Allegheny Energy

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ORIGINAL

August 1, 2006

VIA FEDERAL EXPRESS

James J. McNulty, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

Re: Second Quarter 2006 Reliability Report of Allegheny Power

Dear Secretary McNulty: L-00030161

Enclosed please find an original and six copies of the Second Quarter 2006 Reliability Report of Allegheny Power. This report is filed by Federal Express and is deemed filed today, August 1, 2006. Copies have been served on the Office of Consumer Advocate and the Office of Small Business Advocate.

Very truly yours,

John L. Munsch
Senior Attorney

cc: Thomas Sheets-PAPUC- Bureau of Audits

DOCUMENT
FOLDER

L-00030161

Allegheny Power
Quarterly Report for Second Quarter 2006

This quarterly report is being submitted in accordance with Title 52. Public Utilities - Part I. Public Utility Commission -Subpart C. Fixed Services Utilities – Chapter 57. Electric Service Subchapter N. Electric Reliability Standards.

§ 57.195 (e) (2) The name, title, telephone number and e-mail address of the persons who have knowledge of the matters, and can respond to inquiries, shall be included.

James D. Cormack
General Manager, Distribution Reliability
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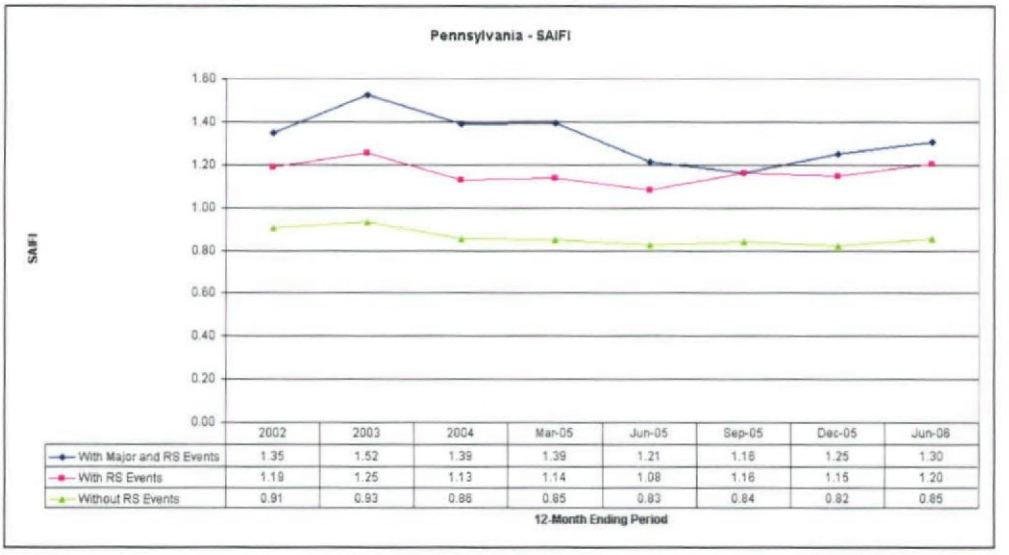
§ 57.195 (e) (1) A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.

a. The following Major Events occurred during the second quarter of 2006. Note that these events are excluded based upon the proposed service-area-wide definition.
b. Major events occurred on the following dates. A description of the events is attached as Appendix VI in form of final 'Distribution System Outage Reports' reports as previously issued to the Commission if applicable.

    i. There were no Major Events in the second quarter.

c. Allegheny Power's Restore Service Process Management Team constantly monitors the process and conducts post-event meetings in an attempt to enhance the restoration process for future events.
d. Although not excluded from statistics, AP's Pennsylvania service territory experienced several minor events ('RS Events') in the past 12 months characterized by having received a severe weather alert accompanied by at least 5,000 Allegheny Power Company customers interrupted. The following chart shows the effect on SAIFI of Major Events and RS Events for Pennsylvania customers through 2nd quarter 2006:



	2002	2003	2004	Mar-05	Jun-05	Sep-05	Dec-05	Jun-06
With Major and RS Events	1.35	1.52	1.39	1.39	1.21	1.16	1.25	1.30
With RS Events	1.19	1.25	1.13	1.14	1.08	1.16	1.15	1.20
Without RS Events	0.91	0.93	0.86	0.85	0.83	0.84	0.82	0.85

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

a. The following table provides Pennsylvania's 12-month ending reliability statistics for month ending June 2006. MAIFI statistics are not recorded nor readily available at Allegheny Power. As disclosed in prior filings, sufficient field equipment is not available to provide meaningful data for momentary interruptions.

Reliability Indices	Approved Settlement Benchmarks	Rolling 12-Month Standard	Rolling 3-Yr Avg. Standard	Current Quarter Performance (Rolling 12-month)
SAIFI	1.05	1.26	1.16	1.21
CAIDI	170	204	187	180
SAIDI	179	257	217	217

Data supporting indices:

Zone	Incidents	Affected Grids/ Structures	Interrupted Customers	Avg Cust Served	kVA	Calls	CMI	SAIDI	ASAI	CAIDI	SAIFI
Pennsylvania	17,236	17,234	838,503	696,243	8,468,168.6	119,323	150,687,033	217	0.999588	180	1.21

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

a. This report provides a listing of all Pennsylvania circuits ranking in the lowest five percent as ranked by Circuit Improvement Index Ranking, which incorporates reliability statistics at a local level to further address individual customer satisfaction. The report is attached as Appendix I.
b. A description of the Circuit Improvement Index process is presented in Appendix V.

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

a. Allegheny's current process for addressing poor performing circuits and line segments is outlined in the Reliability Improvement Program (RIP). The details of which have been previously submitted to the Commission staff. In summary, the RIP program addresses all circuits experiencing two or more lockouts as well as any other protective device experiencing multiple operations. Field personnel review outages on these circuits or line segments and corrective action is taken as necessary to address any immediate reliability concerns.
b. Remedial work for the 5% circuits is shown in Appendix II. Field personnel review these circuits quarterly. After the third quarter reporting is complete, outage causes are evaluated and action plans are developed for circuits requiring more comprehensive maintenance and these plans are incorporated in next year's budgets and work plans.
c. AP has also continued a Reliability Improvement Initiative (RIPInit) for 2006 to review over-current protection on poor performing and high-density distribution circuits. This initiative focuses on installing additional sectionalizing equipment to reduce main line exposure and to minimize the number of customers impacted by forced interruptions. Many of these RIPInit circuits are also on the worst performing circuit list.
d. AP has initiated a circuit improvement initiative whereby AP's recent 100 worst performing circuits are identified, studied, and targeted for further possible improvements based on the review of outage causes. Approximately one-third of these circuits are Pennsylvania circuits. This program is being integrated into the RIP process.

§ 57.195 (e) (5) A ROLLING 12-MONTH breakdown and analysis of outage causes during the preceding quarter, including the number and percentage of service outages, THE NUMBER OF CUSTOMERS INTERRUPTED, and customer interruption minutes

categorized by outage cause such as equipment failure, animal contact, tree related, and so forth. Proposed solutions to identified service problems shall be reported.

a. A summary of outage causes by customers interrupted and by customer minutes interrupted follows.
b. Note that 70% of all customer interruptions are caused by non-equipment-related causes. Also note that 98% of customers interrupted by trees are a result of trees falling from outside of the right-of-way.
c. AP's definition of tree-related outages includes those cases where trees have fallen as a result of severe weather conditions.
d. 'Weather' definition includes weather-related outages involving lightning damage, severe snow/ice loading, extreme wind, flooding, etc. and **does not** include tree-related outages.

Outage Cause	Incidents 12 Month ending June 06		Customers Interrupted 12 Month ending June 06		Customers Minutes Interrupted 12 Month ending June 06	
	Number	Percent	Number	Percent	Number	Percent
Animals	1,405	8.3%	40,678	4.9%	4,620,742	3.1%
Overhead Equipment Failure						
Overhead Line Equipment	1,183	7.0%	30,669	3.7%	4,057,742	2.7%
Overhead Line Material	1,688	9.9%	118,719	14.3%	13,247,401	8.8%
Overhead Wire	1,221	7.2%	62,027	7.4%	7,804,165	5.2%
Underground Equipment						
Underground Line Material	36	0.2%	536	0.1%	93,471	0.1%
Underground Line Equipment	85	0.5%	1,000	0.1%	299,439	0.2%
Underground Cable	503	3.0%	14,777	1.8%	4,346,068	2.9%
Service Equipment	60	0.4%	90	0.0%	15,098	0.0%
Substation Equipment	68	0.4%	17,885	2.1%	2,857,401	1.9%
Other	208	1.2%	19,004	2.3%	1,640,552	1.1%
Public/Customer	1,903	11.2%	119,718	14.4%	19,959,471	13.3%
Trees						
On Right of Way	93	0.5%	4,875	0.6%	943,134	0.6%
Off Right of Way	3,825	22.5%	191,066	22.9%	49,586,610	33.1%
Slide into Line from off ROW	14	0.1%	245	0.0%	57,253	0.0%
Unknown	1,755	10.3%	84,364	10.1%	11,128,998	7.4%
Weather	2,969	17.4%	127,238	15.3%	29,275,977	19.5%
Total	17,016	100%	832,891	100%	149,933,522	100%

§ 57.195 (e) (6) Quarterly and year-to-date information on progress toward meeting transmission and distribution inspection and maintenance goals/objectives (FOR FIRST, SECOND AND THIRD QUARTER REPORTS ONLY).

a. A report attached as Appendix III provides a listing of updates to the planned Ensure Reliable Service work for 2006.
b. AP's goals may vary slightly throughout the year as work may be modified to meet new or changing field conditions. Some work has more inherent uncertainty associated with establishing budgets and goals more than a year ahead of time.

§ 57.195 (e) (7) Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures IN TOTAL AND DETAILED BY THE EDC'S OWN FUNCTIONAL ACCOUNT CODE OR FERC ACCOUNT CODE AS AVAILABLE. (For first, second and third quarter reports only.)

a. Please note that AP's financial expenditure reporting system is based on a hierarchical view of the company. Cost categories may change as individual groups are sometimes realigned but the total T&D O&M expenditures will remain consistent.

T&D Area	Q2 2006 Budget ($1000)	Q2 2006 Actual ($1000)	YTD 2006 Budget ($1000)	YTD 2006 Actual ($1000)
Distribution DEPT	$ (85)	$ (121)	$ (229)	$ (292)
Distribution Support DEPT	$ 1,377	$ 1,578	$ 2,252	$ 2,662
Field Operations DEPT	$ 4,764	$ 5,211	$ 9,771	$ 10,261
Forestry DEPT	$ 3,748	$ 3,666	$ 7,330	$ 6,541
Transportation DEPT	$ 4	$ 5	$ 9	$ 10
Distribution Subtotal	**$ 9,808**	**$ 10,339**	**$ 19,132**	**$ 19,182**
System Planning DEPT	$ -	$ -	$ 146	$ 189
Substations DEPT	$ 1,750	$ 1,672	$ 3,245	$ 3,094
System Operations DEPT	$ 959	$ 961	$ 2,246	$ 2,121
Technical Services DEPT	$ 750	$ 705	$ 1,481	$ 1,371
Transmission Other DEPT	$ 147	$ 206	$ 231	$ 376
Transmission Engineering DEPT	$ 818	$ 794	$ 1,440	$ 1,504
Transmission Projects DEPT	$ 168	$ 175	$ 309	$ 330
Transmission Subtotal	**$ 4,592**	**$ 4,513**	**$ 9,098**	**$ 8,985**
Total T&D O&M	$ 14,400	$ 14,852	$ 28,230	$ 28,167
Note: As of Q2, System Planning was incorporated into other groups listed above.				

§ 57.195 (e) (8) Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures; IN TOTAL AND DETAILED BY THE EDC'S OWN FUNCTIONAL ACCOUNT CODE OR FERC ACCOUNT CODE AS AVAILABLE. (For first, second and third quarter reports only.)

($ in Thousands)	Q2 Budget	Q2 Actual	YTD Budget	YTD Actual
Distribution Lines	$ 10,494	$ 9,360	$ 20,988	$ 19,335
Distribution Substations	$ 1,900	$ 2,758	$ 3,800	$ 7,082
EHV Lines	$ (0)	$ (97)	$ (1)	$ 1,902
EHV Substations	$ (222)	$ 169	$ (444)	$ (954)
General Plant	$ 1,790	$ 531	$ 3,579	$ 943
Sub-Transmission	$ 8	$ 308	$ 15	$ 361
Transmission Lines	$ 372	$ 573	$ 745	$ 837
Transmission Substations	$ 1,044	$ 285	$ 2,088	$ 457
Total	$ 15,385	$ 13,886	$ 30,770	$ 29,963

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

PA	Position Name
Lead Lineman	103
Lineman A	59
Lineman B	1
Lineman C	2
SS Crew Leader Maintenance	15
SS Electrician A	33
SS Electrician Apprentice	5
SS Electrician B	4
SS Electrician C	7
Serviceman A	87
Serviceman Apprentice	25
Serviceman B	1
Serviceman C	4
Utilityman A	7
Utilityman B	2
	355

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

a. Contract dollars include capital as well as O&M work as available from AP financial reporting system. Note that much of AP's contracted work involves firm price contracts for which no man-hours are documented.

Quarter	Contract Dollars - Qtr	Contract Dollars - YTD
1st qtr	$5,369,584	$5,369,584
2nd qtr	$5,750,832	$11,120,416

§ 57.195 (e) (11) Monthly call-out acceptance rate for transmission and distribution maintenance workers PRESENTED IN TERMS OF BOTH THE PERCENTAGE OF ACCEPTED CALL-OUTS 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.

a. Attached as Appendix IV is a report indicating call out acceptance for the each service center in AP Pennsylvania service territory.
b. The monthly call-out acceptance rate does not include statistics for crewmembers who are assigned ready-response duties, where applicable.
c. Allegheny Power implemented its Automated Resource Call Out System (ARCOS) on June 10, 2005 to track the amount of time to obtain necessary personnel.

d. The average callout acceptance time per worker per list called was 9.3 minutes in the second quarter. This number represents the elapsed time per callout list divided by the number of people that accepted. (It should be noted that there was a slight error in the calculation of this in our previous report, which made the number slightly lower than actual. This error has been corrected.) This time includes ready response, which has an elapsed time of 0 minutes. The data is only for linemen and electrician callouts. Allegheny Power has developed a method to calculate average callout acceptance time per crew from our automated system; for the 2nd quarter, the average response time per crew was 13.1 minutes.

Appendix I – 5% Distribution Circuit Statistics

SCName	SSName	CktName	CustServed	DCII	SAIFI	SAIDI	CAIDI	ASAI	CMI	CustIntrup	CircuitLockouts	Incidents	Miles
Arnold	ALL DAM NO. 5	SCHENLEY	180	1	7.22	940	130	0.99821	169,644	1,303	7	14	5
Arnold	FAWN	BULL CREEK	857	55	1.96	481	245	0.99908	411,948	1,678	1	35	42
Arnold	GOBAIN	PITTSBURGH STREET	1618	73	1.7	201	118	0.99962	325,039	2,744	0	37	34
Arnold	HARWICK	SPRINGDALE	1095	33	3.12	801	257	0.99848	877,281	3,412	3	15	11
Arnold	SARDIS	DRENNEN	191	73	1.29	232	180	0.99956	44,217	246	2	12	15
Arnold	SILVERVILLE	COLE ROAD	1736	86	0.38	66	175	0.99987	114,168	651	0	60	71
Arnold	TUNNELTON	TUNNELTON_DIST	99	33	2.03	846	417	0.99839	83,750	201	2	7	6
Boyce	CECIL	MURRAY HILL	1677	31	1.81	861	477	0.99836	1,444,062	3,028	0	61	24
Butler	BUENA VISTA	HOOKER	304	44	2.76	627	227	0.99881	190,485	839	0	21	23
Butler	COOPERSTOWN	COOPERSTOWN	940	69	1.47	275	187	0.99948	258,510	1,381	1	35	46
Butler	HERMAN	HERMAN	798	26	3.88	874	225	0.99834	697,629	3,097	5	54	39
Butler	SAXONBURG	CABOT	886	73	1.24	225	182	0.99957	199,693	1,100	1	29	45
Charleroi	BENTLEYVILLE	ELLSWORTH	2065	37	3.16	717	227	0.99864	1,479,718	6,532	3	33	67
Charleroi	VANCEVILLE	VANCEVILLE	1304	37	2.15	775	361	0.99853	1,010,723	2,803	1	61	102
Clarion	SHAMBURG	SHAMBURG	4	58	1.75	432	247	0.99918	1,728	7	0	3	1
Hyndman	HYNDMAN	RT 96S	541	84	0.42	87	207	0.99983	46,926	227	0	18	39
Jeannette	HUNTINGDON	SCOTCH HILL	699	47	1.81	605	335	0.99885	423,241	1,263	2	54	23
Jeannette	SEWICKLEY	HERMINIE	1228	-1	4.16	1391	334	0.99735	1,708,024	5,115	3	51	41
Jefferson	FRANKLIN	ROGERSVILLE	845	34	1.46	787	539	0.99850	664,547	1,232	0	35	115
Jefferson	RUTAN	BRISTORIA	1140	-117	6.73	3665	544	0.99303	4,176,840	7,671	3	126	189
Jefferson	RUTAN	WINDRIDGE	1272	-9	2.88	1595	553	0.99697	2,029,964	3,669	0	97	199
McConnellsburg	EMMAVILLE	STONEY BREAK	362	93	0.01	2	153	1.00000	766	5	0	5	54
McDonald	HICKORY	HICKORY	891	35	2.15	804	374	0.99847	716,738	1,914	0	51	68
St Marys	WEEDVILLE	BYRNEDALE	408	50	2.36	536	227	0.99898	218,633	962	2	9	21
St Marys	WEEDVILLE	WEEDVILLE	1338	20	4.01	973	243	0.99815	1,302,547	5,371	4	48	75
State College	CENTRE HALL	CENTRE HALL	934	57	2.55	412	161	0.99922	384,706	2,385	1	37	37
State College	CENTRE HALL	POTTERS MILLS	854	76	0.52	157	305	0.99970	134,161	440	0	45	79
State College	FILLMORE	COURTS	602	93	0.15	15	104	0.99997	9,275	89	0	9	20
State College	FOWLER	BALD EAGLE	381	-34	4.73	2035	430	0.99613	775,573	1,803	2	31	41
State College	MT. RIANSARES TOWER	MT. RIANSARES	13	2	2	1340	670	0.99745	17,425	26	0	2	4
State College	PORT MATILDA	PORT MATILDA	1356	68	2.03	264	130	0.99950	358,472	2,749	1	74	98
State College	PORT MATILDA	STORMSTOWN	861	80	1.48	119	80	0.99977	102,119	1,275	1	23	59
State College	STUCK	STUCK EXT	29	68	2.17	242	111	0.99954	7,014	63	0	5	9
State College	THOMPSON FARM	TOFTREES	928	1	5.23	1227	235	0.99767	1,137,764	4,849	4	37	16
State College	WATERVILLE	WATERVILLE	337	19	4.15	976	235	0.99814	329,235	1,400	0	20	20
Uniontown	SUMMIT	CHALK HILL	567	10	4.29	1149	268	0.99781	651,583	2,431	4	13	27
Washington	AMITY	AMITY	504	43	1.43	653	457	0.99876	329,371	721	1	16	57
Washington	GALLEY	WATERDAM	1261	-12	2.61	1641	629	0.99688	2,069,007	3,289	1	80	20
Washington	HOUSTON	CHARTIERS	2541	12	5.26	984	187	0.99813	2,499,727	13,378	4	77	45
Washington	LONG FARM SHAFT	LONG FARM SHAFT	116	87	0.04	11	259	0.99998	1,293	5	0	3	9

Appendix II – 5% Distribution Circuit Remedial Actions

SCName	SSName	CktName	Actions Taken or Planned	Status
Arnold	ALL DAM NO. 5	SCHENLEY	Tree trimming performed in 2005.	Monitor results.
Arnold	FAWN	BULL CREEK	Tree trimming performed in 2005	Monitor results.
Arnold	GOBAIN	PITTSBURGH STREET	Analyze circuit under Circuit Improvement Initiative.	Plan review.
Arnold	HARWICK	SPRINGDALE	Fifteen sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
Arnold	SARDIS	DRENNEN	Tree trimming performed in 2005. One sectionalizing device added as part of 2005 RIPInit.Substation automation planned for early 2006; many circuit lockouts will be eliminated.	Automation complete. Monitor results.
Arnold	SILVERVILLE	COLE ROAD	Tree trimming performed in 2005.	Monitor results.
Arnold	TUNNELTON	TUNNELTON_DIST	Installed additional switching to reduce outage durations by picking up customers from an adjacent circuit.	Monitor results.
Boyce	CECIL	MURRAY HILL	Tree trimming planned for 2006.	Plan work.
Butler	BUENA VISTA	HOOKER	Tree trimming planned for 2006.Substation automation completed in 2005; many circuit lockouts will be eliminated.	Automation complete. Monitor results.
Butler	COOPERSTOWN	COOPERSTOWN	Tree trimming planned for 2006.	Plan work.
Butler	HERMAN	HERMAN	Reviewed fuse coordination (RIPInit) in 2004. Load balancing completed in 2005.	Monitor results.
Butler	SAXONBURG	CABOT	Six sectionalizing devices to be added as part of 2006 RIPInit.	Engineering complete.
Charleroi	BENTLEYVILLE	ELLSWORTH	Tree trimming planned for 2006.	Plan work.
Charleroi	VANCEVILLE	VANCEVILLE	Tree trimming planned for 2006.	Plan work.
Clarion	SHAMBURG	SHAMBURG	2 outages in the year affected the one industrial customer on this circuit.	Monitor reliability.
Hyndman	HYNDMAN	RT 96S	Tree trimming performed in 2005.	Monitor results.
Jeannette	HUNTINGDON	SCOTCH HILL	Seven sectionalizing devices added as part of 2004 RIPInit. Tree trimming planned for 2006.	Plan work.
Jeannette	SEWICKLEY	HERMINIE	Tree trimming planned for 2006.	Plan work.
Jefferson	FRANKLIN	ROGERSVILLE	Fourteen sectionalizing devices added as part of 2004 RIPInit Tree trimming performed in 2005	Monitor results.
Jefferson	RUTAN	BRISTORIA	Nineteen sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
Jefferson	RUTAN	WINDRIDGE	Tree trimming performed in 2005.	Monitor results.
McConnellsburg	EMMAVILLE	STONEY BREAK	Tree trimming performed in 2005.	Monitor results.
McDonald	HICKORY	HICKORY	Fifteen sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
St Marys	WEEDVILLE	BYRNEDALE	Analyze circuit under Circuit Improvement Initiative.	Review complete. Recommend fault indicators and arrestors. Also helps Weedville.
St Marys	WEEDVILLE	WEEDVILLE	Tree trimming performed in 2005/2006 Thirty-four sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
State College	CENTRE HALL	CENTRE HALL	Six sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
State College	CENTRE HALL	POTTERS MILLS	86% of the outages occurred on 3 days in January during ice storm.	Monitor reliability.
State College	FILLMORE	COURTS	Tree trimming planned for 2006.	
State College	FOWLER	BALD EAGLE	Tree trimming performed in 2005. Twenty-nine sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
State College	MT. RIANSARES TOWER	MT. RIANSARES	Tree trimming performed in 2005.	Monitor results.
State College	PORT MATILDA	PORT MATILDA	Tree trimming performed in 2005. Twenty-two sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
State College	PORT MATILDA	STORMSTOWN	96% of the outages occurred on 3 days in January during ice storm.	Monitor reliability.
State College	STUCK	STUCK EXT	Four sectionalizing devices added as part of 2004 RIPInit.	Monitor results.
State College	THOMPSON FARM	TOFTREES	Tree trimming planned for 2006.	Plan work
State College	WATERVILLE	WATERVILLE	Entire circuit reviewed for additional fusing opportunities with three additional locations identified in 2005. One-third of the outages were caused by ties with another utility.	Monitor reliability.
Uniontown	SUMMIT	CHALK HILL	Tree trimming planned for 2006.	Plan work.
Washington	AMITY	AMITY	Ten sectionalizing devices added as part of 2004 RIPInit. Circuit review planned for 2006.	Plan review.
Washington	GALLEY	WATERDAM	Tree trimming planned for 2006. Substation automation planned for early 2006; many circuit lockouts will be eliminated.	Automation complete. Monitor results.
Washington	HOUSTON	CHARTIERS	Tree trimming planned for 2006. Circuit reviewed in early 2006 for possible splitting to reduce outages and outage time.	Engineering in progress.
Washington	LONG FARM SHAFT	LONG FARM SHAFT	Tree trimming planned for 2006.	Plan work.

Note: A non-excludable ice storm on January 6-9, 2005 affected most of the State College Service Center circuits on this list.

Appendix III – Goals Progress

2006 Goals - Pennsylvania - Complete Planned Ensure Reliable Service (ERS) Work Second Quarter Results				
ERS Program/Project	Unit of Measurement	Target for 2006	Actual Completed	% Completed
Transmission Herbicide Application	# Transmission Lines	12	3	25%
Transmission Lines Trimming and Clearing	# Transmission Lines	46	6	13%
Subtransmission Herbicide Application	# of Subtransmission Lines	54	10	19%
Subtransmission Line Trimming and Clearing	# of Subtransmission Lines	30	2	7%
Distribution Line Trimming, Clearing & Herbicide Applic.	# of Distribution Line Miles	6,438	2,568	40%
Major ERS SS Projects	# Projects	12	4.8	40%
Major ERS Lines Projects	# Projects	3	0.8	25%
Transmission Comprehensive Patrol	# Transmission Lines	13	11	85%
Transmission General Patrol	# Transmission Lines	120	0	0%
Ground & Footer Inspections	# Transmission Lines	8	0	0%
Pole Inspection	# Transmission Lines	11	9	82%
Pole Replacements	# Transmission Poles	0	0	0%
Non-Critical Transmission Repairs	# Non-Critical Items	49	33	67%
Subtransmission General Patrol	# Subtransmission Lines	325	0	0%
SS Work (Includes Capital, Planned, & Preventative)	Man-Hours	71,740	34,858	49%
SS Spraying	Man-Hours	134	1	1%
Controls Work (Includes Cap., Planned, & Preventative)	Man-Hours	3,163	1,534	48%
Individual ERS Budget Projects	Man-Hours	13,448	8,336	62%
Small Planning Projects	Man-Hours	23,398	9,578	41%
Pole Inspection	# of Circuits	118	80	68%
Pole Reinforcement	# Poles	209	0	0%
Danger Poles	# Danger Poles	174	104	60%
Reject Poles	# Reject Poles	175	150	86%
AIM Work	Points Completed	1,768	1,419	80%
RIP Program	Manhours	15,320	9,154	60%
UG Equipment Inspections	# Locations	6,577	3,281	50%
Recloser Inspections	# Reclosers	3,061	2,068	68%
Regulator Inspections	# Regulators	353	218	62%
Capacitors Inspections	# Capacitors	1,014	770	76%
Recloser Replacements	# Reclosers	222	133	60%
UGD Cable Replacement	# Feet	16,000	5,973	37%
Cable Injection	# Feet	50,000	19,510	39%

Appendix IV – Callout Acceptance

Allegheny Power 2006

Pennsylvania Local 102

Linemen

Service Center	Jan,Feb,Mar			Apr,May,Jun			Jul,Aug,Sep			Oct,Nov,Dec			YTD		
	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average
Arnold	565	120	21%	862	209	24%	0	0		0	0		1427	329	23%
Boyce	243	84	35%	411	158	38%	0	0		0	0		654	242	37%
Butler	604	226	37%	625	227	36%	0	0		0	0		1229	453	37%
Charleroi	429	149	35%	328	155	47%	0	0		0	0		757	304	40%
Clarion	113	43	38%	182	63	35%	0	0		0	0		295	106	36%
Jeannette	1279	136	11%	843	177	21%	0	0		0	0		2122	313	15%
Jefferson	533	124	23%	442	112	25%	0	0		0	0		975	236	24%
Kittanning	201	94	47%	171	61	36%	0	0		0	0		372	155	42%
Latrobe	454	124	27%	710	211	30%	0	0		0	0		1164	335	29%
McConnellsburg	169	98	58%	204	123	60%	0	0		0	0		373	221	59%
McDonald	189	40	21%	229	80	35%	0	0		0	0		418	120	29%
Pleasant Valley	336	121	36%	281	118	42%	0	0		0	0		617	239	39%
St.Mary's	180	93	52%	248	130	52%	0	0		0	0		428	223	52%
State College	580	149	26%	596	187	31%	0	0		0	0		1176	336	29%
Uniontown	659	129	20%	362	165	46%	0	0		0	0		1021	294	29%
Washington	661	116	18%	529	109	21%	0	0		0	0		1190	225	19%
Waynesboro	603	152	19%	829	238	29%	0	0		0	0		1632	390	24%
Total AP Average	7998	1998	25%	7852	2523	32%	0	0		0	0		15850	4521	29%

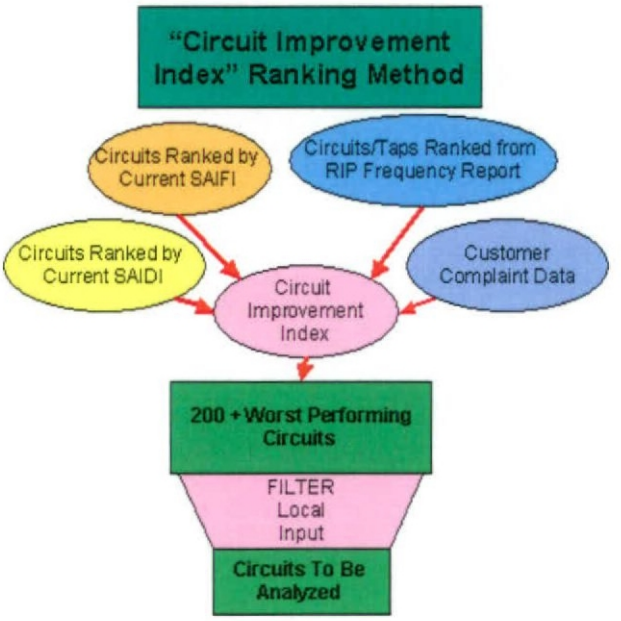
Electricians

Service Center	Jan,Feb,Mar			Apr,May,Jun			Jul,Aug,Sep			Oct,Nov,Dec			YTD		
	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average	No. of Calls	No. Accepted	Average
Arnold	37	24	65%	71	40	56%	0	0		0	0		108	64	59%
Boyce	15	11	73%	18	15	83%	0	0		0	0		33	26	79%
Butler	40	21	53%	43	20	47%	0	0		0	0		83	41	49%
Charleroi	32	13	41%	58	26	45%	0	0		0	0		90	39	43%
Jeannette	28	6	21%	72	12	17%	0	0		0	0		100	18	18%
Jefferson	42	16	38%	44	17	39%	0	0		0	0		86	33	38%
Kittanning	23	14	61%	28	13	46%	0	0		0	0		51	27	53%
Latrobe	38	12	32%	67	13	19%	0	0		0	0		105	25	24%
Pleasant Valley	59	20	34%	59	16	27%	0	0		0	0		118	36	31%
St.Mary's	18	10	53%	29	12	41%	0	0		0	0		48	22	46%
State College	30	9	30%	22	11	50%	0	0		0	0		52	20	38%
Washington	24	5	21%	30	11	37%	0	0		0	0		54	16	30%
Waynesboro	63	19	30%	90	21	23%	0	0		0	0		153	40	26%
Total AP Average	450	180	40%	631	227	36%	0	0		0	0		1081	407	38%
Total Combined AP Average	8448	2178	26%	8483	2750	32%	0	0		0	0		16931	4928	29%

Appendix V – Circuit Improvement Index

Circuit Improvement Index replaces Distribution Circuit Improvement Index (DCII) as the primary means of selecting poor performing circuits for annual evaluation. DCII is a satisfactory ranking if statistics alone (SAIFI, CAIDI, SAIDI, and ASAI) are used to evaluate circuit performance based on a five-year system average performance. But circuit improvement involves much more than just a high-level statistical ranking. Circuits need to be evaluated for a number of factors including frequency of lockouts, frequency of major tap interruptions representing individual customer outage frequency, customer complaint data (if applicable), plus traditional reliability indexes such as SAIFI and SAIDI. A 'master' circuit improvement list will be generated annually and reviewed at the local levels for field input. Field offices, being closer to the customer, have information needed to complete the selection process based on known circuit problems. The master list will then be narrowed to the 100 or so circuits to be studied for the next year. No less than the required applicable state commission requirement will be addressed. Under the new circuit selection method, about the same number of circuits will be evaluated since 5% of AP's 1850 circuits equals 93 circuits. Once circuits are selected for the next year, individual analysis will take place as part of AP's ongoing structured Reliability Improvement Program (RIP). Outage causes will be evaluated, circuit outage maps will be created to assist in the evaluation if needed, and budgets and work plans will be established to improve reliability for viable projects.

