (7)
42	Erie East	00234-31	Erie	1,082	58	2	473,501	3,841	0.81	438	3.55	123	6.28
43	Brookville	00123-23	DuBois	557	19	2	470,583	1,352	0.80	845	2.43	348	8.26
44	Philipsburg	00162-22	Philipsburg	3,266	72	0	455,842	6,116	0.78	140	1.87	75	15.56
45	Lew is Run	00409-42	Bradford	729	22	0	438,655	1,857	0.75	602	2.55	236	3.86
46	Grover	00527-63	Mansfield	738	43	1	438,588	2,349	0.75	594	3.18	187	5.48
47	Tunkhannock	00695-65	Tunkhannock	529	37	0	438,559	1,011	0.75	829	1.91	434	. 15.35
48	Laurel Lake	00449-65	Montrose	508	51	3	408,084	2 371	0.70	803	4.67	172	37.97
49	Union City	00207-43	Corry	777	35	3	405,941	2,822	0.69	522	3.63	144	19.69
50	Piney	00523-51	Oil City	1,195	38	0	378,272	2,596	0.65	317	2,17	146	9.74
51	Punxsutaw ney	00625-23	DuBois	547	25	0	375,517	2,105	0.64	687	3.85	178	26.95
52	Edgew ood	00089-13	Indiana	899	33	2	372,710	3,297	0.64	415	3.67	113	16.98
53	Čovington	00729-63	Mansfield	761	41	0	369,885	1,761	0.63	486	2.31	210	0.00
54	East Tow anda	00525-62	Tow anda	682	44	1	359,620	1,197	0.61	527	1.76	300	11.29
55	Timblin	00103-23	DuBois	747	36	0	358,269	1,122	0.61	480	1.50	319	21.71
56	East Sayre	00518-61	Sayre	944	39	0	357,726	3,267	0.61	379	3.46	109	11.06
57	PPL West	PL097-62	Tow anda	108	8	0	348,824	393	0.60	3,230	3.64	888	0.00
58	Philipsburg	00149-22	Philipsburg	941	43	1	343,619	2,119	0.59	365	2.25	162	43.67
59	Greenw ood	00041-71	Altoona	1,237	30	0	331,018	1,752	0.57	268	1.42	189	4.23

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Met-Ed		· · · · · · · · · · · · · · ·		generation of the second second		i maria ner i i e.		2				اسمېي (ماي مويا <sup>ن)</sup> مېرې د د د	
Circuit			4	Average	Outeres		Customer	Customer	C NDL Imment	04101	0.4.151	0.4101	- 
Dank	Substation	Circuit Desc	District <sup>,</sup>	Customers	Cutages	LOCKOUIS	Minutés	Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
				(1)	(2)	(3)	.(4)	(5)	(ø)	(7)	(I)	( <u>/</u> )	(7)
1	YORKANA	00708-4	YORK	2,276	61	5	1,365,473	13,389	2.50	599.94	5.88	101.98	5.22
2	SHAWNEE	00895-3	STROUDSBURG	3,780	83	Ō	1,040,765	9,891	1.91	275.33	2.62	105.22	12.15
3	SHAWNEE	00860-3	STROUDSBURG	3,175	72	3	1,037,134	14,901	1.90	326.66	4.69	69.60	23.23
4	GLENDON	00818-3	EASTON	1,256	15	1	1,029,887	3,088	1.89	819.97	2.46	333.51	1.00
5	WINDSOR	00797-4	YORK	1,539	72	1	1,006,191	3,556	1.84	653.80	2.31	282.96	10.01
6	FOXHILL	00816-3	STROUDSBURG	3,751	57	1	967,084	7,412	1.77	257.82	1.98	130.48	14.85
7	MOUNTAIN	00740-4	DILLSBURG	2,409	43	0	798,006	3,598	1.46	331.26	1.49	221.79	1.00
8	MOUNTAIN	00743-4	DILLSBURG	1,009	31	1	742,559	3,514	1.36	735.94	3.48	211.31	6.18
9	RINGING ROCKS	00708-1	BOYERTOWN	2,210	46	2	717,215	8,456	1.31	324.53	3.83	84.82	5.01
10	MOUNTAIN	00744-4	DILLSBURG	1,750	65	ō	699,123	2,872	1.28	399.50	1.64	243.43	3.11
11	BERNVILLE	00786-1	HAMBURG	1,830	38	2	698,317	4,658	1.28	381.59	2.55	149.92	0.51
12	WINDSOR	00795-4	YORK	1,032	58	2	694,920	3,717	1.27	673.37	3.60	186.96	1.01
13	S NAZARETH	00809-3	EASTON	2;921	53	2	675,917	7,111	1.24	231.40	2.43	95.05	11.00
14	MOUNTAIN	00742-4	DILLSBURG	1,392	44	2	667,379	3,378	1.22	479.44	2.43	197.57	5.99
15	NORTH LEBANON	00715-2	LEBANON	1,173	22	1	654,820	2,814	1.20	558.24	2.40	232.70	12.02
16	TAXVILLE	00573-4	YORK	1,821	27	1	641,997	7,817	1.18	352.55	4.29	82.13	8.10
17	BIRDSBORO	00756-1	READING	1,406	69	0	619,900	4,925	1.13	440.90	3.50	125.87	7,16
18	BERNVILLE	00787-1	HAMBURG	1,741	40	1	594,546	2,859	1.09	341.50	1.64	207.96	5.18
19	BIRDSBORO	00757-1	READING	1,898	54	2	584,487	4,095	1.07	307.95	2.16	142.73	4.50
20	WINDSOR	00796-4	YORK	1,132	42	0	577,934	2,645	1.06	510.54	2.34	218.50	11.70
21	NEWBERRY	00577-4	YORK	1,580	27	2	547,919	4,466	1.00	346.78	2.83	122.69	10.44
22	SWATARA HILL	00764-2	LEBANON	1,411	28	2	545,452	3,926	1.00	386.57	2.78	138.93	2.44
23	LYNNVILLE	00737-1	HAMBURG	755	39	2	542,009	2,436	0.99	717.89	3.23	222.50	15.38
24	FRIEDENSBURG	00769-1	READING	1,951	42	1	529,077	5,495	0.97	271.18	2.82	96.28	1.16
25	GARDNERS	00752-4	GETTYSBURG	1,382	49	1	522,253	3,965	0.96	377.90	2.87	131.72	6.09
26	ANNVILLE	00744-2	LEBANON	874	16	0	518,742	2,164	0.95	593.53	2.48	239.71	7.23
27	SHAWNEE	00837-3	STROUDSBURG	1,209	30	1	511,189	3,488	0.94	422.82	2.89	146.56	13.23
28	FLYING HILLS	00777-1	READING	1,748	48	2	498,547	4,842	0.91	285.21	2.77	102.96	8.40
29	FRYSTOWN	00702-2	LEBANON	1,173	36	2	496,225	3,061	0.91	423.04	2.61	162.11	10.05
30	SHAWNEE	00822-3	STROUDSBURG	3,347	58	2	495,736	5,698	0.91	148,11	1.70	87.00	2.96
31	NORTH CORNWALL	00610-2	LEBANON	1,129	25	2	492,395	4,979	0.90	436.13	4.41	98.89	12.76
32	MT BETHEL	00090-3	EASTON	491	14	2	491,423	1,963	0.90	1,000.86	4.00	250.34	0.00
33	DILLSBURG	00749-4	DILLSBURG	1,794	50	2	488,763	4,612	0.89	272.44	2.57	105.98	6.98
34	YOE	00559-4	YORK	2,533	21	1	460,255	5,661	0.84	181.70	2.23	81.30	6.02
35	WINDSOR	00316-4	YORK	631	17	1	436,562	985	0.80	691.86	1.56	443.21	10.01
36	ANNVILLE	00743-2	LEBANON	1,156	17	0	421,797	2,035	0.77	364.88	1.76	207.27	9.75
37	SWATARA HILL	00763-2	LEBANON	1,455	31	2	409,315	3,629	0.75	281.32	2.49	112.79	12.11

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# ATTACHMENT B

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# Worst Performing Circuits – Remedial Action

Joint 2012 Quarterly Reliability Report for period ending March 31, 2012 -

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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 at Docket Number D-05MGT003.

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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
			Performance driven by two outages caused by a non-preventable tree and by equip	nent failure both during we	ather conditions	
1	Koppel	D-532	The equipment failure was repaired at the time of restoration	Complete	Jul-11	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Sep-11	
			Performance driven by one outage caused by line failure			
2	Canal	W-104	Forestry to trim circuit in 2011	Complete	Sep-11	
[			The failed underground exit wire was converted to overhead at time of restoration	Comptete	Dec-11	
			Performance driven by three outages caused by lightning, by a non-preventable tree weather conditions	and by line failure during		
3	Stoneboro	W-131	Equipment that was broken due to lightning was repaired at time of restoration	Complete	May-11	
			The problem tree was removed and associated repairs were made at time of restoration	Complete	Jul-11	
			Cable was reattached at time of restoration	Complete	Jul-11	
1			Performance driven by two outages caused by a non-preventable tree and by lightni	ng during weather condition	ns	
	Thomas on Pure	D550	Problem tree was removed and associated repairs were made at time of restoration	Complete	Apr-11	
	monpson run	2000	Forestry to trim circuit in 2011	Complete	Aug-11	
			Equipment that was broken due to lightning was repaired at time of restoration	Complete	Jun-11	
	Elwood SW		Performance driven by one outage caused by a non-preventable tree			
5	\$TR	D590	Problem tree was removed and associated repairs were made at time of restoration	Complete	Apr-11	
			Forestry to trim circuit in 2012	To be completed in 2012		<u> </u>
			Performance driven by one outage caused by a non-preventable tree			
6	ZELIENÓPLE	D603	Problem tree was removed and associated repairs were made at time of restoration	Complete	Apr-11	
L			Forestry to trim circuit in 2012	To be completed in 2012		

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Rank	Substation	Clicuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quarters			
			Performance driven by one outage caused by a non-preventable tree during weather conditions						
	7 CANAL		Equipment that was broken due to lightning was repaired at time of restoration	Complete	May-11	3Q 2010			
7		14/ 101	Problem tree was removed and associated repairs were made at time of restoration	Complete	Jui-11	4Q 2010 1Q 2011			
1		VV-101	Forestry to trim circuit in 2011	Čomplete	Aug-11	30 2011			
		Protection Review to be engineered in 4th Qtr Complete		Nov-11	1Q 2011				
			Protection Review and main gut review field construction	Complete	Nov-11	-			
			Performance driven by two outages both caused by lightning during weather condition	ons					
8	CAMPBELL PP	W-140	Equipment that was broken due to lightning was repaired at time of restoration	Complete	Aug-11	1			
			Equipment that was broken due to lightning was repaired at time of restoration	Complete	Aug-11	4			
			Performance driven by one outage caused by a non-preventable tree during weather	conditions					
9	CANAL	W-102 Problem tree was removed and associated repairs were made at time of restoration		Complete	May-11				
			Forestry to trim circuit in 2012	To be completed in 2012		-			

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Rank	Substation	Circuit	Romedial Action Planned or Taken	Status⊧of Remedial Work	Date Remedial Work	Appeared in 4 of 6 Quaraters	
			Performance was driven by trees non-preventab	le during storm (Hurricane Irene).			
1	Tiffany	00435-65	Repair tree damage during storm	Complete	Aug-11	7	
			Add additional protection per circuit coordination	To be completed 2012			
			Performance was driven by trees non-preventab	le during storm .		4Q 2010	
2	Lake Corro	00787-65	Repair tree damage during storm	Complete	Aug-11	10 2011	
-			Repair tree damage during storm Complete		Oct-11	4Q 2011	
			Add additional protection per circuit coordination	To be completed 2012		10 2012	
			Performance was driven by trees non-preventab	le during storm (Hurricane Irene).			
3	Thompson	00446-65	Repair tree damage during storm	Complete	Sep-11		
			Performance was driven by trees non-preventat	le during storm.	<u> </u>		
		Repair tree demage trene)	Repair tree damage from storm (Hurricane Irane)	Complete	Aug-11	40 2010	
4	Starrucca	00744-65	Repair damage from minor storm	Complete	Oct-11	- 1Q 2011 2Q 2011	
	Glandeea	00744-05	2011 Circuit Inspection	Complete	Nov-11	3Q 2011 4Q 2011	
			Full Cycle Tree Clearing	Complete	 Dec-11	10 2012	
			Add additional protection per circuit coordination	To be completed 2012			
				Performance was driven by trees non-preventab	le during storm (Hurricane Irene).		
5	Lake Como	00786-65	Repair tree damage during storm	Complete	Aug-11	~	
			Add additional protection per circuit coordination	To be completed 2012	· · · · · · · · · · · · · · · · · · ·	-	
6		00700.65	Performance was driven by trees non-preventab	le during storm (Hurricane Irene).		_	
0		00769-65	Repair tree damage during storm	Complete	Aug-11	-	
			Performance was driven by trees non-preventab	le during storm (Hurricane Irene).			
7	Thompson	00442-65	Repair tree damage during storm	Complete	Aug-11	-1	
			Add additional protection per circuit coordination	To be completed 2012			
· · · · ·			Performance was driven by trees non-preventab	le during storm (Hurricane Irene).	<u> </u>	40 2010	
	~		Repair tree damage during storm	Complete	Aug-11	20 2011	
8	Thompson	00436-65	Full Cycle Tree Clearing	Complete	Sep-11	3Q 2011 4Q 2011	
		L	Add additional protection per circuit coordination	To be completed 2012		1Q 2012	
		Performance was driven by trees non-preventable during storm.					
9	North Meshoppen	pen 00534-65 R	Repair tree damage during storm	Complete	Aug-11		
			Repair tree damage during storm	Complete	Dec-11	7	

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Renk	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quaraters
			Performance was driven by non-preventable tree	e damage during minor storm, and	l equipment failure.	
			Repair tree damage from minor storm	Complete	Apr-11	4Q 2010
			Repair equipment damage	Complete	Jun-11	10 2011
10	Warren South	00220-41	Repair tree damage from minor storm	Complete	Jul-11	3Q 2011
-			Repair tree demage	Complete	Dec-11	4Q 2011 10 2012
			Full Cycle Tree Clearing	Complete	Dec-11	
			Repair tree damage from minor storm	Complete	Feb-12	7
11	New Milford	00239-65	Performance was driven by trees non-preventab.	le during storm (Hurricane Irene).		
			Repair tree damage during storm	Complete	Aug-11	
			Performance was driven by trees non-preventab.	le during storm (Hurricane Irene)		2Q 2011
12	Susquehanna	00279-65	Repair tree damage during storm	Complete	Aug-11	3Q 2011 4Q 2011
			2012 Circuit Inspection	To be completed 2012		1Q 2012
ſ			Performance was driven by trees non-preventab	le, lightning damage and equipme	ent failure during minor storm.	20.2014
13	Tuakbappock	00533-65	Repair equipment damage during minor storm	Complete	Apr-11	3Q 2011
15	Tankianioek	00000-00	Repair lightning damage from minor storm	Complete	Jun-11	4Q 2011 1Q 2012
			Repair tree damage during storm	Complete	Aug-11	
		Performance was driven by trees non-preventable during minor storm.				
			Repair tree damage from minor storm	Complete	Apr-11	4Q 2010
- 14	Blairsville East	00080-13	Repair tree damage from minor storm	Complete	Jun-11	3Q 2011
			Full Cycle Tree Clearing	Complete	Aug-11	4Q 2011 1Q 2012
			2012 Circuit Inspection	To be completed 2012		]
			Performance was driven by trees non-preventab	le during storm (Hurricane Irene)		
15	Oakland	00132-65	Repair tree damage during storm	Complete	Aug-11	
			Add additional protection per circuit coordination	To be completed 2012		
			Performance was driven by trees non-preventab	le during storm.		
			Repair tree damage during storm	Complete	Aug-11	4Q 2010 3Q 2011
16	Lake Como	00788-65	Repair tree damage during storm	Complete	Oct-11	4Q 2011 1Q 2012
			Add additional protection per circuit coordination	To be completed 2012		
			Performance was driven by trees non-preventab	le during storm (Hurricane Irene)	· · · · · · · · · · · · · · · · · · ·	
	_		Repair tree damage during storm	Complete	Sep-11	
17	Brooklyn	00749-65 A	Add additional protection per circuit coordination	To be completed 2012		
			2012 Circuit Inspection	To be completed 2012		] .