A schematic diagram of the process follows:



Appendix VI – Major Event Descriptions

Commission reports for the following major events are presented on the pages following this appendix:

i. There were no Major Events in the second quarter.

Procurement and Materials Management Process For Allegheny Energy's Monongahela Power Company Fort Martin Electric Generating Station Flue Gas Desulphurization Scrubber Project

The following is an overview of the process for the acquisition of equipment and materials for the construction of the Flue Gas Desulphurization (FGD) units at Allegheny Energy's Monongahela Power Company Fort Martin Electric Generating Station located in Monongalia County, West Virginia.

The following definitions are provided for clarity:

"Engineering Design Team"- A team of Allegheny Energy, contractor and consultant engineers, reporting to the Allegheny Energy Project Director, responsible for the design of the FGD units and the specification of all equipment and materials.

"Procurement Team" – A team of Allegheny Energy procurement specialists and contractor staff, reporting to the Allegheny Energy Procurement Team Leader and Project Director, responsible for the procurement of equipment and material for the project.

"**Material Management Team**" – A team of Allegheny Energy and contractor material management and expediting personnel, reporting to the Allegheny Energy Materials Management Team Leader and Project Director, responsible for the scheduling, tracking, and delivery of all equipment and material for the project, from fabrication through to on-site storage.

"**Construction Management Team**"- A team of Allegheny Energy and contractor construction management personnel, reporting to the Allegheny Energy Project Director, responsible for the installation of all material and equipment.

The following is the process to be utilized for the procurement and management of all materials and equipment required to construct the FGD units:

1. Specifications for all material and equipment required for construction will be provided by the **Engineering Design Team**.

2. The **Procurement Team** will select suppliers who are qualified to provide materials and equipment per the specifications utilizing Allegheny Energy's procurement policies, procedures and business practices.

3. Upon selection of a vendor, the **Procurement Team** will issue an Allegheny Energy Purchase Order with terms, conditions and payment terms specific to this project.

4. Material and equipment expediting will be provided by representatives of the **Procurement**, **Materials Management** and **Engineering Design** Teams as necessary.

5. Material and equipment will be received at the site, stored, and controlled by the **Materials Management Team** and issued to the **Construction Management Team** for installation.

6. The Construction Management Team will be responsible for the security of all construction equipment and materials. Any surplus materials will be returned to the Materials Management Team for storage and retention or disposal.

Re: Allegheny Power Second Quarter 2006
Reliability Report

CERTIFICATE OF SERVICE

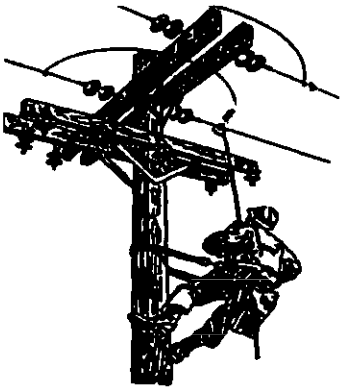
I certify that this 1st day of August 2006, I have served a true and correct copy of the Quarterly Reliability Report of Allegheny Power, by first-class mail, postage prepaid, upon the following:

VIA FIRST-CLASS MAIL

Office of Consumer Advocate
555 Walnut Street
Forum Place, 5th Floor
Harrisburg, PA 17101-1921

Office of Small Business Advocate
Suite 1102, 300 North 2nd Street
Harrisburg, PA 17101

John L. Munsch
Attorney for ALLEGHENY POWER



CITIZENS' ELECTRIC COMPANY

1775 INDUSTRIAL BLVD • P.O. BOX 551 • LEWISBURG, PA 17837-0551 • (570) 524-2231 • FAX: (570) 524-5887

October 23, 2006

ORIGINAL

Mr. James J. McNulty, Secretary
Pennsylvania Public Utility Commission
PO Box 3265
Harrisburg, PA 17105-3265

L-00030161

Dear Mr. McNulty,

Enclosed please find an original and six copies of the Third Quarter, 2006 Reliability Report for Citizens' Electric Company.

Please contact me at 570-522-6143 or kelchnerj@citizenselectric.com if I can answer any questions.

Sincerely,

John A. Kelchner, PE
Vice President, Engineering & Operations

DOCUMENT FOLDER

cc: Pennsylvania Office of Consumer Advocate
Pennsylvania Office of Small Business Advocate

RECEIVED
OCT 23 2006
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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Citizens' Electric Company
Quarterly Service Reliability Report
Third Quarter, 2006

Prepared by John A. Kelchner, PE
Vice President of Engineering & Operations
570-522-6143
kelchnerj@citizenselectric.com
October 23, 2006

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

We experienced no Major Events during the preceding quarter.

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

Index	Rolling 12-Month Value for Quarter	Benchmark	Standard
SAIFI	0.12	0.21	0.27
SAIDI	10	21	38
CAIDI	86	105	141

Total # of Customers Served	# of Interruptions	# of Customers Affected	Customer Minutes
6,683	52	807	69,124

The following outages were approved for exclusion as Major Events during the preceding 12-month period and are not included in the above calculations:

Date	# of Customers Affected	Customer Minutes
11/6/2005	1,252	20,032
11/10/2005	1,252	62,600
1/26/2006	1,252	38,812
2/17/2006	988	30,889

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

Outage Cause	Number of Interruptions	% of Interruptions	Number of Customers Affected	Customer Interruption Minutes
On R/W Trees	0	0	0	0
Animals	25	48	280	14,745
Equipment	13	25	324	41,857
Off R/W Trees	2	4	28	1,212
Weather	8	15	98	6,273
Vehicle	0	0	0	0
Other	4	8	77	5,037
Total	52		807	69,124

Discussion

A series of moderate thunderstorms during July helped to increase the number of weather-related outages during the preceding period. All outages this quarter affected relatively small numbers of customers and were of short duration. We are continuing our efforts to reduce animal outages through the aggressive installation of protectors and insulated leads on transformer bushings and the use of insulated equipment mounting brackets on poles.

Orange & Rockland
a conEdison, inc. company
(845) 577-3341

ORIGINAL

Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley NY 10977-5300
www.oru.com

October 25, 2006

Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

Attention: Secretary James J. McNulty

Re: Third Quarter 2006 Quarterly Report for Pike County Light and Power
PUC Docket No. L-00030161; Rulemaking Re Amending Electric Service Reliability Regulations At 52 Pa. Code Chapter 57

Dear Secretary McNulty:

Pike County Light & Power Company ("Pike") hereby submits six copies of its Third Quarter 2006 quarterly report as set forth in the Pennsylvania Public Utility Commission's ("Commission, PUC)") Docket No. L-00030161 adopted Rulemaking Re Amending Electric Service Reliability Regulations At 52 Pa. Code Chapter 57 ("Order"). As such, Pike's quarterly reporting requirements, as set forth in Section 57.195(e) (1) (2) and (5) of the Order, are enclosed. At a Public hearing on August 17th, the Commission ordered that the Pike Reliability Standards be modified in order to reflect major events that were improperly excluded from the years on which the standards were based. O&R received formal notice of this Order on October 11th. This Filing reflects the revised Standards.

Please contact me if you have any questions regarding this report or require any additional information.

Very truly yours,

Timothy Garvin

Timothy T. Garvin
Manager - Performance & Operational Engineering
Pike County Light and Power
(Orange and Rockland Utilities, Inc.)

Enclosures

cc: Office of Consumer Advocate
Office of Small Business Advocate

ORIGINAL

Pike County Light and Power Company
(Orange and Rockland Utilities, Inc.)

Quarterly Reliability Report

Third Quarter
2006

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

3rd Quarter 2006
Major Events

Date	Time	Circuit	Cause	Duration	Customers Affected	Cust Min of Interruption

3rd Quarter 2006
Pre-Arranged Outages

Date	Time	Circuit	Cause	Duration	Customers Affected	Cust Min of Interruption
2006/08/16	11:59:00	L07-06-34	Pre-Arranged	99 minutes	18	1,782
2006/08/17	13:10:00	L07-06-34	Pre-Arranged	90 minutes	2	180

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

Interruption Data
Rolling 12-Month Data

Year	Quarter	Customers Served Rolling 12 Mth	Number of Interruptions Rolling 12 Mth	Customers Affected Rolling 12 Mth	Customer Min of Interruptions Rolling 12 Mth
2005	4th Qtr	4,386	90	8,123	885,329
2006	1st Qtr	4,404	92	8,276	905,440
2006	2nd Qtr	4,424	74	6,173	801,156
2006	3rd Qtr	4,444	67	5,565	551,810

Performance Ratios
Rolling 12-Month Data

	Frequency SAIFI	Restoration CAIDI (Min)	Duration SAIDI (Min)
Benchmark	.97	159	154
Rolling 12 Mth Standard	1.31	215	282

Year	Qtr	Frequency SAIFI Rolling 12 Mth	Restoration CAIDI Rolling 12 Mth	Duration SAIDI Rolling 12 Mth
2005	4th Qtr	1.85	109	202
2006	1st Qtr	1.88	109	206
2006	2nd Qtr	1.40	130	181
2006	3rd Qtr	1.25	99	124

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

Third Quarter 2006
Cause Analysis
Rolling 12 Months Data
***Excludes Storms, Major Events, Pre-Arrranged**

Cause	Number of Interr. Rolling 12 Mth.	Number of Interr. Rolling 12 Mth. (%)	Customers Affected Rolling 12 Mth.	Customers Affected Rolling 12 Mth. (%)	Customer Min. Interr. Rolling 12 Mth.	Customer Min. Interr. Rolling 12 Mth. (%)
Animal Contact	4	6.0%	402	7.2%	50,294	9.1%
Tree Contact	40	59.7%	2,054	36.9%	373,196	67.6%
Overload	0	.0%	0	.0%	0	.0%
Work Error	1	1.5%	1,766	31.7%	10,596	1.9%
Equip. Failure	8	11.9%	312	5.6%	37,729	6.8%
Non-Comp Acc.	7	10.4%	624	11.2%	37,393	6.8%
Custmr Problem	0	.0%	0	.0%	0	.0%
Lightning	4	6.0%	218	3.9%	25,564	4.6%
Unknown-Other	3	4.5%	189	3.4%	17,038	3.1%
All Causes	67	100.0%	5,565	100.0%	551,810	100.0%

WELLSBORO ELECTRIC COMPANY

QUARTERLY RELIABILITY REPORT
57.195 REPORTING REQUIREMENTS

Third Quarter 2006
July-September 2006

SUBMITTED BY

ROBERT S. McCARTHY
VICE-PRESIDENT, ENGINEERING AND OPERATIONS
570-724-3516
bobbym@ctenterprises.org

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57.195 Reporting Requirements **Section (e) Item (2)**

Rolling 12-Month reliability index Values (SAIFI,CAIDI,SAIDI) 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 interrruption.

WELLSBORO ELECTRIC COMPANY

ROLLING TWELVE MONTH INTERRUPTION INDEXS

Third Quarter of 2006

SAIDI	SAIFI	CAIDI
94.09	1.3	72.1

ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC

SAIDI	SAIFI	CAIDI
278	1.66	167

57.195 Reporting Requirements Section (e) Item (2)

Wellsboro Electric Company **Reliability Index** **SAIDI**

MONTH	TOTAL CUST MINUTES	# CUSTOMERS SERVED
October-05	21910.8	5886
November-05	18953.4	5889
December-05	3029.4	5903
Jan-06	46000.2	5905
Feb-06	23728.8	5895
Mar-06	26127.6	5906
April-06	50821.8	5912
May-06	154202.4	5911
June-06	37702.8	5915
July-06	68925	5921
August-06	52734.6	5930
Sept-06	51735.6	5924
	555872.4	**70897**
	Average # Customers	Served 5908

Rolling 12 Month Average SAIDI Index **94.09**

WELLSBORO ELECTRIC COMPANY **Reliability Index** **SAIFI**

Month	**# of Customers Interrupted**	**# of Cust Served**	
Oct-05	191	5886	
Nov-05	204	5889	
Dec-05	60	5903	
Jan-06	528	5905	
Feb-06	361	5895	
Mar-06	396	5906	
April-06	2108	5912	
May-06	886	5911	
June-06	787	5915	
July-06	753	5921	
August-06	1022	5930	
Sept-06	406	5924	
		70897	
	7702	**5908**	Avg # of Customers

SAIFI INDEX **1.30**

Wellsboro Electric Company **Reliability Index CAIDI**

Month	Total Customer Mins	# of Customers Interrupted
Oct-05	21910.8	191
Nov-05	18953.4	204
Dec-05	3029.4	60
Jan-06	46000.2	528
Feb-06	23728.8	361
March-06	26127.6	396
April-06	50821.8	2108
May-06	154202.4	886
June-06	37702.8	787
July-06	68925	753
August-06	52734.6	1022
Sept-06	51735.6	406
	555872.4	**7702**

CAIDI INDEX **72.17**

57.195 **Reporting Requirements** **Section (e) Item (1)**

A decription of each major event that occurred during the preceding quarter including the time and duration of the event, the numer 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.

Date	Time of Event	Duration of Event	# Cust Affected Affected	# Customer Hours	Cause
8/4/2006	3:00 P.M.	26 hrs 35 min	1473	10889.2	Severe Thunderstorm

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

Outages from October 2005 Thru September 2006

Outage Cause	Number of Customers Affected	Number of Outages	Customer Minutes	Percentage of Outages
Animals	1213	75	64960.8	27.9%
Vehicles	465	7	69694.8	2.6%
Decay	4	4	187.2	1.5%
Electrical Overload	200	4	3213.6	1.5%
Equipment	953	48	71532.6	17.8%
Ice,Sleet,Frost	0	0	0	0.0%
Lightning	357	25	71629.2	9.3%
Other, Utilities	0	0	0	0.0%
Rain	13	1	883.8	0.4%
Trees	3329	43	196612.8	16.0%
Unknown	669	44	39336	16.4%
Wind	405	17	34719.6	6.3%
Public Contact	94	1	3102	0.4%
	7702	269	555872.4	100.0%

Duquesne Light
A DQE Company

Rates & Regulatory Affairs Unit
411 Seventh Avenue 8-6
Pittsburgh, Pennsylvania 15219

ORIGINAL

October 30, 2006

VIA OVERNIGHT MAIL DELIVERY:

James J. McNulty, Secretary
Pennsylvania Public Utility Commission
P. O. Box 3265
Harrisburg, Pennsylvania 17105-3265

Dear Mr. McNulty:

In accordance with the Commission's Order at L-00030161 entered March 20, 2006, on Duquesne's Petition for Protective Order Pertaining to Information contained in its Quarterly and Annual Reliability Reports, Duquesne is submitting an original and six (6) copies of its report for the quarter ended September 30, 2006, in two versions, both included under this transmittal letter. The first version contains only that information for which the Commission did not grant protective treatment. The second version includes all of the information required by 52 Pa. Code §57.195, is marked "confidential and proprietary" and is enclosed in a sealed envelope.

Duquesne respectfully requests that the version marked "confidential and proprietary" not be made available to the public.

Please return a date-stamped copy of this letter in the enclosed, self-addressed stamped envelope.

If you have any questions regarding the information provided, please contact me at 412.393.6334 or nkrajovic@duqlight.com.

Sincerely,

N. J. D. Krajovic

Nancy J. D. Krajovic
Manager
Regulatory Affairs

Enclosures

c: Mr. W. Williams – Bureau of CEEP w/ enclosure
Mr. I. A. Popowsky – Office of Consumer Advocate "
Mr. W. R. Lloyd – Office of Small Business Advocate "
Mr. D. Gill – Bureau of CEEP "
Mr. B. J. Loper – Bureau of CEEP "

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DUQUESNE LIGHT COMPANY
QUARTERLY RELIABILITY REPORT
October 30, 2006

57.195 Reporting Requirements

(d)(2) The name, title, telephone number and e-mail address of the persons who have knowledge of the matters, and can respond to inquiries.

Wayne H. Honath - Manager, Reliability & Standards
(412) 393-8332, whonath@duqlight.com

Nancy J. Krajovic - Manager, Regulatory Affairs
(412) 393-6334, nkrajovic@duqlight.com

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

No major events occurred during the third quarter of 2006.

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

RELIABILITY BENCHMARKS AND STANDARDS

Duquesne Light Company

System Performance Measures with Major Events Excluded

Entire System				
	SAIDI	**SAIFI**	**CAIDI**	**MAIFI**
Benchmark	126	1.17	108	*
12 Month Standard	182	1.40	130	*
2006 3Q (Rolling 12 mo)	**86**	**0.77**	**67**	*

* Sufficient information to calculate MAIFI is unavailable.

Data used in calculating the indices

Total KVA interrupted for the period:	5,376,065	KVA
Total KVA-minutes interrupted:	462,952,600	KVA-Minutes
System connected load as of 9/30/06:	6,960,124	KVA

Formulas used in calculating the indices

$$\text{SAIFI} = \frac{\text{(Total KVA interrupted) - (KVA impact of major events)}}{\text{System Connected KVA}}$$

$$\text{SAIDI} = \frac{\text{(Total KVA-minutes interrupted) - (KVA-minute impact of major events)}}{\text{System Connected KVA}}$$

$$\text{CAIDI} = \text{SAIDI/SAIFI}$$

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

Rank	Circuit	Connected KVA	KVA Min Interrupted	KVA Interrupted	SAIDI	SAIFI	CAIDI
1	22869 Midland-Cooks Ferry	34,481	13,415,665	99,549	389	2.9	135
2	23620 Raccoon	44,030	3,351,728	24,722	76	0.6	136
3	23622 Raccoon	41,920	4,470,447	43,311	107	1.0	103
4	23716 Pine Creek	38,302	6,662,134	151,395	174	4.0	44
5	23670 Montour	34,235	6,018,028	51,920	176	1.5	116
6	23783 Valley	45,098	4,258,988	95,537	94	2.1	45
7	23920 Logans Ferry	28,233	3,894,701	66,435	138	2.4	59
8	23683 Woodville	47,554	2,544,762	18,225	54	0.4	140
9	23715 Pine Creek	33,812	3,342,949	51,071	99	1.5	65
10	22860 Valley-Morado No. 2	11,185	5,525	100	0.5	0.01	55
11	22563 Pine Creek-Blaw Knox	4,555	7,297,578	26,806	1,602	5.9	272
12	23630 Sewickley	33,692	1,031,435	14,353	31	0.4	72
13	23635 Ambridge	37,088	6,240,496	71,289	168	1.9	88
14	23870 Mt. Nebo	26,795	4,268,915	79,150	159	3.0	54
15	23711 Pine Creek	33,318	2,745,402	18,903	82	0.6	145
16	22862 Ambridge-Sewickley #3	16,242	702,720	5,490	43	0.3	128
17	23650 Dravosburg	27,349	2,254,061	20,212	82	0.7	112
18	22854 Phillips-Aliquippa	12,917	0	0	0	0.0	0
19	23704 North	33,230	2,717,511	24,538	82	0.7	111
20	23782 Valley	37,618	2,001,835	7,334	53	0.2	273

Circuit performance is based on an annual statistical evaluation performed by SGS Statistical Services. Scores are assigned to each circuit based on time-weighted, multi-year outage data, and are available in the first quarter of the year. The scores include analysis of outage duration, outage frequency, mean time between failures, and customers served by each circuit. A gap score is calculated for each circuit by subtracting its composite score percentile from its connected KVA percentile. The circuits are stack-ranked according to gap scores and assigned a performance rank, with 1 being the lowest rank. The circuits in the above list are sorted by performance rank.

Additionally, Duquesne Light's Reliability & Standards group monitors the number of operations of automatic devices (circuit breakers, sectionalizers, reclosers, and fuses) to identify smaller pockets of customers experiencing frequent outages. This analysis goes beyond the circuit level, and is a proactive method of addressing small areas before they begin to affect circuit or system performance indices. This information is used throughout the year to plan and prioritize emergent projects. Projects identified by this method are rolled into the work plan on an ongoing, dynamic basis.

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

Rank	Circuit	Remedial Actions Planned or Taken
1	22869 Midland-Cooks Ferry	VM completed Q4 2002; VM scheduled for 2007. IR survey 7/28/04; hot spots repaired 8/23/04. Lateral fuses installed 5/3/04. Installed new sectionalizers 5/4/05 and 10/24/05; installed new recloser 8/20/05. Pilot to improve communications to hard to reach devices was successful. The improved communications method will be extended to other parts of the system.
2	23620 Raccoon	VM completed 10/15/04; VM scheduled for 2009. IR survey 11/23/05; hot spots repaired 1/3/06. Lateral fusing completed 9/05. A new circuit, Crescent 23662, will reduce exposure and connected load on this circuit, scheduled for design in 2007 and construction in 2008. Overload relief for 2 step-down transformer areas is under construction 90% complete as of 9/29/06. Additional sectionalizing to be designed by 12/31/06 and installed in 2007, including advanced installation of devices proposed for 23662, where practical. Circuit shows significantly improved performance YTD 2006 over 2005 (23,543 vs. 107,246 KVA interrupted; and 3,253,222 KVA-Minutes vs. 8,679,554).
3	23622 Raccoon	VM completed 10/4/2005. IR survey 6/29/04; hot spots repaired 8/23/04. Lateral fuses installed 6/04 and 5/05. Repaired failed lightning arresters. Replaced faulty insulators. Overload relief for 2 step-down transformer areas completed 10/06. Installed 3 additional switches in Q4 2005. Beaver Valley Mall rehab scope issued 1/30/06; to be designed & constructed in 2006 & 2007 (Work delayed by customer). YTD 2006 compared to 2005 shows a 50% reduction in outages (18 vs. 36), and similar improvements in KVA interrupted (29,266 vs. 78,164) and KVA-minutes (3,783,696 vs. 6,582,259).
4	23716 Pine Creek	New circuit on this list. VM completed 4Q 2004. Next VM proposed for 2008. IR survey 7/1/2004. All defects were repaired. New circuit at Wildwood substation (scheduled for fourth quarter 2008) includes installation of additional sectionalizers to improve restoration on 23716. YTD 2006 compared to 2005 shows a reduction in outages (14 vs. 31), KVA interrupted (48,003 vs. 143,742) and KVA-minutes (4,903,851 vs. 8,560,891). Performance will be monitored throughout 2006.
5	23670 Montour	VM completed Q4 2001; VM scheduled for 2006/2007. IR survey 11/11/05; hot spots repaired 1/31/06. Lateral fuses installed 6/05. New circuit, Findlay 23613, will reduce exposure and load on this circuit. Rights of way acquired, and construction in progress, to be completed by 12/06.
6	23783 Valley	VM completed Q3 2002; VM scheduled for 2007. IR survey 9/7/04; hot spots repaired 9/13/04. Lateral fuses installed 2/19/04. Defective sectionalizer control replaced 10/11/05. Replaced sectionalizer damaged by lightning. Converted 2 sectionalizers to wireless control. Last wireless conversion scheduled to be completed by 12/06. Additional sectionalizing to be designed in 2006 and installed in 2007.
7	23920 Logans Ferry	VM completed Q1 2006. IR survey 6/17/04; hot spots repaired 9/1/04. Lateral fuses installed 2/23/04. New circuit, Logans Ferry 23923, cut in 1/4/06; load transfer in 4/06 reduced exposure and connected KVA. New circuits from California Substation will greatly reduce exposure and connected KVA; expected cut-in 12/06.
8	23683 Woodville	IR survey 9/7/04; hot spots repaired 9/13/04. Lateral fuses installed 3/30/04. VM started 5/06; completed 9/06.
9	23715 Pine Creek	VM completed 2/4/05. New Wildwood substation is scheduled for cut-in June, 2007. This circuit is not part of the present scope but will be added to the project if necessary. This will reduce exposure and load. Lateral fusing completed on 2/16/05. IR was completed on 2/16/05. One hot spot repaired and four lightning arresters replaced. New circuit at Wildwood substation (scheduled for fourth quarter 2008) includes installation of additional sectionalizers to improve restoration on 23715.
10	22860 Valley-Morado No. 2	VM completed Q1 2006. Switches installed Q4 2005 to improve sectionalizing. Overloaded step-down transformers and non-standard aerial cable will be eliminated through conversion to 23 kV distribution and rearrangement of the area by 12/07. No outages in second quarter 2006; two single transformer outages in third quarter.
11	22563 Pine Creek-Blaw Knox	VM completed 4Q 2002. IR survey of RIDC Park area1/13/2006. All defects were repaired. The distribution load on this circuit will be transferred to a new 23 kV circuit supplied from the new California SS, which is to be completed by 12/06. Next VM scheduled for 2008.
12	23630 Sewickley	VM completed Q3 2003; VM scheduled for 2007. IR survey 8/10/04; hot spots repaired 9/30/04. Lateral fuses installed. A bulk power substation will be installed at Sewickley, subject to availability of 138 kV rights of way. Related work will include installation of a second Sewickley 23 kV circuit.
13	23635 Ambridge	VM completed Q3 2003; VM scheduled for 2007. IR survey 1998. Lateral fusing completed January 2006.
14	23870 Mt. Nebo	Repaired sectionalizer that misoperated. Remedial VM completed August/September, 2006. Next VM scheduled for 2008;. Lateral fuses installed 2/5/04. IR survey 7/15/04; hot spots repaired 8/23/04. IR surveyed again on 8/17/05. New circuit Mount Nebo 23871 reduced exposure and load on this circuit; energized 1/10/06. YTD 2006 compared to 2005 shows a reduction in outages (31 vs. 50), KVA interrupted (57,885 vs. 167,924) and KVA-minutes (2,809,042 vs. 19,740,031).

Notes: VM = Vegetation Management Line Clearance
IR = Infrared Inspection of Overhead Equipment

(e)(4) (continued)

15	23711 Pine Creek	New circuit on this list. IR Survey 2/17/2006. All repairs completed in third quarter. VM completed third quarter 2006. YTD 2006 compared to 2005 shows a reduction in outages (22 vs. 31). KVA interrupted (16,774 vs. 78,981) and KVA-minutes (2,674,382 vs. 9,478,593). Performance will be monitored for remainder of 2006.
16	22862 Ambridge-Sewickley #3	IR survey 1999. VM completed Q3 2003; VM scheduled for 2007. Circuit experienced only 1 outage year to date, caused by a vehicle.
17	23750 Dravosburg	New circuit on this list. VM completed 2003; VM scheduled for 2007. Circuit shows improvement in 2006. YTD 2006 compared to 2005 shows a 41% reduction in KVA-Minutes and 64% reduction in outage incidents. We will continue to monitor performance of this circuit.
18	22854 Phillips-Aliquippa	VM completed 8/22/2005; VM scheduled for 2010. A new circuit, Crescent 23662, will be extended to this area in 2008. Remote controlled devices will be installed for service restoration. No forced outages since 7/29/2005.
19	23704 North	VM completed in 2003. Next VM scheduled for 2007. New Wildwood substation will allow reduced exposure and load on this circuit. The expected cut-in date for Wildwood SS is 03/08. Lateral fusing completed 3/3/05. IR completed 3/02/05. One hot spot found and repaired. Two blown arrestors and bracing repaired.
20	23782 Valley	New circuit on this list. VM completed 7/06. Performance will be monitored in 2006.

Notes: ***VM = Vegetation Management Line Clearance***
IR = Infrared Inspection of Overhead Equipment

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

October 1, 2005 through September 30, 2006

Cause	No of Outages	Outage Percentage	KVA Total	KVA Percentage	KVA-Minute Total	KVA-Minute Percentage
Storms:	320	12%	779,032	14%	86,427,747	19%
Trees (Contact):	111	4%	111,263	2%	17,931,511	4%
Trees (Falling):	325	12%	658,709	12%	65,977,928	14%
Equipment Failures:	857	32%	2,054,111	38%	182,362,192	39%
Overloads:	455	17%	82,210	2%	11,017,370	2%
Vehicles:	146	6%	383,337	7%	40,471,137	9%
Other:	438	17%	1,307,403	24%	58,764,715	13%
Totals:	2,652	100%	5,376,065	100%	462,952,600	100%

(e)(6) Quarterly and year-to-date information on progress toward meeting transmission and distribution inspection and maintenance goals/ objectives.

Third Quarter 2006

(e)(6) (continued)

Year to Date 2006

(e)(7) Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC's own functional account code or FERC account code as available.

Program	2006 Budget	3rd Qtr Actual	3rd Qtr Budget	YTD Actual	YTD Budget
Restoration of Service	4,000,000	751,258	1,000,000	1,672,982	3,000,000
Customer Commitment	2,000,000	474,810	500,000	1,065,516	1,500,000
System Maintenance	21,300,000	5,557,120	5,325,000	17,330,996	15,975,000
System Capacity & Reliability	-	-	-	-	-
Infrastructure Support	-	-	-	-	-
Net Clearing	10,600,000	2,963,742	2,650,000	7,935,796	7,950,000
Total Work Plan	**37,900,000**	9,746,930	9,475,000	28,005,290	28,425,000
Total Non-Work Plan	56,664,000	14,292,062	15,835,506	38,506,194	41,263,000
Total Operations & Customer Services	**94,564,000**	24,038,992	25,310,506	66,511,484	69,688,000

(e)(8) Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures in total and detailed by the EDC's own functional account code or FERC account code as available.

Program	2006 Budget	3rd Qtr Actual	3rd Qtr Budget	YTD Actual	YTD Budget
Restoration of Service	18,000,000	6,465,768	5,235,000	13,968,110	13,900,000
Customer Commitment	19,000,000	5,770,263	5,165,000	15,310,613	14,045,000
System Maintenance	-	-	-	-	-
System Capacity & Reliability	161,500,000	43,561,608	51,430,000	115,356,231	123,045,000
Infrastructure Support	21,500,000	889,470	2,230,000	18,885,469	19,440,000
Net Clearing	-	(2,104,118)	-	(5,442,373)	-
Total Work Plan	**220,000,000**	54,582,991	64,060,000	158,078,050	170,430,000
Total Non-Work Plan	-	-	-	-	-
Total Operations & Customer Services	**220,000,000**	54,582,991	64,060,000	158,078,050	170,430,000

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

Telecom	Electronic Technician	7	
	Sr. Electronic Tech	12	
	Telecom Splicer/Trouble	9	
	Test Table Tech	1	
	Total	**29**	**29**
Substation	Electrical Equipment Tech	32	
	Protection & Control Tech	33	
	Sr. Elec Equipment Tech	7	
	Total	**72**	**72**
Underground	Apprentice UG	5	
	Temp Apprentice UG	0	
	Driver Helper	10	
	Journey UG Inspector	4	
	Journey UG Splicer	18	
	Sr. UG Splicer	5	
	UG Cable Installer	2	
	UG Mechanic	8	
	Network Operator	7	
	UG Cable Tester	4	
	Total	**63**	**63**
Overhead	Apprentice T&D	59	
	Laborer	3	
	Automotive Crane Operator	4	
	Equipment Attendant	1	
	Equipment Material Handler	5	
	Equipment Operator	1	
	Field Inspector	4	
	Journey Lineworker	80	
	Lineworker 2/c	3	
	Lineworker Helper	2	
	Rigger Crew Leader	2	
	Service Crew Leader	5	
	Shop Mechanic 2 Rigger	2	
	Yard Group Leader	2	
	Sr. Lineworker	67	
	Total	**240**	**240**
Street Light Changers	**Total**	**10**	**10**
Mobile Worker	**Total**	**3**	**3**

(e)(9) (Continued)

Engineering	Drafter	4	
	Temp Drafter	0	
	Survey	3	
	General Clerk – Grad	7	
	General Technician	4	
	GIS Technician B	2	
	Head File Record Cle	1	
	Temp Mobile Worker	0	
	Joint Use Technician	1	
	Right of Way Agent A	4	
	Sr. Technician	9	
	T&D Mobile Worker	3	
	Technician A	7	
	Technician B	9	
	Technician C	1	
	Test Technician, Mob	4	
	Total	**59**	**59**
Service Center Technician	General Technician	0	
	Sr. Technician	11	
	Technician	3	
	Total	**14**	**14**
Traveling Operator/Troubleshooter	Senior Operator	31	
	Traveling Operator	3	
	Traveling Operator 1	9	
	Distribution Regulation Tech	2	
	Troubleshooter	6	
	Troubleshooter 1/c	6	
	Total	**57**	**57**
Load Dispatcher	**Total**	**11**	**11**
Meter Technician	Meter Technician	19	
	Sr Meter Technician	21	
	Total	**40**	**40**
Meter Reader	**Total**	**16**	**16**
Customer Service Representatives	Autodialing Operator	12	
	Control Teller	1	
	Customer Service Rep	91	
	Intermediate Clerk	0	
	Sr. Customer Service	5	
	Telephone Switchboard	1	
	Teller	2	
	Total	**112**	**112**
Admin/Supervisory/Mgmt	**Total**	**425**	**425**
		Total	**1,151**

(e)(11) Monthly call-out acceptance rate for transmission and distribution maintenance workers presented in terms of both the percentage of accepted call-outs 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

	Accepts	Refusals	Total	Percentage
July	156	237	393	40%
August	81	174	255	32%
September	60	104	164	37%

Amount of time it takes to obtain the necessary personnel

	Total Calls	Workers Accepting	Average Response Time / Crew Call-out		Average Response Time / Worker	
July	53	156	20.1	1,064/53	6.8	1,064/156
August	31	81	13.6	422/31	5.2	422/81
September	18	60	23.9	431/18	7.2	431/60
3rd Quarter	102	297	18.8	1,917/102	6.5	1,917/297
YTD	278	796	25.2	7,015/278	8.8	7,015/796

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FEDERAL EXPRESS

October 30, 2006

James J. McNulty, Esquire
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, Pennsylvania 17120

Re: *PPL Electric Utilities Corporation*
Quarterly Reliability Report for the
Period Ended September 30, 2006
Docket No. L-00030161

Dear Mr. McNulty:

Enclosed for filing on behalf of PPL Electric Utilities Corporation ("PPL Electric") are an original and five (5) copies of PPL Electric's Quarterly Reliability Report for the Period Ended September 30, 2006. Also enclosed, in a sealed envelope, is a copy of the report containing competitively sensitive and proprietary information. The Company hereby requests that the Commission treat that information and the report containing the information as privileged and confidential. The report is being filed pursuant to the Commission's Final Rulemaking Order adopted May 7, 2004 in the above-captioned docket.

Pursuant to 52 Pa. Code § 1.11, the enclosed document is to be deemed filed on October 30, 2006, which is the date it was deposited with an overnight express delivery service as shown on the delivery receipt attached to the mailing envelope.

In addition, please date and time-stamp the enclosed extra copy of this letter and return it to me in the envelope provided.

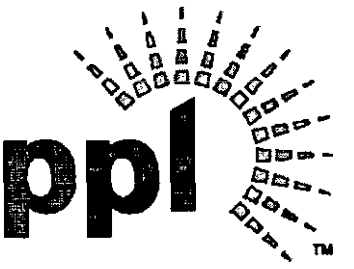
If you have any questions regarding this document, please call me or Joseph M. Kleha, PPL Electric's Manager-Regulatory Projects at (610) 774-4486.

Very truly yours,

Paul E. Russell

Enclosures

cc: Elizabeth H. Barnes, Esquire
Mr. Darren Gill



PPL Electric Utilities

PPL Electric Utilities Corporation
Quarterly Reliability Report
to the
Pennsylvania Public Utility Commission

October 2006

(1) A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.

There were no major events during this quarter.

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

The following table provides data for the 12 months ended September 30, 2006.

SAIFI (Benchmark = 0.98; Rolling 12-month Std. = 1.18)	1.270
CAIDI (Benchmark = 145; Rolling 12-month Std. = 174)	153
SAIDI (Benchmark = 142; Rolling 12-month Std. = 205)	194
MAIFI[1]	6.013
Average Number of Customers Served[2]	1,355,600
Number of Sustained Customer Interruptions (Trouble Cases)	24,727
Number of Customers Affected[3]	1,721,130
Customer Minutes of Interruptions	262,965,699
Number of Customer Momentary Interruptions	8,150,856

SAIFI has exceeded the 12-month standard, which is a direct result of extraordinary storm experience beyond PPL Electric's control during the reporting period.

Specifically, there were eight (8) PUC reportable storms (≥2,500 customers interrupted for ≥6 hr.) during the reporting period, more than any other single year since 1991, and almost double the average of 4.2 storms per year during the benchmark years, 1994-1998.

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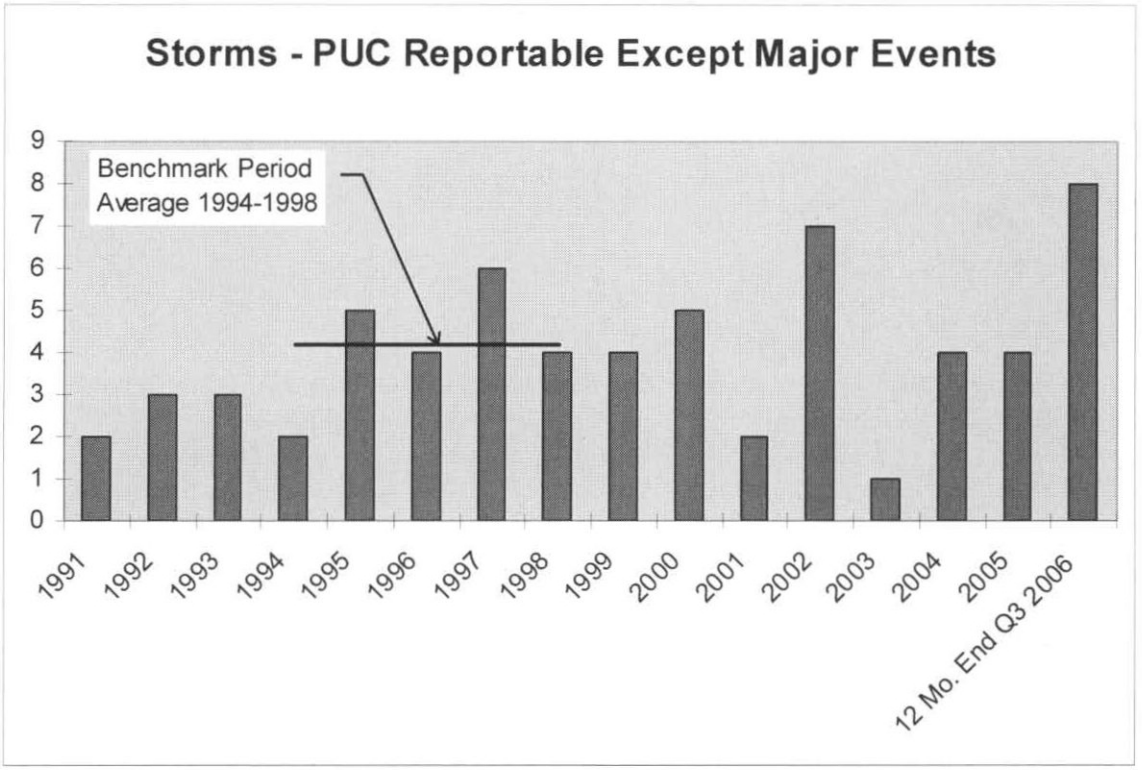
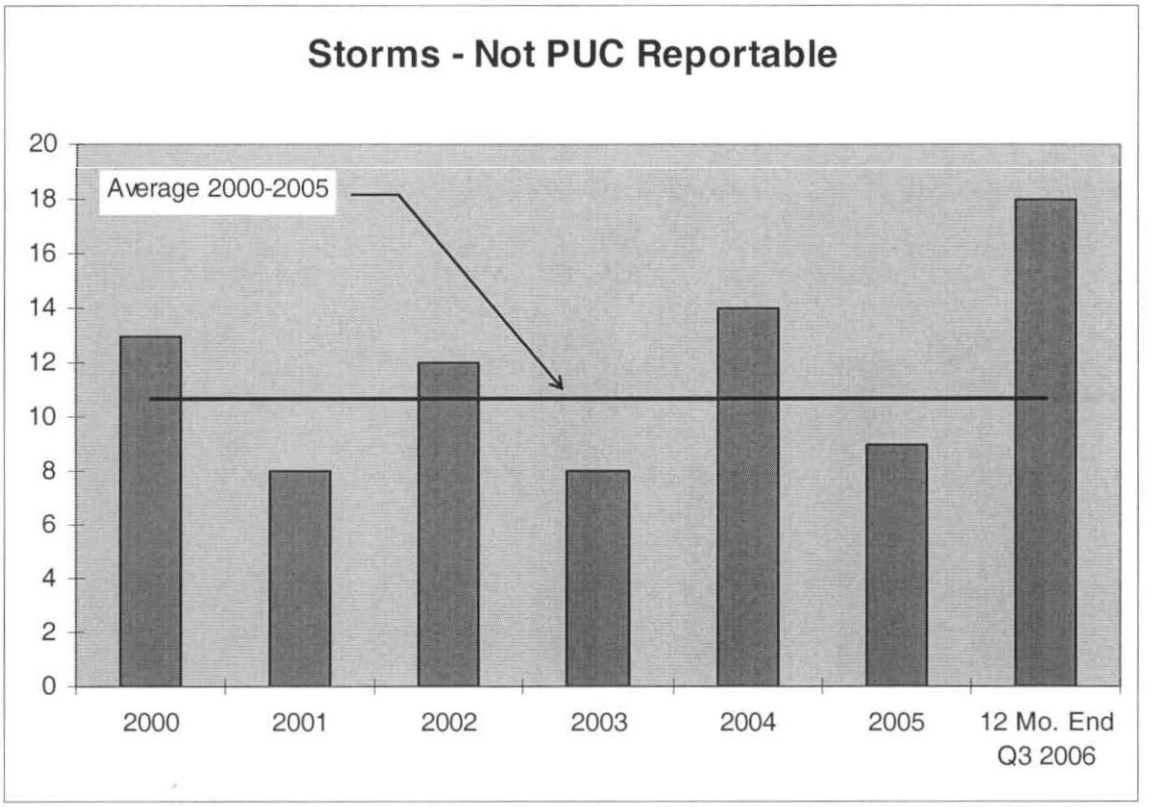
[1] MAIFI data is obtained at the substation breaker and does not include momentary interruptions at lower level devices.

[2] PPL Electric calculates the indices using customers served at the end of the period. This is consistent with the method used to calculate PPL Electric's benchmarks.

[3] The data reflects the number of customers interrupted for each interruption event summed for all events, also known as customer interruptions. If a customer is affected by three separate cases of trouble, that customer represents three customer interruptions, but only one customer interrupted.



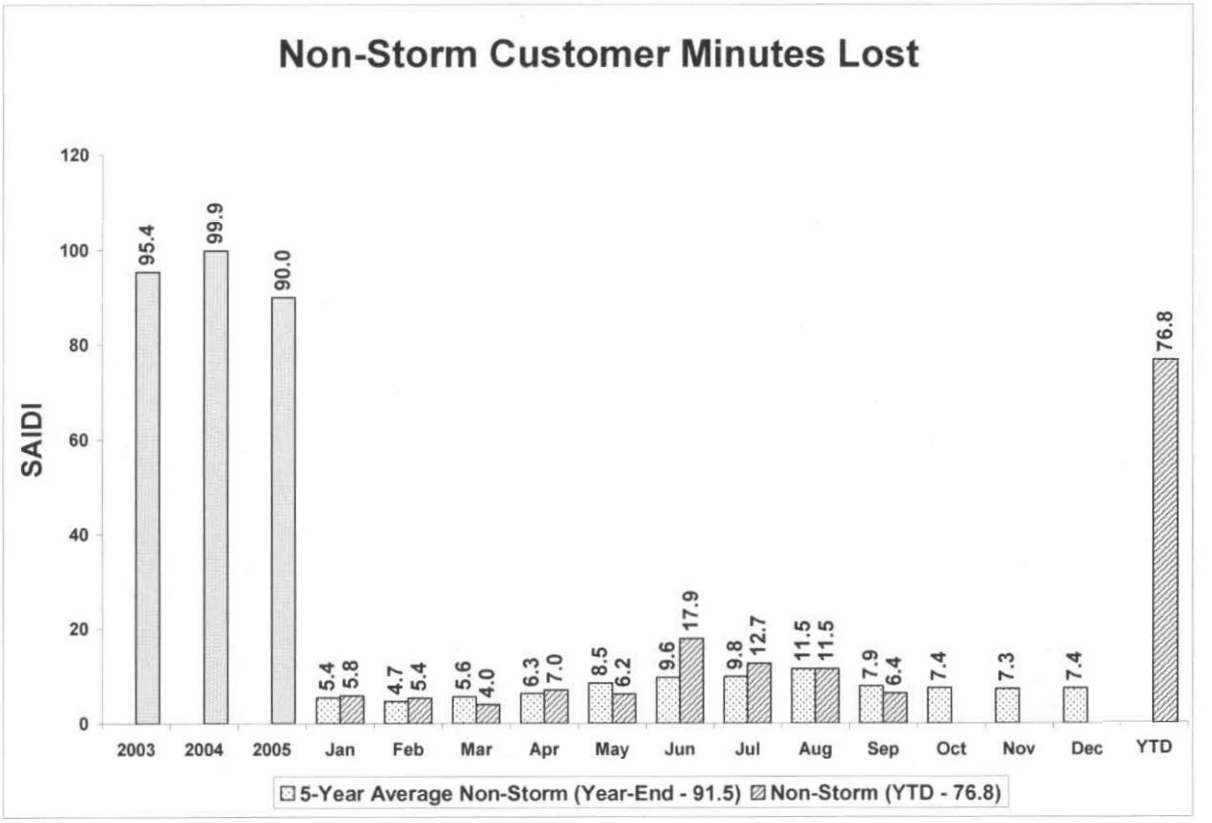
In addition, there were eighteen (18) storms that were not reportable, but which did require opening one or more area emergency centers to manage restoration efforts. This is more than any other year since 2000, when PPL Electric first began tracking the incidence of non-reportable storms.



In an average storm year, customer interruptions during storms contribute about one-third to the total SAIDI value. By contrast, during the twelve months ended September 2006, customer interruptions during storms contributed almost one-half of the total SAIDI value. Ninety-three of the 194 SAIDI minutes were due to storm-related interruptions.

SAIDI during non-storm conditions for the twelve months ended September 2006 was 101 minutes, comparable to that of 2003 through 2005 which were 95 minutes, 100 minutes and 90 minutes respectively.

As shown in the chart below, the year-to-date non-storm SAIDI is 76.8 minutes. Assuming that the 2006 fourth quarter non-storm SAIDI will be at the five-year average of 22.1 minutes (sum of the bars for October, November, and December), PPL Electric projects a year-end non-storm SAIDI of 98.9 minutes.


Non-Storm Customer Minutes Lost
SAIDI
120
100
80
60
40
20
0
95.4
99.9
90.0
5.4
5.8
4.7
5.4
5.6
4.0
6.3
7.0
8.5
6.2
9.6
17.9
9.8
12.7
11.5
11.5
7.9
6.4
7.4
7.3
7.4
76.8
2003
2004
2005
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
YTD
5-Year Average Non-Storm (Year-End - 91.5)
Non-Storm (YTD - 76.8)

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

The following table provides reliability index values for the worst performing 5% of the circuits[4] in the system for the 12 months ended at the current quarter. An explanation of how PPL Electric defines its worst performing circuits is included in Appendix A.

WPC Rank	Feeder ID	SAIFI	CAIDI	SAIDI	MAIFI[5]	Customers	Cases of Trouble[6]	Customer Minutes Interrupted	CPI
1	15701	7.91	180	1,427	9.00	1,153	103	1,645,665	591
2	16101	4.31	202	870	4.00	2,509	152	2,181,712	589
3	16402	10.47	99	1,041	9.00	847	68	882,028	580
4	18502	2.82	779	2,197	1.00	1,767	111	3,881,585	537
5	26401	2.84	171	485	2.00	3,165	152	1,535,955	528
6	15601	6.31	134	845	9.69	2,340	105	1,976,464	528
7	28301	4.52	182	822	6.00	2,811	121	2,311,298	513
8	28102	4.77	161	769	1.00	1,661	117	1,276,883	508
9	28801	1.94	486	942	9.06	2,605	132	2,454,105	503
10	26602	4.82	242	1,170	15.02	2,962	105	3,464,837	494
11	45402	6.05	179	1,081	14.00	1,568	85	1,694,735	476
12	11001	6.95	165	1,148	8.00	859	70	985,726	468
13	11506	6.67	117	779	6.00	1,272	76	990,885	464
14	12701	5.22	90	470	12.00	1,492	94	701,448	452
15	22704	11.35	52	592	4.00	69	7	40,868	446
16	28302	4.41	193	851	2.00	2,778	93	2,364,304	439
17	26001	3.26	235	764	2.00	1,267	105	968,239	435
18	22602	4.23	192	811	5.00	1,446	94	1,173,087	434
19	22001	2.29	338	773	2.00	1,959	111	1,514,157	434
20	20403	5.96	94	561	1.00	1,829	75	1,025,430	431
21	55001	2.81	99	279	6.00	2,906	117	810,660	424
22	10903	5.23	76	397	10.34	2,022	83	802,522	421
23	10901	5.30	130	688	19.44	1,494	78	1,027,650	421
24	53602	2.40	131	314	3.00	3,324	118	1,042,570	417
25	17803	5.08	137	698	6.00	2,469	79	1,724,553	417

[4] Total number of circuits has grown so 5% is now 55 circuits.

[5] MAIFI data is obtained at the substation breaker and does not include momentary interruptions at lower level devices.

[6] Cases of trouble are the number of sustained customer service interruptions.

WPC Rank	Feeder ID	SAIFI	CAIDI	SAIDI	MAIFI[5]	Customers	Cases of Trouble[6]	Customer Minutes Interrupted	CPI
26	15702	6.83	86	584	7.00	1,573	56	918,918	412
27	46302	1.69	337	570	8.00	1,747	105	996,620	397
28	43202	3.71	197	733	9.00	2,055	85	1,505,801	393
29	12402	5.28	156	821	1.00	1,351	65	1,109,749	391
30	23101	1.20	1,300	1,562	2.00	1,730	35	2,702,081	381
31	44505	1.78	290	515	16.00	2,331	100	1,200,021	378
32	13102	3.51	303	1,065	3.00	1,944	74	2,069,870	377
33	22601	3.93	119	466	4.00	1,936	81	901,825	376
34	24602	4.91	156	765	1.00	1,502	64	1,148,292	375
35	26702	2.44	185	453	5.00	2,398	96	1,085,769	372
36	53901	4.28	186	797	9.00	1,887	66	1,504,038	363
37	17902	5.11	212	1,085	23.00	976	51	1,058,621	360
38	12002	7.84	61	476	11.00	1,313	23	624,582	360
39	13502	3.77	188	709	13.00	2,626	70	1,861,972	355
40	12301	1.95	476	928	0.00	1,246	74	1,156,744	353
41	40502	4.18	143	599	5.00	1,830	66	1,095,816	351
42	16802	2.60	263	686	24.00	1,726	76	1,184,168	342
43	14604	5.73	186	1,068	13.04	337	36	360,045	339
44	45702	2.36	288	679	7.00	1,675	75	1,137,897	335
45	12102	4.64	155	720	4.00	1,929	52	1,388,682	334
46	41002	2.53	288	729	4.00	1,255	72	914,794	333
47	43401	3.39	160	543	8.00	1,499	69	813,596	333
48	18501	1.89	542	1,025	1.00	1,672	62	1,713,519	332
49	67702	5.76	181	1,042	12.00	877	32	914,041	329
50	17802	2.04	250	511	9.00	2,330	80	1,189,745	329
51	17001	2.70	298	805	9.00	1,465	67	1,178,928	328
52	17002	4.47	155	692	19.00	1,259	52	871,090	328
53	25501	1.69	188	318	8.00	2,851	88	907,684	325
54	14403	1.77	153	272	11.00	2,513	89	682,534	323
55	15704	5.12	94	484	6.00	1,234	45	596,760	323

PPL Electric's Circuit Performance Index ("CPI") is derived from the frequency and duration of service interruptions that occurred during the specified time period. Improving a circuit's CPI depends upon reducing either the service interruption frequency or the duration of interruptions, or both. When a new circuit appears among the 5% worst performing, the first step undertaken is to perform a "circuit outage data analysis." This consists of analyzing the actual service interruptions that occurred during the time span to determine if there are causal patterns, or geographic patterns, for which corrective actions are feasible which would improve the circuit's CPI.

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

Rank	*Action*	*Status*	*Due/Complete*	*Result*
1	**Circuit ID: 15701 TANNERSVILLE 57-01**			**CPI: 591**
	Circuit outage data analysis.	Completed	6/15/2004	Major contributor to CPI was the number of cases (approximately 52% of CPI), CAIDI and SAIFI are low. Most contacts were tree related.
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/11/2004	Many tree related outages, some were trimming related.
	Field engineer will review the circuit for additional tap fuses.	Completed	7/31/2005	The main three phase line was analyzed, and no additional locations for fuses were determined.
	Tree trimming. This circuit was scheduled to be trimmed in support of reconductor work.	Completed	3/30/2006	Approximately 1.5 miles of the main three phase line was trimmed in support of the upcoming USF work.
	Reconductor 1.5 miles of the main line under SP 51216.	Completed	3/30/2006	The line was reconductored to increase reliability, allow capacity for load growth, and improve SAIDI.
	Circuit performance review.	Completed	6/30/2006	Inconclusive. Monitor future performance. Faulty sectionalizer identified and repairs are in progress. One LBAS is scheduled to be installed as part of the Reliability Preservation program.
	6/30/2006: Repair faulty sectionalizer.	Scheduled for	12/31/2006	Reduced outage risk. Repair underway.
	6/30/2006: Install one LBAS	Completed	9/30/2006	
	7/1/2006: Monitor future performance.	Ongoing		

Rank	*Action*	*Status*	*Due/Complete*	*Result*
2	**Circuit ID: 16101 BINGEN 61-01**			**CPI: 589**
	Tree trimming. Spot trimming.	Completed	3/31/2004	Reduced outage risk.
	Circuit outage data analysis.	Completed	6/11/2004	Number of cases and SAIFI are the two biggest factors in the CPI. There is no detectable pattern of causes. Cases alone contribute 60% of this circuit's performance issues, with SAIFI contributing just under 30%.
	New Sectionalizing : Replace 1 fused cutout with an OCR and install 2 fused cutouts to reduce the length of line on a sectionalizing device. Install a 3 phase loadbreak airswitch to enable customers to be restored quicker during an outage.	Completed	7/19/2004	Reduced customer count affected by each outage.
	Replace cracked porcelain fused cutouts and lightning arresters.	*Completed*	6/30/2004	*Reduced outage risk.*
	Install fault indicators on line to locate momentary problems.	Completed	8/16/2004	This was done to locate momentary problems that occur on the line. The installation is complete and the indicators are being used to find the fault faster
	Improve sectionalizing capability. Investigating splitting the line to allow back feeding from other half.	Completed	2/28/2005	Majority of performance problems occur on fused taps. Load pick up is not the primary performance issue.
	Transfer lower portion of line to the Richland 36-3 line to reduce the length of line exposure.	Canceled	7/22/2005	Project was cancelled due to capacity concerns on the Richland Substation.
	Reconductoring 7 single phase taps with XLP and stronger conductor	Completed	11/30/2005	Reduced outage risk. Should see reduction in cases, and possibly lower circuit CAIDI
	Nine overhead spans that were located in an inaccessible area were relocated underground.	Completed	12/31/2005	Reduced outage risk.
	Twenty five fault indicators will be installed.	Completed	3/1/2006	Reduced outage duration.
	Reconductoring sections of 3 phase line with XLP and stronger conductor.	Scheduled for	11/30/2006	Reduced outage risk.
	Perform Thermovision on 69 kV lines into the Bingen substation.	Completed	6/21/2006	No concerns were identified.
	Tree trimming.	Scheduled for	12/31/2006	Reduced outage risk.
	Reconductor 8 sections of single phase line with XLP and stronger conductor	Scheduled for	10/31/2006	Reduced outage risk.
	4/3/2006: Expanded Operational Review. CYME profile started on 8/14/06.	EOR initiated	12/31/2006	
	Perform Thermovision on this circuit, analyze results, and make repairs.	Completed	9/21/2006	Reduced outage risk.
	Install animal guard(s).	Completed	5/30/2006	Reduced outage risk.
	Reconductor 69 kV transmission system - 3 spans on Quarry 1 -Coopersburg tap and2 spans on Seidersville 1 tap	Scheduled for	10/27/2006	Reduced outage risk. Improve load carrying capability of the 69 kv system in area of Bingen distribution substation to avoid conductor failure and subsequent outage