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Rank	Substation	Çirouit	Remedial Action Planned;or Taken	Status of Remodial Work	Date Remedial Work Completed	Appeared in 4 of 6 Quaraters		
			Performance was driven by trees non-preventab	le, equipment feilure, and lightnin	ng during minor storm.			
			Repair equipment failure	Complete	Apr-11			
19	Solla	00007.85	Repair lightning damage during minor storm	Complete	Jun-11	2Q 2011 3Q 2011		
	Fails	00297-03	Repair tree damage during storm	Complete	Aug-11	4Q 2011 1Q 2012		
}	}	}	2011 Circuit Inspection	Complete	Dec-11	]		
	L		Full Cycle Tree Clearing	To be completed 2012				
			Performance was driven by trees non-preventab.	le during storm (Hurricane Irene)		}		
19	Brooklyn	00748-65	Repair tree damage during storm	Complete	Aug-11			
			Full Cycle Tree Clearing	To be completed 2012				
			Performance was driven by equipment failure.					
			Repair equipment damage	Complete	Nov-11	- 4Q 2010 1Q 2011 2Q 2011		
20	, Madera	. Madera	00166-22	era 00166-22	Full Cycle Tree Clearing	Complete	Oct-11	3Q 2011 4Q 2011
			Reair equipment damage	Complete	Nov-11	10 2012		
			Performance was driven by equipment failure an	d non-preventable trees during n	ninor storms.	20 2011		
21	East Rke	00096-13	Repair tree damage and equipment failure during minor storm	Complete	Apr-11	3Q 2011 4Q 2011 1Q 2012		
			Performance was driven by trees non-preventab	le and equipment failure during s	torm (Hurricane Irene).			
22	Avery	00791-65	Repair tree damage during storm	Complete	Aug-11			
			Performance was driven by trees non-preventat	le and equipment failure during i	minor storm.			
22		00500.65	Repair equipment damage	Complete	Apr-11			
23	North Meshoppen	00530-65	Repair tree damage during storm	Complete	Aug-11			
			2012 Circuit Inspection	To be completed 2012				
			Performance was driven by trees non-preventeb	le during storm (Hurricane Irene)	······································			
24	New Milford	00240-65	Repair tree damage during storm	Complete	Aug-11			
			Performance was driven by non-preventable tre	es, equipment failure, and line fa	ilure during minor storm.			
			Repair line failure	Complete	Sep-11	4Q 2010 1Q 2011		
25	Birmingham	ham 00168-22	Targeted Mainline Reliability Equipment Replacement	Complete	Dec-11	2Q 2011 3Q 2011 4Q 2011		
			2011 Circuit Inspection	Complete	Oct-11	10 2012		
			Full Cycle Tree Clearing	To be completed 2012	,			

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Rémedial Work Completed	Appeared in 4 of 6 Quaraters		
			Performance was driven by trees non-preventab	le and equipment failure during m	linor storm.	20 2011		
26	Lenox	00755-65	Repair tree damage from minor storm	Complete	Apr-11	30 2011		
	)	}	Repair equipment and tree damage during minor storm	Complete	Aug-11	10 2012		
· · · · · · · · · · · · · · · · · · ·			Performance was driven by equipment failure, lin	ne failure, and trees non-preventa	ble.			
			Reliability Coordinator to inspect circuit based on outage history	Complete	Jan-11	4Q 2010		
27	Frie South	00259-31	Repair equipment damage	Complete	Apr-11	1Q 2011 2Q 2011		
21		00200-01	Repair line failure	Complete	Sep-11	3Q 2011 4Q 2011		
			Repair tree damage during storm	Complete	Feb-12	1Q 2012		
			Add additional protection per circuit coordination	To be completed 2012		1		
			Performance was driven by trees non-preventab					
	e e e e e e e e e e e e e e e e e e e		Repair tree damage during storm	Complete	Aug-11			
28	Oxbow	xbow 00555-65 Repair equipment damage Complete 2012 Circuit Inspection To be completed 2012	Dec-11					
			2012 Circuit Inspection	To be completed 2012				
	i		Performance was driven by equipment failure du	ning minor storm.		20 2011		
29	Scalp Level	00932-11	Repair equipment damage	Complete	Apr-11	3Q 2011 4Q 2011		
			Full Cycle Tree Clearing	To be completed 2012		1Q 2012		
		00531.65	Performance was driven by trees non-preventab	le during storm (Hurricane Irene)				
30	Normineshoppen	00551-05	Repair tree damage during storm	Complete	Aug-11			
			Performance was driven by equipment failure an	id non-preventable trees during m	ninor storms.	20 2010		
31	Honey Grove	00135-83	Repair tree damage and equipment failure during minor storm	Complete	Apr-11	4Q 2011 4Q 2011 1Q 2012		
-			Performance was driven by equipment failure, a	nd lightning.	<u>.                                    </u>	4Q 2010		
		00070 44	Repair lightning damage Complete May		May-11	1Q 2011 2Q 2011		
32	Salix	00070-11	2011 Circuit Inspection	Complete	 Jui-11	3Q 2011 4Q 2011		
					Repair equipment damage	Complete	Oct-11	10 2012

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

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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 Quaraters
			Performance was driven by equipment and line f	ailure during minor storm.		
33	McVevtow n	00112-81	Repair equipment and line failure during minor storm	Complete .	Apr-11	2Q 2010 3Q 2011
		,	Add additional protection per circuit coordination	To be completed 2012		4Q 2011 1Q 2012
			2012 Circuit Inspection	To be completed 2012		
			Performance was driven by line failure and trees CPA.	non-preventable during minor st	orm, equipment failure and .	· ·
			Repair tree damage from minor storm	Complete	Aug-11	
			Repair damage from CPA	Complete	Apr-11	20 2010
34	Mansfield	00559-63	Repair equipment damage	Comptete	Apr-11	3Q 2011
			Repair line failure	Complete '	Jun-11	1Q 2012
			2011 Circuit Inspection	Complete	Dec-11	
			Add additional protection per circuit coordination	To be completed 2012		
			Full Cycle Tree Clearing	To be completed 2012		
			Performance was driven by trees non-preventable			
35	Mildred	00771-62	Repair tree damage during storm	Complete	Aug-11	
			Add additional protection per circuit coordination	To be completed 2012		
			Performance was driven by trees non-preventab	le and an unknown during storm (	(Hurricane Irene).	
36	Montrose	00457-65	Repair tree damage during storm	Complete	Aug-11	]
			Add additional protection per circuit coordination	To be completed 2012		]
,			Performance was driven by trees non-preventab	le during storm (Hurricane Irene)		
37	Franklin Forks	00737-65	Repair tree damage during storm	Complete	Aug-11	
			Full Cycle Tree Clearing	To be completed 2012		]
			Performance was driven by trees non -preventab	ole and equipment failure during i	minor storm.	20 2010
38	Lucerne	00091-13	Repair tree and equipment damage from minor storm	Complete	Apr-11	3Q 2011 4Q 2011 1Q 2012
	<u> </u>		Performance was driven by trees non-preventab	le during storm (Hurricane Irene)	•	
39	Lenox	00434-65	Repair tree damage during storm	Complete	Aug-11	1
		Ì	Performance was driven by non-preventable tree	es during minor storm.		20 2010
40	Honey Grove	00134-83	Repair tree damage during minor storm	Complete	Apr-11	4Q 2011 1Q 2012

Joint 2012 Quarterly Reliability Report for period ending March 31, 2012

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Datë Remedial Work Completed	Appeared in 4 of Quaraters
			Performance was driven by trees non-preventab	le during storm.		10 2011
41	Logan	00700-81	Repair tree damage from minor storm	Complete	Apr-11	3Q 2011
			Add additional protection per circuit coordination	To be completed 2012		4Q 2011 1Q 2012
			Performance was driven by equipment failure, tr	ees non-preventable, and line fail	ure during a minor storm.	
			Repair tree damage	Complete	Apr-11	_
42	Erie East	00234-31	Repair line failure	Complete	Jui-11	
			Repair equipment damage	Complete	Jan-12	**
			Add additional protection per circuit coordination	To be completed 2012		
43	Brookville	00123-23	Performance was driven by equipment failure.			
	Brookting	00120-20	Repair equipment damage	Complete	Jan-12	- -
			Performance was driven by equipment failure, u	nknown outage, and vehicle.		
AA Dalling hur	Oblineburg	00162-22	Repair equipment damage	Complete	Jun-11	4Q 2010 2Q 2011
44	Philpsburg	00162-22	Repair vehicle damage	Complete	Oct-11	4Q 2011
			Full Cycle Tree Clearing	To be completed 2012		
			Performance was driven by trees non-preventab	······································		
45	Lew is Run	00409-42	Repair tree damage	Complete	May-11	
			Repair equipment damage	Complete	Oct-11	1
			Performance was driven by an unknown and non	-preventable trees during minor s	torms.	40.2010
	_		Repair tree damage from minor storm	Complete	Oct-11	10 2011
46	Grover	00527-63	Full Cycle Tree Clearing	Complete		3Q 2011 40 2011
			Add additional protection per circuit coordination	To be completed 2012		10 2012
			Performance was driven by trees non-preventable	le, equipment failure, and lightnin	g during minor storm.	
47	Tunkhannock	00695-65	Repair equipment damage	Complete	Apr-11	1.
			Repair tree damage	Complete	Aug-11	
			Performance was driven by trees non-preventable	le during minor storm, equipment	failure, and line failure.	
			Repair line failure	Complete	Jun-11	
48	Laure! Lake	00449-65	Repair tree damage	Complete	Jul-11	1
		F	Repair equipment damage	Complete	Jan-12	1
			Add additional protection per circuit coordination	To be completed 2012		1

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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 Quaraters							
			Performance was driven by trees non-preventab	le during minor storm, and line fa	ilure.								
49	Union City	00207-43	Repair tree damage	Complete	Apr-11								
			Repair line failure	Complete	Mar-12								
			Performance was driven by equipment failure, lig	htning, and line failure.									
			Repair lightning damage	Complete	Sep-11								
50	Piney	00523-51	Repair line failure	Complete	Dec-11								
			Repair equipment failure	Complete	Feb-12								
			Add additional protection per circuit coordination	To be completed 2012									
			Performance was driven by tres non-preventable	a during minor storm, and line dar	nage.	2Q 2011							
51	51 Punxsutaw ney	Punxsutawiney 00625-23 Repair tree and line damage during minor storm Complete		Apr-11	4Q 2011								
			2012 Circuit Inspection	To be completed 2012		10 2012							
1			Performance was driven by line faliure, equipme	· · ·									
			Repair CPA damage	Complete	Nov-11								
52	Edgew ood	00089-13	Repair line failure	Complete	Dec-11								
			Repair equipment failure	Complete	Jan-12								
			Add additional protection per circuit coordination	To be completed 2012									
			Performance was driven by equipment failure du	ring minor storm and a CPA.		10 2011							
63	Cavinatan	00720 62	Repair equipment failure	Complete	Apr-11	2Q 2011							
55	Covingion	00729-03	Repair vehicle damage	Complete	Apr-11	4Q 2011							
			Repair equipment failure	Complete	Jun-11	1Q 2012							
_			Performance was driven by lightning, equipment	failure and trees non-preventable	e during minor storm.								
			Repair lightning failure	Complete	Jun-11								
54	East Tow anda	00525-62	Repair euipment failure	Complete	Jun-11								
			Repair tree damage	Complete	Aug-11								
· ·									A	Add additional protection per circuit coordination	To be completed 2012		1

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Joint 2012 Quarterly Reliability Report for period ending March 31, 2012

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Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work	Appeared in 4 of 6 Quaraters
- 55	Tinthia	00103.22	Performance was driven by a CPA.			
		00103-23	Repair vehicle darrage	Complete	Jan-12	
			Performance was driven by equipment failure, ar	nd trees non-preventable during i	minor storm.	
56	East Sayre	00518-61	Repair tree damage	Complete	Jun-11	
			Repair equipment damage	Complete	Nov-11	
<b>E7</b>		ET 007 63	Performance was driven by loss of supply from c	ther electric utility during minor	storm,	<u> </u>
		F1.097-62	Other electric utility restored supply	Complete	Aug-11	
· ·			Performance was driven by line failure, and equi	pment failure during minor storm	<u></u>	
58	Philipsburg	00149-22	Repair equipment failure	Complete	Jul-11	
			Repair line failure	Complete	Aug-11	
	Greenw ood	00041-71	Performance was driven by trees non-preventable, human error, and CPA.			
59			Repair customer tree trimming damage	Complete	Jan-12	
			Repair tree danmage	Complete	Mar-12	
_			Repair vehicle damage	Complete	Mar-12	
;			Performance was driven by trees non-preventat storms.	le, equipment failure, and lightni	ng damage during minor	
			Reliability Coordinator to inspect circuit based on outage history	Complete	Jan-11	
			Repair tree damage from minor storm	Complete	Feb-11	30 2010
	Linion Oity	00206.42	Repair tree damage from minor storm	Complete	Apr-11	4Q 2010 1Q 2011
		00200-43	Repair lightning damage	Complete	Jun-11	2Q 2011 3Q 2011
			Repair equipment damage	Complete	Aug-11	4Q 2011
			Add additional protection per circuit coordination	To be completed 2012		
			Full Cycle Tree Qearing	To be completed 2012		

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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 Quaraters	
*			Performance was driven by trees non-preventable during storm.				
	Russell Hill	00282-65	Repair tree damage during storm	Complete	Aug-11		
			Full Cycle Tree Clearing	To be completed 2012			
			Performance was driven by trees non-preventab	le and an unknown during storm (	Hurricane Irene).		
			Repair tree damage during storm	Complete	Aug-11		
	Inffany	00440-65	Add additional protection per circuit coordination	To be completed 2012		*	
- -			Full Cycle Tree Clearing	To be completed 2012			
		<u> </u>	Performance was driven by eqipment failure and	line failure.			
			Repair Equipment/line faiture	Complete	Feb-11	1	
	Mansfield	00559 62	Repair failed equipment	Complete	May-11	1Q 2011 2Q 2011	
•		00000-00	Add additional protection per circuit coordination	To be completed 2012		3Q 2011 4Q 2011	
			2012 Circuit Inspection	To be completed 2012			
			Full Cycle Tree Clearing	To be completed 2012			
		-	Performance was driven by equipment failure du	ring minor storm and line failure.			
			Repair line failure	Complete	May-11	3Q 2010 4Q 2010	
	Rolling Meadow s	00310-31	Realr equipment failure during minor storm	Complete	Feb-11	1Q 2011 2Q 2011	
;			Full Cycle Tree Clearing	Complete	Jul-11	3Q 2011 4Q 2011	
-			Add additional protection per circuit coordination	To be completed 2012			
			Performance was driven by trees non-preventable	le during minor storm.			
	Claysburg	Claysburg 000	00044-71	Repair tree damage	Complete	Oct-11	
· · ·		ļ	Full Cycle Tree Clearing	To be completed 2012			

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

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					Remedial <sup>®</sup> Work	Appeared in 4
Rank	Substation	Circult	Remedial Action Planned or Taken	Status of Remedial Work	Completed	of 6 Quarters
SAL ANT SWEET			Performance driven by wind cause (21% of minutes), non-preventable tree cause outages (33% of i (27% of minutes)	ninutes), and vehicle cause	outages	
	1		Perform SAIFI analysis initiative study	Complete	Jan-11	402040
			Perform Accelerated backbone and 3 phase assessment	Complete	Feb-11	402010
			Replaced damaged recloser found during repair of hot spot identified from thermal scan	Complete	Mar-11	102011
1	Yorkana	00708-4	Install radio controlled reclosers for sectionalizing.	Complete	Dec-11	202011
			Perform accelerated circuit reliability assessment of backbone	To be completed in 2012		402011
			Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		402011
			Forestry to perform on cycle comprehensive circuit Tree Trimming	To be completed in 2012		102012
			Personal letter to be sent to each customer on this circuit explaining reliability improvements	To be completed in 2012		
			Reconfigure circuit to minimize line exposure	To be completed in 2012		
			Performance was driven by non-preventable trees (47% of minutes), vehicle accidents (28% of min minutes)	utes), and equipment failure	e (18% of	
			Perform SAIFI analysis initiative study	Complete	Jan-11	4Q2010
			Perform accelerated 3 phase and backbone assessment	Complete	Mar-11	1Q2011
2	Shawnaa	00806.2	Replace current limiting fuses on step transformers	Complete	Mar-11	2Q2011
<b>_</b>	Ollawinee	00030-0	Operate and maintain circuit tie switches	Complete .	Apr-11	3Q2011
			Install new electronic recloser	Complete	May-11	4Q2011
			Perform accelerated backbone and 3 phase assessment	Complete	Jan-12	1Q2012
1			Correct fuse coordination	To be completed in 2012		
			Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2012		
			Performance driven by lightning and non-preventable trees. 31% of minutes from lightning strike to	a recloser on 5/30/11. 36	% of	
			Perform accelerated backhone and 3 phase assessment	Complete	Mar-11	1
			Install Fault Indicators	Complete	Feb-11	4Q2010
		1	Replace current limiting fuses on step transformers	Complete	Mar-11	1Q2011
			Correct fuse miscoordinations identified during SAIEI analysis	Complete	Apr-11	2Q2011
3	Shawnee	00860-3	Operate and maintain circuit tie switches	Complete	Jun-11	3Q2011
			Perform accelerated backbone and 3 phase assessment	Complete	Jan-12	4Q2011
			Install SCADA Controlled Switch	To be completed in 2012		1Q2012
			Install SCADA Controlled Switch	To be completed in 2012		
			Replace 3 sets of fault indicators	To be completed in 2012		
			Repair conditioned items from circuit assessment	To be completed in 2012		
	<u> </u>		Performance driven by line failure on 7/3/11, which contributed 35% of circuit minutes, and vehicle	accident on 12/17/2011 wh	ich	
			contributed 48% of circuit minutes			
4	Glendon	00818-3	Perform accelerated assessment on the circuit backhone	Complete	Mar-11	
,			Perform accelerated backbone and 3 phase assessment	Complete	Mar-12	4Q2010
		]	Recorductor 3 snaps of mainline	To be completed in 2012		1Q2011
	<u></u>	<u> </u>	Orguit performance was driven by non-preventable tree cause outgress (53% of minutes)	<u> </u>		2Q2011
			Perform Accelerated backhone and 3 phase assessment	Complete	Nov-11	3Q2011
			Install additional fusion on the circuit	Complete	Mar-12	4Q2011
5	Windsor	00797-4	Forestry to perform on cycle comprehensive circuit Tree Trimming	To be completed in 2012		1Q2012
			Perform accelerated circuit reliability assessment of backbone	To be completed in 2012		
			Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		

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

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			AT the test which a contraction of the state		Remedial	Appoared in 4
Star Souries					√ Work 🤤	
Rank	Substation %	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Completed	, or o, ordanters
			Performance driven by non-preventable trees which contributed 70% of circuit minutes			
			Perform SAIEL analysis initiative study	Complete	lan-11	
			Perform accelerated backbone and 3 phase assessment	Complete	Mar-11	100010
			Forestry to perform off cycle natrol and trim	Complete	Apr-11	402010
			Replace current limiting fuses on step transformers	Complete	Mar-11	102011
6	Fox Hill	00816-3	Install Fault indicators	Complete	Mar-11	202011
			Study automation of sectionalizer on circuit	Complete	Sep-11	402011
			Perform accelerated backbone and 3 phase assessment	Complete	Jan-12	402011
			Correct fuse miscoordinations identified during SAIFI analysis	Complete	Mar-12	102012
			Replace sectionalizer with SCADA switch	Complete	Mar-12	
			Forestry to perform on cycle comprehensive circuit free trimming	To be completed in 2012		
			Performance driven by a storm related conductor problem that broke a cutout accounting for 49%	of circuit minutes, and 43%	of circuit	
			minutes due to trees during the 5/26/11 tomado / storm.			
			Install a total of 19 ECL at 7 locations on the circuit	Complete	.iul-11	
			Perform accelerated circuit reliability assessment of mainline	Complete	Nov-11	402010
ļ			Perform accelerated circuit reliability assessment of 3 phase	Complete	Nov-11	302011
7	Mountain	00740-4	Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011	Complete	Nov-11	402011
			Install sectionalizers at two locations	Complete	Jan-12	102012
			Perform accelerated circuit reliability assessment of mainline	Complete	Mar-12	
			Perform accelerated circuit reliability assessment of 3 phase	Complete	Mar-12	
			Replace/Repair high priority items identified during circuit patrol	To be completed in 2012		
			Performance driven by the 5/26/11 tornado / storm which accounted for 47% of circuit minutes and	d related oost storm inciden	ts	
			accounted for 44% of circuit minutes			
			Perform post storm accelerated circuit reliability assessment of mainline - Post Storm	Complete	Jun-11	-
			Perform post storm accelerated circuit reliability assessment of 3 phase - Post Storm	Complete	Jun-11	000044
			Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011	Complete	Jun-11	202011
8	Mountain	00743-4	Install 2 FCI at one location	Complete	Nov-11	302011
			Change recloser settings to improve downstream coordination of protective devices	Complete	Dec-11	402011
			Replace recloser damaged during storm	Complete	Jan-12	
			Perform accelerated circuit reliability assessment of mainline	Complete	Mar-12	1
			Perform accelerated circuit reliability assessment of 3 phase	Complete	Mar-12	
			Replace/Repair high priority item identified during circuit patrol	To be completed in 2012		1
			Performance driven by two vehicle accidents (61%), and a trees non-preventable outage (18%)	·		
		-	Install additional mainline fault indicators	Complete	Jun-11	1
			Perform accelerated 3 phase assessment.	Complete	Nov-11	1Q2011
	Dinging Dacks	00709 1	Perform accelerated backbone assessment	Complete	Nov-11	2Q2011
9	runging rocks	00700-1	Perform engineering SAIFI improvement study	Complete	Dec-11	4Q2011
			Install additional mainline recloser	Complete	Mar-12	1Q2012
			Complete forestry assessment of 3 phase for SAIFI analysis	To be completed in 2012		1
			Install additional mainline tap fuses	To be completed in 2012		]