Rank	Action	Status	Due/Complete	Result
3	**Circuit ID: 16402 MOUNT POCONO 64-02**			**CPI: 580**
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/11/2004	Most of the problems were trees outside of the right of way, but there were some trimming related problems. This circuit did have some hotspot trimming completed earlier in 2004.
	Tree trimming. Hot spotted in April and May	Completed	5/31/2005	Reduced outage risk.
	Tree trimming. Overgrown areas will be identified by field engineer for hot spot trimming.	Completed	8/31/2005	Reduced outage risk.
	7/13/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2005	
	11/22/2005: Tree trimming. As of 7/8/06, 75% completed. The remainder of the trimming will be completed by 8/31/06.	Completed	8/31/2006	Reduced outage risk.
	2/16/2006: Line inspection-equipment.	Completed	3/30/2006	Customer minutes will be saved by identifying equipment that is prone to failure.
	6/15/2006: An intelligent switching project has been identified to reduce customer minutes lost.	Scheduled for	5/31/2007	Reduced customer count affected by each outage.
	6/15/2006: Evaluate potential ties.	Completed	8/31/2006	Reduced outage duration. Field review completed 6/2006. Proposed location of new substation located and ties identified. Details forwarded to appropriate personnel.
	Monitor future performance	Ongoing		
4	**Circuit ID: 18502 CANADENSIS 85-02**			**CPI: 537**
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/11/2004	There were mostly tree related outages on this circuit.
	Improve sectionalizing capability.	Completed	11/16/2004	Additional fusing was added to a poor performing section of the line.
	Tree trimming. Hotspot trimming completed	Completed	12/1/2004	Reduced outage risk.
	1/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2006	The majority of problems on this line were due to non-trimming related vegetation issues. In addition, an abnormal sectionalizing event caused power quality and line issues. This event is not expected to recur.
	2/16/2006: Tree trimming. Tree Trimming is 10% complete. The remainder of the trimming will be completed in the last quarter of 2006.	Scheduled for	12/1/2006	Reduced outage risk. As of 10/10/06, 30% of Tree Trimming has been completed.
	2/16/2006: Install LBAS(s). Installed LBAS at 68724N38376 and 69390N35855 as part of the Expanded Operational Review.	Completed	6/15/2006	Increasing sectionalizing on the line will reduce the number of customer experiencing an outage.
	Expanded Operational Review. Perform Voltage Profile. Review circuit for possible LBAS installations. Summer Thermography to be completed 7/27/2006.	Completed	8/31/2006	Reduced outage duration. Two LBAS's were been installed 7/2006. Votage profile completed 8/2006. Summer thermography completed 7/2006.
	Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
5	**Circuit ID: 26401 INDIAN ORCHARD 64-01**			**CPI: 528**
	Circuit outage data analysis.	Completed	6/23/2004	Major contributors to CPI were the number of cases and SAIFI. Blooming Grove - West Damascus 69kV tripped to lockout contributing greatly to SAIFI. An OCR failed and is not likely to recur. Many tree related outages both trimming and non-trimming related and animal contacts. Line was trimmed in September 2003 so hotspotting the line will be ineffective.
	A detailed analysis of sectionalizing will be completed on this line. A review of the existing protection and potential device addtions will be performed.	Completed	6/25/2004	Three single phase taps were identified as requiring further sectionalizing and possibly an additional feed from the main line.
	Improve sectionalizing capability. Areas for further sectionalizing have been identified. Field engineer will locate additional sectionalizing devices.	Completed	12/31/2005	Reduced customer count affected by each outage.
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2005	
	11/23/2005: Underground failures were tested and replacements will be made.	Scheduled for	12/31/2006	
	5/31/2006: Improve sectionalizing capability. Field engineer will consider additional sectionalizing in the form of sectionalizers	Scheduled for	12/31/2006	Improving sectionalizing will reduce number of customers experiencing an outage
	An intelligent switching project has been identified to reduce customer minutes lost.	Scheduled for	5/31/2007	Reduced customer count affected by each outage.
	Monitor future performance.	Ongoing		
6	**Circuit ID: 15601 NO STROUDSBURG 56-01**			**CPI: 528**
	Circuit outage data analysis.	Completed	6/23/2004	Major contributor to CPI was the number of cases. There were several burned loops on the line and quite a few animal contacts.
	Line inspection-equipment.	Completed	3/31/2005	
	Perform line maintenance identified by line inspection.	Completed	5/30/2005	Reduced outage risk.
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	6/6/2005	
	Line inspection-vegetation. Forester will perform a vegetation line inspection and perform hot spot trimming as required.	Completed	7/28/2005	Results sent to field for review. Hot spotting will be scheduled as needed.
	Install fuse(s). WR# 218967, WR# 224357, WR# 224423: OCR and fuse installation;	Completed	12/30/2005	Fuses and OCRs were installed to reduce the number of customers experiencing an outage
	Thermographic inspection-OH line. This circuit will be thermovisioned to help identify failed equipment.	Completed	9/30/2006	Reduced outage risk. Nothing found.
	11/22/2005: Tree trimming. Tree trimming is 75% complete as of 7/1/06. The remainder of the trimming will be completed in the third quarter of 2006.	Scheduled for	12/31/2006	Reduced outage risk. As of 10/10/06, 90% compete.
	1/13/2006: Install fuse(s). WR 224008	Completed	5/3/2006	Reduced customer count affected by each outage.
	6/15/2006: Evaluate potential ties.	Completed	9/30/2006	Reduced outage duration.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
7	**Circuit ID: 28301 NEWFOUNDLAND 83-01**			**CPI: 513**
	Circuit outage data analysis.	Completed	6/25/2004	Major contributor to CPI was the number of cases (30%). The contributing outages (mostly trees) did not fall into a discernable pattern. No outages were trimming related.
	Circuit outage data analysis.	Completed	8/23/2004	Review of circuit outages indicated there were two poor performing single phase taps.
	Improve sectionalizing capability. Increase sectionalizing on two poor performing single phase taps beyond OCR 66696N44669.	Completed	12/31/2004	Field review of the poor performing section of line indicated that additional sectionalizing will not greatly improve reliability on that part of the circuit. Tap fusing in the area already adheres to PPL's policy of fusing all single phase taps.
	Tree trimming. Hot spot trimming on two poor performing single phase taps.	Completed	3/30/2005	Reduced outage risk.
	Circuit outage data analysis.	Completed	10/20/2004	Trees and animals accounted for over 70% of the outages seen in the past year. This is a heavily forrested area where trees outside of the right of way contribute to 50% of the total CPI. Even if all other outages were removed this circuit would still be among the worst performers due to trees outside of the R/W.
	Line inspection-equipment.	Canceled	11/30/2005	Field Engineer determined that line inspection was unnecessary because line was inspected in 2004.
	11/23/2005: Betterment project to split one phase tap by sectionalizing. Additional OCR's will be installed.	Scheduled for	11/30/2006	Reduced customer count affected by each outage.
	Tree trimming. Trimming and hot spotting will be done in 2006.	Scheduled for	11/30/2006	Reduced outage risk.
	2/21/2006: Line inspection-equipment.	Completed	4/7/2006	Inspection will help identify problem areas of line that need to be repaired. These repairs will prevent possible outages and customer minutes lost, directly impacting SAIDI.
	5/25/2006: Expanded Operational Review.	Completed	9/30/2006	
	5/31/2006: Install animal guard(s). Animal guards were added in quarter 1 of 2006 and will be added as needed.	Ongoing		Animal guards were added to reduce animal contact related outages.
8	**Circuit ID: 28102 TWIN LAKES 81-02**			**CPI: 508**
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2005	An inspection was completed in 2004 and problems were addressed. Vegetation was a major issue that caused customer minutes lost. Vegetation related outages were due to weather primarily.
	11/23/2005: Tree trimming.	Completed	2/28/2004	Reduced outage risk.
	Line inspection-equipment. Two sections of line will be inspected	Completed	3/30/2006	The inspection targets equipment that may fail. By making repairs or replacements, customer outages will be prevented. Nothing significant was found.
	5/25/2006: Expanded Operational Review.	Completed	9/30/2006	
	5/31/2006: Install animal guard(s). Install as outages are seen on the line	Ongoing		Installing animal guards will prevent future outages on the line due to animal contact
	11/23/2005: Monitor future performance.	Ongoing		

Rank	*Action*	*Status*	*Due/Complete*	*Result*
9	**Circuit ID: 28801 LAKEVILLE 88-01**			**CPI: 503**
	7/13/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2005	Vegetation issues caused nearly half of all the outages on this line. Weather was a significant factor for these outages. Trimming was completed on this line in 2005.
	WR# 237040: OH repairs made as a result of line inspection	Completed	9/15/2005	Work completed to reduce customer minutes lost
	Tree trimming.	Completed	10/31/2005	Reduced outage risk.
	Install fuse(s). WR# 242026; WR#241998; WR#241849	Completed	12/31/2005	Reduced customer count affected by each outage. New fuses being installed to improve SAIDI
	Install LBAS(s).	Scheduled for	12/31/2006	Sectionalizing the line will reduce the number of customers experiencing an outage
	Install 1 phase OCR(s).	Scheduled for	12/31/2006	
	5/31/2005: Install animal guard(s). Animal guards are added as needed to the line	Ongoing		Animal guards are placed after outages are experienced to prevent future outages.
	Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
10	**Circuit ID: 26602 BROOKSIDE 66-02**			**CPI: 494**
	Line inspection-equipment. Due to the high number of animal contacts (35% of the total CPI) and equipment failures (22% of total CPI) an equipment line inspection will be performed.	Completed	1/30/2004	Several maintenance items were identified. A WR was initiated to address these problems.
	Circuit outage data analysis.	Completed	6/15/2004	Major contributor to CPI was the number of cases. Animal contacts made up about 35% of the total CPI.
	PPL Electric will review the process for animal guard installations to ensure that animal guards are installed for animal related OH transformer outages and new OH transformer installations.	Completed	8/25/2004	Animal guard practices have been reviewed and troublemen in this area have been instructed to ensure animal guards are installed when and where appropriate.
	Line inspection-equipment. A helicopter patrol was performed on an inaccessible part of the line.	Completed	6/10/2005	Several broken crossarms and a downed static wire were discovered.
	Fault recorders will be installed on an inaccessible part of the line.	Completed	6/30/2005	Reduced outage duration.
	Perform line maintenance identified by line inspection. Helicopter patrol was completed	Completed	12/30/2005	Broken and failing crossarms were found and repaired to reduce risk of customer outage.
	Tree trimming. Hot Spotting being done as needed	Completed	9/30/2005	Reduced outage risk.
	Line being reconductored for 0.3 miles (WR# 233124)	Scheduled for	12/30/2006	
	11/4/2005: Sectionalizer being replaced (WR#269977). Additional sectionalizing opportunities being considered by field engineer.	Scheduled for	12/30/2006	Replacement of the sectionalizer will improve reliability and decrease the number of customers experiencing an outage.
	4/17/2006: Relocate inaccesssible line. An inaccessible portion of the Brookside 66-02 and 66-04 line is scheduled to be rebuilt along the roadway. The line is planned to be rebuilt and sectionalized under B21118 (with an RIS of 11/2007) and B21119 (with an RIS of 11/2009).	Scheduled for	11/30/2007	Rebuilding and sectionalizing the 66-02 line will increase reliability on the circuit by making the route more accessible. In addition, there will be less vegetation exposure following the rebuild of the line. This work will improve CAIDI and SAIDI.
	Expanded Operational Review. Voltage Profile Completed 7/24/2006.	Completed	7/31/2006	Voltage Profile Completed 7/24/2006. Reliability profile Completed 09/29/2006.
	5/3/2006: Install fault indicators	Scheduled for	12/1/2006	Additional fault indicators will decrease length of customer outages by allowing troublemen to determine where fault occurred more quickly
	Monitor future performance.	Ongoing		

Rank	*Action*	*Status*	*Due/Complete*	*Result*
11	**Circuit ID: 45402 WEST BLOOMSBURG 54-02**			**CPI: 476**
	Line inspection-equipment.	Completed	7/31/2005	The line was inspected in the winter of 2004. Some items were identified by inspection including broken tie wires, cracked insulators, bad TFC's, blown LA's. Some of the work requests were done in the first quarter of 2005, and the rest were completed in June/ July 2005. All single phase and three phase fuses were installed on this circuit.
	Circuit outage data analysis.	Completed	8/22/2005	CPI was driven by SAIFI (3.338; 39% of the CPI) and number of cases (54; 44% of CPI). The major outages in the third quarter of 2004 were because of Hurricane IVAN on 9/18/04. 108 customers were interrupted for approximately 33 hours because of IVAN. While no major outages in Q4, 2004, a snow storm in the first quarter of 2005 caused long outages because of flood and closed bridges. Nothing major in the Q2, 2005 except the not trimming related outage on 4/28/2005. The WPC team noticed that animals caused some outages in the second quarter of 2005, and the field will be looking to install an animal guards where needed to avoid those outages in the future.
	Tree trimming.	Scheduled for	11/30/2006	The line is 100 miles long. 4 miles urban were trimmed in 2003, and the rest (95miles rural) are scheduled to be trimmed in the fourth quarter of 2006. The circuit is being reviewed for hot spot trimming. Hot spot rimming was partially done in September 2005, and fully completed on the whole circuit by the end of December, 2005.
	11/2/2005: Circuit outage data analysis.	Completed	11/2/2005	Major contribution to the CPI was due to SAIFI (46% of total CPI) and the number of cases (46% of total CPI). A vehicle hit on 8/8/2005, and a storm in July caused major outages in the third quarter of 2005.
	Line inspection-equipment.	Completed	9/30/2005	A line inspection was performed in September 2005. Different items were identified by the inspection including broken tie wires, cracked insulators, bad transformer fuse cutouts, blown lightning arresters. 6 work requests were written as a result of the inspection. WR's 208868, 208701, 208487, 208428, 208357, and 208306 were done by September 2005. The field is planning to perform a thermovision check on the line by the end of 2006.
	11/2/2005: Improve sectionalizing capability.	Completed	11/2/2005	The circuit was reviewed for additional sectionalizing in 2005 to improve load transfer capabilities. No locations were identified to install sectionalizing devices.
	11/2/2005: Monitor future performance.	Ongoing		Tree hot spotting in 2005, and the completion of all work requests identified by inspection are expected to improve the circuit's performance. Major outages occurred on the circuit in the third quarter 2005 were due to events that are not expected to occur again such as the vehicle hit in August. PPL will continue to monitor the circuit's performance.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
12	**Circuit ID: 11001 EAST GREENVILLE 10-01**			**CPI: 468**
	Circuit outage data analysis. Attempting to locate trouble spots.	Completed	6/11/2004	Cases are 55% of the circuit's performance problems. After detailed review, there are still no specific known problems.
	Line inspection-vegetation. Trouble feeders inspected for trees	Completed	10/14/2004	Reduced outage risk. No significant performance issues.
	Protection Scheme re-evaluated	Completed	10/18/2004	Reduced customer count affected by each outage. This should reduce customer outage exposure.
	Tree trimming.	Completed	9/30/2005	Reduced outage risk.
	Improve sectionalizing capability.	Completed	1/31/2006	Install two sets of disconnect switches and fault indicators in the northern portion of the circuit to provide for sectionalizing, possible transfer of load to the Macungie 27-1 line, and to help reduce restoration time.
	Improve sectionalizing capability. Additional fuses will be added as well.	Scheduled for	12/30/2006	Project being developed to resectionalize trouble spots, and add better fusing scheme to limit customer exposure. Inaccessible portion of the line will be refed from a new single phase section. Currently being developed to be placed in service as soon as possible.
	Perform Thermovision on this circuit, analyze results, and make repairs.	Completed	9/30/2006	Reduced outage risk.
	Tree trimming-selected line segments only (hot spots).	In progress	12/31/2006	
	Install telemetrics on electronic OCR	In progress	12/31/2006	Reduced outage duration. Thie equipment will allow the System Opertor to open and close the OCR remotely.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
13	**Circuit ID: 11506 FREEMANSBURG 15-06**			**CPI: 464**
	Circuit outage data analysis.	Completed	6/11/2004	Circuit is a rural feeder, many single phase taps have a weak textile strength and are more susceptible to falling branches. Other equipment related issues are suspected.
	Line inspection-equipment.	Completed	6/30/2004	Reduced outage risk. Several problems were found such as: conductor off insulator, deteriorated crossarms, split pole tops, trees growing into lines, etc. A work request was written to correct these problems.
	Repairs to the line based on the line inspection.	Completed	8/11/2004	Reduced outage risk.
	Tree trimming. A section of line was located that required trimming.	Completed	10/1/2004	Reduced outage risk.
	Tree trimming. Spot trimming completed 12/17/04 on trouble areas.	Completed	12/23/2004	Reduced outage risk.
	Replaced Tap fuse that was found to be cracked and damaged.	Completed	12/23/2004	Reduced outage risk. This work is completed and should result in lower momentary count, as well as lessen number of customers taken out at a time.
	Tree trimming.	Completed	1/31/2005	Reduced outage risk. Hot spotting was completed in January of 2005
	One of the single phase taps where the fuse has blown several times was inspected and all maintenance items identified.	Completed	3/30/2006	Reduced outage risk. Maintenance issues on this single phase tap have been addressed.
	2/13/2006: Line inspection-vegetation. Several locations were found in need of some tree trimming.	Completed	5/1/2006	Reduced outage risk. Hot Spot tree trimming completed.
	Tree trimming-selected line segments only (hot spots).	Completed	6/30/2006	Reduced outage risk. Trimming to start in early May.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	
	4/3/2006: Expanded Operational Review.	EOR initiated	12/31/2006	Reduced outage risk.
	Monitor future performance. Performance appears to have improved and monitoring will continue.	Ongoing		Trimming and other minor work appears to have improved performance. Monitoring will continue.
14	**Circuit ID: 12701 MACUNGIE 27-01**			**CPI: 452**
	Install Fault Indicators.	Completed	8/31/2006	Reduced outage duration.
	7/11/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2006	Three incidents including a customer who cut down a tree on his property which fell on the line and 2 pole hits were the major contributors to outages on this circuit.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
15	**Circuit ID: 22704 MINOOKA 27-04**			**CPI: 446**
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/11/2006	In Sept. 2006, a line segment with 390 customers and 2 MVA of load was permananetly transferred from 22704 to 22701 to accommodate anticipated new load, leaving only 69 customers remaining on 22704. Of the seven interruptions attributed to 22704 in the database, five are associated with the transferred line segment and occurred before the transfer. Manually adding the five outages to the reconfigured 22701 do not place it among the worst performing. No further remedial action is necessary.
16	**Circuit ID: 28302 NEWFOUNDLAND 83-02**			**CPI: 439**
	Circuit outage data analysis.	Completed	6/15/2004	Major contributors to CPI were number of cases and SAIFI. There were several animal contacts and tree related outages during bad weather (not trimming related), but no discernable pattern was apparent. The major outages contributing to SAIFI are unlikely to recur (line de-energized to replace tap fuse, pole top fire, loop burned open). This line had an equipment inspection in January 2004.
	Improve sectionalizing capability. Field engineer to review a single phase tap downstream of OCR 66629N42489 to improve sectionalizing on that tap.	Completed	11/12/2004	Field review of the poor performing section of line indicated that additional sectionalizing will not greatly improve reliability on that part of the circuit. Tap fusing in the area already adheres to PPL's policy of fusing all single phase taps.
	Tree trimming.	Completed	8/30/2005	
	Line inspection-equipment. Field engineer will identify targeted areas for line inspection.	Completed	12/31/2005	Field engineer determined there were no areas requiring line inspections because entire line was inspected in 2004.
	3/31/2006: Line inspection-equipment.	Completed	3/30/2006	Customer minutes will be saved by identifying equipment that is in danger of failing.
	Expanded Operational Review.	EOR initiated	11/30/2006	
	Continue to monitor future performance.	Ongoing		
17	**Circuit ID: 26001 WEST DAMASCUS 60-01**			**CPI: 435**
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2005	Many of the outages were due to vegetation issues during storms. Majority of the outages were weather related.
	2/21/2006: Install animal guard(s). Animal guards will be installed as customers are restored following an animal-related outage	Ongoing		Animal guards will prevent animal contact and reduce customer interruptions.
	5/31/2006: Tree trimming. Hot spotting will be done as necessary	Scheduled for	6/30/2007	Hot spotting will be completed to reduce outages due to trees seen on the line
	Expanded Operational Review.	EOR initiated	11/30/2006	
	11/22/2005: Monitor future performance.	Ongoing		

Rank	*Action*	*Status*	*Due/Complete*	*Result*
18	**Circuit ID: 22602 KIMBLES 26-02**			**CPI: 434**
	Circuit outage data analysis.	Completed	6/23/2004	Major contributors to CPI were the number of cases and SAIFI. BLGR-WDAM 69kV tripped to lockout which significantly contributed to SAIFI, this event is not likely to recur.
	Circuit outage data analysis.	Completed	8/25/2004	Identified a poor performing single phase tap.
	Improve sectionalizing capability. Field engineer will review sectionalizing on poor performing single phase tap.	Completed	12/31/2004	Two additional OCR's added to improve SAIDI.
	Fault indicators will be installed on an inaccessible part of the line to facilitate outage restoration.	Canceled	6/30/2005	Field engineer determined that fault recorders were unnecessary.
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2006	Approximately 44% of the CPI contribution was due to trees outside the right of way. In addition, an underground failure at Bohemia substation on february 11, 2006 caused a 69 kV outage due to a stuck breaker. This resulted in a loss of the 69 kV source to the Kimbles Substation, resulting in over 154,000 customer minutes lost. Other outages in January and February were due to wind and other weather conditions.
	8/17/2006: Tree trimming.	Completed	7/30/2006	
	5/31/2006: Install animal guard(s).	Ongoing		These animal guards are installed as needed, following an outage. This will prevent future animal contact related outages.
	Monitor future performance.	Ongoing		
19	**Circuit ID: 22001 BOHEMIA 20-01**			**CPI: 434**
	Circuit outage data analysis.	Completed	6/15/2004	Major contributor to CPI was the number of cases. BLGR-WDAM 69kV Tripped to Lockout due to a crossarm failure which is unlikely to recur. Other outage causes were mostly tree (non-trimming) related but with no discernable pattern Appaerent.
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2006	An underground failure on this circuit resulted in an extended outage. It also caused an outage on the 69 kV line. Over 579,000 customer minutes were lost on the line as a result of this.
	Expanded Operational Review.	Completed	9/30/2006	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
20	**Circuit ID: 20403 ASHFIELD 04-03**			**CPI: 431**
	Section of line being transferred to adjacent line.	Completed	1/31/2006	Reduced customer count affected by each outage.
	Load balancing. Transferred 1,241 customers from Ashfield 04-3 line to 04-2 line in order to more equitably balance load between feeders.	Completed	2/9/2006	Reduced outage risk. WR 244373 (Tap Transfer) and WR 260692 (C-Tag Pole Replacement).
	1/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2006	Single phase loop burned open, and line had to be dropped to repair.
	Improve voltage level.	Completed	6/22/2006	Reduced outage risk. WR 294596 Install 3 Single Phase Voltage Regulators.
	Install 1 phase OCR(s).	Scheduled for	12/31/2006	Reduced customer count affected by each outage.
	7/5/2006: Reconductor line.	Completed	7/7/2006	Reduced outage risk. WR 229908 Reconductor 1.4 miles of lline - convert Kepner Tap from single phase to three phase.
	7/5/2006: Expanded Operational Review.	EOR initiated	12/30/2006	
	Tree trimming.	Completed	3/31/2006	Reduced outage risk.
	Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
21	**Circuit ID: 55001 NEWPORT 50-01**			**CPI: 424**
	Improve sectionalizing capability. Three tap fuses were installed.	Completed	12/31/2003	Reduced customer count affected by each outage.
	Circuit outage data analysis.	Completed	6/25/2004	Vehicles and an ice storm in January 2004 contributed to the CPI.
	Two OCRs relocated. Low set setting on breaker changed.	Completed	8/18/2004	Reduced customer count affected by each outage. Reduce number of trips.
	Tree trimming.	Completed	8/27/2004	Reduced outage risk.
	Circuit outage data analysis.	Completed	12/22/2004	Area hard hit by Hurricane Ivan in the 3rd quarter.
	Circuit outage data analysis.	Completed	3/18/2005	The quarterly CPI has decreased 79% from the 3rd to the 4th quarter.
	Circuit outage data analysis.	Completed	5/27/2005	CPI continues to improve.
	Line inspection-equipment.	Completed	6/30/2005	Only a few items were found.
	Circuit outage data analysis.	Completed	8/31/2005	On 5/7/05 the CB was interrupted when load was transferred and a line loop burned open and then on 5/27/05 an OCR bypass loop burned open. This is not expected to reoccur.
	Circuit outage data analysis.	Completed	10/31/2005	Outage on 8/23/05 due to customer cutting a tree which fell into line.
	12/7/2005: Install LBAS(s). Instal LBAS @ 17530S42150	Completed	1/23/2006	Reduced outage duration.
	1/1/2006: Expanded Operational Review. Reliability Review Complete 6/9/2006. Field Review Complete 6/19/2006.	EOR initiated	11/30/2006	WR 306662 Initiated to install 3 tap fuses. (completed)
	2/14/2006: Tree trimming. The main portion of the circuit (first 12 mi of 3 phase) from sub to New Bloomfield.	Completed	6/24/2006	Reduced outage risk. Only 31% of the customer minutes in 2005 were tree-related, and of these, a single tree outage from off the right of was was responsible for 20% alone. However, keeping the line on its trimming schedule will demonstrate continued efforts to keep trees from increasing the number of outages.
	2/14/2006: Tree trimming. Remainder of circuit (approx 150 ckt miles).	Scheduled for	12/31/2007	Reduced outage risk.
	3/31/2006: Improve sectionalizing capability.	Completed	3/31/2006	Inconclusive. Monitor future performance. Line reviewed for additional sectionalizing. Circuit has adequate sectionilzing points, and no new sectionalizing points were feasible.
	5/17/2006: Circuit outage data analysis.	Completed	5/17/2006	2/3 of customer minutes during the 1st qtr 2006 were due to the Feb 17 windstorm. Trees from off the right of way heavily damaged a portion of the main line on this ckt, and an OCR locked out approx 3/4 of the customers on the line. Trees were all from outside the right of way on this heavily wooded circuit. The line was cleared and OCR restored after 140 minutes.
	6/19/2006: Install fuse(s). WR 306662 Install 3 tap fuses	Completed	8/9/2006	Reduced customer count affected by each outage.
	2/14/2006: Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
22	**Circuit ID: 10903 COOPERSBURG 09-03**			**CPI: 421**
	Circuit outage data analysis.	Completed	6/15/2004	The number of cases(45%) and SAIFI(44%) are the biggest factors in the CPI.
	Load balancing.	Completed	6/11/2004	Reduced outage risk.
	Changed relay setting at substation.	Completed		Completed on 10/26/04, should reduce momentary outages.
	Circuit outage data analysis.	Completed	12/23/2004	Circuit performance improved through quarters one and two of 2004 because of relay improvements, continued improvement expected in 2005.
	Replace Quarry 1 Air Break switch on the 69 kV transmission system at the Coopersburg substation	Completed	4/28/2006	The old switch failed to open when load transfers on the 69 kV system were attempted. The new switch is an LBAS which can be opened under load, the old switch could not be opened under load.
	1/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/17/2006	This circuit experienced 3 major outages as a result of disturbances on the 69 kV system caused by a pole top fire, a pole hit, and loops burning open.
	Tree trimming.	Scheduled for	10/31/2006	Reduced outage risk.
	Monitor future performance on line.	Ongoing		
23	**Circuit ID: 10901 COOPERSBURG 09-01**			**CPI: 421**
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2006	This circuit experienced 3 major outages as a result of disturbances on the 69 kV system caused by a pole top fire, a pole hit, and loops burning open.
	Replace Quarry 1 Air Break switch on the 69 kV transmission system at the Coopersburg substation	Completed	4/28/2006	Reduced outage risk. The old switch failed to open when load transfers on the 69 kV system were attempted. The new switch will be more reliable thus maintaining the ability to transfer loads to avoid or reduce outage time.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
24	**Circuit ID: 53602 DALMATIA 36-02**			**CPI: 417**
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/22/2004	Area hit by Hurricane Ivan in the 3rd quarter.
	Install an electronic OCR on the east side of the river crossing.	Completed	12/22/2004	Reduced customer count affected by each outage.
	Circuit outage data analysis.	Completed	3/18/2005	The quarterly CPI has decreased 50% from the 3rd to the 4th quarter. A motor vehicle accident contributed 13% of the customer minutes interrupted in the 4th quarter. Tree timming planned for 2006.
	Circuit outage data analysis.	Completed	5/27/2005	CPI continues to improve.
	Line inspection-equipment.	Completed	8/31/2005	Found a pole on an island in the river crossing requiring replacement due to bank erosion.
	Circuit outage data analysis.	Completed	10/31/2005	Inconclusive. Monitor future performance. Outage on 8/11/05 due to trees - not trimming related. Trees trimmed.
	Tree trimming. Main portion of the 3 phase line, to the OCRs.	Completed	12/30/2005	Reduced outage risk.
	2/17/2006: Tree trimming-selected line segments only (hot spots).	Completed	2/17/2006	Reduced outage risk. During the Feb 17 windstorm, PPL asked for and received permission to tree trim / cut the worst section of line where trees up a steep bank but off our right of way regularly take the line out. Crews cut down 16' additional right of way for 1/3 of a mile, reducing exposure on the worst tree-endangered portion of this circuit. This section was previously served by the Halifax 39-1 circuit.
	3/1/2006: Install 3 phase OCR(s). A 3-phase OCR will be relocated to just prior to the worst tree-exposed portion of the line along the Susquehanna.	Completed	3/14/2006	Reduced customer count affected by each outage.
	Tree trimming-selected line segments only (hot spots). Extensive trimming outside of ROW.	Completed	3/31/2006	Reduced outage risk.
	5/17/2006: Circuit outage data analysis.	Completed	5/17/2006	Inconclusive. Monitor future performance. 87% of the customer minutes during the 1st qtr 2006 was due to a car pole and a wind storm Jan 15-18. The vehicle accident was an hour from the service center. The OCR was restored in 134 minutes. All the trees were off corridor.
	1/1/2006: Expanded Operational Review. Operational Review will be completed in 2006 - Voltage profile and outage history analysis. Reliability Review Complete 7/11/2006.	Completed	7/1/2006	Voltage profile showed no problems. 5 unfused taps to be field-checked by tech. Bad tree spots will not be given to foresters b/c entire circuit to be trimmed in 2006
	Thermographic inspection-OH line.	Completed	9/20/2006	Reduced outage risk.
	Replace pole on island in the river crossing weakened due to bank erosion.	Scheduled for	11/30/2006	Reduced outage risk. Island is uninhabited, and has no road or bridge access. Pa DER will not allow PPL to float a pole across the river due to leaching of preservative into the river. Securing permits to cross the river with men, vehicles, and equipment is proving extremely difficult and time-consuming. Target date to reinforce bank and poles is 11/30/06.
	Install fuse(s). Check unfused taps near 22690n16710, 26200n18530, 28875n19100, and 28875n19100	Scheduled for	11/30/2006	Reduced customer count affected by each outage.
	Install fuse(s). Additional fusing- West Shore portion of ckt	In progress	11/30/2006	Reduced customer count affected by each outage. Install 5 tap fuses
	2/14/2006: Tree trimming. Remainder of line.	Scheduled for	11/30/2006	Reduced outage risk.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
25	**Circuit ID: 17803 GILBERT 78-03**			**CPI: 417**
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2005	One vehicle hit caused a 500 minute outage. One dig-in also significantly contributed to customer minutes lost. Neither of these events is expected to recur.
	11/22/2005: A section of underground was checked for failure on this circuit	Completed	11/30/2005	Results and recommendation were sent to field engineer.
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list. Field engineer is analyzing the circuit.	Scheduled for	12/31/2006	Reduced outage duration.
	Improve sectionalizing capability.	Scheduled for	12/31/2006	Reduced outage duration. Circuit review and analysis by field engineer completed 9/30/06 Identified one location to install OCR/sectionalizer.
	9/15/2006: Expanded Operational Review. Reviewed possibilities for installing sectionalizing devices.	In progress	12/30/2006	Reduced customer count affected by each outage. Identified one location to install an OCR/Sectionalizer.
26	**Circuit ID: 15702 TANNERSVILLE 57-02**			**CPI: 412**
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	4/27/2006	Inconclusive. Monitor future performance. Scheduled to finalize action items third quarter 2006.
	5/15/2006: Reconductor line. A section of #2 Cu conductor was identified to increase sectionalizing capability.	Scheduled for	12/31/2006	Reduced outage duration. Evaluating least cost solutions.
	Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
27	**Circuit ID: 46302 ROHRSBURG 63-02**			**CPI: 397**
	Circuit outage data analysis.	Completed	8/22/2005	The Rohrsburg 63-2 line was reported as having a high CPI during the first and second quarter of 2004. However, a large number of customers experienced outages, short or long in duration has not been reported for the 1st and 2nd quarters in 2004. It was reported on 2/21/2004, 19 customers experienced a 5 hr. outage due to equipment failure. In the Q2, 2004, 24 customers experienced outages ranging from 7 hrs to 12 hrs due to equipment failure on 6/17/2004. No major outages in the Q4, 2004. A snow storm caused long duration outages in Q1, 2005 where 11 customers experienced an outage for approximately 23 hours because of the flood in the area on 3/23/05. It was reported that there were some non-controllable causes for long outages on this circuit because of lightning. No major outages in the Q2, 2005 beside the outage on 6/6/2005, which was caused by trees-non trimming related in a very windy day.
	Improve sectionalizing capability.	Completed	6/1/2005	The line was reviewed for more sectionalizing devices. No new locations were found.
	Perform line maintenance identified by line inspection.	Completed	9/30/2005	Line maintenance was started by the region in the first week of August, 2005. Nothing major was found. Only lower priority things were found. The pole by pole inspection and the review of fuses on 3 phase and single phase have been done on the circuit by the end of Q3, 2005.
	Tree trimming.	Scheduled for	12/31/2006	The 153 miles long line was originally scheduled to be trimmed in 2007. The work has been advanced into 2006. Hot spot trimmings were completed by the end of 2005.
	11/2/2005: Circuit outage data analysis.	Completed	11/2/2005	Major contribution to the CPI on this circuit was due to SAIFI and the number of trouble cases. A storm on 7/14/2005 caused a few long outages on this line. Most of outages in the third quarter of 2005 were due to Trees not trimming related and equipment failure.
	11/2/2005: Line inspection-equipment.	Completed	8/31/2005	A line inspection was performed in August 2005 on the entire feeder. 11 WR's were initiated as a result of this patrol. All work requests were completed in 2005. The work included de-energized unused tap, replace blown arrestors and bad transformer fuse cutouts.
	11/2/2005: Monitor future performance.	Ongoing		In progress work is expected to improve the circuit's performance. PPL will continue to monitor the circuit's performance in the future.