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Status         Constant         Permetalia Notatisi         Permetalisis	Met-Ed:		4	n na na manana na ma Na manana na		4 . 4	्र जिन्द्र स्टि
Remit         Substitution         Critical Particular Planeted of Takan         Statis of Remedial Work         Complete         Of Cularity           10         Mountain         Performance diven by tress at 77% of circuit minutes (the 37470 Tamado / storm at 55% of circuit minutes)						Remedial Work	Appeared in 4
10         Mountain         Performance driven by trees at 77% of circuit minutes (the 576/10 formado / storm at 55% of circuit minutes).	Rank	Substation	Circuit	Remedial Action Planned of Taken	Status of Remedial Work	Completed	of 6 Quarters
Perform SAFE analysis initialitie study         Complete         Jan-11 Gameeing and Possity Perform ancelerated circuit reliability assessment of mainline Perform accelerated circuit reliability assessment of phase         Complete         Mar-11 Mar-11         202011           10         Mountain         007444         Installed new single phase ting and lockout decloser, 74422, identified in SAFE/Analysis         Complete         Mar-11         202011           11         Mountain         007444         Install Fold constructions (Social Construct) (Social Constr				Performance driven by trees at 77% of circuit minutes (the 5/26/10 tomado / storm at 55% of circu	iit minutes).		
10         Mountain         Engineening and Porestry Perform mainline wegetation assessment         Complete         Jan-11           10         Mountain         0074-4         Ferform accelerated (circuit reliability assessment) of analine         Complete         Mar-11         202011           11         Bernite         0074-4         Installer drew single phase in and lockout recloser, 7442, identified in SAFI Analysis         Complete         May-11         302011           11         Bernite         0074-4         Installer drew single phase in and lockout recloser, 7442, identified in SAFI Analysis         Complete         Our-11         302011           10         Mountain         0074-4         Install FCI disording in SAFI Analysis         Complete         Our-11         302011           11         Install rew 300A disconnect switches identified in SAFI Analysis         Complete         Mou-11         102012           11         Testall rew 500A disconnect switches identified in SAFI Analysis         Complete         Mou-11         102012           11         Bernital contrained binding assessment of analine recloser         Complete         Mou-11         102011           12         Vindsor         0076-1         Regione mainline recloser and move it to a more effective location         Complete         Mou-11         202010           12				Perform SAIFI analysis initiative study	Complete	Jan-11	ĺ
Perform accelerated circuit reliability assessment of aphase         Complete         Mar-11 Nar-11           10         Mountain         0074-4         Installed new single phase tip and lockout recioes; 7442. identified in SAFI Analysis         Complete         Mar-11         202011           10         Mountain         0074-4         Installed new single phase tip and lockout recioes; 7442. identified in SAFI Analysis         Complete         May-11         202011           11         Installed new single phase tip and lockout recioes; 7442. identified in SAFI Analysis         Complete         May-11         202011           12         Vintain         0074-4         Installe new Solos disconned structures identified in SAFI Analysis         Complete         Nov-11         102012           11         Bemville         0078-6         Repleted circuit reliability assessment of single phase - Regulatory Required 2011         Complete         Nov-11         102012           11         Bemville         0078-6         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         May-11         12012           11         Bemville         00786-6         Perform accelerated backone assessment of single phase - Regulatory Required 2011         Complete in SAFI Analysis         Complete in SAFI Analysis         120212           11         Regize mainline rec				Engineering and Forestry Perform mainline vegetation assessment	Complete	Jan-11	
Image: Perform accelerated circuit reliability assessment of 3 phase         Complete         Mar:11         202011           10         Mountain         007444         Installed new single phase trip and lockout recloser, 7442, identified in SAIF/ Analysis         Complete         May:11         322011           11         Install FCI dampsis - 11 cociting in SAIF/ Analysis         Complete         May:11         322011           12         Windson         Perform accelerated circuit reliability assessment of a phase         Complete         Mountain         Maintain         Alignment         Alignment         Alignment         322011				Perform accelerated circuit reliability assessment of mainline	Complete	Mar-11	
10         Mountain         Installed new single phase trip and lockour recloser, 7442, identified in SAFI Analysis         Complete         May-11         222011           10         Mountain         007444, finstalled new single phase trip and lockour recloser, 7442, identified in SAFI Analysis         Complete         JMay-11         302011           11         Install FCI Identified in SAFI Analysis         Install new 30 do disconnets witches Identified in SAFI Analysis         Complete         Nov11           12         GOAB Inspectitors (8) identified in SAFI Analysis         Complete         Nov11         Perform accelerated circuit reliability assessment of analysis         Complete         Nov11           11         Bernvite         Perform accelerated circuit reliability assessment of analysis         Complete         May-11         102012           11         Bernvite         Perform accelerated circuit reliability assessment of analysis         Complete         May-11           11         Bernvite         Offset         May-11         Name analysis         Complete         May-11           11         Bernvite         Offset         SAFI Analysis         Complete         May-11         102012           11         Bernvite         Offset         Perform accelerated backone assessment         Complete         May-11         102011	'			Perform accelerated circuit reliability assessment of 3 phase	Complete	Mar-11	
10         Mountain         00744. Install FC leaded new single phase trip and lockout recloser, 74472, identified in SAIF / Analysis         Complete         May -11         302011           11         Install FC leaded new single phase trip and lockout recloser, 74472, identified in SAIF / Analysis         Complete         Out-11         102012           11         Install new 500A disconnect switches identified in SAIF / Analysis         Complete         Novi11         102012           11         Install new 500A disconnect switches identified in SAIF / Analysis         Complete         Novi11         102012           12         Perform accelerated circuit reliability assessment of single phase - Regulatory Reg				Installed new single phase trip and lockout recloser, 74492, identified in SAIFI Analysis	Complete	May-11	2Q2011
13     Nomenan     Nomenan     Nomenan     Additional mainter provide seases ment     Complete     Jun-11     422011       11     Instati new 30 phase fusions (sidentified in SAIFI Analysis     Complete     Nov-11     Nov-11     122012       GOAB inspections (b) identified in SAIFI Analysis     Complete     Nov-11     Nov-11     122012       GOAB inspections (b) identified in SAIFI Analysis     Complete     Nov-11     122012       Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011     Complete     Mar-12       Perform accelerated circuit reliability assessment of a phase     Complete     Mar-12       Instati are 30 phase fusions     Complete     Mar-12       Perform accelerated circuit reliability assessment of a phase     Complete     Mar-12       Instati are 30 phase     Complete     Mar-12       Perform accelerated circuit reliability assessment     Complete     Mar-12       Instati are 30 phase     Complete     Mar-12       11     Bernville     007861     Reptoe mainline etcloser     Complete     Mar-12       11     Replace mainline etcloser     Complete     Jun-11     422010       11     Replace mainline etcloser     Complete     Mar-12       11     Replace mainline etcloser     Complete     Jun-12	10	Mountain	00744_4	Installed new single phase trip and lockout recloser, 74472, identified in SAIFI Analysis	Complete	May-11	3Q2011
11         Berwite         Install new 600A disconnect switches identified in SAIF! Analysis         Complete         Nov-11         12012           11         GAB Inspections (0) identified in SAIF! Analysis         Complete         Nov-11		wountain	00744-4	Install FCI identified in SAIFI Analysis - 1 location total of 3 FCI	Complete	Jun-11	4Q2011
Image: Install new 3 phase tuses identified in SAIF1 Analysis         Complete         Nov-11           GOAB inspections (8) identified in SAIF1 Analysis         Complete         Nov-11           Perform accelerated circuit reliability assessment of angle phase . Regulatory Required 2011         Complete         Nov-11           Perform accelerated circuit reliability assessment of 3 phase         Complete         Mar-12           Perform accelerated circuit reliability assessment of 3 phase         Complete         Mar-12           Install 3dHional mainine fault indicators 2 locations         Complete         Mar-12           Install 3dHional mainine recloser         Complete         Mar-12           Perform accelerated backbone assessment         Complete         Dec-11         402010           Install 3dHional mainine recloser         Complete         Mar-12         202011           Install adHional mainine recloser         Complete         Mar-12         202011           Install adHional mainine recloser         To be completed in 2012         102012         202011           Install adHional mainine recloser         To be completed in 2012         102012         202011           Install adHional mainine recloser         To be completed in 2012         102012         202011           Install adHional mainine proclan cuoutouts with polymer cuouts         To be com				Install new 600A disconnect switches identified in SAIFI Analysis	Complete	Oct-11	1Q2012
11         Berwille         GOAB inspections (8) identified in SAFI Analysis         Complete         Nov11           11         Berwille         Perform accelerated circuit reliability assessment of mainline         Complete         Mar.12           11         Berwille         Perform accelerated circuit reliability assessment of mainline         Complete         Mar.12           11         Berwille         Perform accelerated circuit reliability assessment of a phase         Complete         Mar.12           11         Berwille         Order to the to the to the one end one effective location         Complete         Mar.12           11         Berwille         Order to the tother to the one effective location         Complete         Dec.11           11         Berwille         Order tother tothe tother tother tother tother tother tother tother tot				Install new 3 phase fuses identified in SAIFI Analysis	Complete	Nov-11	
Image: Perform accelerated circuit reliability assessment of single phase - Regulatory	1			GOAB Inspections (8) identified in SAIFI Analysis	Complete	Nov-11	
Image: Perform accelerated circuit reliability assessment of mainline         Complete         Mar:12           Perform accelerated circuit reliability assessment of a phase         Complete         Mar:12           Perform accelerated circuit reliability assessment of a phase         Complete         Mar:12           Install 3PH mainline fault indicators 2 locations         Complete         May:11           Replace mainline recloser         Complete         Dec.11           Perform accelerated bickhone assessment 3         Complete         Dec.11           Perform accelerated backhone assessment 3         Complete         Dec.11           Perform accelerated backhone assessment 3         Complete         Dec.11           Perform accelerated backhone assessment 3         Complete         Mar:12           Perform accelerated backhone assessment 3         Complete         Mar:12           Perform accelerated backhone assessment 3         Complete         Mar:12           202010         Install additional mainline recloser         Complete         Mar:12           Perform accelerated backhone assessment 4         To be completed in 2012         102012           Install additional mainline recloser         To be completed in 2012         102012           Install additional mainline recleare         To be completed in 2012         102012				Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011	Complete	Nov-11	
11         Perform accelerated circuit reliability assessment of 3 phase         Complete         Mar-12           11         Performance driven by ino trees non-preventable (51%) outages and an outage caused by ightining (28%). Install 3PH mainline fault indicators 2 locations         Complete         May-11           11         Bernville         007861         Performance driven by ino trees non-preventable (51%) outages and an outage caused by ightining (28%). Install additional mainline recloser         Complete         Dec.11         402010           11         Bernville         007861         Perform accelerated backbone assessment         Complete         Dec.11         402011           11         Bernville         007861         Perform accelerated backbone assessment         Complete Mar-12         302011           12         Vindsor         007861         Performance driven by wind cause (57% of minutes in one ovent caused by a tomaclo) and non-preventable tree cause outages (24% of minutes)         402010           12         Vindsor         007964         Performance driven by wind cause (57% of minutes in one ovent caused by a tomaclo) and non-preventable tree cause outages (24% of minutes)         402010           12         Vindsor         007964         Performance driven by wind cause (57% of minutes in one ovent caused by a tomaclo) and non-preventable tree cause outages (24% of minutes)         402010           12         Vindsor         0				Perform accelerated circuit reliability assessment of mainline	Complete	Mar-12	
11         Berwille         Performance driven by two trees non-preventable (51%) outages and an outage caused by lightning (28%).         May 11           11         Berwille         Install 3PH mainline fault indicators 2 locations         Complete         Bep1.11           11         Berwille         00786         Perform accelerated backbone assessment         Complete         Dec.11         402010           11         Berwille         00786         Perform accelerated backbone assessment         Complete         Dec.11         202011           12         Windsor         00786         Perform accelerated backbone assessment         Complete         Apr-12         302011           12         Windsor         00786         Perform accelerated backbone assessment         Complete         10121         102012           13         S. Nazareth         00785         Perform accelerated backbone and 3 phase assessment of 3 phase of 3 phase         10 be completed in 2012         102012           13         S. Nazareth         00803         Install adultined mainline top:         Berlorm an ccelerated circuit tellability assessment of 3 phase assessment         Complete in 2012         402011           13         S. Nazareth         00803         Perform Accelerated backbone and 3 phase assessment of backbone         To be completed in 2012         102011      <				Perform accelerated circuit reliability assessment of 3 phase	Complete	Mar-12	
11         Bernville         Install 3PH mainline fault indicators 2 locations         Complete         May-11 May-11           11         Bernville         Install additional mainline recloser and move it to a more effective location         Complete         Dec-11         402010           11         Bernville         00786-1         Perform engineering SAIF I improvement study         Complete         Dec-11         202011           11         Bernville         00786-1         Replace mainline crosser         Complete         Jan-12         302011           12         Windsor         Perform accelerated backbone assessment         Complete         Jan-12         302011           12         Windsor         Perform accelerated backbone assessment of 3 phase for SAIF I analysis         To be completed in 2012         102012           13         S. Nazaeth         O0786-1         Perform accelerated backbone and 3 phase assessment of 3 phase of the circuit         Complete in 2013         202011           13         S. Nazaeth         O0809-3         Perform accelerated backbone and 3 phase assessment         Complete in 2012         402010           14         Perform accelerated backbone and 3 phase assessment         Complete in 2012         402011           12         Windsor         Perform accelerated backbone and 3 phase assessesment         Comple				Performance driven by two trees non-preventable (51%) outages and an outage caused by lightning	(28%).		
11         Bemvilte         Replace mainline recloser and move it to a more effective location         Complete         Sept-11           11         Bemvilte         007861         Replace mainline recloser and move it to a more effective location         Complete         Dec-11         402010           11         Bemvilte         007861         Replace mainline recloser and move it to a more effective location         Complete         Dec-11         102011           11         Bemvilte         007861         Replace mainline processes sessesment         Complete         Mar-12         302011           Replace mainline crossam from backbone assessment         Complete         Mar-12         302011         302011           Replace mainline crossam from backbone assessment         Completed in 2012         To be completed in 2012         102012           Comprehensive Tree Timming         To be completed in 2012         To be completed in 2013         102012           12         Windsor         007954         Perform accelerated backbone assessment         Complete         Jul-11         302011           13         S. Nazaeth         00895         Perform accelerated circuit reliability assessment of 3 phase         GS% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a whicle accident no 3/14/	[		1	Install 3PH mainline fault indicators 2 locations	Complete	May-11	
Install additional mainline recloser         Complete         Dec-11         Q02010           11         Bernville         00786-1         Perform accelerated backbone assessment         Complete         Dec-11         102011           11         Bernville         00786-1         Replace mainline tap fusing         Complete         Jan-12         202011           11         Bernville         00786-1         Replace mainline tap fusing         Complete         Jan-12         202011           11         Replace mainline procelain cutouts with polymer cutouts         Complete         Apr-12         402010           11         Replace mainline crosserm from backbone assessment         Completed in 2012         102012           11         Install additional mainline tap fusing         To be completed in 2012         102012           11         Replace additional mainline porcelain cutouts with polymer cutouts         To be completed in 2012         102012           12         Windsor         00795-4         Perform Accelerated backbone and 3 phase assessment         To be completed in 2013         402010           12         Windsor         00795-4         Perform Accelerated backbone and 3 phase assessment         To be completed in 2012         402011           12         Windsor         00795-4         Perform Accelerate				Replace mainline recloser and move it to a more effective location	Complete	Sept-11	
11         Berwille         00786.1         Perform angineening SAIF i improvement study         Complete         Dec-11         402010           11         Berwille         00786.1         Perform accelerated backbone assessment         Complete         Jan-12         22011           11         Berwille         00786.1         Perform accelerated backbone assessment         Complete         Mar-12         302011           12         Windsor         To be completed in 2012         To be completed in 2012         102012           12         Windsor         Perform accelerated backbone assessment of 3 phase for SAIFI analysis         To be completed in 2012         102012           12         Windsor         Perform Accelerated backbone and 3 phase for SAIFI analysis         To be completed in 2013         402010           12         Windsor         Perform Accelerated backbone and 3 phase assessment         To be completed in 2013         402010           12         Windsor         Perform Accelerated backbone and 3 phase assessment         To be completed in 2012         402010           12         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         402010           12         Perform accelerated backbone and 3 phase assessment         To be completed in 2012         402011           12				Install additional mainline recloser	Complete	Dec-11	
11       Berwille       Install additional mainine tap fusing       Complete       Dec-11       102011         11       Berwille       007861       Replace mainline porcelain culouts with polymer cutouts       Complete       Jan-12       202011         11       Replace mainline porcelain culous with polymer cutouts       Complete       Mar-12       402011         12       Windsor       To be completed in 2012       To be completed in 2012       102012         12       Windsor       Perform accelerated backbone and 3 phase for SAIFI analysis       To be completed in 2013       102012         12       Windsor       00795-4       Perform accelerated backbone and 3 phase assessment       Complete       Jul-11       302011         13       S. Nazareth       0089-3       Install fault Indicators       Sinthe circuit Tee Trimming       To be complete       May-11         13       S. Nazareth       0089-3       Install fault Indicators       Complete       May-11       302011         13       S. Nazareth       0089-3       Install fault Indicators       Complete       May-11       302011         14       S. Nazareth       0089-3       Install fault Indicators       Complete       May-11       302011         14       S. Nazareth       0089-3				Perform engineering SAIFI improvement study	Complete	Dec-11	4Q2010
11       Berwille       007861       Perform accelerated backbone assessment       Complete       Jan-12       302011         Replace mainline porcelain cutouts with polymer cutouts       Complete       Mar-12       302011         Replace mainline crossam from backbone assessment       Complete       Mar-12       302011         Install additional mainline recloser       To be completed in 2012       Install additional mainline recloser       To be completed in 2012       Install additional mainline top fusing       Install additional mainline porcelain cutouts with polymer cutouts       To be completed in 2012       Install additional mainline porcelain cutouts with polymer cutouts       To be completed in 2013       Install additional mainline porcelain cutouts with polymer cutouts       To be completed in 2013       Install additional mainline porcelain cutouts with polymer cutouts       To be completed in 2013       Install fault functional mainline porcelain cutouts with polymer cutouts       Install fault functional mainline porcelain cutouts with polymer cutouts       To be completed in 2013       Install fault faul				Install additional mainline tap fusing	Complete	Dec-11	1Q2011
11       Definitive       00760 <sup>-1</sup> Replace mainline porcelain cutouts with polymer cutouts       Complete       Mar-12       3Q2011         Replace mainline crossarm from backbone assessment       Complete       Apr-12       4Q2011         Install additional mainline recloser       To be completed in 2012       102012         Install additional mainline recloser       To be completed in 2012       102012         Complete forestry assessment of 3 phase for SAIFI analysis       To be completed in 2013       102012         Replace additional mainline procelain cutouts with polymer cutouts       To be completed in 2013       102012         Comprehensive Tree Trimming       To be completed in 2013       402010         202011       Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-preventable tree cause outages (24% of minutes)       402010         202011       Perform Accelerated backbone and 3 phase assessment       Complete       Jul-11         12       Windsor       O07954       Perform Accelerated circuit reliability assessment of 3 phase       To be completed in 2012       402010         202011       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       402011         13       S. Nazareth       O08043       Replace driven by wind cause (36% of minutes), and a lightning strike on 9/28/11 (30% of minutes	11	Romvillo	00786 1	Perform accelerated backbone assessment	Complete	Jan-12	2Q2011
12     Windsor     Replace mainline crosserm from backbone assessment     Complete     Apr-12     4Q2011       12     Windsor     Performance driven by wind cause (57% of minutes) in one event caused by a tomado) and non-preventable tree cause outages (24% of minutes)     4Q2010     4Q2011       12     Windsor     Perform accelerated backbone and 3 phase assessment     Complete finestity assessment of 3 phase of the circuit Tree Trimming     To be completed in 2012     4Q2010       13     S. Nazareth     00809-3     Perform accelerated assessment on the circuit backbone and 3 phase assessment     Complete     Feb-11     202011       13     S. Nazareth     00809-3     Perform accelerated assessment on the circuit backbone and 3 phase assessment     Complete     Feb-11     202011       13     S. Nazareth     00809-3     Perform accelerated assessment on the circuit tree trimming     Complete     May-11     302011       13     S. Nazareth     00809-3     Perform accelerated assessment on the circuit backbone and 3 phase assessment     Complete     Feb-11     202011       13     S. Nazareth     00809-3     Perform accelerated assessment on the circuit backbone and 3 phase assessment     Complete     May-11     302011       14     Perform accelerated assessment on the circuit backbone and 3 phase assessment     Complete     May-11     302011       13     S. Nazareth	''	Demvile	00700-1	Replace mainline porcelain cutouts with polymer cutouts	Complete	Mar-12	3Q2011
12     Windsor     Install additional mainline recloser     To be completed in 2012 Install additional mainline tap fusing     To be completed in 2012 To be completed in 2013     10/2012       12     Windsor     OPF6-4     Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-preventable tree cause outages (24% of Forestry to perform on cycle comprehensive circuit Tree Trimming     40/2010 202011       13     S. Nazareth     Oefform accelerated backbone and 3 phase assessment of 31/2/12 (19% of minutes)     To be completed in 2012 Perform accelerated circuit reliability assessment of 3 phase of the circuit result indicators     Complete fore free     Jul-11       13     S. Nazareth     Oefform accelerated backbone and 3 phase assessment Forestry to perform accelerated circuit reliability assessment of the circuit result indicators     Complete     May-11       13     S. Nazareth     Oefform accelerated circuit reliability assessment of 3 phase accident on 3/16/12 (19% of minutes)     Complete     May-11       14     S. Nazareth     Oefform accelerated circuit reliability assessment of 3 phase     Complete     Yefform accelerated circuit the tree (36% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a vehicle       13     S. Nazareth     Oefform accelerated assessment on the circuit backbone and 3 phase assessment     Complete     Feb-11       143     S. Nazareth     Oefform accelerated backbone and 3 phase assessment     Complete     May-11       143     S.				Replace mainline crossarm from backbone assessment	Complete	Apr-12	4Q2011
12       Install additional mainline tap fusing       To be completed in 2012 Complete forestry assessment of 3 phase for SAIF i analysis       To be completed in 2012 To be completed in 2013         12       Windsor       Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-preventable tree cause outages (24% of minutes)       402010 202011         12       Windsor       Perform Accelerated backbone and 3 phase assessment Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012 To be completed in 2012       402010 202011         13       S. Nazareth       00809-3       Performance was driven by non-preventable trees (36% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a vehicle accident on 3/16/12 (19% of minutes)       202011 102012         13       S. Nazareth       00809-3       Perform accelerated circuit teliability assessment of a phase of the circuit Install fault Indicators       Complete Nov-11       202011 302011         13       S. Nazareth       00809-3       Perform accelerated assessment on the circuit backbone and 3phase of the circuit Install Fault Indicators       Complete Nov-11       202011 302011         13       S. Nazareth       00809-3       Install Fault Indicators       Complete Nov-11       202011 402012         14       Perform SAIFI analysis initiative study       Complete Nov-11       Complete Nov-11       202011 402012         13       S. Nazareth				Install additional mainline recloser	To be completed in 2012		1Q2012
12       Windsor       Complete forestry assessment of 3 phase for SAIFI analysis       To be completed in 2012 To be completed in 2013         12       Windsor       Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-preventable tree cause outages (24% of minutes)       4Q2010 2Q2011         12       Windsor       Perform Accelerated backbone and 3 phase assessment Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012       4Q2010 2Q2011         12       Perform Accelerated circuit reliability assessment       Complete circuit reliability assessment       Complete cause outages (24% of minutes)       4Q2010 2Q2011         13       S. Nazareth       Perform Accelerated circuit reliability assessment of 3 phase assessment Forestry to perform on cycle comprehensive circuit backbone and 3phase of the circuit Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       4Q2011         13       S. Nazareth       Performacce was driven by non-preventable trees (36% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a vehicle accident on 3/16/12 (19% of minutes)       2Q2011 102012         13       S. Nazareth       Perform Accelerated assessment on the circuit backbone and 3phase of the circuit Install Fault Indicators       Complete       May-11 302011         13       S. Nazareth       Perform Accelerated backbone and 3 phase assessment       Complete       May-11 302011         13				Install additional mainline tap fusing	To be completed in 2012		
Replace additional mainline porcelain cutouts with polymer cutouts       To be completed in 2013         Comprehensive Tree Trimming       To be completed in 2013         12       Windsor       Perform Accelerated backbone and 3 phase assessment       Completed in 2012       402010         12       Windsor       00795-4       Perform Accelerated backbone and 3 phase assessment       Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012       402010         13       S. Nazareth       0089-3       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       402011         13       S. Nazareth       0089-3       Install Fault Indicators       Complete       May-11       302011         13       S. Nazareth       0089-3       Install Fault Indicators       Complete       May-11       302011         14       S. Nazareth       0089-3       Install Fault Indicators       Complete       May-11       302011         13       S. Nazareth       0089-3       Install Fault Indicators       Complete       May-11       302011         14       Ferform accelerated backbone and 3 phase assessment       Complete       May-11       302011         13       S. Nazareth       0080-3       Install Fault Indicators       Complete <t< td=""><td></td><td></td><td></td><td>Complete forestry assessment of 3 phase for SAIFI analysis</td><td>To be completed in 2012</td><td></td><td></td></t<>				Complete forestry assessment of 3 phase for SAIFI analysis	To be completed in 2012		
Image: Comprehensive Tree Trimming       To be completed in 2013         12       Windsor       Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-preventable tree cause outages (24% of minutes)       4Q2010         12       Windsor       Perform Accelerated backbone and 3 phase assessment       Complete       Jul-11       3Q2011         12       Windsor       Perform Accelerated backbone and 3 phase assessment       To be completed in 2012       4Q2010         13       S. Nazareth       Perform accelerated circuit reliability assessment of backbone and 3 phase assessment of 3 phase       To be completed in 2012       4Q2011         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11         14       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       May-11         1302011       Install fault Indicators </td <td></td> <td></td> <td></td> <td>Replace additional mainline porcelain cutouts with polymer cutouts</td> <td>To be completed in 2013</td> <td></td> <td></td>				Replace additional mainline porcelain cutouts with polymer cutouts	To be completed in 2013		
12       Windsor       Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-preventable tree cause outages (24% of minutes)       4Q2010         12       Windsor       Perform Accelerated backbone and 3 phase assessment       Complete       Jul-11       3Q2011         13       S. Nazareth       Perform accelerated circuit reliability assessment of backbone and 3 phase assessment       To be completed in 2012       4Q2010       2Q2011         13       S. Nazareth       Perform accelerated circuit reliability assessment of backbone and 3 phase assessment of backbone and 3 phase of the circuit       Complete       Feb-11       2Q2011         13       S. Nazareth       00809-3       Perform accelerated assessment on the circuit backbone and 3 phase assessment       Complete       May-11       3Q2011         13       S. Nazareth       00809-3       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       2Q2011         13       S. Nazareth       00809-3       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       May-11       3Q2011         14       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       May-11       3Q2011         13       S. Nazareth       00809-3       Install fault Indicators       Comple				Comprehensive Tree Trimming	To be completed in 2013		
12       Windsor       007954       minutes) Perform Accelerated backbone and 3 phase assessment       Complete       Jul-11       302011         12       Windsor       007954       Perform Accelerated backbone and 3 phase assessment       To be completed in 2012       402011       402011       402011       402011       402011       402011       402011       402011       402011       402011       402012       402011       402011       402011       402011       402012       402011       402012       402011       402012       402011       402011       402012       402011       402012       402011       402012       402011       402012       402011       402012       402011       402011       402012       402011       402012       402011       402012       402011       402011       402012       402011       402012       402011       402012       402011		_		Performance driven by wind cause (57% of minutes in one event caused by a tomado) and non-pre	ventable tree cause outage	s (24% of	402010
12       Windsor       00795-4       Perform Accelerated backbone and 3 phase assessment       Complete       Jul-11       302011         12       Windsor       Perform Accelerated backbone and 3 phase assessment       To be completed in 2012       302011       402011       302011         Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       To be completed in 2012       402011         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       102012       102012         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       302011         13       S. Nazareth       00809-3       Perform accelerated backbone and 3phase assessment       Complete       Feb-11       302011         14       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       May-11       302011         13       S. Nazareth       00809-3       Perform accelerated backbone and 3phase assessment       Complete       Feb-11       302011         14       Perform accelerated backbone and 3phase assessment       Complete       Nov-11       402011         102012       Perform accelerated backbone and 3 phase assessment       Complete       Nov-11       402011				minutes)			202011
13       S. Nazareth       Perform accelerated backbone and 3 phase assessment       To be completed in 2012 To be completed in 2012 To be completed in 2012       4Q2011 4Q2011 1Q2012         13       S. Nazareth       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       4Q2011 1Q2012         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11 102012       2Q2011 102012	12	Windsor	00795-4	Perform Accelerated backbone and 3 phase assessment	Complete	Jul-11	302011
Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       102012         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       202011         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       202011         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       202011         14       Install fault Indicators       Complete       May-11       302011       302011       302011         14       Perform accelerated backbone and 3 phase assessment       Complete       Nov-11       402011         102012       Perform accelerated backbone and 3 phase assessment       Complete       Feb-12       402011         102012       Perform accelerated backbone and 3 phase assessment       Complete       May-12       402011         102012       Perform accelerated backbone and 3 phase assessment       Complete       May-12       402011         102012       Perform accelerated backbone and 3 phase assessment       To be completed in 2012 <td< td=""><td>]</td><td></td><td></td><td>Forestry to perform on cycle comprehensive circuit Tree Trimming</td><td>To be completed in 2012</td><td></td><td>402011</td></td<>	]			Forestry to perform on cycle comprehensive circuit Tree Trimming	To be completed in 2012		402011
13     S. Nazareth     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     Automatical accident on 2012       13     S. Nazareth     Performance was driven by non-preventable trees (36% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a vehicle accident on 3/16/12 (19% of minutes)     2Q2011       13     S. Nazareth     Perform accelerated assessment on the circuit backbone and 3phase of the circuit     Complete     Feb-11       13     S. Nazareth     Perform accelerated assessment on the circuit backbone and 3phase of the circuit     Complete     May-11       13     Perform accelerated assessment on the circuit backbone and 3phase of the circuit     Complete     Nov-11       13     Perform accelerated assessment on the circuit backbone and 3phase of the circuit     Complete     May-11       14     Install fault Indicators     Complete     Nov-11       14     Perform accelerated backbone and 3 phase assessment     Complete     Dec-11       102012     Perform accelerated backbone and 3 phase assessment     Complete     Feb-12       102012     Perform accelerated backbone and 3 phase assessment     Complete     Mar-12       102012     Install SCADA controlled switch     To be completed in 2012     Mar-12				Perform accelerated circuit reliability assessment of backbone	To be completed in 2012	•	102012
13       S. Nazareth       Performance was driven by non-preventable trees (36% of minutes), and a lightning strike on 9/28/11 (30% of minutes), and a vehicle accident on 3/16/12 (19% of minutes)       2Q2011         13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       2Q2011         13       S. Nazareth       Install fault Indicators       Complete       May-11       3Q2011         13       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       May-11       3Q2011         13       Install fault Indicators       Complete       Nov-11       4Q2011         14       Perform accelerated backbone and 3 phase assessment       Complete       Dec-11         14       Perform accelerated backbone and 3 phase assessment       Complete       Feb-12         Perform accelerated backbone and 3 phase assessment       Complete       Feb-12         Forestry to perform on cycle comprehensive circuit tree trimming       Complete       Mar-12         Install SCADA controlled switch       To be completed in 2012       Mar-12				Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		TOLEGIE
13       S. Nazareth          accident on 3/16/12 (19% of minutes) Perform accelerated assessment on the circuit backbone and 3phase of the circuit Install fault Indicators Install Fault Indicators Perform accelerated backbone and 3phase of the circuit Install Fault Indicators Perform SAIF1 analysis initiative study Perform accelerated backbone and 3 phase assessment Perform on cycle comprehensive circuit tree trimming Install SCADA controlled switch To be completed in 2012				Performance was driven by non-preventable trees (36% of minutes), and a lightning strike on 9/28/	11 (30% of minutes), and a	vehicle	
13       S. Nazareth       Perform accelerated assessment on the circuit backbone and 3phase of the circuit       Complete       Feb-11       2Q2011         13       S. Nazareth       Install fault Indicators       Complete       May-11       3Q2011         13       Nazareth       Install Fault Indicators       Complete       Nov-11       4Q2011         14       Perform SAIF1 analysis initiative study       Complete       Dec-11       1Q2012         Perform accelerated backbone and 3 phase assessment       Complete       Feb-12       1Q2012         Forestry to perform on cycle comprehensive circuit tree trimming       Complete       Mar-12         Install SCADA controlled switch       To be completed in 2012       Install SCADA controlled switch				accident on 3/16/12 (19% of minutes)			
13     S. Nazareth     Install fault Indicators     Complete     May-11     3Q2011       13     S. Nazareth     Install Fault Indicators     Complete     Nov-11     4Q2011       Perform SAIF1 analysis initiative study     Perform accelerated backbone and 3 phase assessment     Complete     Dec-11     1Q2012       Perform accelerated backbone and 3 phase assessment     Complete     Feb-12     1Q2012       Forestry to perform on cycle comprehensive circuit tree trimming     Complete     Mar-12       Install SCADA controlled switch     To be completed in 2012     1	•			Perform accelerated assessment on the circuit backbone and 3phase of the circuit	Complete	Feb-11	202011
13     S. Nazareth     00809-3     Install Fault indicators     Complete     Nov-11     4Q2011       Perform SAIF1 analysis initiative study     Complete     Dec-11     1Q2012       Perform accelerated backbone and 3 phase assessment     Complete     Feb-12       Forestry to perform on cycle comprehensive circuit tree trimming     Complete     Mar-12       Install SCADA controlled switch     To be completed in 2012     Install SCADA				Install fault Indicators	Complete	May-11	302011
Perform SAIF1 analysis initiative study     Complete     Dec-11       Perform accelerated backbone and 3 phase assessment     Complete     Feb-12       Forestry to perform on cycle comprehensive circuit tree trimming     Complete     Mar-12       Install SCADA controlled switch     To be completed in 2012	13	S. Nazareth	00809-3	Install Fault Indicators	Complete	Nov-11	402011
Perform accelerated backbone and 3 phase assessment     Complete     Feb-12       Forestry to perform on cycle comprehensive circuit tree trimming     Complete     Mar-12       Install SCADA controlled switch     To be completed in 2012				Perform SAIFI analysis initiative study	Complete	Dec-11	102012
Forestry to perform on cycle comprehensive circuit tree trimming         Complete         Mar-12           Install SCADA controlled switch         To be completed in 2012				Perform accelerated backbone and 3 phase assessment	Complete	Feb-12	
Install SCADA controlled switch To be completed in 2012				Forestry to perform on cycle comprehensive circuit tree trimming	Complete	Mar-12	1
				Install SCADA controlled switch	To be completed in 2012		1