Rank	Action	Status	Due/Complete	Result
28	**Circuit ID: 43202 MILLVILLE 32-02**			**CPI: 393**
	Circuit outage data analysis.	Completed	12/31/2004	The Millville 32-2 line was reported as having a high CPI during the 1st and 2nd quarter of 2004. During the Q1 of 2004, on 2/6/2004, approximately 254 customers experienced a 1 hr. outage, nothing found was reported. During the Q2 of 2004, 82 customers experienced approximately 4 hr. outage due to a vehicle accident and on 5/10/2004, 11 customers experienced a 8 hr. outage due to equipment failure. Major outages occurred in the Q3 of 2004 because of hurricane IVAN on 9/18/05 where 22 customers experienced long duration outage because of flood and closed roads. The snow storm in the Q1 of 2005 also caused long duration outages on 3/23/2005. The hurricane IVAN and the snow storm were the major cause for long outages on this circuit.
	Improve sectionalizing capability. Review line to determine if additional sectionalizing can be added to minimize the number of customers affected by emergency outages.	Completed	12/30/2004	Reduced customer count affected by each outage. The 32-2 line was reviewed for locations to add/install additional sectionalizing devices. No locations were found. A partial inspection on 3 phase line was done in the winter of 2003, and nothing major found on this circuit. Installing additional OCRs was looked at as a part of SAIFI initiative study.
	Tree trimming.	Scheduled for	12/1/2006	The line is approximately 162 miles long. The 9.2 miles urban were trimmed in 2004. The 153 miles rural section is in the budget to be trimmed in 2006. The job is expected to be completed by the end of Q4, 2006. The majority of this line is in inaccessible area. The line was reviewed by the region forestry staff. Some hot spot trimmings were partially done at certain areas in Apr/May, 2005, and were completed on the whole circuit by 12/30/2005.
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/2/2005	The storm on 7/13 and 7/14 caused 8 cases of trouble in the third quarter of 2005. Trees-not trimming related were the cause of major outages on this circuit. No major outages were in the Q4 of 2005.
	Improve sectionalizing capability.	Completed	3/31/2005	Reduced outage risk. The crew reviewed the line for additional sectionalizing in the first quarter of 2005. A solid blade and additional single phase fuses were installed by the end of Q1, 2005. No additional work is required.
	Line inspection-equipment.	Completed	8/30/2005	Reduced outage risk. A line maintenace inspection patrol was completed in August 2005. Nine work requests were initiated as a result of the inspection. Seven of those work requests were completed in 2005. Two work requests remain were completed in the first quarter 2006. One of the work requests requires facility/customer interruption coordination, and the second location requires a special 75 foot bucket.
	8/22/2005: Install fuse(s).	Completed	12/31/2005	Reduced customer count affected by each outage. The field engineer reviewed the line for additiona fuses. All single phase and three phase tap fuses were installed by the end of 2005.
	3/20/2006: Monitor future performance.	Ongoing		PPL will continue to monitor the circuit's performance in the future.
29	**Circuit ID: 12402 MILFORD 24-02**			**CPI: 391**
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
30	**Circuit ID: 23101 MOSCOW 31-01**			**CPI: 381**
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	
31	**Circuit ID: 44505 HAMILTON 45-05**			**CPI: 378**
	Circuit outage data analysis.	Completed	12/30/2004	The Hamilton 45-5 line was reported as having a high CPI in the second and third quarters of 2004. 100% of the high CPI during the second quarter 2004 is due to a vehicle accident which occurred on 5-15-04, 185 customers experienced a 7 hr. outage. 100% of the high CPI during the third quarter of 2004 is due to hurricane IVAN, approximately 25 customers experienced outages ranging from 4 hrs to 32 hrs. (outages reported as non-tree trimming related). Also approximately 150 miles of rural 45-5 line were trimmed in 2003.
	11/2/2005: Circuit outage data analysis.	Completed	11/2/2005	The major contribution to the CPI was mainly due to the number of cases (70 % of the total CPI). Trees-not trimming related and equipment failure were the major cause of many outages in the third quarter of 2005.
	11/2/2005: Tree trimming.	Completed	12/31/2005	The line is approximately 164 miles long. The whole circuit was last trimmed in 2003. The next trimming schedule is in 2008 for the urban section, and in 2011 for the rural section. Hot spotting will be evaluated and performed as identified by the forestry crew.
	5/25/2006: Line inspection-equipment.	Completed	3/31/2006	The line inspection was fully completed by 6/30/2006. Two immediate problems were identified and fixed (bad transformer fuse cutout and bad tap switch). Two work requests were initiated totaling $5,000 to replace bad transformer fuse cutout and tap switches. An electronic OCR was replaced on this circuit on 2/9/2006.
	2/9/2006: Relocate inaccesssible line.	Scheduled for	12/1/2006	A reliability preservation job has been approved to relocate an Inaccessible section of the Hamilton 45 - 05 line. A section of # 6A conductor is getting overloaded and will be relocated to the road to improve the reliability of the line.The job is in progress and expected to be completed by the end of 2006.
	11/2/2005: Monitor future performance.	Ongoing		

Rank	*Action*	*Status*	*Due/Complete*	*Result*
32	**Circuit ID: 13102 NORTHAMPTON 31-02**			**CPI: 377**
	Load balancing.	Completed	10/31/2003	Reduced outage risk.
	Circuit outage data analysis.	Completed	6/15/2004	Number of cases is 55% of the CPI with SAIFI a close second. Two OCR failures in 2003 were a major factor in the SAIFI.
	An overloaded single phase OCR is being replaced with a larger OCR.	Completed	12/19/2004	
	Install Electronic OCR.	Completed	4/30/2006	
	4/3/2006: Expanded Operational Review.	EOR initiated	12/31/2006	
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2006	Trees and animals are the primary causes of outages on this circuit.
	Improve sectionalizing capability. Install 2 new LBASs to improve performance of line with cold load pickup. Install fault indicators next to both LBASs.	Scheduled for	12/31/2006	Reduced outage duration.
	Perform Thermovision on this circuit, analyze results, and make repairs.	Canceled	9/30/2006	The contract to perform thermovision was exhausted prior to the start of work on this feeder. This circuit will be included in a future thervovision contract.
	Monitor future performance of line.	Ongoing		
33	**Circuit ID: 22601 KIMBLES 26-01**			**CPI: 376**
	7/11/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2006	During an abnormally sectionalized condition when the Kimbles 26-1 line was tied to a Tafton line, a fault occurred on the Tafton line. This outage contributed nearly one fifth of the total customer minutes lost for the past year. In addition to this event, a transmission line fault left the entire Kimbles substation out of service for nearly two hours. These two events, combined with number cases of trouble on customer transformers and single phase line resulted in a high SAIFI and CAIDI for this line.
	8/17/2006: Tree trimming.	Completed	7/8/2006	Reduced outage risk. Improved reliability by reducing the line's tree exposure thereby limits potential tree contact related outages
	10/16/2006: Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
34	**Circuit ID: 24602 VARDEN 46-02**			**CPI: 375**
	Circuit outage data analysis.	Completed	8/23/2004	Trees outside of the R/W was the largest contributor to CPI. Circuit outage analysis indicated a pattern of tree related outages on two single phase taps.
	Tree trimming. Hot spot trimming is planned for two poor performing single phase taps.	Completed	12/31/2004	Reduced outage risk.
	Improve sectionalizing capability. Field engineer will review the line and install additional sectionalizing on the identified poor performing single phase taps.	Completed	12/31/2004	This portion of the circuit is already sectionalized in excess of PPL requirements. Further addition of fusing or other protective devices may risk increasing customers outages through nuisance blowing/tripping.
	Monitor future performance.	Ongoing		
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	
35	**Circuit ID: 26702 HEMLOCK FARMS 67-02**			**CPI: 372**
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2005	A vehicle contact contributed significantly to customer minutes lost. This is not expected to occur again.
	2/21/2006: Install new line and terminal. A new line and terminal will be installed and a portion of the line will be rebuilt	Scheduled for	11/1/2006	The new line and terminal will sectionalize the line and increase transfer capability, resulting in a reduction of CAIDI.
	11/22/2005: Monitor future performance.	Ongoing		
36	**Circuit ID: 53901 HALIFAX 39-01**			**CPI: 363**
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/18/2005	West Shore portion of the circuit needs to be trimmed.
	Improve sectionalizing capability. Transfer load to improve reliability.	Completed	3/31/2006	Reduced outage risk.
	Tree trimming. West Shore portion of circuit	Completed	8/31/2005	Reduced outage risk.
	Circuit outage data analysis.	Completed	5/27/2005	CPI has improved. Pole top fire on 2/14/2005 outaged the line.
	Circuit outage data analysis.	Completed	8/31/2005	On 6/29/05 during a period of rain the CB operated due to a tree on a 3 phase tap-inadequate trimming. Tree was trimmed.
	Circuit outage data analysis.	Completed	10/31/2005	Outage on 8/6/05 was due to trees. Trees were trimmed to restore service.
	1/1/2006: Expanded Operational Review.	Completed	10/10/2006	
	5/17/2006: Circuit outage data analysis.	Completed	5/17/2006	Inconclusive. Monitor future performance. 75% of the customer minutes in 1st qtr 2006 were due to the two windstorms (Jan 24 & Feb 17). This circuit parallels the Susquehanna river, and several miles of the line run along a steep bank, where trees outside the right of way but far above the line in elevation often take the line out.
	Thermographic inspection-OH line.	Completed	9/15/2006	Reduced outage risk. Waiting on information from contractor
	Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
37	**Circuit ID: 17902 BARTONSVILLE 79-02**			**CPI: 360**
	Expanded Operational Review. Voltage profile.	Completed	3/17/2006	Voltage Profile completed 3/17/2006: There is a need to move amps from the C phase to the A and B phase. However, there are no C phase taps small enough to be rephrased to solve the problem. When new taps are made, they should be put on the C phase to help balance the amps per phase.
	Expanded Operational Review. Perform Voltage Profile. Review circuit for possible LBAS installation.	Completed	7/26/2006	No additional LBAS's are needed.
	Thermographic inspection-OH line.	Completed	7/26/2006	Reduced outage risk.
38	**Circuit ID: 12002 HATFIELD 20-02**			**CPI: 360**
	7/11/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2006	This circuit experienced several lightning storms in June that caused 3 circuit breaker trips and subsequent large customer outages.
	Tree trimming.	Scheduled for	12/31/2006	
39	**Circuit ID: 13502 MCMICHAELS 35-02**			**CPI: 355**
	7/11/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2006	
	Expanded Operational Review. Perform voltage profile.	Completed	12/31/2006	Reduced outage risk. The profile results for the 35-02 line show the 3/0 ACSR section along sr715 from white church rd (by the substation) to just west of Neola rd to be overloaded ; however it is believed that the N.O. point at grid 66097N31266 (Neola Rd and 715) should be N.C and the LBAS at grid 65965N31192 should be N.O. This change will make all load downstream of OCR 66012N31176 served from the 1-57-01 line as opposed to the 1-35-02 line. Planning is investigating needed actions

Rank	Action	Status	Due/Complete	Result
40	**Circuit ID: 12301 LANARK 23-01**			**CPI: 353**
	Load balancing.	Completed	12/31/2003	Reduced outage duration.
	Circuit outage data analysis.	Completed	6/15/2004	The number of cases is 67% of the CPI. Two areas have numerous squirrel outages.
	Tree trimming.	Completed	9/1/2004	Reduced outage risk.
	Replace an overloaded 3 phase OCR and replace a hydraulic OCR with an electronic OCR with telemetrics.	Completed	9/14/2004	Reduced outage duration. The overload OCR was replaced on 9/7/2004 and the electronic OCR was installed on 5/10/2004.
	Line inspection-equipment.	Completed	3/28/2005	
	64 Animal guards are being installed on transformers on portions of the line with animal problems.	Completed	6/20/2005	Reduced outage risk.
	Single phase fuse installations.	Completed	6/20/2005	Reduced customer count affected by each outage.
	OCR settings were changed to reduce momentary interruptions.	Completed	6/20/2005	Reduced outage duration.
	Tree trimming.	Completed	9/30/2005	Reduced outage risk. Hot spotting started in July.
	Split up a long single phase tap into two taps by installing 3 spans of OH line.	Completed	10/4/2005	Reduced customer count affected by each outage. Construction completed.
	Install Fault Indicators	Completed	2/17/2006	Reduced outage duration.
	Install 3 switches in southern part of circuit. Fault indicators to be installed next to the new switches.	Completed	6/9/2006	Reduced outage duration.
	Tree trimming.	Completed	6/1/2006	Reduced outage risk.
	Install Fault Indicators.	Completed	8/15/2006	Reduced outage duration.
	An intelligent switching project has been identified to reduce customer minutes lost. The expected in service date is 12/31/06.	In progress	12/31/2006	Reduced outage duration.
	Perform Thermovision on this circuit, analyze results, and make repairs.	Completed	9/27/2006	Reduced outage risk. No repairs needed as a result of the Thermovision.
	Monitor future performance.	Ongoing		All of the above work is expected to improve the circuit's performance.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
41	**Circuit ID: 40502 CRESSONA 05-02**			**CPI: 351**
	Constructed a tie and permanently transferred a problem section to another circuit with better performance.	Completed	7/15/2003	Reduced outage risk.
	Transferred inaccessible portion of circuit to another tap.	Completed	12/31/2003	Reduced outage risk.
	Eliminated inaccessible tap.	Completed	12/31/2003	Reduced outage risk.
	Circuit outage data analysis.	Completed	6/30/2004	Main contributors were cases of trouble (various causes) and SAIFI.
	7/13/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2005	
	Tree trimming.	Completed	8/31/2005	Reduced outage risk.
	11/21/2005: Line inspection-equipment.	Completed	6/30/2006	Reduced outage risk. WR # 265791 Line inspection to be completed by a modified duty lineman. Reduce risk to future equipment related outages.
	2/23/2006: Expanded Operational Review. Voltage Profile Completed in 2005, Reliability Review Completed 2/23/2006, Field WR Review Completed 9/18/06	Completed	9/18/2006	Reliability review completed 2/23/06 Investigate reconductoring the Auburn #1 tie from Auburn West along SR 895. Line inspection to identify reliability issues to be conducted by modified duty lineman. Design complete on minor maintenance work, reliability work and additional tap switches.
	Line inspection-equipment.	Completed	5/23/2006	WR 294523 Inspect antherlite brackets and post insulators.
	Perform line maintenance identified by line inspection.	Completed	8/15/2006	Reduced outage risk. WR # 299128 to correct 47 minor maintenance repair items.
	Perform line maintenance identified by line inspection.	Completed	9/12/2006	Reduced outage risk. WR #299129 to perform 98 minor maintenance repair items.
	Perform line maintenance identified by line inspection.	Completed	9/1/2006	Reduced outage risk. WR 295935 and WR 309985 . Replace anderlite brackets.
	Install fuse(s).	Completed	9/11/2006	WR 312244 Install tap fuses on the Jefferson tap
	Perform line maintenance identified by line inspection.	Completed	7/28/2006	
	9/18/2006: Installing OCR communication to frequently locked out OCR.	Scheduled for	12/31/2006	Will provide remote reclosing, detailed monitoring, and improved response time to outages downstream of the OCR.

Rank	Action	Status	Due/Complete	Result
42	**Circuit ID: 16802 WAGNERS 68-02**			**CPI: 342**
	Circuit outage data analysis.	Completed	6/23/2004	Major contributor to CPI was the number of cases. There was no conclusive pattern to the outages.
	Tree trimming. Spot trimming.	Completed	12/31/2004	Reduced outage risk. Will continue to monitor this circuit to determine if trimming was successful.
	1/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2006	The majority of the outages were due to non-trimming related vegetation issues. There were also some outages due to vehicle contact and equipment failure. Increasing sectionalizing on the line should mitigate the effect of potential outages
	2/16/2006: Install LBAS(s).	Scheduled for	12/1/2006	Install new LBAS will increase sectionalizing resulting in fewer customer minutes lost in the event of an outage. Two LBAS will be installed as part of the sectionalizing improvement study.
	Expanded Operational Review. Perform Voltage Profile. Review circuit for possible LBAS installations.	Completed	6/29/2006	Line profile showed a need to balance phases and a possible low voltage. May need to install some capacitance. Transferred 3 single phase taps to balance load. Installed LBASs at 60344N35216 and 59801N34713.
	Transferred 3 single phase taps to balance load.	Completed	6/29/2006	Reduced outage risk.
	Installed LBASs at 60344N35216 and 59801N34713.	Completed	6/29/2006	Reduced outage duration.
	Tree trimming-selected line segments only (hot spots).	Scheduled for	12/31/2006	Reduced outage risk. Hot spotting completed. Tree trimming on schedule.
	Improve sectionalizing capability. Two switches will be installed by the third quarter of 2006.	Completed	6/29/2006	Reduced outage duration.
	Evaluate potential ties.	Scheduled for	12/31/2006	Reduced customer count affected by each outage. Potential ties identified. Reviewing least cost alternatives for solution.
	Expanded Operational Review. 400 kVAR identified for four locations	EOR planned	12/31/2006	
	Expanded Operational Review. Summer Thermography	Completed	7/26/2006	Reduced outage risk.
43	**Circuit ID: 14604 SO WHITEHALL 46-04**			**CPI: 339**
	Expanded Operational Review. Profiling in 2006.	Completed	6/27/2006	Profile completed on 4/13/06. Reliability review completed on 6/27/06. Line in good working order.
	Install Fault Indicators	Completed	5/10/2006	Reduced outage duration.
	Load balancing. Changing one tap to different phase.	Completed	7/6/2006	Engineering complete. Awaiting field completion. Tap change completed.
	Install Fault Indicators.	In progress	12/31/2006	Reduced outage duration. Engineering complete 6/27/06. Awaiting completion in field.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
44	**Circuit ID: 45702 LINDEN 57-02**			**CPI: 335**
	10/10/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/2/2005	The Linden 57-02 line was reported as having a high CPI dring the third quarter of 2005 because of the number of trouble cases. SAIFI contributed 41% to the total CPI. Most outages occurred on the secondary side. No tree outages on this circuit.
	11/2/2005: Tree trimming.	Scheduled for	12/31/2006	No tree outages on this circuit. The circuit is approximately 91 miles. 3 miles urban were trimmed in 2002, and the 88 miles rural were last trimmed in 2000. The urban section is scheduled to be trimmed in 2007, and the rural to be trimmed in 2006.
	11/2/2005: Line inspection-equipment.	Completed	3/31/2006	Line Inspection of 25-30 miles south of Susquehanna River is planned to be completed by the end of the first quarter 2006. A set of disconnects are to be installed on a 3ph line section to speed restoration times. This job is scheduled to be completed by the end of Q2, 2006.
	11/2/2005: Improve sectionalizing capability.	Completed	11/2/2005	The Susquehanna region have reviewed the line to determine if additional sectionalizing can be added. No need for sectionalizing on this circuit was found.
	12/13/2005: Monitor future performance.	Ongoing		No further action is required for this circuit. The WPC team will continue to monitor the circuit's performance in the future.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	
45	**Circuit ID: 12102 SO ALLENTOWN 21-02**			**CPI: 334**
	Expanded Operational Review. Reliability Review completed 9/6/06. Field Review in progress.	EOR initiated	12/1/2006	
	Install Fault Indicators.	Completed	3/30/2006	Reduced outage duration.
	Install 3 phase OCR(s).	In progress	10/31/2006	Reduced customer count affected by each outage.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
46	**Circuit ID: 41002 LAURELTON 10-02**			**CPI: 333**
	8/7/2006: Circuit outage data analysis.	Completed	8/7/2006	The team reviewed all outages on the circuit. Many cases of troubles were due to animals on the secondary side. Also, trees-not trimming related caused few long duration outages on this circuit.
	8/7/2006: Tree trimming.	Completed	12/31/2003	The Laurelton 10-02 is 73 miles long, and it is all rural. It was last trimmed in 2003. The line is scheduled to be trimmed again in 2011. The Forestor crew has been doing hot spotting on this line where needed. The crew will continue to check the circuit for more hot spotting jobs.
	8/7/2006: Line inspection-equipment.	Completed	6/30/2006	A line inspection was performed in the second quarter of 2006. Different items were identified by the inspection including replacing TFC's, insulators, crossarms, and guys. 18 work requrests were initiated and scheduled to be completed by the end of the third quarter of 2006.
	9/26/2006: Install animal guard(s).	Scheduled for	11/15/2006	Reduced outage risk. Based on the multi-outage report of repeated outages on a specifc transformer, the report is being evaluated. With the help of the foreman, all outages prone device on this list will be double checked for animal guards.
	9/26/2006: Install fuse(s).	In progress	11/1/2006	Reduced customer count affected by each outage. During the passing of tropical storm Ernesto, the breaker tripped due to a transformer blown on a two phase tap. The line was reviewed for proper fusing. 2 fuses were desinged and scheduled to be installed at the line by the end of October 2006.
	Thermographic inspection-OH line.	Completed	10/6/2006	Reduced outage risk. Thermography was done on all 3 and 2 phase sections of this line on October 5th and 6th. No hotspots were found by the line thermovision.
	8/1/2006: Monitor future performance.	Ongoing		

Rank	Action	Status	Due/Complete	Result
47	**Circuit ID: 43401 BENTON 34-01**			**CPI: 333**
	Circuit outage data analysis.	Completed	8/22/2005	CPI for the Q2, 2005 was primarily driven by cases of trouble (152; 49% of CPI) . The only reported significant outage occurring on 34-1 during the first quarter of 2004 was a vehicle accident on 1/12/2004 causing 183 customers to be out of service for 2 hrs. During the second quarter of 2004, the high CPI was due to equipment failure, approximately 188 customers experienced outages ranging from 1 hr to 6 hrs, on 5-2-2004, 5-3-2004, and 5/5/2004. During the third quarter of 2004, approximately 200 customers experienced outages ranging from 7 hrs to 78 hours, due to hurricane IVAN on 9/18/2004. Specifically, 100 of these 200 customers experienced a 78 hour outage due to trees off the right of way (not tree trimming related), however, the remaining 100 customers did experienced a 16 to 20 hr outage due to inadequate tree trimming. 40 CPI points were due to a pole hit during Q4, 2004, and no major outages in Q1, 2005.The circuit improved since the last quarter of 2004, and nothing major in the Q2, 2005.
	Perform line maintenance identified by line inspection.	Completed	8/22/2005	The line was inspected in the winter of 2004, and some items were identified by inspection. Work requests were written for those items to replace transformers, TFC's, LBC's, Ridge Pins, and install animal guards. some of the work requests were completed in the first quarter of 2005 and the rest were done by the end of the second quarter.
	Improve sectionalizing capability. Review line to determine if additional sectionalizing can be added to minimize the number of customers affected by emergency outages.	Completed	6/1/2005	Susquehanna Region has reviewed line for locations to add OCR's, or other sectionalizing devices. No new locations were found during the review.
	11/2/2005: Circuit outage data analysis.	Completed	11/2/2005	Major contribution to the CPI was due to the number of cases (47% of total CPI). Trees not trimming related caused long duration outages in the third quarter 2005 due to a big storm on 7/13/2005.
	11/2/2005: Tree trimming.	Completed	12/1/2005	The Benton line 1 is 132 miles long, and it is all rural. The 3-phase hot-spot trimming was completed by December 30 2004. Tree trimming work was fully completed on the circuit by December 2005. Approximately $400,000 was spent on tree trimming on this line.
	11/2/2005: Line inspection-equipment.	Completed	8/31/2005	The Benton line was inspected by the end of Q4, 2004. A lot of different items were identified by inspection. WR's 213126, 211539, 205701, 205695, 205639, 205634, 205604, 205401, 205387, 205378, 205332, 204966, and 187571 were written due to inspection. Work requests were completed by August 2005.
	2/9/2006: Improve sectionalizing capability.	Completed	3/20/2006	Reduced customer count affected by each outage. The line crew reviewed the line for additional sectionlizing devices. An air break switch was installed on the Benton -01 line to reduce the duration of outages on the line.
	11/2/2005: Monitor future performance.	Ongoing		Thermovision of 3 phase was completed in December 05 12.8 miles. No hot spots were found on line. Recent tree trimming and work requests identified by inspection are expected to improve the circuit's performance. PPL will continue to monitor the circuit's performance in the future.
	Expanded Operational Review.	EOR initiated	12/31/2006	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
48	**Circuit ID: 18501 CANADENSIS 85-01**			**CPI: 332**
	Line inspection-vegetation. Forester will schedule a vegetation line inspection on the main three phase circuit and perform hotspot trimming as required.	Completed	6/30/2005	
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list. Analysis is underway.	Completed	9/30/2006	
	Expanded Operational Review. Perform Voltage Profile. Review circuit for possible LBAS installation. Voltage Profile to be completed by 8/15/2006.	*EOR initiated*	*12/31/2006*	
	Installed LBAS at 68260N38085 and 68339N38829.	Completed	6/30/2006	Reduced outage duration.
	Evaluate potential ties. Two possible location have been identified to transfer approximately 3 MVA between the Mount Pocono 64-02 and Canadensis 85-01 lines. Further evaluation is underway. Expected decision on plan of action by the 4th quarter of 2006.	Completed	10/10/2006	Reduced customer count affected by each outage.
49	**Circuit ID: 67702 WERNERSVILLE 77-02**			**CPI: 329**
	8/3/2005: Install fuse(s). Fall 2005 SAIDI Project	Completed	8/3/2005	Reduced customer count affected by each outage.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	

Rank	Action	Status	Due/Complete	Result
50	**Circuit ID: 17802 GILBERT 78-02**			**CPI: 329**
	Circuit outage data analysis.	Completed	6/23/2004	Major contributor to CPI was the number of cases. Although the line was trimmed in 2000, there were several trimming related outages.
	Tree trimming. A work request has been initiated for line segments identified for hot spot trimming	Completed	9/30/2004	Reduced outage risk.
	A work request was initiated to add series fusing to decrease customer outages on a poor performing section of line. This work is to be completed by October 2004.	Completed	9/30/2004	Reduced customer count affected by each outage.
	A detailed analysis of sectionalizing will be completed on this line. A review of the existing protection and potential device additions will be performed.	Completed	9/30/2004	
	7/13/2005: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2005	
	Install fuse(s). WR# 221771; WR# 224357; WR#228964 for sectionalizing device.	Completed	6/30/2006	Reduced customer count affected by each outage. Work identified under SAIDI effort to reduce customer minutes lost.
	Tree trimming.	Completed	6/30/2006	Reduced outage risk.
	11/22/2005: Field Engineer will review locations for additional OCR's	Completed	9/30/2006	Reduced outage duration. None required.
	2/16/2006: Install LBAS(s). One LBAS is scheduled to be installed by 11/30/06.	Completed	7/26/2006	Reduced outage duration. Installing additional sectionalizing devices will reduce the number of customer experiencing an outage.
	Evaluate potential ties. Review in progress and will be completed the end of 2006.	Completed	9/30/2006	Reduced outage duration. None available.
	Monitor future performance.	Ongoing		
51	**Circuit ID: 17001 RIDGE ROAD 70-01**			**CPI: 328**
	Expanded Operational Review.	Completed	9/21/2006	Voltage profile for light and peak load conditions completed 5-25-2005. Settings one one capacitor need to be changed. New single phase capacitor was installed. Voltage regulator will be installed. Tree trimming was identified along Rt 563.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	
52	**Circuit ID: 17002 RIDGE ROAD 70-02**			**CPI: 328**
	Expanded Operational Review.	Completed	9/21/2006	
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	

Rank	Action	Status	Due/Complete	Result
53	**Circuit ID: 25501 MADISONVILLE 55-01**			**CPI: 325**
	5/31/2005: Install animal guard(s). Animal guards were installed on a single phase tap. Additional animal guards are installed as necessary.	Ongoing		Installation of animal guards will prevent repeated outages on secitons of line
	Circuit outage data analysis.	Completed	6/23/2004	Major contributor to CPI was the number of cases and SAIFI. Many tree related outages both non-trimming and trimming related, equipment failures, and animal contacts.
	Tree trimming.	Completed	12/30/2004	Reduced outage risk.
	Monitor future performance	Ongoing		
	4/10/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2006	Approximately 29% percent of the CPI was due to equipment failure. Equipment failure related outages affected larger numbers of customers were due to bad weather conditions. Approximately 23% of outages were due to animal contact. Animal guards were installed on a single phase tap and additional animal guards are installed as necessary on the line.
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	
54	**Circuit ID: 14403 SO SLATINGTON 44-03**			**CPI: 323**
	Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2004	
	OCR Review	Completed	12/23/2004	An undersized OCR has been replaced with one more capable of handling load issues. This should drive down outage duration for the effected customers.
	Load balancing.	Completed	6/15/2005	Reduced outage risk.
	Several OCRs on circuit are being upgraded due to load and additional sectionalizing also in progress.	Completed	6/28/2005	Reduced customer count affected by each outage.
	7/11/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2006	Storms in mid-January and late-June are the most significant contrinutors to outage minutes for this circuit.
	Install Fault Indicators.	Scheduled for	12/31/2006	Reduced outage duration.
	Tree trimming.	Scheduled for	12/31/2006	Reduced outage risk. Trimming of the entire circuit began on 5/30/06.
55	**Circuit ID: 15704 TANNERSVILLE 57-04**			**CPI: 323**
	10/9/2006: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2006	

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

The following table shows a breakdown of service interruption causes for the 12 months ended at the current quarter. The top three causes (Animals, Equipment Failure and Trees – Not Trimming Related), based on the percent of cases, are highlighted in the table. Service interruption definitions are provided in Appendix B. PPL Electric's maintenance programs focus on corrective actions to address controllable interruptions (e.g., trees and equipment failure).