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2 2			, , , , , , , , , , , , , , , , , , ,	•	Remedial: *	A nining word time At
					Work	Appeareu m -
калк	Substation		Remedial Action Planned or Taken	Status of Remedial Work	Completed	
			Performance driven by the 5/26/11 tomado / storm which accounted for 84% of circuit minutes.		<u>.</u>	
			Perform accelerated circuit reliability assessment of mainline - Post Storm	Complete	Jun-11	
			Perform accelerated circuit reliability assessment of 3 phase - Post Storm	Complete	Jun-11	202011
			Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011	Complete	Jun-11	302011
14	Mountain	00742-4	Forestry to perform tree inspection in worst hit part of circuit - Post Storm	Complete	Jun-11	402011
			Forestry removed 3 danger trees as result of post storm inspection	Complete	Jun-11	102012
			Perform accelerated circuit reliability assessment of mainline	Complete	Mar-12	- GROTE
			Perform accelerated circuit reliability assessment of 3 phase	Complete	Mar-12	
	<u> </u>		Replace/Repair high priority items identified during circuit patrol	To be completed in 2012		
			Performance was primarily driven by tree caused outages (13%), wind caused damage (57%) and v	ehicle accidents (24%)		
			Install fault indicators 4 locations	Complete	Sep-11	
15	North Lebanon	00715-2	Forestry Patrol of Backbone and all of 3-Phase beyond recloser 71512	To be completed in 2012		
4			Perform accelerated backbone and 3 phase circuit assessment	To be completed in 2012		
4			Replace deteriorated crossarm	To be completed in 2012		
)			Replace deteriorated crossam	To be completed in 2012		
	•		Performance driven by wind cause (71% of minutes caused by a tornado.			·
			Perform accelerated circuit reliability assessment of backbone	Complete	Jan-11	
			Perform accelerated circuit reliability assessment of 3 phase	Complete	Jan-11	<i>ب</i> ه
16	Taxville	00573-4	Perform accelerated 3 phase assessment	Complete	Jan-11	
			Perform accelerated backbone assessment	Complete	Jan-11	
			Perform accelerated circuit reliability assessment of backbone	Complete	Mar-12	
			Perform accelerated circuit reliability assessment of 3 phase	Complete	Mar-12	•
			Install an additional reclosers to protect the circuit 3 phase	To be completed in 2012		
			Performance driven by trees non-preventable outages (77%)			
			Perform SAIFI analysis initiative study	Complete	Jan-11	
			Replace Mainline Tie-Switch (tree damaged)	Complete	Feb-11	
			Perform accelerated backbone assessment	Complete	Mar-11	
			Perform accelerated 3 phase assessment	Complete	Mar-11	
			Forestry to perform off cycle patrol and trim	Complete	May-11	402010
			Replace fuses to improve tap coordination	Compiete	Jun-11	402010
17	Birdsboro	00756-1	Repair high priority items (riser, crossam, riser) identified during circuit assessment	Complete	Jul-11	302011
			Repair additional high priority items (crossarm, insulator) identified during crt assessment	Complete	Nov-11	402011
			Replace crossarm from circuit assessment	Complete	Dec-11	102012
			Implement proactive every-other-month mainline forestry inspection	Complete	Jan-12	1022012
			Proactive every-other-month mainline forestry inspection	Complete	Jan-12	
			Spot mainline tree trimming and removals	Complete	Jan-12	
			Proactive every-other-month mainline forestry inspection	Complete	Mar-12	
			Spot mainline tree trimming and removals	To be completed in 2012		
			Upgrade mainline disconnects to GOAB	To be completed in 2013		
			Performance driven by a crossarm and a switch problem (73%)			
j l			Replace mainline crossarm	Complete	Sept-11	
			Repair mainline switch	Complete	Oct-11	
18	Bernville	00787-1	Mainline forestry spot tree trimming and removal	Complete	Dec-11	
		"	Perform accelerated 3 phase and backbone assessment	Complete	Dec-11	
			Replace crossarms from circuit assessment	Complete	Apr-12	
		' I	Replace arresters mainline recloser	To be completed in 2012		
			Comprehensive Tree Trimming	To be completed in 2013		