Cause Description	Trouble Cases[7]	Percent of Trouble Cases	Customer Interruptions[8]	Percent of Customer Interruptions	Customer Minutes	Percent of Customer Minutes
Improper Design	3	0.01%	4	0.00%	441	0.0%
Improper Installation	1	0.00%	3	0.00%	210	0.0%
Improper Operation	0	0.00%	0	0.00%	0	0.0%
Trees - Inadequate Trimming	1,722	6.96%	129,054	7.50%	26,938,898	10.2%
Trees - Not Trimming Related	4,758	19.24%	479,563	27.86%	115,601,443	44.0%
Animals	6,386	25.83%	106,927	6.21%	9,272,913	3.5%
Vehicles	800	3.24%	136,602	7.94%	14,950,564	5.7%
Contact/Dig-in	217	0.88%	33,831	1.97%	2,631,006	1.0%
Equipment Failure	5,970	24.14%	513,855	29.86%	59,970,641	22.8%
Forced Prearranged	690	2.79%	57,174	3.32%	4,369,059	1.7%
Other - Controllable	272	1.10%	15,962	0.93%	1,599,790	0.6%
Nothing Found	2,518	10.18%	141,127	8.20%	14,547,371	5.5%
Other - Public	96	0.39%	9,539	0.55%	1,086,995	0.4%
Other - Non-Controllable	1,294	5.23%	97,489	5.66%	11,996,368	4.6%
Total	**24,727**	**100.00%**	**1,721,130**	**100.00%**	**262,965,699**	**100.0%**

[7] Trouble cases are the number of sustained customer service interruptions (i.e., service outages).

[8] The data reflects the number of customers interrupted for each interruption event summed for all events, also known as customer interruptions. If a customer is affected by three separate cases of trouble, that customer represents three customer interruptions, but only one customer interrupted.

Analysis of causes contributing to the majority of service interruptions:

Weather Conditions: PPL Electric records weather conditions, such as wind or lightning, as contributing factors to service interruptions, but does not code them as direct interruption causes. Therefore, some fluctuations in cause categories, especially tree- and equipment-related causes, are attributable to weather variations. PPL Electric has experienced a peak in both reportable and non-reportable storms during this reporting period.

Trees – Inadequate Trimming: In 2004, PPL Electric adopted an improved tree-trimming specification and shortened maintenance trimming cycles to reverse a gradual increase in service interruptions attributed to inadequate trimming. The shortened cycle times took effect on January 1, 2005. PPL Electric implemented the revised specification in the first quarter of 2005. PPL Electric is monitoring the effectiveness of these changes.

Trees – Not Trimming Related: Although their effect on reliability is significant, tree outages not related to trimming are caused by trees falling from outside of PPL Electric's rights-of-way, and generally are not controllable.

Animals: Animals account for about 26% of PPL Electric's cases of trouble. Although this represents a significant number of cases, the effect on SAIFI and CAIDI is small because nearly 92% of the number of cases of trouble is associated with individual distribution transformers. However, when animal contacts affect substation equipment, the effect is widespread and potentially can interrupt thousands of customers on multiple circuits. PPL Electric installs squirrel guards on new installations and in any existing location that has been affected by multiple animal-related interruptions.

Vehicles: Although vehicles cause a small percentage of the number of cases of trouble, they account for a large percentage of customer interruptions and customer minutes, because main distribution lines generally are located along major thoroughfares with higher traffic densities. In addition, vehicle-related cases often result in extended repair times to replace broken poles. Service interruptions due to vehicles are on the rise as a result of an increasing number of drivers and vehicles on the road. PPL Electric has a program to identify and relocate poles that are subject to multiple vehicle hits.

Equipment Failure: Equipment failure is one of the largest single contributors to the number of cases of trouble, customer interruptions and customer minutes. However, approximately 40% of the cases of trouble, 39% of the customer interruptions and 46% of the customer minutes attributed to equipment failure are weather-related and, as such, are not considered to be indicators of equipment condition or performance.

Nothing Found: This description is recorded when the responding crew can find no cause for the interruption. That is, when there is no evidence of equipment failure, damage, or contact after a line patrol is completed. For example, during heavy thunderstorms, when a line fuse blows or a single-phase OCR locks open and when closed for test, the fuse holds, or the OCR remains closed, and a patrol reveals nothing.

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

Inspection & Maintenance Goals/Objectives	Annual Budget	3rd Quarter		Year-to-date	
		Budget	Actual	Budget	Actual
Transmission					
Transmission C-tag poles (# of poles)	240	65	92	179	224
Transmission arm replacements (# of sets)	1,200	356	458	898	1,042
Transmission lightning arrester installations (# of sets)	24	10	10	19	28
Foot patrols (# of miles)	1,350	0	74	1,350	1,195
Transmission air break switch inspections (# of)	60	12	8	42	40
Transmission tree trimming (# of linear feet)	408,929	100,000	144,755	328,929	364,067
Transmission herbicide (# of acres)	5,002	3,302	3,356	5,002	4,849
Substation					
Substation batteries (# of activities)	833	87	31	818	827
Circuit breakers (# of activities)	3,195	700	684	2,478	2,402
Substation inspections (# of activities)	3,439	827	740	2,626	2,615
Transformer maintenance (# of activities)	2,109	397	417	1,687	1,567
Distribution					
Distribution C-tag poles replaced (# of poles)	2,232	541	535	1,747	2,114
C-truss distribution poles (# of poles)	384	121	94	242	434
Capacitor (MVAR added)	80	10	24	71	79
OCR replacements (# of)	510	78	61	467	530
Oil Switch replacements (# of)	60	17	32	45	67
Distribution air break switch inspections (# of)	258	65	37	194	197
Distribution pole inspections (# of poles)	79,831	29,936	34,406	59,873	77,485
Distribution line inspections (# of miles)	3,000	750	958	2,250	3,507
Group Relamping (# of lamps)	18,500	4,625	3,718	13,875	12,881
Test sections of underground distribution cable	800	200	200	600	662
Distribution tree trimming (# of miles)	4,667	931	1,350	4,006	4,109
Distribution herbicide (# of acres)	1,325	750	513	1,150	666
LTN manhole inspections (# of)	407	114	139	323	327
LTN vault inspections (# of)	594	130	172	427	454
LTN network protector overhauls (# of)	82	14	31	69	61
LTN reverse power trip testing (# of)	108	27	29	81	68

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

The following table provides the operation and maintenance expenses for PPL Electric, as a whole, which includes the work identified in response to Item (6).

	3rd Quarter		Year-to-date	
Activity	**Budget** ($1,000s)	**Actual** ($1,000s)	**Budget** ($1,000s)	**Actual** ($1,000s)
Provide Electric Service	3,681	3,757	9,972	10,771
Vegetation Management	5,648	9,605	14,544	17,850
Customer Response	15,981	18,093	40,050	46,811
Reliability & Maintenance	15,310	14,716	45,755	45,398
System Upgrade	2,054	1,233	6,006	3,783
Customer Services/Accounts	18,698	19,089	54,932	54,403
Others	30,786	23,957	85,584	82,842
Total O&M Expenses	**92,158**	**90,450**	**256,843**	**261,858**

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

The following table provides the capital expenditures for PPL Electric, as a whole, which includes transmission and distribution ("T&D") activities.

	3rd Quarter		Year-to-date	
	Budget ($1,000s)	**Actual** ($1,000s)	**Budget** ($1,000s)	**Actual** ($1,000s)
New Service/Revenue	24,593	20,184	65,835	63,869
System Upgrade	15,190	10,023	46,207	26,054
Reliability & Maintenance	14,261	13,276	35,823	40,251
Customer Response	967	1,780	2,087	3,466
Other	2,190	2,648	6,571	5,176
Total	**57,201**	**47,911**	**156,523**	**138,816**

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

The following table shows the dedicated staffing levels as of the end of the quarter. Job descriptions are provided in Appendix C.

Transmission and Distribution (T&D)	
Lineman Leader	77
Journeyman Lineman	144
Lineman	82
Helper	112
Troubleman	55
T&D Total	**470**
Electrical	
Leaders	42
Journeyman	90
Electricians	56
Helpers	51
Electrical Total	**239**
Overall Total	**709**

Appendix A

PPL Electric Utilities Corporation
Worst Performing Circuit Definition

PPL Electric uses a Circuit Performance Index (CPI) to define the worst performing circuits on its system. The CPI covers about 1,100 feeders across the PPL Electric service area.

The CPI is derived using the following statistics and weighting factors:

- Cases of Trouble[9] - 33%
- CAIDI - 30%
- SAIFI - 37%

Major Events, momentary interruptions, and planned prearranged jobs are excluded.

The CPI values are obtained by multiplying the individual feeder statistics by coefficients based on the 5-year period, 1996-2000. Average values over this period were:

- Cases of Trouble - 16.6 per feeder per year
- CAIDI - 140 minutes
- SAIFI - 0.834 per customer per year

A hypothetical feeder with Cases of Trouble, CAIDI, and SAIFI values equal to the 5-year averages would have a CPI value of 100. Any variations in the values of Cases of Trouble, CAIDI, or SAIFI would affect the CPI values in accordance with the weighting factors.

[9] Cases of trouble are the number of sustained customer service interruptions.

Appendix B

PPL Electric Utilities Corporation
Service Interruption Definitions

Trouble Definitions: After field investigations and repairs are complete, PPL Electric linemen report the cause of each case of trouble. This information is electronically recorded as a "cause code" number when the job record is closed. PPL Electric cause codes are subdivided into three general classifications: Controllable, Non-Controllable and Public. The definitions of the cause codes are:

10 – Improper Design	Controllable	• When an employee or agent of PPL Electric is responsible for an error of commission or omission in the engineering or design of the distribution system. (Facility Records personnel use only)
11 – Improper Installation	Controllable	• When an employee or agent of PPL Electric is responsible for an error of commission or omission in the construction or installation of the distribution system. (Facility Records personnel use only)
12 – Improper Operation	Controllable	• When an employee or agent of PPL Electric is responsible for an error of commission or omission in the operation or maintenance of the distribution system. (Facility Records personnel use only)
30 – Trees – Inadequate Trimming	Controllable	• Outages resulting from the lack of adequate tree trimming (within the Right of Way).
35 – Trees – Not Trim Related	Non-Controllable	• Outages due to trees, but not related to lack of or proper maintenance tree trimming. This includes trees falling into PPL Electric facilities from outside the right-of-way, danger timber blown into facilities, and trees or limbs cut or felled into facilities by a non-employee.
40 – Animals	Controllable	• Any outage caused by an animal directly or indirectly coming in contact with PPL Electric facilities. This includes birds, squirrels, raccoons, snakes, cows, etc.
41 – Vehicles	Public	• When cars, trucks or other types of vehicles or their cargoes strike facilities causing an interruption.
51 – Contact/Dig-in	Public	• When work in the vicinity of energized overhead facilities results in interruptions due to accidental contact by cranes, shovels, TV antennas, construction equipment (lumber, siding, ladders, scaffolding, roofing, etc.). • When contact is made by a non-employee with an underground facility causing interruption.

60 – Equipment Failure	Controllable	• Outages resulting from equipment failures caused by corrosion or contamination from build-up of materials, such as cement dust or other pollutants. • Outages resulting from a component wearing out due to age or exposure, including fuse tearing or breaking. • Outages resulting from a component or substance comprising a piece of equipment failing to perform its intended function. • Outages resulting from a failure that appears to be the result of a manufacturer's defect or cannot be described by any other code indicating the specific type of failure.
80 – Scheduled Prearranged[10]	Controllable	• Interruptions under the control of a PPL Electric switchman or direction of a PPL Electric System Operator for the purpose of performing scheduled maintenance, repairs, and capacity replacements for the safety of personnel and the protection of equipment. • Includes requests from customers for interruption of PPL Electric facilities.
85 – Forced Prearranged	Non-Controllable	• Interruptions under the control of a PPL Electric switchman or direction of a PPL Electric System Operator for the purpose of dropping load or isolating facilities upon request during emergency situations. • Interruptions which cannot be postponed or scheduled for a later time, and include situations like load curtailment during system emergencies, and requests of civil authorities such as fire departments, police departments, civil defense, etc. for interruption of PPL Electric facilities.

[10] Interruptions under the control of a PPL Electric switchman or the direction of a PPL Electric System Operator for the purpose of isolating damaged facilities to make repairs are reported using the initial cause of the damage when the interruption is taken immediately, but are reported as scheduled prearranged when the interruption is postponed.

90 – Other – Controllable (Lineman provides explanation)	Controllable	• Interruptions caused by phase to phase or phase to neutral contacts, resulting from sleet or ice dropping off conductors, galloping conductors, or any other phase to phase or phase to neutral contact where weather is a factor. • Interruptions resulting from excessive load that cause that facility to fail. • When restoration of service to a facility, which had been interrupted for repairs or other reasons, causes an additional interruption to another facility which had not been involved in the initial interruptions.
96 – Nothing Found	Non-Controllable	• When no cause for the interruption can be found. • When there is no evidence of equipment failure, damage, or contact after line patrol is completed. This could be the case during a period of heavy T&L when a line fuse blows or a single phase OCR locks open. • When closed for test, the fuse holds or the OCR remains closed. A patrol of the tap reveals nothing.
98 – Other Public (Lineman provides explanation)	Public	• All outages resulting from gunfire, civil disorder, objects thrown, or any other act intentionally committed for the purpose of disrupting service or damaging company facilities.
99 – Other – Non-Controllable (Lineman provides explanation)	Non-Controllable	• Any outage occurring because of a fire, flood, or a situation that develops as a result of a fire or flood. Do not use when facilities are de-energized at the request of civil authorities. • When an interruption is caused by objects other than trees, such as kites, balls, model airplanes, roofing material, and fences, being accidentally blown or thrown into overhead facilities. • All interruptions caused by contact of energized equipment with facilities of other attached companies or by trouble on customer owned equipment.

Robert R. Stoyko
Vice President - Electric Distribution

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November 1, 2006

Mr. James J. McNulty, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

SENT VIA FEDERAL EXPRESS

RE: **Quarterly Electric System Reliability Report**
12 Months Ending September 30, 2006

Dear Secretary McNulty:

Pursuant to the Commission's Final Rulemaking Order addressing Electric Service Reliability Regulations (52 Pa. Code §§57.191 - 57.197) at Docket Nos. L-00030161 and M-00991220, UGI Utilities, Inc. - Electric Division ("UGI") hereby files an original and six copies of its Quarterly System Reliability Report. This report contains SAIDI, SAIFI, and CAIDI results on a 12-month rolling basis for the period ending September 30, 2006 along with the raw data from the same period. Also included is a breakdown of outages by cause for the 12 months ending September 30, 2006. The actual statistics continue to be favorable to both the benchmark and standard adopted for UGI.

The Office of Consumer Advocate, the Office of Small Business Advocate, the Bureau of Audits, and the Bureau of Conservation, Economics and Energy Planning have each been served with copies of this filing.

Questions related to the attached report should be directed to Ms. Abigail J. Hemmerich at (610) 796-3431 or email ahemmerich@ugi.com.

Kindly acknowledge receipt of this filing by date stamping the enclosed copy of this letter and returning it in the enclosed stamped, self-addressed envelope.

Sincerely,

Robert R. Stoyko
Vice President - Electric Distribution
Attachment

cc: **FEDERAL EXPRESS**

Irwin A. Popowsky
Office of Consumer Advocate
555 Walnut St.
5th Floor, Forum Place
Harrisburg, PA 17101-1921

William R. Lloyd
Office of Small Business Advocate
Suite 1102, Commerce Bldg.
300 North Second St.
Harrisburg, PA 17101

Thomas E. Sheets
Bureau of Audits
Pennsylvania Public Utility Commission
Commonwealth Keystone Bldg.
3rd Floor, F East
Harrisburg, PA 17101

Darren Gill
Supervisor of Electric Reliability
Bureau of Conservation, Economics and Energy Planning
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

UGI Utilities, Inc. – Electric Division System Reliability Report: Quarterly Update

November 1, 2006

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

No major events occurred during the preceding quarter.

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

The 12 month rolling reliability results for UGI's service area are as follows:

	SAIFI	SAIDI	CAIDI
12-Month Standard	**1.12**	**256**	**228**
12-Month Benchmark	**0.83**	**140**	**169**
12 months Ended September, 2006	0.78	84	108

Note:

SAIFI – System Average Interruption Frequency Index
SAIDI – System Average Interruption Duration Index
CAIDI – Customer Average Interruption Duration Index

Raw Data: October 2005 - September 2006

Month	SI	TCI	TCB	TMCI
Oct-2005	45	5,703	61,787	524,327
Nov-2005	63	6,240	61,827	717,080
Dec-2005	33	562	61,876	93,771
Jan-2006	55	4,232	61,946	664,701
Feb-2006	44	8,426	61,990	775,329
Mar-2006	19	589	61,952	31,327
Apr-2006	52	3,580	61,881	395,664
May-2006	61	1,797	61,834	340,322
Jun-2006	83	6,969	61,842	746,175
Jul-2006	61	755	61,780	144,081
Aug-2006	61	5,937	61,829	475,143
Sep-2006	52	3,273	61,869	281,956
TOTAL	*629*	*48,063*	*61,868 **	*5,189,876*

SI: Sustained Interruptions
TCI: Total Customers Interrupted
TCB: Total Customer Base (*12-month arithmetic average)
TMCI: Total Minutes Customer Interruption

Note: There were no major events excluded from the numbers used in calculating the indices.

SAIFI

The 12-month rolling SAIFI index decreased 4% from 0.81 in our last quarterly report to 0.78 for the period ending September 2006.

Severe storms during May and June 2006 resulted in downed power lines and a number of distribution line pole washouts. UGI's 12-month rolling SAIFI and SAIDI indices continue to reflect the impact of these service interruptions. Additionally, UGI continues to experience a significant number of failures of the A. B. Chance fuse cutout.

SAIDI

The SAIDI value for the 12 months ending September 2006 is 84. This result is 12.5% lower than results reported through June 2006 and tracking well below UGI's benchmark level of 140.

CAIDI

The CAIDI result of 108 for the 12-month reporting period ending September, 2006 is 8% lower than last reported.

§57.195(e)(5)–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 the customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related and so forth. Proposed solutions to identified service problems shall be reported.

Outage by Cause: October 2005 - September 2006

Cause	% of Total Incidents	Number of Interruptions	Customers Interrupted	Minutes Interrupted
Animal	12.08%	76	3,640	204,663
Company Agent	0.32%	2	60	1,144
Construction Error	0.48%	3	21	3,489
Customer Problem	1.11%	7	22	4,881
Equipment Failure	37.84%	238	11,712	1,057,917
Lightning	9.22%	58	4,647	702,896
Motor Vehicle	4.45%	28	6,248	480,548
Other	0.79%	5	19	2,115
Public	2.23%	14	4,267	227,010
Structure Fire	0.48%	3	58	4,967
Trees	22.26%	140	13,842	1,840,515
Unknown	3.82%	24	1,484	143,087
Weather/Ice	0.16%	1	7	1,890
Weather/Wind	4.77%	30	2,036	514,754
TOTAL	100.00%	629	48,063	5,189,876

Proposed Solutions to Identified Problems:

Thirty-eight percent of the outages reported above resulted from equipment failure. A significant portion of these equipment failures are attributed to a problem with the A. B. Chance fuse cutouts utilized on the UGI system. As discussed in previous reports, UGI has implemented a replacement program to actively identify and replace these defective parts. The replacement work effort is ongoing.

Brian D. Crowe
Director
Rates & Regulatory Affairs

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PECO
An Exelon Company

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ORIGINAL

November 1, 2006

FedEx

Mr. James McNulty, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Second Floor
Harrisburg, Pennsylvania 17120

Re: PUC Docket No. L-00030161
Rulemaking Re Amending Electric Service Reliability Regulations at 52 Pa. Code Chapter 57

Dear Secretary McNulty:

In accordance with Electric Service Reliability Regulations at 52 Pa. Code Chapter 57, enclosed are an original and six copies of PECO's 2006 Quarterly Reliability Report for the period ending September 30, 2006.

Because portions of the report contain sensitive and proprietary information, PECO is filing two versions of the report, one public and one proprietary. PECO requests that the proprietary report, which has been separated and clearly marked with a "Confidential and Proprietary" header on each page, be kept confidential, pursuant to commission order of March 20, 2006.

If you have any further questions regarding this matter, please call me at 215-841-5316.

Sincerely,

Brian D. Crowe

cc: Office of Consumer Advocate
Office of Small Business Advocate

enclosures

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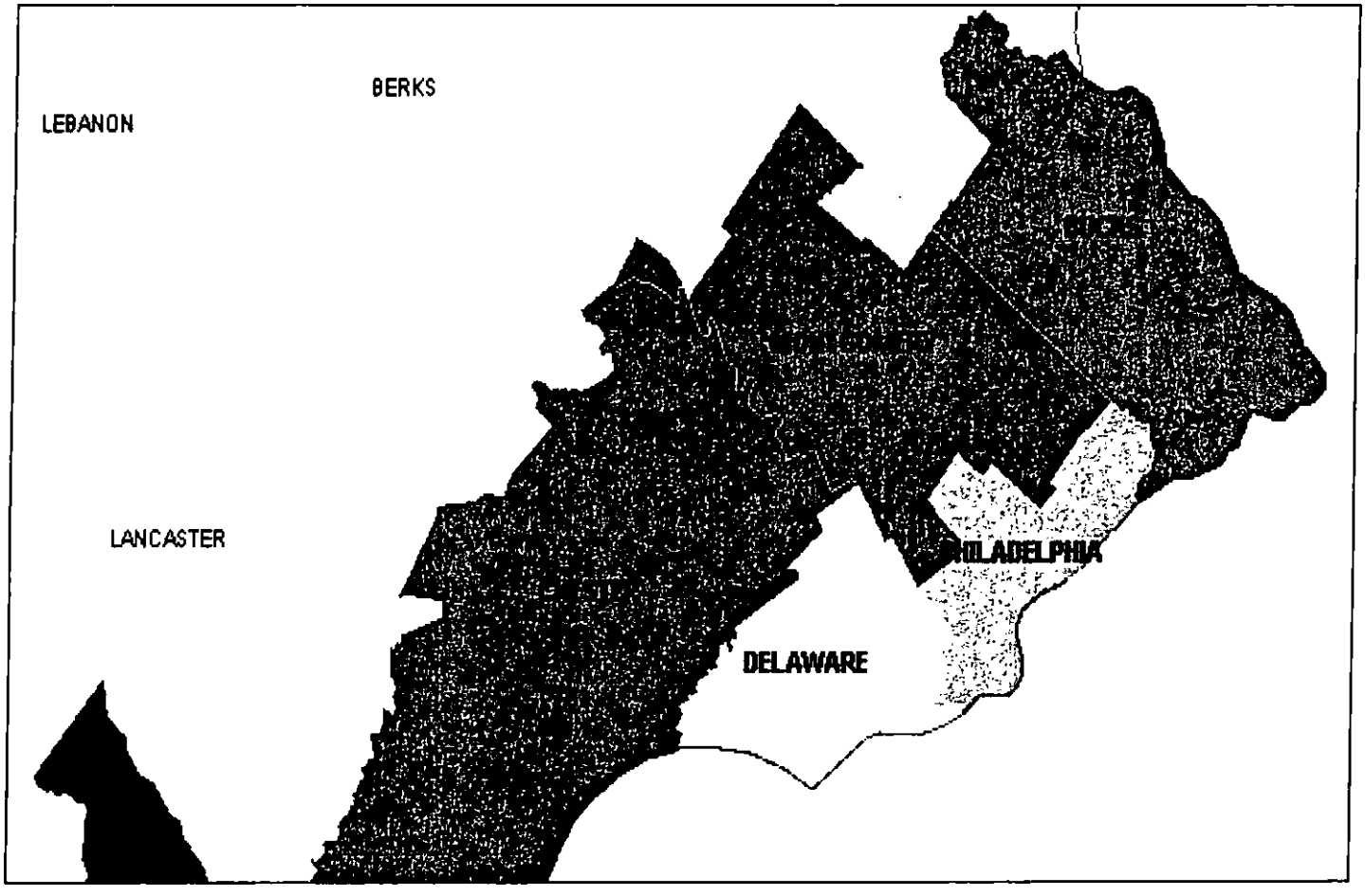
PECO Energy Company
Quarterly Reliability Report
For Period Ending September 30, 2006



November 1, 2006

PECO Energy ("PECO")
Quarterly Reliability Report for the Period Ending September 30, 2006
filed with the Pennsylvania Public Utility Commission.

Submitted per Rulemaking Re: Amending Electric Service, Docket No. L-00030161 Reliability Regulations at 52 Pa.Code Chapter 57

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

A wind and lightning storm occurred on July 18, 2006 with service interruptions first reported at 6:36 p.m. The storm affected over 480,000 customers. Full customer service restoration was complete on July 24, 2006, at 6:45 p.m. The majority of outages occurred in Chester and Montgomery counties although all counties in the PECO service territory were affected. More than 3,600 employees including 1,000 Peco Field employees, 1,000 contract employees, 488 tree trimmers, 1,000 Peco back office employees and 220 workers from foreign utilities were involved in the restoration process. The storm contained winds in excess of 70 miles per hour and more than 6,500 lightning strikes.

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

PECO Customers	Sustained Customer Interruptions	Sustained Customer Hours	Momentary Customer Interruptions	Sustained Customer Minutes	SAIFI	CAIDI	SAIDI	MAIFI
1,630,831	2,187,728	4,775,892	1,196,573	286,553,522	1.34	131	176	0.73

Data reflects 12 months ending 9/30/2006

PECO Benchmarks and Rolling 12-Month Standards				
	SAIFI	CAIDI	SAIDI	MAIFI
Benchmark	1.23	112	138	N/A
Rolling 12-Month Standard	1.48	134	198	N/A

SAIFI, CAIDI, and SAIDI are above their respective benchmarks, but below the standards established on May 7, 2004. No benchmark or standard was established for MAIFI.
PECO experienced large storms in January and June of 2006 that were not major events by PUC criteria. These storms combined to affect over 300,000 customers, increasing SAIFI by 0.20 and also increasing CAIDI and SAIDI.

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

PECO's worst performing 5% circuits for 2006 are selected based on rolled up customer interruptions – a count of all customer interruptions on a given circuit and on other circuits for which it is a source, due to outages on the given circuit in a 12 month period. This measure is oriented toward its contribution to system SAIFI. In addition, circuits with a history of repeat appearance on worst performing lists, or with high circuit SAIFI, were selectively included in the 5% list.

Worst circuits and the rolling 12-month reliability index values requested are shown in Appendix A.

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

Remedial efforts taken or planned to date for PECO's worst performing 5% of circuits are shown in Appendix B.

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

12 Months Ending September 30, 2006					
Cause	Cases of Trouble	% Cases of Trouble	Customer* Interruptions	% Customer Interruptions	Customer Minutes
Animal Contact	1,298	8.9%	57,694	2.6%	4,176,883
Contact / Dig In	287	2.0%	43,999	2.0%	2,971,661
Equipment Failure	4,832	32.9%	669,735	30.6%	72,052,158
Lightning	1,151	7.8%	212,405	9.7%	31,779,244
Transmission / Substation	10	0.1%	31,784	1.5%	3,906,287
Vegetation - Broken / Uprooted	2,485	16.9%	561,045	25.6%	97,097,049
Vegetation - In-growth	2,198	15.0%	186,120	8.5%	32,115,404
Vehicles	375	2.6%	116,982	5.3%	8,897,918
Unknown	661	4.5%	123,731	5.7%	10,763,356
Other	1,368	9.3%	184,233	8.4%	22,793,561

*The data supplied is the number of interrupted customers for each interruption event summed for all events, also known as customer interruptions. A customer interrupted by three separate trouble cases represents three customer interruptions, but only one customer interrupted.

The largest contributors to customer interruptions were equipment failure and tree-related interruptions. The leading groups within the equipment failure category were aerial equipment and underground equipment. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (75%), as opposed to ingrowth (25%).

Section 57.195(e)(6). *"Quarterly and year to date information on progress toward meeting transmission and distribution inspection and maintenance goals /objectives" (For First, Second and Third Quarter reports only)."*

Predictive and Preventive Maintenance Program – status as of 9/30/06					
	3rd Quarter Tasks		YTD Tasks		2006 Total Planned
	Planned	Complete	Planned	Complete	
Manhole Inspections (Number of manholes inspected)	915	1059	2196	2379	2491
Circuit Patrol & Thermography (Number of circuits inspected)	220	122	691	877	739
Recloser Inspections (Number of reclosers inspected)	18	21	244	282	249
Center City Network Inspections (Number of maintenance tasks performed (e.g. visual inspection, functional testing)	0	0	190	252	318
T&S Maintenance (Number of maintenance tasks performed (e.g. visual inspection, predictive/diagnostic maintenance, preventive maintenance) for a variety of substation components)	934	956	2720	3094	4017
T&S Testing (Number of maintenance tasks performed (e.g. calibration, trip test)	325	283	723	832	1097
Totals	2412	2441	6764	7716	8911

Vegetation Management Preventive Maintenance Program – status as of 9/30/06					
	3rd Quarter Miles		YTD Miles		2006 Total Planned
	Planned	Complete	Planned	Complete	
Distribution Lift and Manual Trimming	896	777	2,077	2,039	2,991
Transmission Trimming and Removals	50	53	140	148	199
Totals	946	830	2,217	2,187	3,190

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

	Budgeted 3rd Quarter	Actual 3rd Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	$695,353	$522,598	$2,123,547	$1,973,366
Capacity Expansion	$133,202	($1,848)	$1,623,736	$865,258
System Performance*	$5,065,437	$3,284,805	$16,192,762	$5,057,891
Facility Relocation	$570,136	$642,213	$1,585,210	$2,227,242
Maintenance	$28,690,732	$32,951,219	$87,369,192	$96,245,298
Total**	$35,154,860	$37,398,987	$108,894,447	$106,369,055

See Appendix C for category definitions.
*System Performance YTD includes ($4,673,974) environmental remediation reserve adjustment made in March 2006.
**Total actual does not include $34,516,747 and $41,347,586 of incremental Storm Funds for the 3rd quarter and Year-to-Date, respectively

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

	Budgeted 3rd Quarter	Actual 3rd Quarter	Budgeted Year-to-Date	Actual Year-to-Date
New Business Connections	$15,922,366	$11,238,410	$49,026,534	$39,620,107
Capacity Expansion	$11,520,099	$14,701,219	$54,492,060	$47,586,934
System Performance	$10,973,578	$3,557,976	$27,132,556	$12,705,125
Facility Relocation	$2,755,868	$2,319,708	$7,625,642	$5,362,935
Maintenance	$13,725,814	$14,878,658	$40,132,032	$50,663,997
Total *	$54,897,725	$46,695,971	$178,408,824	$155,939,098

See Appendix C for category definitions.
*Total actual does not include $7,273,781 and $8,118,129 of incremental Storm Funds for the 3rd quarter and Year-to-Date, respectively

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

PECO's full-time trade staff as of October 1st 2006 was as follows:

Aerial Lineman	378
Underground Lineman	60
Transmission / Substation Mechanics, Operators	85
Energy Technicians	94
Aerial Foreman	55
Underground Foreman	18
Transmission / Substation Foreman	30
Total	720

*The anticipated turnover of both aerial and underground mechanics has not been realized; therefore, the second underground line school that was reported to the PUC in the 1st quarter will not be held until 2007.

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Appendix A

Rolling 12- month reliability index values for 5% worst performing circuits.

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
ANGORA 011	1,103	4.12	52	214	0.00	4,545	3,935	0
ARDMORE 017	411	0.00	0	0	0.00	0	0	0
BALA 136	1,583	1.01	6	7	0.00	1,603	173	0
BERWYN 002	547	7.38	220	1622	3.99	4,037	14,786	2,180
BLUE-GRASS 137	1,435	1.05	44	46	0.86	1,500	1,112	1,229
BLUE-GRASS 144	1,460	2.05	87	178	0.83	2,993	4,319	1,214
BRADFORD 341	1,580	3.56	145	517	3.68	5,622	13,609	5,821
BRADFORD 342	2,213	3.08	126	387	1.10	6,807	14,258	2,429
BRADFORD 344	2,435	4.11	181	744	1.42	9,998	30,183	3,454
BRADFORD 346	1,118	1.48	169	250	0.02	1,652	4,659	21
BROOMALL 136	1,386	2.71	97	264	0.00	3,757	6,093	0
BRYN-MAWR 131	1,356	1.50	233	350	0.01	2,032	7,903	8
BRYN-MAWR 143	663	6.60	96	630	0.00	4,373	6,964	0
BRYN-MAWR-144	1,240	2.29	130	298	0.97	2,835	6,163	1,198
BUCKINGHAM 344	1,477	2.10	108	227	2.30	3,108	5,587	3,396
BUCKINGHAM-351	1,265	2.70	125	337	0.48	3,420	7,104	606
BUCKINGHAM 354	1,329	0.02	173	4	0.00	33	95	0
BYBERRY 143	1,976	0.95	145	138	0.00	1,874	4,530	0
CALLOWHILL 138	1,266	0.06	1406	85	0.00	77	1,804	0
CALLOWHILL 142	896	1.00	42	42	0.00	899	630	0
CEDARBROOK 132	678	1.43	118	168	0.00	967	1,903	0
CEDARBROOK 138	3,616	1.10	267	292	0.00	3,964	17,623	0
CHICHESTER 139	1,614	2.12	67	141	0.00	3,429	3,805	0
CORNOG 001	531	2.59	295	765	6.00	1,375	6,769	3,185
CRESCENTVILLE 134	1,822	1.45	85	123	0.05	2,641	3,737	84
CRUM LYNNE 138	1,743	3.30	61	203	1.32	5,758	5,886	2,309
DAVISVILLE 003	948	2.61	103	268	5.92	2,476	4,239	5,615
EDDYSTONE 132	2,203	1.13	54	61	0.50	2,500	2,242	1,101
EDGEMONT 133	2,261	3.52	136	480	1.01	7,968	18,072	2,276
FLINT 132	1,194	3.94	106	418	0.68	4,702	8,316	811
FLINT 141	846	4.09	492	2011	0.00	3,458	28,362	0
FLINT 144	867	5.95	177	1053	1.42	5,156	15,213	1,227
FLINT 146	1,147	5.06	170	863	0.60	5,808	16,492	685
FOULK 131	1,670	4.01	80	322	1.10	6,705	8,973	1,831
FOULK 142	340	2.94	45	132	0.00	999	746	0
FURNACE 000	544	6.89	126	870	1.00	3,750	7,885	545
HAGYS 004	307	3.49	287	1003	1.00	1,072	5,130	307
HARMONY 007	1,271	1.20	97	117	1.00	1,527	2,470	1,271
HEATON 131	938	3.40	144	490	0.99	3,187	7,664	933
HEATON 133	1,766	0.39	173	67	0.00	680	1,963	0
HOPEWELL 000	283	1.04	115	119	0.00	293	563	0
HOWELL 002	388	12.57	127	1593	3.97	4,879	10,301	1,542
HUNTING PARK 032	1,313	0.09	16	1	0.06	117	31	83
ISLAND ROAD 136	1,828	1.32	128	170	0.00	2,419	5,164	0
ISLAND ROAD 138	2,320	0.81	52	42	0.01	1,888	1,623	32
JENKINTOWN 138	1,877	0.16	81	13	0.03	295	401	49
JENKINTOWN 141	678	2.41	125	301	0.00	1,637	3,399	0
JENKINTOWN 143	1,682	4.28	87	373	0.49	7,199	10,445	823
LANE 001	823	2.50	181	451	1.00	2,055	6,186	823
LENAPE 341	977	3.98	112	446	5.79	3,885	7,266	5,656

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
LINE 109 00	421	3.62	140	508	1.00	1,526	3,564	420
LINE 131 00WO	336	1.95	58	112	2.95	656	629	991
LINE 145 00UP	171	6.01	216	1297	4.00	1,027	3,695	684
LINE 147 00PB	890	3.22	56	182	0.00	2,868	2,701	0
LINE 2241	1,329	2.57	63	163	0.00	3,416	3,614	0
LINE 2394	1,797	2.13	75	159	0.00	3,827	4,765	1
LINE 2445	473	3.01	58	175	0.00	1,423	1,381	0
LINE 2471	1,108	1.96	100	196	0.09	2,176	3,625	96
LINE 2682	1,688	0.16	163	27	0.00	276	748	0
LINE 300CR	2,141	7.67	107	821	0.00	16,422	29,306	2
LINE 3336	1	0.00	0	0	0.00	0	0	0
LINE 3340	934	2.54	214	544	0.97	2,369	8,461	902
LINE 3600CR	865	2.65	211	559	0.11	2,294	8,054	97
LINE 7900	0	0.00	41	0	0.00	2	1	0
LINTON 343	4,133	0.07	353	26	0.00	308	1,811	0
LINTON 352	3,341	1.30	148	194	0.68	4,360	10,783	2,274
LLANERCH 141	1,650	1.81	69	126	4.84	2,992	3,454	7,991
LLANERCH 147	2,331	1.35	305	413	0.05	3,155	16,061	127
LOMBARD 132	3,286	0.53	84	44	1.74	1,743	2,437	5,710
LOMBARD 133	2,658	0.14	209	29	0.00	372	1,296	0
LOMBARD 138	2,526	2.66	25	67	0.52	6,723	2,816	1,319
MACDADE 132	1,634	1.22	88	108	0.00	1,996	2,932	0
MACDADE 135	2,248	1.15	79	90	1.00	2,587	3,390	2,237
MACDADE 148	1,584	2.34	62	146	0.00	3,708	3,841	0
MARCUS HOOK 135	3	3.00	90	271	0.00	9	14	0
MARSHALLTON 002	517	4.12	430	1770	0.99	2,129	15,251	511
MATSON 131	847	7.21	155	1121	1.09	6,107	15,823	920
MOSER 342	2,538	2.76	95	262	1.67	7,015	11,067	4,231
NESHAMINY 142	1,426	1.64	133	218	0.84	2,339	5,174	1,201
NEWLINVILLE 343	2,034	8.45	100	841	1.93	17,178	28,526	3,926
NEWLINVILLE 346	755	1.63	205	334	4.00	1,233	4,203	3,020
NEWLINVILLE 351	1,102	1.97	151	299	0.94	2,175	5,489	1,034
NEWLINVILLE 353	2,101	6.68	82	546	6.04	14,041	19,103	12,680
NEWLINVILLE 354	2,574	5.27	197	1039	3.53	13,565	44,584	9,075
NORTH PHILADE 133	3,042	1.49	87	130	0.00	4,527	6,573	0
NORTH PHILADE 135	2,021	0.66	159	105	1.00	1,339	3,545	2,023
NORTH WALES 362	1,751	1.77	151	267	3.62	3,104	7,795	6,347
OVERBROOK 131	3,633	0.55	12	7	0.60	1,992	410	2,182
PENCOYD 014	1,359	3.00	90	269	1.00	4,071	6,091	1,358
PLYMOUTH 139	1,332	2.63	91	240	2.46	3,509	5,320	3,274
PULASKI 131	4,619	1.05	53	56	0.94	4,845	4,287	4,335
PULASKI 132	2,195	0.59	44	26	0.48	1,303	953	1,053
RICHMOND 138	1,322	3.44	42	146	0.00	4,545	3,212	0
RICHMOND 145	899	2.01	53	107	0.00	1,810	1,610	0
ROXBOROUGH 136	972	3.86	84	325	1.00	3,755	5,270	973
SAVILLE 132	2,483	1.19	164	196	0.00	2,963	8,102	0
SHEEDER 000	435	9.57	81	772	0.00	4,161	5,599	1
SOLEBURY 001	496	8.81	97	854	0.00	4,368	7,058	2
TABOR 136	2,716	1.60	40	64	0.48	4,334	2,885	1,305
UPPER DARBY 008	797	2.20	207	454	0.00	1,750	6,026	0
UPPER DARBY 134	2,060	2.58	60	156	1.08	5,314	5,353	2,227
UPPER DARBY 140	1,903	1.45	71	103	0.00	2,766	3,261	0

CIRCUIT	CUSTOMERS ON CIRCUIT	12 Month Rolling Circuit SAIFI	12 Month Rolling Circuit CAIDI	12 Month Rolling Circuit SAIDI	12 Month Rolling Circuit MAIFI	12 Month Rolling Customers Interrupted	12 Month Rolling Customer Hours	12 Month Rolling Momentary Customers Interrupted
UPPER MERION 132	1,288	2.00	234	468	0.01	2,576	10,045	7
UPPER MERION 351	2,687	3.69	190	701	1.16	9,926	31,378	3,122
WANEETA 139	1,550	0.22	58	12	0.00	335	323	0
WARMINSTER 141	1,713	2.79	58	162	0.00	4,773	4,620	0
WARRINGTON 342	3,535	0.24	230	56	1.93	856	3,286	6,807
WARRINGTON 343	2,106	1.09	128	140	0.65	2,293	4,911	1,360
WAYNE 134	716	5.33	161	857	2.43	3,817	10,229	1,740
WAYNE 146	1,042	8.52	210	1786	0.99	8,880	31,014	1,032
WEST GROVE 001	819	5.15	69	356	0.00	4,216	4,855	0
WHITEMARSH 142	918	1.32	191	253	0.01	1,215	3,871	12

*The data supplied is the number of interrupted customers for each interruption event summed for all events, also known as customer interruptions. If a customer is interrupted by three separate trouble cases, they represent three customer interruptions, but only one customer interrupted.

Appendix B

Remedial efforts taken and planned for 5% worst performing circuits as of 9/31/06

ANGORA 011	Completed	Planned
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Installed wildlife protection	
	Installed additional fuses	
ARDMORE 017	**Completed**	**Planned**
		Install faulted circuit indicators
BALA 136	**Completed**	**Planned**
	Completed reliability corrective workorders	Perform regularly scheduled tree clearance
	Installed 3-phase recloser	
BERWYN 002	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Upgraded fusing	Remediate supply circuit
BLUE GRASS 137	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Replaced cable	
BLUE GRASS 144	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Replaced underground cable	
	Installed additional fuses	
BRADFORD 341	**Completed**	**Planned**
	Inspected/maintained reclosers	Equip breakers for automatic switching
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
BRADFORD 342	**Completed**	**Planned**
	Completed reliability corrective workorders	Upgrade lightning protection
	Inspected circuit visually and with thermographic camera	
	Repaired recloser	
	Replaced transformers	
BRADFORD 344	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Replaced cable	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
BRADFORD 346	**Completed**	**Planned**
	Installed 3 phase recloser	
	Installed additional fuses	
	Repaired switches	
	Completed reliability corrective workorders	

BROOMALL 136	Completed	Planned
	Completed reliability corrective workorders	
	Installed 3-phase reclosers	
	Installed single phase reclosers	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
BRYN MAWR 131	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
	Installed wildlife protection	
	Installed single phase reclosers	
BRYN MAWR 143	**Completed**	**Planned**
	Replaced recloser	Complete reliability corrective workorders
	Inspected circuit visually and with thermographic camera	
	Installed additional phases	
	Replaced cable	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
BRYN MAWR 144	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected/repaired recloser operation	
	Inspected motor operated switch	
	Installed faulted circuit indicators	
BUCKINGHAM 344	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Complete reliability corrective workorders
	Inspected/repaired recloser operation	
BUCKINGHAM 351	**Completed**	**Planned**
	Inspected/repaired recloser operation	
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Replaced recloser	
BUCKINGHAM 354	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Performed scheduled recloser maintenance	
	Installed single phase recloser	

BYBERRY 143	Completed	Planned
	Completed reliability corrective workorders	
CALLOWHILL 138	Completed	Planned
	Completed reliability corrective workorders	Perform regularly scheduled tree clearance
	Inspected circuit visually and with thermographic camera	
CALLOWHILL 142	Completed	Planned
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
	Upgraded switches	
CEDARBROOK 132	Completed	Planned
	Inspected circuit visually and with thermographic camera	
	Completed regularly scheduled tree clearance	
	Replaced underground cable	
	Completed reliability corrective workorders	
CEDARBROOK 138	Completed	Planned
	Completed reliability corrective workorders	
	Replaced transformer	
	Inspected circuit visually and with thermographic camera	
	Inspected/maintained reclosers	
	Completed regularly scheduled tree clearance	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
CHICHESTER 139	Completed	Planned
	Inspected circuit visually and with thermographic camera	
	Upgraded switches	
CORNOG 001	Completed	Planned
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
CRESCENTVILLE 134	Completed	Planned
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Completed regularly scheduled tree trimming	
	Installed additional fuses	
	Installed 3-phase recloser	
	Installed single phase reclosers	

CRUM LYNNE 138	Completed	Planned
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected/maintained reclosers	
	Completed reliability corrective workorders	
	Installed single phase reclosers	
DAVISVILLE 003	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Performed regularly scheduled tree clearance	
EDDYSTONE 132	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
EDGMONT 133	**Completed**	**Planned**
	Installed wildlife protection	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
	Upgraded fuses	
FLINT 132	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
	Performed regularly scheduled tree clearance	
	Installed 3 phase reclosers	
FLINT 141	**Completed**	**Planned**
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Completed regularly scheduled tree clearance	Install single-phase reclosers
	Inspected circuit visually and with thermographic camera	
	Installed 3 phase reclosers	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
FLINT 144	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Installed wildlife protection	
	Performed regularly scheduled tree clearance	
	Installed three phase recloser	
	Installed single phase reclosers	

FLINT 146	Completed	Planned
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Installed wildlife protection	
	Performed regularly scheduled tree clearance	
	Inspected/maintained reclosers	
	Upgraded lightning protection	
FOULK 131	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	Install 3-phase reclosers
		Install switch
		Complete reliability corrective workorders
FOULK 142	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
FURNACE 000	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Install single-phase reclosers
	Performed regularly scheduled tree clearance	
	Installed new supply circuit	
	Completed reliability corrective workorders	
HAGYS 004	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Upgrade fusing
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Inspected selected areas of circuit for vegetation issues and corrected as needed	Perform regularly scheduled tree clearance
HARMONY 007	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Remediated supply circuit	
HEATON 131	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Upgraded switches	
	Completed reliability corrective workorders	
	Installed additional fuses	

HEATON 133	Completed	Planned
	Inspected circuit visually and with thermographic camera	
	Installed single phase reclosers	
	Inspected/maintained reclosers	
	Performed regularly scheduled tree clearance	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
HOPEWELL 000	**Completed**	**Planned**
	Remediated supply circuit	
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
HOWELL 002	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Performed regularly scheduled tree clearance	
	Remediated supply circuit	
	Inspected circuit visually and with thermographic camera	
HUNTING PARK 032	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
ISLAND ROAD 136	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Installed underground cable	
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Installed additional fuses	
SLAND ROAD 138	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Installed additional fusing	
	Installed wildlife protection	

JENKINTOWN 138	Completed	Planned
	Completed reliability corrective workorders	
	Installed single phase recloser	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed regularly scheduled tree clearance	
JENKINTOWN 141	**Completed**	**Planned**
	Replaced cable	Complete reliability corrective workorders
	Installed additional fuses	
	Inspected circuit visually and with thermographic camera	
	Completed regularly scheduled tree clearance	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
JENKINTOWN 143	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Installed single phase recloser	
	Completed regularly scheduled tree clearance	
LANE 001	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Remediated supply circuit	
LENAPE 341	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Inspected/repaired reclosers	
	Completed regularly scheduled tree clearance	
	Upgraded wildlife protection	
LINE 109 00	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Installed wildlife protection	
	Completed reliability corrective workorders	
LINE 131 00WO	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
	Completed recloser inspections	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
LINE 145 00UP	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Repair switch
	Performed regularly scheduled tree clearance	Complete reliability corrective workorders
	Upgraded fusing	

LINE 147 00PB	Completed	Planned
	Inspected/repaired reclosers	Repair switches
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Inspected circuit visually and with thermographic camera	
	Improved recloser grounding	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
LINE 2241	**Completed**	**Planned**
	Completed reliability corrective workorders	Perform regularly scheduled tree clearance
	Inspected circuit visually and with thermographic camera	
	Installed wildlife protection	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Installed faulted circuit indicators	
	Upgraded lightning protection	
LINE 2394	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Upgraded fusing	
	Installed additional fuses	
	Installed wildlife protection	
LINE 2445	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Install automatic transfer switches
LINE 2471	**Completed**	**Planned**
	Repaired underground cable	
	Upgraded transformer	
LINE 2682	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Completed reliability corrective workorders	
	Upgraded fuses	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
LINE 300CR	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	Perform regularly scheduled tree clearance
	Installed 3-phase recloser	
LINE 3336	**Completed**	**Planned**
	Replaced switch	
	Inspected circuit visually and with thermographic camera	Install 3-phase reclosers
	Completed reliability corrective workorders	

LINE 3340	Completed	Planned
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected /repaired switch	
	Inspected recloser	
LINE 3600CR	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	Perform regularly scheduled tree clearance
	Installed additional fuses	
	Completed reliability corrective workorders	
	Install single phase recloser	
LINE 7900	**Completed**	**Planned**
	Completed reliability corrective workorders	
LINTON 343	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected/ repaired recloser operation	
	Replaced cable	
	Replaced recloser	
LINTON 352	**Completed**	**Planned**
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Inspected circuit visually and with thermographic camera	
	Replaced recloser	
	Repaired cable	
	Replaced transformer	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
LLANERCH 141	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Installed single phase recloser	
	Upgraded wildlife protection	
	Installed additional fuses	
	Inspected circuit visually and with thermographic camera	
LLANERCH 147	**Completed**	**Planned**
	Completed reliability corrective workorders	
LOMBARD 132	**Completed**	**Planned**
	Upgraded switch	Perform regularly scheduled tree clearance
	Installed additional fuses	
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	

LOMBARD 133	Completed	Planned
	Inspected selected areas of circuit for vegetation issues and corrected as needed	Perform regularly scheduled tree clearance
	Upgraded transformer	
	Replaced cable	
	Inspected circuit visually and with thermographic camera	
	Installed additional fuses	
	Completed reliability corrective workorders	
	Inspected reclosers	
LOMBARD 138	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Upgraded switches	
	Completed reliability corrective workorders	
	Replaced underground cable	
MACDADE 132	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Performed regularly scheduled tree clearance	
MACDADE 135	**Completed**	**Planned**
	Upgraded wildlife protection	
	Inspected circuit visually and with thermographic camera	
	Replaced transformer	
	Completed regularly scheduled tree clearance	
MACDADE 148	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Install single phase reclosers
	Performed regularly scheduled tree clearance	Complete reliability corrective workorders
	Upgraded wildlife protection	
MARCUS HOOK 135	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
	Tested customer relays	
MARSHALLTON 002	**Completed**	**Planned**
	Remediated supply circuit	Inspect/repair breaker control
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	

MATSON 131	Completed	Planned
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Replaced primary wires	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Upgraded wildlife protection	
	Installed 3-phase reclosers	
MOSER 342	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected/tested reclosers	
	Inspected/repaired switches	
	Repaired reclosers	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Installed 3 phase recloser	
NESHAMINY 142	**Completed**	**Planned**
		Install switches
NEWLINVILLE 343	**Completed**	**Planned**
	Completed reliability corrective workorders	Install 3-phase recloser
	Inspected circuit visually and with thermographic camera	Complete reliability corrective workorders
NEWLINVILLE 346	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Complete reliability corrective workorders
		Install 3-phase recloser
NEWLINVILLE 351	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
NEWLINVILLE 353	**Completed**	**Planned**
	Replaced three-phase recloser	
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
NEWLINVILLE 354	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Upgraded transformers	

NORTH PHILADELPHIA 133	Completed	Planned
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Inspected/tested reclosers	
	Inspected/repaired switch	
NORTH PHILADELPHIA 135	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Inspected/repaired reclosers	
	Installed switch	
NORTH WALES 362	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Complete reliability corrective workorders
	Repaired switch	
	Upgraded lightning protection	
	Completed reliability corrective workorders	
	Replaced reclosers	
OVERBROOK 131	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Automated switching of recloser	
PENCOYD 014	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Inspect selected areas of circuit for vegetation issues and correct as needed
	Upgraded fusing	Perform regularly scheduled tree clearance
	Completed reliability corrective workorders	Replace underground cable
	Installed faulted circuit indicators	
PLYMOUTH 139	**Completed**	**Planned**
	Inspected/tested reclosers	Perform regularly scheduled tree clearance
	Completed reliability corrective workorders	
	Upgraded wildlife protection	
	Upgraded lightning protection	
PULASKI 131	**Completed**	**Planned**
	Completed reliability corrective workorders	Perform regularly scheduled tree clearance
	Inspected circuit visually and with thermographic camera	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected/tested reclosers	

PULASKI 132	Completed	Planned
	Completed reliability corrective workorders	Perform regularly scheduled tree clearance
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Upgraded fusing	
RICHMOND 138	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Inspect selected areas of circuit for vegetation issues and correct as needed
	Completed reliability corrective workorders	Complete reliability corrective workorders
		Upgrade fusing
RICHMOND 145	**Completed**	**Planned**
	Upgraded switches	
	Completed reliability corrective workorders	
	Completed regularly scheduled tree trimming	
	Inspected circuit visually and with thermographic camera	
	Installed additional fuses	
ROXBOROUGH 136	**Completed**	**Planned**
	Completed reliability corrective workorders	Perform regularly scheduled tree clearance
	Inspected circuit visually and with thermographic camera	
	Upgraded switches	
SAVILLE 132	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Installed three-phase reclosers	
	Completed reliability corrective workorders	
SHEEDER 000	**Completed**	**Planned**
	Remediated supply circuit	
	Inspected circuit visually and with thermographic camera	
	Performed regularly scheduled tree clearance	
	Installed additional fuses	
	Completed reliability corrective workorders	
SOLEBURY 001	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	Complete reliability corrective workorders
	Completed reliability corrective workorders	
	Installed switch	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
TABOR 136	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected/tested recloser	
	Installed wildlife protection	
	Upgraded switches	

UPPER DARBY 008	Completed	Planned
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Inspected circuit visually and with thermographic camera	
	Installed additional fuses	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
UPPER DARBY 134	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Installed single phase recloser	
	Upgraded fuses	
	Inspected/tested recloser	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
UPPER DARBY 140	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Installed three-phase reclosers	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Completed reliability corrective workorders	
UPPER MERION 132	**Completed**	**Planned**
	Inspected/maintained reclosers	Install 3-phase recloser
	Installed single phase recloser	
	Installed additional fuses	
	Installed wildlife protection	
	Completed reliability corrective workorders	
	Performed regularly scheduled tree clearance	
UPPER MERION 351	**Completed**	**Planned**
	Replaced load center	
	Inspected circuit visually and with thermographic camera	
	Replaced switching module	
	Completed reliability corrective workorders	
	Performed regularly scheduled tree clearance	
VANEETA 139	**Completed**	**Planned**
	Inspected circuit visually and with thermographic camera	
	Completed reliability corrective workorders	
	Installed additional fuses	
VARMINSTER 141	**Completed**	**Planned**
	Inspected/repaired recloser operation	Inspect selected areas of circuit for vegetation issues and correct as needed
		Upgrade lightning protection
		Complete reliability corrective workorders

WARRINGTON 342	Completed	Planned
	Completed reliability corrective workorders	
	Inspected circuit visually and with thermographic camera	
	Inspected/maintained reclosers	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Upgraded lightning protection	
WARRINGTON 343	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Inspected circuit visually and with thermographic camera	
	Inspected/tested reclosers	
	Upgraded lightning protection	
WAYNE 134	**Completed**	**Planned**
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
	Installed 3-phase reclosers	
	Installed single phase reclosers	
	Completed reliability corrective workorders	
	Upgraded fusing	
	Installed aerial faulted circuit indicators	
	Completed regularly scheduled tree clearance	
WAYNE 146	**Completed**	**Planned**
	Completed regularly scheduled tree clearance	
	Completed reliability corrective workorders	
	Installed single phase recloser	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
WEST GROVE 001	**Completed**	**Planned**
	Completed reliability corrective workorders	
	Inspected selected areas of circuit for vegetation issues and corrected as needed	
WHITEMARSH 142	**Completed**	**Planned**
	Completed reliability corrective workorders	Complete reliability corrective workorders
	Inspected circuit visually and with thermographic camera	Perform regularly scheduled tree clearance
	Upgraded switches	

Appendix C

New Business Connections

This work category includes all the facility work required to add a new customer or to increase the load to an existing customer. The facility work will include the facilities required to directly connect the customer to the system and the upgrade/replacement of any existing facility to serve the requested additional load.