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	۶ ۱			·	Remedial	Appeared in 4
Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Completed	of 6 Quarters
			Performance driven by two outages caused by insulator problems (42%) and two trees non-preventa	ble outages (30%).		
			Install mainline fault indicators 3 locations	Complete	Jan-11	
			Perform accelerated 3 phase assessment	Complete	Nov-11	
			Perform accelerated backbone assessment	Complete	Nov-11	
			Install additional mainline fault indicators	Complete	Dec-11	4Q2010
			Implement proactive every-other-month mainline forestry inspection	Complete	Jan-12	1Q2011
			Proactive every-other-month mainline forestry inspection	Complete	Jan-12	202011
19	Birdsboro	00/5/-1	Spot mainline tree trimming and removals	Complete	Jan-12	3Q2011
			Perform engineering SAIFI improvement study	Complete	Feb-12	4Q2011
			Replace primary underground cable and submersibles in Maple Springs URD	Complete	Mar-12	1Q2012
			Proactive every-other-month mainline forestry inspection	Complete		
			Spot mainline tree trimming and removals	To be completed in 2012		
			Complete forestry assessment of 3 phase for SAIFI analysis	To be completed in 2012		
			Upgrade mainline disconnects to GOAB	To be completed in 2012		
			Circuit performance was driven by non-preventable tree cause outages (47% of minutes and tomade	o (28% of minutes)	=	
			Perform Accelerated backbone and 3 phase assessment	Complete	Dec-11	
20	\Alimda an	00706 4	Install additional fusing on the circuit	Complete	Mar-12	
20	vvindsor	00790-4	Perform accelerated circuit reliability assessment of backbone	To be completed in 2012		,
			Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		
			Forestry to perform on cycle comprehensive circuit Tree Trimming	To be completed in 2012		
			Performance was driven by non-preventable tree cause outages (50% of the minutes)			
			Perform Accelerated single phase assessment	Complete	Oct-10	
21	Newberry	00577-4	Perform Accelerated backbone and 3 phase assessment	Complete	Jun-11	
_,			Perform accelerated circuit reliability assessment of backbone	To be completed in 2012		
			Perform mid-cycle forestry patrol	To be completed in 2012		
			Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		
			Performance was primarily driven by vehicle accidents (74%) and an outage of unknown origin (11%			
			Perform accelerated backbone assessment	To be completed in 2012		
22	Swatara Hill	00764-2	Perform accelerated backbone and 3 phase circuit assessment	To be completed in 2012		
			Replace deteriorated crossarm	To be completed in 2012		
			Replace deteriorated crossarm	To be completed in 2012		
	1		Performance driven by two trees non-preventable (38%) outages, and an outage caused by a prima	ry conductor problem (32%	<u>}</u>	
			Install additional mainline fusing	Complete	Feb-11	
			Perform Faulted Circuit Indicator Installation Engineering Study	Complete	Aug-11	
23	Lynnville	00737-1	Perform mid-cycle forestry patrol.	Complete	Dec-11	
			Perform accelerated 3 phase assessment	Complete	Dec-11	
			Perform accelerated backbone assessment	Complete	Dec-11	
			Install OH Fault Indicators at 9 Locations	Complete	Dec-11	
			Performance driven by an outage caused by an arrester problem (35%), and outages caused by ligh	tning(30%)and a vehicle ac	cident(13%)	j l
			Perform accelerated 3 phase assessment	Complete	Jun-11	
24	Friedensburg	00769-1	Perform accelerated single phase assessment	Complete	Jun-11	ļ ļ
			Install additional OH Fault indicators at 5 locations.	Complete	Jun-11	
			Install fuse/bypass on mainline	Complete	Oct-11	
1			Replace crossams from circuit assessment	Complete	Feb-12	

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				х. х	Remedial* Wôřk	Appeared (in 4
Rank 🗧	Substation	Circuit~	Remedial Action Planned or Taken	Status of Remedial Work	Completed	of 6'Quarters
		ľ	Performance driven by trees at 49% of circuit minutes; and a forced circuit lock out for a restricted	fault condition for 24% of	sircuit	<u></u>
25	Gardners	00752-4	Forestry to perform on cycle comprehensive circuit tree trim in 2011	Complete	Sep-11	
25	Gardiers	00732-4	Perform accelerated circuit reliability assessment of mainline	To be completed in 2012	•	
			Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		
			Performance was primarily driven by conductor failure (69%), equipment failure (21%) and forced ou	itages (8%)		
		ļ	Accelerated circuit assessment 3 phase	Complete	May-11	
		1	Perform accelerated backbone assessment	Complete	May-11	
26	Annville	00744-2	Comprehensive Tree Trimming	Complete	May-11	
ļ		ļ	Install Fault Indicators 5 locations	To be completed in 2012		Į. į
			Replace arresters as Switch 74469	To be completed in 2012		
			Replace Switch 74466	To be completed in 2012		
			Performance was driven by non-preventable trees. With 54% of circuit minutes due to single storm	on 7/7/11		
			Perform accelerated 3 phase assessment	Completé	Apr-11	1
27	Shawnee	00837-3	Install telemetered fault indicators on radio controlled switch	Complete	Nov-11	1
			Forestry to perform on cycle comprehensive circuit tree trimming	Complete	Jan-12	1
			Perform accelerated backbone and 3 phase assessment	To be completed in 2012		1
			Performance driven by a primary conductor problem (30%), a vehicle accident (21%) and a non-con	npany tree crew (16%).		
}			Perform accelerated 3 phase assessment	Complete	Feb-11	
			Perform accelerated backbone assessment	Complete	Feb-11	
			3 phase crossarm replacement from assessment	Complete	Mar-11	
			Install Fault Indicators 9 Locations	Complete	Mar-11	
			Forestry to perform off cycle patrol and trim	Complete	Apr-11	402010
29	Elvina Hille	00777.4	Install additional fault indicator	Complete		102011
20	Fiying rins		Engineering mainline recloser analysis	Complete	 Dec-11	3Q2011
			Perform accelerated 3 phase assessment	Complete	Feb-12	4Q2011
			Perform accelerated backbone assessment	Complete	Feb-12	1Q2012
			Install additional mainline recloser	To be completed in 2012		1
		ł	Upgrade tap fuse to tap recloser	To be completed in 2012		
			Replace mainline crossarms at 3 locations	To be completed in 2012		
			Comprehensive Tree Trimming	To be completed in 2012		
			Performance was primarily driven by tree caused outages (18%) and vehicle accidents (70%)			
			Replace detenorated crossarm	To be completed in 2012		
29	Frystown	00702-2	Review step bank fusing	To be completed in 2012		
		Į	Perform accelerated 3 phase circuit assessment	To be completed in 2012		
			Perform accelerated backbone assessment	To be completed in 2012		
			Performance driven by equipment failure (27% of minutes), lightning (28% of minutes) and non-prev	entable trees (30% of min	utes durina	<u> </u>
			storm on 6/23/11)			
			Perform SAIFI analysis initiative study	Complete	Jan-11	
			Perform accelerated backbone and 3 phase assessment	Complete	Mac-11	4Q2010
			Replace current limiting fuses on step transformers	Complete	Apr-11	102011
30	Shawnee	00822-3	Repair critical items identified from circuit patrol	Complete	Mar-11	2Q2011
			Forestry to perform on cycle comprehensive circuit Tree Trimming	Complete	Jan-12	3Q2011
			Install Fault Indicators	Complete	Mar-12	4Q2011
			Perform accelerated backbone and 3 phase assessment	Complete	Jan-12	1Q2012
			Repair conditioned items from circuit assessment	To be completed in 2012		
			Replace Fault 3 sets of Fault Indicators	To be completed in 2012		

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

Substation         Grant         Remedial Action Planned of Taken         Status of Remedial Work         Appeared in 4 of 6 Cauters           31         North Comwell         06102         Performance was primarily driven by vehicle accidents (31%), tree damage (34%) and an outage of unknown origin (33%)         402010         402010           31         North Comwell         006102         Reprisor americal particular accidents (31%), tree damage (34%) and an outage of unknown origin (33%)         402010           31         North Comwell         006102         Reprisor americal particular accidents (31%), tree damage (34%) and an outage of unknown origin (33%)         402010           32         Mt. Berhal         006102         Reprisor americal backtone accidents (31% of minutes)         To be completed in 2012         402010           33         Diffsor         Operation Cold Convertence (Card Convertence), and line failure (31% of minutes)         To be completed in 2012         102012           34         Performance diverts / particity assessment of maintine - Regulatory Required 2011         Completed in 2012         102011           35         Windsor         0074-94         Install actial of 6 FG at 21 coccions on the circuit         Completed in 2012         Completed in 2012           36         Norte         Performance diverts / particity assessment of apinge hase - Regulatory Required 2011         Completed in 2012         Performac	Met-Ed 🖓	The Factor	182.		and the second s	a a _ T. Aramatin municipality	Ale a central
Substation         Circuit         Remedial Action Planned or Taken         Status of Remedial Work         Completed Completed         of 6 Quarters           31         North Cornwall         00610-2         Performance was primarily driven by vehicle accidents (37%), tree damage (34%) and an outage of unknown origin (33%).         402010           31         North Cornwall         00610-2         Replace arrestors 2 locations on 3 phase backhone         Complete         Jan-11         102011           22         Mi. Bethel         00610-2         Replace arrestors 2 locations on 3 phase backhone         Complete         App-11         102011           32         Mi. Bethel         0060-3         Forestry to perform on cycle comprehensive circuit tree trimming         To be completed in 2012         Upgrade 300A witch to 500A witch         To be completed in 2012         Upgrade 300A witch to 500A witch         Performance driven by a crossent free duing 712, at 57% of circuit minules and a tree related outage at 23% of circuit minules and a tree related outage at 23% of circuit minules and a tree related outage at 23% of circuit minules.         Perform accelerated forci relative billity assessment of 3 phase - Regulatory Required 2011         Complete         Aug-11           33         Dilsburg         0074-4         Forestry to perform in cycle competention of a phase - Regulatory Required 2011         Complete         Aug-11           34         Yoe         0074-4         For	200				二 动脉的 建丁	Remedial	Appeared in 4
Sectering         Evolution of the sected of the secte		1. A. C. A. C.		Description Dispended for Taking	Ciotus of Domovitor Monte	Completed	of 6 Quarters
31         North Comwall         06610-2         Complete informatice was priminity driven by whiche accudents (3%), the damage (34%) and an outlage of unknown orgin (33%)         402010           31         North Comwall         06610-2         Terristy to perform off cycle pasts backbone         Complete informatice informati	Rank	SUDSTALION #	Scircuit	Remedial Action Planned Of Taken	Status of Remedial Work	çompleteu	
31         North Comwall         OBG10-2 (Replace arrestors 2 locations on 3 phase backbone         Complete (Complete)         Jan.11 (Account)         Value (Complete)         Jan.11 (Account)         Value (Complete)         Jan.11 (Complete)         Jan.11 (Complete)         Jan.11 (Complete)         Jan.11 (Complete)         Jan.11 (Complete)         Jan.11 (Complete)         Jan.11 (Complete)         Jan.11 (Complete)				Performance was primarily driven by vehicle accidents (31%), tree damage (34%) and an outage of	unknown origin (33%)		100010
31     North Comwall     000610-2     Replace arrestors 2 locations on 3 phase backbone     Complete     Am-11     402011       32     Mrt. Bethel     00090-2     Forestri 1 perform accelerated backbone assessment     Complete     Apr-11     102011       32     Mrt. Bethel     00090-3     Forestry to perform on cycle comprehensive circuit tree timming     To be completed in 2012     102012       33     Dillsburg     Performance driven by trees (62% of minutes), and line failure (31% of minutes)     To be completed in 2012     102012       34     Performance driven by trees (62% of minutes), and line failure (31% of minutes)     To be completed in 2012     102014       35     Windsor     Performance driven by trees (62% of minutes), and line failure (31% of minutes)     To be completed in 2012     102014       34     Yoe     Performance driven by trees (72% of circuit minutes and a tree related outge at 23% of circuit minutes.     Novi11       94     Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011     Complete     Aug-11       133     Dillsburg     007494     Install a total of 6 F cit at 2 locations on the circuit     Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011     Complete     Aug-11       134     Yoe     005594     Perform Accelerated circuit reliability assessment of a phase     To be completed in 2012     Perform a				Forestry to perform off cycle patrol and trim	Complete	Jan-11	4Q2010
Accelerated circuit assessment 3 phase         Complete         Apr-11         402011           32         Mt. Bethel         0000-3         Formance diven by trees (62% of minutes), and line failure (31% of minutes)         To be completed in 2012         102012           32         Mt. Bethel         0000-3         Forestry to perform on cycle comprehensive circuit the thimming         To be completed in 2012         102012           33         Dillsburg         Perform accelerated circuit reliability assessment of maintine - Regulatory Required 2011         Complete         Aug-11           34         Vee         00749-4         Install a total of 6 FCI at 2 locations on the circuit         Songlete         Nov-11           35         Windsor         0059-4         Perform accelerated circuit reliability assessment of a phase         Complete         Aug-11           36         Annulle         00749-4         Install a total of 6 FCI at 2 locations on the circuit         Complete         Oce-11         302012           36         Annulle         00749-4         Install a total of 6 FCI at 2 locations on the circuit         Complete         Nov-11         202011           37         Dillsburg         00749-4         Install a total of 6 FCI at 2 locations on the circuit         Complete         Nov-11           38         Vee         00749-4	31	North Cornwall	00610-2	Replace arrestors 2 locations on 3 phase backbone	Complete	Mar-11	102011
Section         Perform accelerated backbone assessment         Complete Comprehensive Tree Timming         To be completed in 2012           32         Mt. Bethel         00096-3         Performance driven by trees (52% of minutes), and line failure (31% of minutes)         To be completed in 2012         To be completed in 2012           33         Diffeomination on cycle comprehensive circuit tree timming         To be completed in 2012         To be completed in 2012           34         Perform accelerated circuit reliability assessment of a phase         Regulatory Required 2011         Complete         Au-11           94         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         Au-11           94         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         No-11           94         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         No-11           94         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         No-11           94         Yoe         0059-4         Perform accelerated circuit reliability assessment of single phase         To be completed in 2012         Perform accelerated circuit reliability assessment of single phase         To be completed in 2012         202011         202011	_			Accelerated circuit assessment 3 phase	Complete	Apr-11	4Q2011
32         Mi. Bethel         Operation on cycle comprehensive circuit line trimming         To be completed in 2012           33         Mi. Bethel         0000-03         Forestry to perform on cycle comprehensive circuit line trimming         To be completed in 2012           34         Mi. Bethel         0000-03         Forestry to perform on cycle comprehensive circuit line trimming         To be completed in 2012           33         Dilsburg         00749-4         Forestry to perform accelerated circuit reliability assessment of animates and a tree related outage at 23% of circuit minutes.           34         Yoe         O0749-4         Institution of Stratus assessment of 3 phase - Regulatory Required 2011         Complete         Aug-11           34         Yoe         00749-4         Institution of Circuit reliability assessment of 3 phase - Regulatory Required 2011         Complete         Aug-11           34         Yoe         00749-4         Institution of Circuit reliability assessment of 3 phase - Regulatory Required 2011         Complete         Aug-11           34         Yoe         00559-4         Perform accelerated circuit reliability assessment of 3 phase - Regulatory Required 2011         Complete         Aug-11           34         Yoe         00559-4         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         Perform accelerated circuit reliability assessment of 3				Perform accelerated backbone assessment	Complete	Apr-11	1Q2012
32       Mt. Bethel          Performance driven by trees (62% of minutes), and line failure (31% of minutes)          33       Mt. Bethel          00090-3 Forestry to perform on cycle comprehensive circuit tree trimming To be completed in 2012 To be completed in 2012 Complete         Aug-11 Perform accelerated circuit reliability assessment of aphase - Regulatory Required 2011         Complete         Aug-11 Perform accelerated circuit melability assessment of aphase - Regulatory Required 2011         Complete         Aug-11 Replace/Repair high priority items identified during circuit patrol         Complete         Nov-11         Perform accelerated circuit melability assessment of aphase         To be completed in 2012 Perform accelerated circuit melability assessment of aphase         To be completed in 2012 Perform accelerated circuit melability assessment of aphase         To be completed in 2012 Perform accelerated circuit melability assessment of aphase         To be completed in 2012 Perform accelerated circuit melability assessment of aphase         To be completed in 2012 Perform accelerated circuit melability assessment of aphase         To be completed in 2012 Perfor				Comprehensive Tree Inmming	To be completed in 2012		
32       Mt. Bethel       00090-3       Forestry to perform on cycle comprehensive circuit tree trimming       To be completed in 2012         33       Wit. Bethel       00090-3       Forestry to perform on cycle comprehensive circuit minutes and a tree related ouzge at 23% of circuit minutes.         33       Dillsburg       Perform accelerated circuit reliability assessment of annihine - Regulatory Required 2011       Complete       Aug-11         33       Dillsburg       00749-4       Install a total of 6 FCI at 2 locations on the circuit       Complete       Aug-11         Perform accelerated circuit reliability assessment of annex executed 2011       Complete       Aug-11         Perform accelerated circuit reliability assessment of annex executed 2011       Complete       Aug-11         Perform accelerated circuit reliability assessment of annex executed 2011       Complete       Aug-11         Replace/Repair high priority liems identified during circuit patrol       Complete       Mer 12         Perform accelerated circuit reliability assessment of annex exection 2012       Perform accelerated circuit reliability assessment of annex exection 2012       202011         34       Yoe       00554       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       202011         35       Windsor       00454       Perform accelerated circuit reliability assessment of backbone <t< td=""><td></td><td></td><td></td><td>Performance driven by trees (62% of minutes), and line failure (31% of minutes)</td><td>•</td><td>_</td><td></td></t<>				Performance driven by trees (62% of minutes), and line failure (31% of minutes)	•	_	
Mark Base         Upgrade 300A switch         To be completed in 2012           Engr to evaluate relocation of diroad section of line         To be completed in 2012           Perform accelerated circuit reliability assessment of anime - Regulatory Required 2011         Complete         Jul-11           Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011         Complete         Aug-11           Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011         Complete         Aug-11           Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011         Complete         Aug-11           Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011         Complete         Mar-12           Perform accelerated circuit reliability assessment of a phase - Regulatory Required 2011         Complete         Mar-12           Perform accelerated circuit reliability assessment of a phase         To be completed in 2012         Mar-12           Perform accelerated circuit reliability assessment of a phase         To be completed in 2012         Mar-12           Perform accelerated circuit reliability assessment of a phase         To be completed in 2012         Mar-11           34         Yoe         00559-4         Perform Accelerated backbone and 3 phase assessment         Complete         Dec-111           35         Windso	32	Mt. Bethel	00090-3	Forestry to perform on cycle comprehensive circuit tree trimming	To be completed in 2012		
Second Second Section of Second Section of Second Section of Second Section of Second Section Sectin Section Section Section Sectin Sectin Section Sect				Upgrade 300A switch to 600A switch	To be completed in 2012		
33         Dilsburg         09749         Repriormance driven by a crosserm fire during T&L at 57% of circuit minutes and a tree related outage at 23% of circuit minutes.           33         Dilsburg         00749         Reprint Circuit reliability assessment of 3 phase - Regulatory Required 2011         Complete         Aug-11           33         Dilsburg         00749         Install total of 6 FCI at 2 locations on the circuit         Complete         Aug-11           941         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         Aug-11           942         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         Aug-11           943         Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011         Complete         Aug-11           944         Install total of 6 FCI at 2 locations on the circuit         Complete         Now-11         Perform accelerated circuit reliability assessment of aphase         To be completed in 2012         202011           944         Yoe         005594         Perform accelerated backbone and 3 phase assessment         Complete         Oct-11         302011           94         Yoe         005594         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         202011				Engr to evaluate relocation of off-road section of line	To be completed in 2012		
33         Dillsburg         Perform accelerated circuit reliability assessment of aninte - Regulatory Required 2011         Complete         Juli1           33         Dillsburg         007494         Install a total of 6 FCI at 2 locations on the circuit         Complete         Aug-11           34         Dillsburg         007494         Install a total of 6 FCI at 2 locations on the circuit         Complete         Deci11         Complete         Aug-11           34         Yoe         007494         Install a total of 6 FCI at 2 locations on the circuit         To be complete         Mov-11           94         Perform accelerated circuit reliability assessment of mainline         To be completed in 2012         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         202011           34         Yoe         005594         Perform maccelerated circuit reliability assessment of backbone         To be completed in 2012         102011           35         Windsor         003164         Forestry to perform accelerated backbone and 3 phase assessment         To be completed in 2012         102012           36         Annvile         003164         Forestry to perform accelerated backbone and 3 phase assessment         To be completed in 2012         102012           36         Annvile         003164         Forestry to perform accelerated circuit reliab				Performance driven by a crossarm fire during T&L at 57% of circuit minutes and a tree related outa	ge at 23% of circuit minute	s	
33     Dillsburg     Dillsburg     Perform accelerated circuit reliability assessment of 3 phase - Regulatory Required 2011     Complete     Aug-11       33     Dillsburg     007494     Install a total of 6 FCI at 2 locations on the circuit     Complete     Nov11       Perform accelerated circuit reliability assessment of 3 phase - Regulatory Required 2011     Complete     Nov11       Perform accelerated circuit reliability assessment of mainline     To be complete     Mar-12       Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     202011       34     Yoe     Perform mid-cycle foresity patrol.     Complete     Oct-11       35     Windsor     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     102012       35     Windsor     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     102012       36     Annvile     00316-4     Forestry to perform on cycle comprehensive circuit reliability assessment of 3 phase     To be completed in 2012     102012       36     Annvile     0074-4     Install additional disconnect switches     To be completed in 2012     102012       36     Annvile     0074-2     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     102012       36     Perform accelerated circuit reliability assess		·		Perform accelerated circuit reliability assessment of mainline - Regulatory Required 2011	Complete	Jul-11	
33       Dillsburg       Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011       Complete       Aug-11         33       Dillsburg       007494       Install a total of 6 FCI as 2 locations on the circuit       Complete       Nov-11         Perform SAFE hankysis initiative study       Complete       Mar-12       Complete       Mar-12         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       Mar-12       202011         34       Yoe       005594       Perform accelerated backbone and 3 phase assessment       Complete       Oct-11       302011         35       Windsor       005594       Perform accelerated backbone and 3 phase assessment       Complete       Jane       202011         36       Annville       00749-4       Forestry to perform on cycle comprehensive circuit Tree Timming       To be completed in 2012       102012         36       Annville       00749-2       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       102012         36       Annville       00749-4       Forestry to perform on cycle comprehensive tire or timming       To be completed in 2012       102012         36       Annville       00749-2       Perform accelerated circuit reliability assessment of 3 phase       To be completed in				Perform accelerated circuit reliability assessment of 3 phase - Regulatory Required 2011	Complete	Aug-11	]
33     Dillsburg     00749-4     Install a total of 6 FCI at 2 locations on the circuit     Complete     Nov+11       Perform SAIFI analysis initiative study     Complete     Dec-11     Complete     Dec-11       Perform accelerated circuit reliability assessment of mainline     To be completed in 2012     Perform accelerated circuit reliability assessment of aphase     To be completed in 2012       34     Yoe     Perform accelerated circuit reliability assessment of aphase     Complete     Oct-11     302011       34     Yoe     Perform Accelerated circuit reliability assessment of aphase     Complete     Oct-11     302011       34     Yoe     Perform Accelerated circuit reliability assessment of aphase     Complete     Oct-11     302011       34     Yoe     Perform Accelerated circuit reliability assessment of 3 phase     To be completed in 2012     202011       35     Windsor     O0559-4     Perform Accelerated backbone and 3 phase assessment     Complete     Jun-11       35     Windsor     003164     Forestry to perform on cycle comprehensive circuit Tree Timming     To be completed in 2012     Dun-11       36     Annville     00743-2     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     To be completed in 2012       36     Annville     00743-2     Perform accelerated circuit reliability assessment of				Perform accelerated circuit reliability assessment of single phase - Regulatory Required 2011	Complete	Aug-11	]
34         Yoe         Occupiete         Dec-11 Mar-12           34         Yoe         Operated circuit reliability assessment of mainine Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         202011           34         Yoe         Operform Accelerated circuit reliability assessment of 3 phase         To be completed in 2012         202011           34         Yoe         Operform Accelerated backbone and 3 phase assessment         Complete         Oct-11         302011           34         Yoe         Operform Accelerated backbone and 3 phase assessment         Complete         Oct-11         302011           34         Yoe         Operform Accelerated backbone and 3 phase assessment         Complete         Oct-11         302011           35         Windsor         Perform Accelerated backbone and 3 phase assessment         To be completed in 2012         102012           35         Windsor         00316-4         Perform Accelerated backbone and 3 phase assessment         To be completed in 2012         102012           36         Annvile         00316-4         Perform accelerated circuit reliability assessment of backbone         To be completed in 2012         102012           36         Annvile         00743-2         Perform accelerated circuit reliability assessment of backbone         To be completed in 2012	33	Dillsburg	00749-4	Install a total of 6 FCI at 2 locations on the circuit	Complete	Nov-11	]
Replace/Repair high priority items identified during circuit patrol         Complete         Mar-12           Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         202011           34         Yoe         Perform accelerated circuit reliability assessment of 3 phase         Complete         Oct-11           34         Yoe         Perform accelerated circuit reliability assessment         Complete         Oct-11         302011           34         Yoe         Perform accelerated circuit reliability assessment         Complete         Dec-11         302011           94         Perform accelerated circuit reliability assessment of backbone         To be completed in 2012         202011           94         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         202012           959-4         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         102012           96         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         102012           97         Perform accelerated circuit reliability assessment of backbone         To be completed in 2012         102012           98         Perform accelerated circuit reliability assessment of 3 phase         To be completed in 2012         10212           98				Perform SAIFI analysis initiative study	Complete	Dec-11	
Perform accelerated circuit reliability assessment of mainline       To be completed in 2012 To be completed in 2012         34       Yoe       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       202011         34       Yoe       Perform Accelerated backbone and 3 phase assessment       Complete       Oct-11       302011         34       Yoe       Perform Accelerated backbone and 3 phase assessment       Complete       Dec-11       402011         9       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         9       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         9       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         9       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         9       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         9       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         9       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       102012         10       Perform accelerated circuit reliabili				Replace/Repair high priority items identified during circuit patrol	Complete	Mar-12	
Second				Perform accelerated circuit reliability assessment of mainline	To be completed in 2012		
34     Yoe     Performance was driven by non-preventable tree cause outages (68%)     202011       34     Yoe     Perform mid-cycle forestry patrol.     Complete     Oct-11     302011       36     Annville     Perform accelerated incuit reliability assessment of 3 phase     To be completed in 2012     102012       36     Annville     00316-4     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     102012       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       Repform accelerated backbone and 3 phase assessment     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11			i	Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		
34       Yoe       Perform mid-cycle forestry patrol.       Complete       Oct-11       3G2011         34       Yoe       00559-4       Perform Accelerated backbone and 3 phase assessment       Complete       Dec.11       4Q2011         Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       1Q2012         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       1Q2012         35       Windsor       00316-4       Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012       Jun-11         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       Jun-11       Perform accelerated circuit reliability assessment of a phase       To be completed in 2012       Perform accelerated circuit reliability assessment of a phase       To be completed in 2012       Perform accelerated circuit reliability assessment of a phase       To be completed in 2012       Perform accelerated circuit reliability assessment of a phase       To be completed in 2012       Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       Perform accelerated backbone assessment       Completed in 2012       Perform accelerated accelerate				Performance was driven by non-preventable tree cause outages (68%)			202011
34       Yoe       005594       Perform Accelerated backbone and 3 phase assessment       Complete       Dec-11       4Q2011 4Q2011         35       Windsor       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       102012         35       Windsor       Perform accelerated circuit reliability assessment of backbone       Complete       Jun-11         35       Windsor       003164       Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012       102012         Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       Jun-11       102012         Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       Intervention       Intervention         36       Mindsor       003164       Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012       Intervention         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       Intervention       Intervention         36       Annville       003164       Forestry to perform on cycle comprehensive free caused outages (87%) and animal caused outages (12%)       Complete       Mar-11         36       Annville       00743-2       Perform accelerated 3 phase circuit assessment       Complete       M				Perform mid-cycle forestry patrol.	Complete	Oct-11	302011
35     Windsor     Perform accelerated circuit reliability assessment of backbone     To be completed in 2012     442011       35     Windsor     003164     Perform accelerated backbone and 3 phase assessment     Complete in 2012     Jun-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     To be completed in 2012     Jun-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       Replace failed recloser with new unit     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       Replace failed recloser with new unit     Replace failed recloser with new unit     Complete     Jul-11	34	Yoe	00559-4	Perform Accelerated backbone and 3 phase assessment	Complete	Dec-11	402011
35     Windsor     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012     To be completed in 2012       35     Windsor     00316-4     Performance was driven by non-preventable tree cause outages (81% of the minutes)     Complete     Jun-11       70     Perform Accelerated backbone and 3 phase assessment     To be completed in 2012     Jun-11       70     Forestry to perform on cycle comprehensive circuit Tree Trimming     To be completed in 2012       70     Perform accelerated circuit reliability assessment of backbone     To be completed in 2012       70     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012       70     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012       70     Perform accelerated circuit reliability assessment of 3 phase     To be completed in 2012       70     Performance was primarily driven by tree caused outages (87%) and animal caused outages (12%)     Complete       70     Complete     Mar-11       70     Install additional disconnect switches     Complete       70     00743-2     Perform accelerated 3 phase circuit assessment     Complete       70     Perform accelerated 3 phase circuit assessment     Complete     Jul-11       70     Perform accelerated backbone assessment     Complete     Jul-11       70 <td< td=""><td></td><td></td><td></td><td>Perform accelerated circuit reliability assessment of backbone</td><td>To be completed in 2012</td><td></td><td>102012</td></td<>				Perform accelerated circuit reliability assessment of backbone	To be completed in 2012		102012
35       Windsor <sup>Performance was driven by non-preventable tree cause outages (81% of the minutes)</sup> Complete         Jun-11          35       Windsor <sup>O0316-4</sup> <sup>Perform</sup> Accelerated backbone and 3 phase assessment           Complete         Jun-11          35       Windsor <sup>O0316-4</sup> <sup>Perform</sup> Accelerated circuit reliability assessment of backbone           To be completed in 2012          Perform accelerated circuit reliability assessment of 3 phase           To be completed in 2012          Perform accelerated circuit reliability assessment of 3 phase           To be completed in 2012          Transfer section of circuit to minimize line exposure           To be completed in 2012          Compretensive Tree Trimming           Complete          Install additional disconnect switches           Complete          O0743-2          Perform accelerated backbone assessment          Perform accelerated backbone assessment           Complete          Perform accelerated backbone assessment           Complete          Mar-11          Perform accelerated 3 phase circuit assessment          Complete         Jul-11         Perform accelerated backbone assessment				Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		102012
35       Windsor       003164       Perform Accelerated backbone and 3 phase assessment       Complete       Jun-11         35       Windsor       003164       Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012         Perform accelerated circuit reliability assessment of backbone       To be completed in 2012       Perform accelerated circuit reliability assessment of 3 phase         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012       Mar-11         Comprehensive Tree Trimming       Complete       Mar-11         Install additional disconnect switches       Complete       Mar-11         Perform accelerated 3 phase circuit assessment       Complete       Jul-11         Perform accelerated backbone assessment       Complete       Jul-11         Replace failed recloser with new unit       Complete       Jul-11         Replace failed recloser with new unit       Complete       Feb-12         Beolare spacers mission from spacer cable       To be completed in 2012       To be completed in 2012				Performance was driven by non-preventable tree cause outages (81% of the minutes)			
35       Windsor       003164       Forestry to perform on cycle comprehensive circuit Tree Trimming       To be completed in 2012         Perform accelerated circuit reliability assessment of backbone       To be completed in 2012         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012         Comprehensive Tree Trimming       Complete         Install additional disconnect switches       Complete         Mar-11       Perform accelerated 3 phase circuit assessment         Perform accelerated backbone assessment       Complete         Jul-11       Perform accelerated backbone assessment         Complete       Jul-11         Perform accelerated backbone assessment       Complete         Jul-11       Perform accelerated backbone assessment         Complete       Jul-11         Perform accelerated backbone assessment       Complete         Beolare spacers with new unit       Complete         Replace failed recloser with new unit       To be completed in 2012				Perform Accelerated backbone and 3 phase assessment	Complete	Jun-11	1
35       Windsol       00316-4       Perform accelerated circuit reliability assessment of backbone       To be completed in 2012         Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012         Comprehensive Tree Trimming       Complete         Install additional disconnect switches       Complete         Mar-11       Perform accelerated 3 phase circuit assessment         Perform accelerated backbone assessment       Complete         Jul-11       Perform accelerated backbone assessment         Complete       Jul-11         Perform accelerated backbone assessment       Complete         Jul-11       Perform accelerated backbone assessment         Complete       Jul-11         Perform accelerated backbone assessment       Complete         Belace snacers mission from snacer cable       To be completed in 2012	95	16/00/000	000164	Forestry to perform on cycle comprehensive circuit Tree Trimming	To be completed in 2012		1
Perform accelerated circuit reliability assessment of 3 phase       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012         Transfer section of circuit to minimize line exposure       To be completed in 2012         Performance was primarily driven by tree caused outages (87%) and animal caused outages (12%)       Compretensive Tree Trimming         Compretensive Tree Trimming       Complete       Mar-11         Install additional disconnect switches       Complete       Mar-11         Perform accelerated 3 phase circuit assessment       Complete       Jul-11         Perform accelerated backbone assessment       Complete       Jul-11         Replace failed recloser with new unit       Complete       Jul-11         Beolare spacers mission from spacer cable       To be completed in 2012       To be completed in 2012	35	vandsor	00310-4	Perform accelerated circuit reliability assessment of backbone	To be completed in 2012		
36       Annville       00743-2       Perform accelerated 3 phase circuit assessment       Complete       Mar-11         Replace failed recibeser with new unit       Replace failed recibeser with new unit       Complete       Jul-11         Replace failed recibeser with new unit       Complete       Jul-11				Perform accelerated circuit reliability assessment of 3 phase	To be completed in 2012		
36       Annville       Performance was primarily driven by tree caused outages (87%) and animal caused outages (12%)       Complete       Mar-11         36       Annville       00743-2       Perform accelerated 3 phase circuit assessment       Complete       Mar-11         Perform accelerated backbone assessment       Complete       Jul-11         Replace failed recloser with new unit       Complete       Jul-11         Replace failed recloser with new unit       Complete       Jul-11         Replace failed recloser with new unit       Complete       Feb-12				Transfer section of circuit to minimize line exposure	To be completed in 2012		
36     Annville     Comprehensive Tree Trimming     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Mar-11       Perform accelerated backbone assessment     Complete     Jul-11       Replace failed recloser with new unit     Complete     Jul-11       Beolare spacers mission from spacer cable     To be completed in 2012		<u> </u>		Performance was primarily driven by tree caused outages (87%) and animal caused outages (12%)			
36     Annville     Install additional disconnect switches     Complete     Mar-11       36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Jul-11       Perform accelerated backbone assessment     Complete     Jul-11       Replace failed recloser with new unit     Complete     Feb-12       Beplace spacers mission from spacer cable     To be completed in 2012			1	Comprehensive Tree Trimming	Complete	Mar-11	1
36     Annville     00743-2     Perform accelerated 3 phase circuit assessment     Complete     Jul-11       Perform accelerated backbone assessment     Complete     Jul-11       Replace failed recloser with new unit     Complete     Feb-12       Beplace spacers mission from spacer cable     To be completed in 2012				Install additional disconnect switches	Complete	Mar-11	]
Perform accelerated backbone assessment     Complete     Jul-11       Replace failed recloser with new unit     Complete     Feb-12       Beplace spacers missing from spacer cable     To be completed in 2012	36	Annville	00743-2	Perform accelerated 3 phase circuit assessment	Complete	Jul-11	1
Replace failed recloser with new unit     Complete     Feb-12       Beplace spacers missing from spacer cable     To be completed in 2012			ļ	Perform accelerated backbone assessment	Complete	Jul-11	1
Replace spacers missing from spacer cable			1	Replace failed recloser with new unit	Complete	Feb-12	1
				Replace spacers missing from spacer cable	To be completed in 2012		1

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Met-Ed #22	the states of the states and			the second second second		
					Remedial	
<b>.</b>					Work	Appeared Int4
🖹 Rank 👘	Substation	Circuit	Remedial, Action Plannedior Taken	Status of Remedial-Work	Completed	່ດເວ ຕົກສະເອເຊັ່
			Performance was primarily driven by equipment failures (46%) and lightning damage (34%)		1	
			Replace recloser along Steinruck Road	Complete	Jan-11	ł
		1	Correct 3 coordination issues	Complete	Mar-11	4Q2010
			Install regulators along Roundtop Road	Complete	Jul-11	1Q2011
37	Swatara Hill	00763-2	Install additional disconnect switches	Complete	Dec-11	2Q2011
	Owarana riin	00703-2	Install fault indicators 4 locations	Complete	Dec-11	3Q2011
			Perform accelerated backbone assessment	To be completed in 2012		4Q2011
			Accelerated circuit assessment 3 phase	To be completed in 2012		1Q2012
			Balance load beyond recloser 76342	To be completed in 2012		
			Repair broken insulator on 3 phase	To be completed in 2012		
			Performance driven by trees at 56% of circuit minutes; and a recloser lock out w/o reclose for a ter	nporary fault condition for 2	6% of	<u> </u>
			circuit minutes.	•		
			Forestry to perform on cycle comprehensive circuit tree trim in 2009	Complete	Nov-09	
			Perform normal circuit reliability assessment of mainline	Complete	Jul-10	402010
	Straban	00676-4	Perform normal circuit reliability assessment of 3 phase	Complete	Jul-10	102011
			Replaced 1 crossarm	Complete	Mar-10	2Q2011
:			Perform recloser inspection (did not reclose) - Replaced Battery	Complete	Aug-11	3Q2011
			Perform accelerated circuit reliability assessment of mainline	Complete	Nov-11	
		l	Perform accelerated circuit reliability assessment of 3 phase	Complete	Nov-11	-
GUALAR PURC			Performance driven by nen proventable trees and environant failure. 24% of minutes for the sector			=
			r enormance arrea by non-preventable nees and equipment failure. 24% of minutes from transform	iei ianore ounny exiteme n	eat on	3Q2010
			Poterm seasterated backbase and 2 above terms werk			4Q2010
	North Bangor	00813-3	Perform accelerated backbone and 5 phase assessment	Complete	Apr-11	1Q2011
ľ			Fenorin in depin inspection of backbone luses	Complete	Apr-11	2Q2011
			Porestry to perform on cycle comprenensive circuit tree miniming	Complete	Jun-11	3Q2011
:			Deform Accelerated backhops and 2 chase accelerate	Complete	Aug-11	4Q2011
		<u> </u>	Defemantes une décet bulies failles l'altres audies annuels bulies	Complete	Mar-12	
			Performance was driven by line failure, lightning and non-preventable trees	<u> </u>	· ···.	4
			Perform papelerated brokeness and 2 share access and	Complete		3Q2010
			Perform in death imposition of backbone from	Complete	Feb-11	4Q2010
	North Bangor	00826-3	Penoriti in deptin inspection of backbone luses	Complete	Apr-11	1Q2011
	Horn Dangor	00020-3	Install now stastenia sectores	Complete	May-11	2Q2011
			Instant new electronic recipient	Complete	<u>Jun-11</u>	3Q2011
	•		Replace Content nating uses on step transformers	Complete		4Q2011
			Install Sectionalizer	Complete	001-11	
<u> </u>		<u> </u>		Complete	Iviar-12	<u></u>
1. Marca	•		Performance driven by non-preventable tree cause outages (50% or minutes).	0		-
•		Í	Install additional Fault Indicators	Compiete	Feb-11	
			Porestry to perform spot assessment or tree prone outage area	Complete	Mar-11	
			Porestry to perform follow-up tree work as result of spot assessment	Complete	Mar-11	-
				Complete	Oct-11	4Q2010
	Hilt	00727 4	Porestry to perform spot assessment of free prone outage area	Complete	Oct-11	1Q2011
	1.1116	00/3/-4	Periorm Accelerated backbone and 3 phase assessment	Complete	<u>Nov-11</u>	202011
	ĺ		Encode to enform and tree triangles in the encode of the encoded and the encod	Complete	<u>Dec-11</u>	3Q2011
			Forestry to perform spot tree trimming in tree prone outage area	Complete	Dec-11	
			anstan recinities to connect u/g development section to alternate source feed	Complete	heb-12	4
•			Potestry to penorm on cycle comprehensive circuit free frimming	Complète	Mar-12	4
2			renorm o'Arri analysis initiative study	Complete	Apr-12	4
· ·			install an additional recloser to protect the circuit 3 phase	i i o de completea in 2012 (		1

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#### BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

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Joint 1st Quarter 2012 Reliability Report Public Version – Pennsylvania Power Company, Pennsylvania Electric Company and Metropolitan Edison Company - Pursuant to 52 Pa. Code § 57.195(d) and (e) RECEIVED

MAY = 1 2012

PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

#### CERTIFICATE OF SERVICE

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

Service by 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:

Irwin Popowsky Tanya McCloskey Office of Consumer Advocate 5<sup>th</sup> Floor Forum Place 555 Walnut Street Harrisburg, PA 17101 spopowsky@paoca.org tmccloskey@paoca.org Steven Gray Office of Small Business Advocate 300 North 2<sup>nd</sup> Street Harrisburg, PA 17101

Service by electronic mail, as follows:

Darren Gill Blaine Loper Bureau of Technical Utility Services Pennsylvania Public Utility Commission dgill@state.pa.gov bloper@state.pa.gov Yasmin Snowberger Dan Searfoorce Bureau of Technical Utility Services Pennsylvania Public Utility Commission ysnowberge@pa.gov dsearfoorc@state.pa.gov

Dated: May 1, 2012

Original Signed:

quette 1 Annette L. Lusty

FirstEnergy Service Company 76 S. Main Street Akron, OH 44308 (330) 374-6543 lustya@firstenergycorp.com