Capacity Expansion

This work category includes only capacity work generated by the system design engineer to prevent system failure and to assure the delivery of voltage as specified in the tariff. The addition of new substations and substation enlargements for future load growth will also be included in this project.

System Performance

This work category includes projects designed to upgrade, modify or improve the performance of the distribution system. Also included in this category are indirect costs in support of all categories and one-time accounting adjustment items.

Facility Relocation

This work category includes all requests for relocation of PECO facilities including municipal as well as customer related relocation requests.

Maintenance

This work category includes work performed to repair and restore equipment to its normal state of operation, along with planned preventive maintenance work such as visual and thermographic inspections and tree trimming around transmission and distribution lines.

Storm Fund

Incremental costs (primarily overtime, contractors, mutual assistance, and meals) incurred while responding to major storms (storms that meet customer outage and duration criteria).

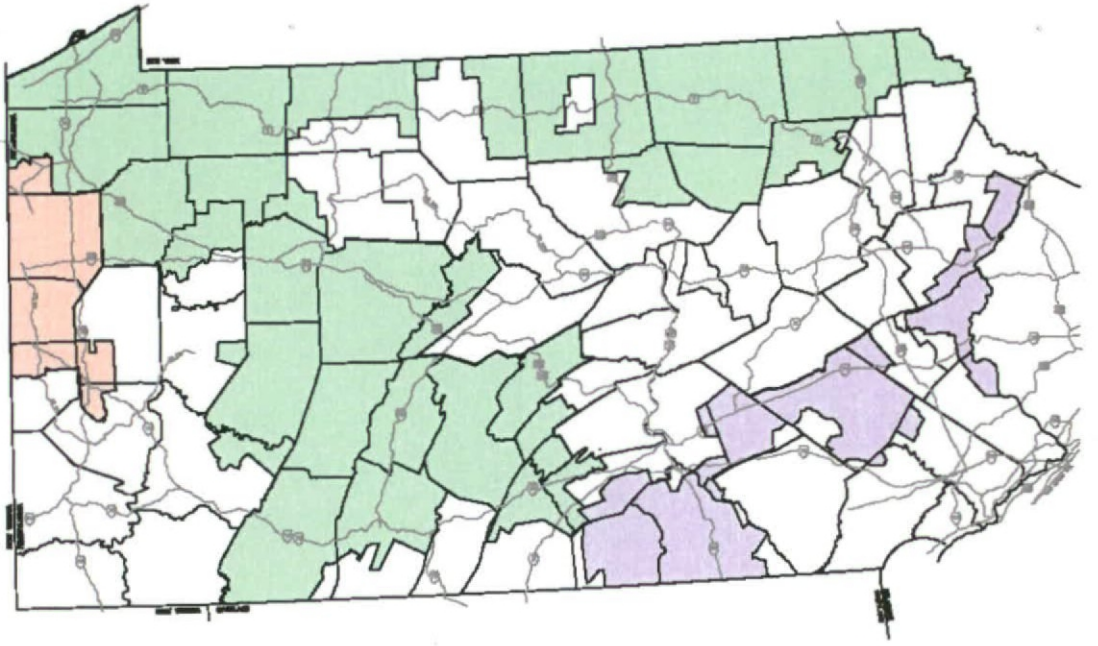
PUBLIC VERSION

L-00030161

FirstEnergy

Joint 3rd Quarter 2006 Service Reliability Report – Pennsylvania Power Company, Pennsylvania Electric Company, and Metropolitan Edison Company Pursuant to 52 PA Code §57.195(e)

ORIGINAL



PennPower
A FirstEnergy Company

Penelec
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Met-Ed
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DOCUMENT FOLDER

52

FirstEnergy

76 South Main Street
Akron, Ohio 44308

November 1, 2006

James J. McNulty, Secretary
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17120

Re: Joint 3rd Quarter 2006 Reliability Report - Pennsylvania Power Company, Pennsylvania Electric Company, and Metropolitan Edison Company pursuant to 52 PA Code §57.195(e)

Dear Secretary McNulty:

Enclosed for filing on behalf of the Pennsylvania Power Company, Pennsylvania Electric Company, and Metropolitan Edison Company (collectively, "Companies") are an original and six (6) copies of its Joint 3rd Quarter 2006 Reliability Report – Public Version.

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 a proprietary version of the quarterly reliability report. The Proprietary Version of this report is being filed under a separate letter.

Sincerely,

Eric Dickson /sl

Eric Dickson
Director, Operations Services

Enclosures

**Joint 3rd Quarter 2006 Service Reliability Report –
Pennsylvania Power Company,
Pennsylvania Electric Company and
Metropolitan Edison Company**

The following Joint Report is filed on behalf of Pennsylvania Power Company ("Penn Power"), Pennsylvania Electric Company ("Penelec"), and Metropolitan Edison Company ("Met-Ed"), collectively referred to as the Companies for the period ending third quarter 2006.

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

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

Major Events

On September 12 and 29, 2006, Met-Ed submitted formal *Request(s) for Exclusion of Major Outage for Reliability Reporting Purposes to the Pennsylvania Public Utility Commission.* The following table provides a summary of the information with respect to these events:

FirstEnergy Company	***Customers Affected***	***Major Event***		***Customer Minutes***	***Description***	***Commission Approval Status***
Met-Ed	77,239	Duration	47 hours 24 minutes	13,484,600	Lightning, Heavy Rain, Strong Winds	Approved Sep 22, 2006
		Start Date/Time	July 18, 2006 4:57 p.m.			
		End Date/Time	July 20, 2006 4:21 p.m.			
Met-Ed	53,738	Duration	72 hours 47 minutes	15,908,642	Heavy Rain, Gusting Winds	Approved Oct 18, 2006
		Start Date/Time	Sep 1, 2006 11:10 p.m.			
		End Date/Time	Sep 4, 2006 11:57 p.m.			

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

Reliability Index Values

Reliability Improvement by All Companies

3Q 2006 (12-Mo Rolling)	**Penn Power**			**Penelec**			**Met-Ed**		
	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.12	1.34	1.27	1.26	1.52	1.62	1.15	1.38	1.67
CAIDI	101	121	118	117	141	121	117	140	118
SAIDI	113	162	150	148	213	197	135	194	198
Customers Served [a]	158,403			592,460			531,623		
Number of Sustained Interruptions	3,434			13,051			9,610		
Customers Affected	200,934			962,566			888,591		
Customer Minutes	23,706,410			116,942,266			105,134,528		

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

Summary of Reliability Improvement over 2nd Quarter

Penn Power

SAIFI — 15% improvement over 12-Month Rolling Actual for 2Q 2006.
5% better than Commission's 12-Month Standard.

CAIDI — 13% improvement over 12-Month Rolling Actual for 2Q 2006.
2% better than Commission's 12-Month Standard.

SAIDI — 26% improvement over 12-Month Rolling Actual for 2Q 2006.
7% better than Commission's 12-Month Standard.

Penelec

SAIFI	9% improvement over 12-Month Rolling Actual for 2Q 2006.
CAIDI	12% improvement over 12-Month Rolling Actual for 2Q 2006. 14% better than Commission's 12-Month Standard.
SAIDI	20% improvement over 12-Month Rolling Actual for 2Q 2006. 8% better than Commission's 12-Month Standard.

Met-Ed

SAIFI	7% improvement over 12-Month Rolling Actual for 2Q 2006.
CAIDI	16% better than Commission's 12-Month Standard.
SAIDI	5% improvement over 12-Month Rolling Actual for 2Q 2006.

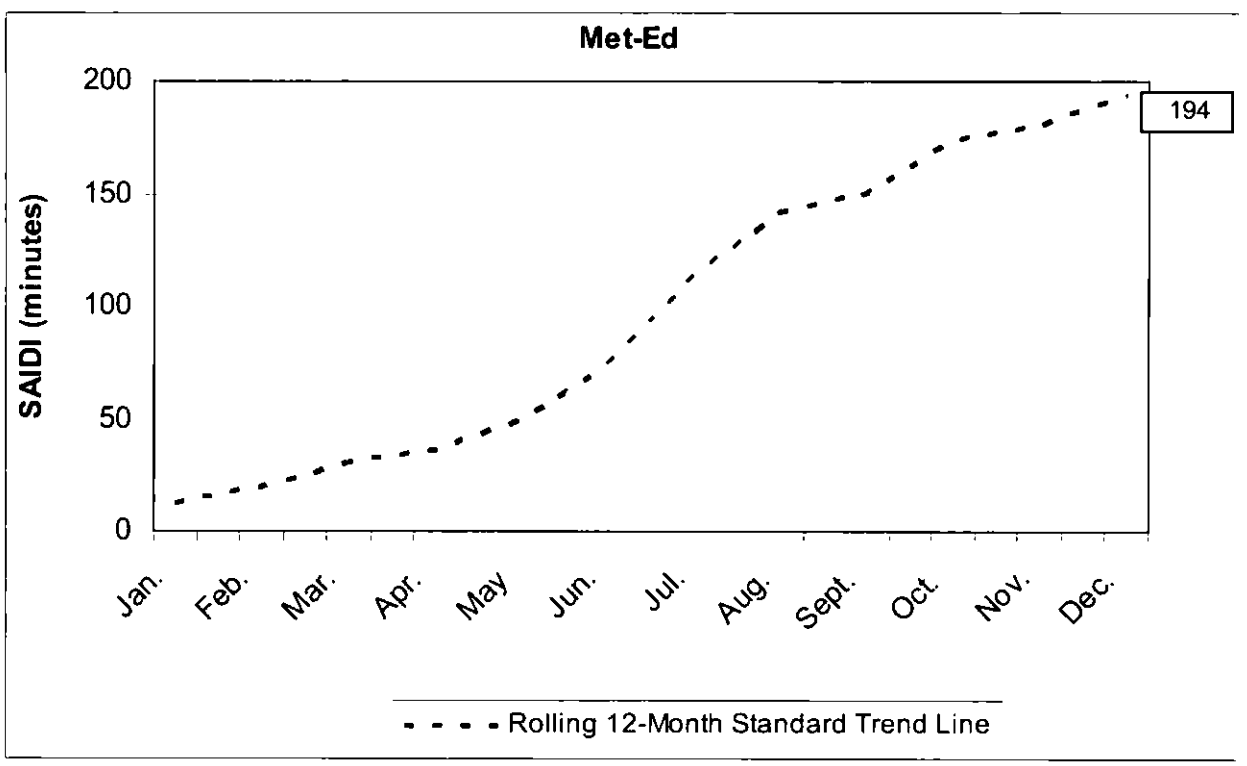
SAIDI Trend Charts

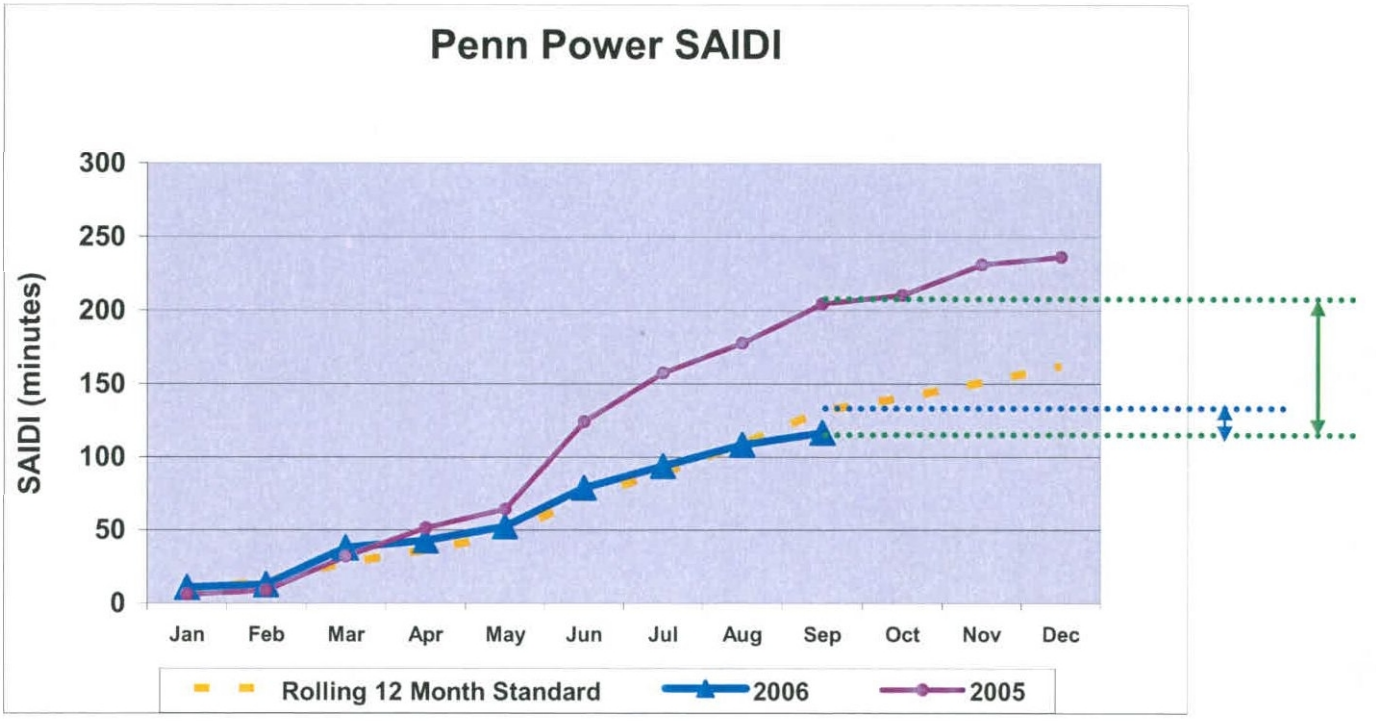
The Companies' year-to-date SAIDI and SAIFI values increase throughout the year and can be plotted on a periodic basis to determine how each company is performing in comparison to prior years, or in comparison to a desired trend line. This plot provides a much-enhanced visualization of the progress the Companies are making in comparison to reviewing tabular lists of index values and targets.

The Companies have trended year-to-date SAIDI for 2006, as shown below, such that each Company's performance can be readily compared to both SAIDI performance from the previous year, as well as the Commission's Rolling 12-Month Standard.

Normalized Trend

The normalized trend line is a slight modification to a straight-line trend, taking into consideration the three-year historical performance of each Company, with higher SAIDI accumulation (customer minutes of interruption) during the summer storm months, and lower SAIDI accumulation in the winter months. For example, Met-Ed's 3-year historical performance indicates the Company would expect to accumulate more SAIDI in June through August (approximately 30 minutes per month) than in November through December (approximately 10 minutes per month). As shown in the Met-Ed chart below, the Commission's 12-Month Rolling Standard of 194 is plotted using this normalized trending approach.

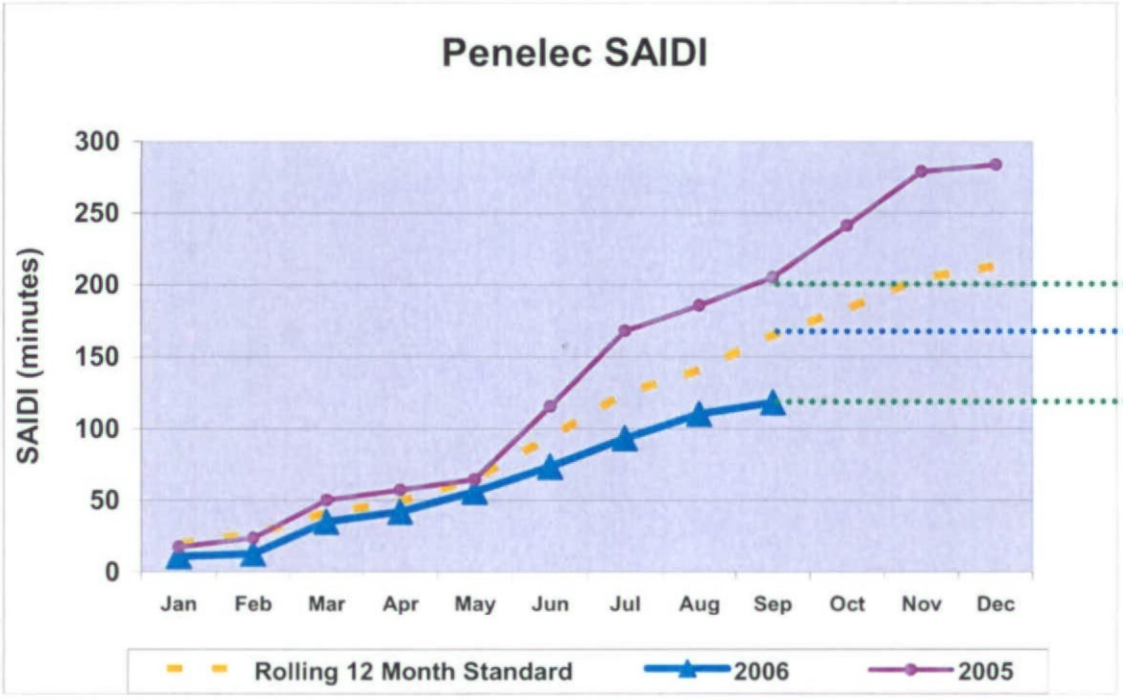




Penn Power's 2006 YTD SAIDI for 3rd quarter ending:

Represents a 44% improvement over actual results for the same YTD period in 2005

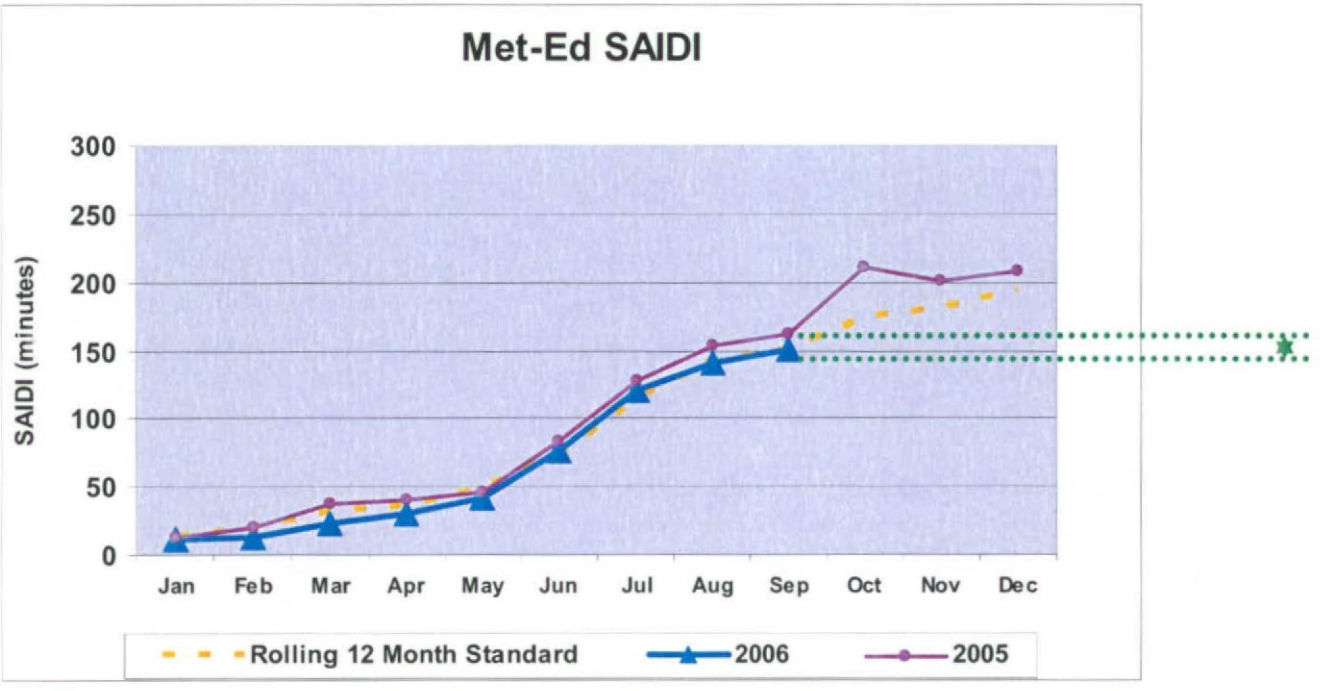
Trending 11% below the Commission's 12-Month Standard



Penelec's 2006 YTD SAIDI for 3rd quarter ending:

Represents a 42% improvement over actual results for the same YTD period in 2005

Trending 28% below the 12-Month Commission Standard



Met-Ed's 2006 YTD SAIDI for 3rd quarter ending:

★ Represents a 7% improvement over actual results for the same YTD period in 2005.

Trending to achieve the Commission's 12-Month Standard at year-end 2006.

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

Worst Performing Circuit - Reliability Indices

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

Penn Power 5% Worst Performing Circuits

Circuit Rank	Substation	Circuit Desc	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact Rank (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	Seneca	W-700	1,284	43	1	824,890	6,615	5.21	642	5.15	125	4.35
2	Hartstown	W-126	2,204	117	0	821,355	5,090	5.19	373	2.31	161	5.61
3	Mercer	W-167	1,228	46	0	571,138	2,236	3.61	465	1.82	255	2.83
4	Koppel	D-532	1,260	41	0	533,061	2,119	3.37	423	1.68	252	0.17
5	Perry	W-156	1,053	70	0	531,339	2,288	3.35	505	2.17	232	1.47
6	Jamestown	W-162	1,065	62	0	515,494	3,406	3.25	484	3.20	151	7.59
7	Stoneboro	W-130	1,420	62	0	499,384	2,212	3.15	352	1.51	232	2.70
8	Hermitage	W-260	2,400	52	0	412,857	2,679	2.61	172	1.12	154	1.89

(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 5% Worst Performing Circuits

Circuit Rank	Substation	Circuit Desc	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact Rank (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	Philipsburg	00162-22	3,292	83	0	2,767,904	8,968	4.67	841	2.72	309	7.42
2	Philipsburg	00164-22	2,353	59	1	1,981,006	13,477	3.34	842	4.91	171	17.45
3	Crown	00319-51	1,333	70	2	1,541,059	6,146	2.60	1,156	4.61	251	7.36
4	Union City	00206-43	3,986	111	1	1,426,966	13,036	2.41	358	2.82	127	17.54
5	Warren S	00220-41	3,089	82	0	1,398,145	10,542	2.36	453	3.39	133	1.40
6	Springboro	00237-52	3,113	85	0	1,363,938	17,342	2.30	438	5.57	79	9.06
7	Boyer	00583-31	1,569	23	1	1,266,889	4,519	2.14	807	2.88	280	1.07
8	Philipsburg	00149-22	996	33	2	1,101,033	3,357	1.86	1,105	2.97	372	10.07
9	Hammett	00502-31	1,576	53	1	1,033,818	4,782	1.74	656	3.03	216	18.16
10	Madera	00166-22	2,260	75	2	979,895	7,281	1.65	434	2.77	157	20.82
11	Dubois	00137-23	2,775	89	0	928,488	7,961	1.57	335	2.83	118	21.68
12	Samuel Rea Car Shop	00031-71	2,324	54	2	861,765	7,216	1.45	371	3.08	120	8.59
13	Rolling Meadows	00310-31	3,197	42	0	835,460	5,531	1.41	261	1.70	153	7.93
14	Grover	00527-63	1,169	80	1	774,087	7,791	1.31	662	5.87	113	6.17
15	Columbia Crossroads	00763-63	549	32	2	659,681	2,704	1.11	1,202	4.93	244	12.55
16	Emlenton	00322-51	466	22	1	656,138	1,782	1.11	1,408	3.82	368	5.15
17	Shawville	00153-21	1,144	39	1	635,140	5,062	1.07	555	3.66	152	6.47
18	Church	00426-34	683	17	2	626,545	1,710	1.06	917	2.50	366	6.08
19	Edinboro	00420-34	1,869	48	1	609,116	8,361	1.03	326	4.47	73	1.27
20	Tionesta SW St	00498-51	1,122	51	0	590,343	4,983	1.00	526	3.25	162	11.05
21	Hammett	00504-31	1,303	34	3	576,626	6,270	0.97	443	4.76	93	2.96
22	Piney	00523-51	1,202	49	1	573,798	3,563	0.97	477	2.96	161	5.91
23	Bellwood N	00635-22	1,131	35	2	559,100	5,725	0.94	494	5.06	98	4.00
24	Madera	00167-22	1,674	40	4	554,576	4,268	0.94	331	2.54	130	7.54
25	Somerset	00013-12	1,996	56	0	544,007	3,656	0.92	273	1.66	164	26.17
26	Boyer	00584-31	1,751	22	1	540,047	2,067	0.91	308	1.18	261	0.00
27	Erie South	00259-31	2,384	37	0	536,099	4,155	0.90	225	1.74	129	28.27
28	Green Garden	00224-31	2,060	25	0	523,992	4,523	0.88	254	2.20	116	0.00
29	Eldred	00119-42	898	19	2	512,568	3,502	0.87	571	3.90	146	5.14
30	Page Rd	00445-43	657	37	2	511,102	2,379	0.86	778	3.62	215	10.04
31	Riverside	00150-81	1,186	27	2	511,012	5,835	0.86	431	4.92	88	7.01
32	Somerset	00016-12	1,326	47	0	505,471	3,236	0.85	381	2.33	163	12.59
33	Mansfield	00559-63	535	29	2	470,961	2,450	0.79	880	4.56	193	7.20
34	Thompson	00436-65	1,323	69	0	470,842	6,954	0.79	356	4.99	71	23.73
35	Mansfield	00558-63	731	32	1	467,785	2,452	0.79	640	3.13	205	2.18
36	Meadville	00471-52	334	5	4	455,753	1,676	0.77	1,365	5.02	272	2.99
37	Fallen Timbers	00693-22	519	17	2	455,185	1,174	0.77	877	2.26	388	12.01
38	Powell Ave	00513-31	1,858	30	1	439,200	3,528	0.74	236	1.88	126	2.05
39	Ralphton	00015-12	1,170	57	2	423,746	6,250	0.72	362	4.98	73	13.01
40	Lucerne	00091-13	1,904	40	1	419,359	5,013	0.71	220	2.63	84	5.18
41	Rachel Hill	00049-11	2,286	22	0	402,852	2,364	0.68	176	1.03	170	6.45
42	Northeast	00592-31	1,567	65	1	399,156	3,428	0.67	255	2.19	116	6.53

Penelec 5% Worst Performing Circuits

Circuit Rank	Substation	Circuit Desc	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact Rank (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
43	Pennmar	00002-12	936	28	2	390,863	3,690	0.66	418	3.87	108	9.69
44	E Sayre	00518-61	615	28	0	388,646	1,330	0.66	632	2.16	292	1.48
45	Reed St	00549-31	957	9	5	388,566	5,619	0.66	406	5.87	69	0.99
46	Marienville	00328-51	1,255	39	0	385,114	2,026	0.65	307	1.61	190	17.18
47	Tiffany	00440-65	1,233	34	0	382,505	3,088	0.65	310	1.55	200	12.73
48	Lake Como	00787-65	962	47	0	380,168	2,190	0.64	395	2.19	180	57.45
49	E Pike	00095-13	3,470	31	0	375,602	2,670	0.63	108	0.77	141	3.40
50	Ralphton	00014-12	1,682	38	1	371,534	3,041	0.63	221	1.81	122	2.54
51	Clearfield	00148-21	1,681	57	0	370,749	2,181	0.63	221	1.29	171	8.00
52	Rolling Meadows	00249-31	2,214	23	0	369,621	1,783	0.62	167	0.81	207	1.00
53	Lawrenceville	00632-63	653	17	3	362,109	2,661	0.61	555	4.08	136	2.04
54	Madera	00147-22	1,086	36	2	357,569	1,971	0.60	329	1.81	181	5.72
55	Knox	00323-51	1,347	48	0	355,217	1,593	0.60	264	1.18	223	54.94
56	Madera	00165-22	629	35	1	355,170	2,091	0.60	565	3.32	170	13.69
57	Moss Creek	00049-72	520	16	2	350,961	1,757	0.59	675	3.38	200	7.10
58	Morgan St	00479-52	1,458	10	1	349,953	2,510	0.59	240	1.72	139	1.00
59	Saxton	00625-73	1,394	25	0	349,829	3,733	0.59	251	2.68	94	7.88

(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 Penelec's SAIDI.
(7) Distribution circuit SAIDI, SAIFI, CAIDI and MAIFI 12-Month Rolling due to distribution outage causes.

Met-Ed 5% Worst Performing Circuits

Circuit Rank	Substation	Circuit Desc	Average Customers (1)	Outages (2)	Lockouts (3)	Customer Minutes (4)	Customers Affected (5)	SAIDI Impact Rank (6)	SAIDI (7)	SAIFI (7)	CAIDI (7)	MAIFI (7)
1	Fox Hill	00816-3	3,556	55	5	2,594,596	20,386	4.88	730	5.73	127	3.98
2	N Bangor	00826-3	3,023	95	4	2,539,370	20,686	4.78	840	5.71	147	2.95
3	Barto	00705-1	1,885	89	2	2,194,689	11,329	4.13	1,164	6.01	194	2.04
4	Shawnee	00895-3	3,431	59	1	2,108,858	9,689	3.97	615	2.77	222	6.12
5	Shawnee	00822-3	2,130	52	4	1,674,102	9,485	3.15	786	4.45	177	6.44
6	Pleasantville	00142-1	846	40	0	1,556,883	2,153	2.93	1,840	2.54	723	0.76
7	Shawnee	00860-3	3,112	46	1	1,445,645	11,951	2.72	465	3.84	121	4.03
8	Birchwood	00622-3	1,713	64	1	1,376,001	7,753	2.59	803	4.51	178	5.17
9	E Topton	00724-1	1,346	45	1	1,241,912	5,044	2.34	923	3.74	246	4.45
10	Birdsboro	00756-1	1,327	80	2	1,227,227	8,453	2.31	925	4.24	218	7.23
11	Carsonia	00764-1	2,838	46	3	1,199,798	10,832	2.26	423	3.82	111	2.35
12	Newberry	00576-4	2,276	117	1	1,135,721	7,024	2.14	499	3.08	162	24.65
13	Mohnton	00123-1	652	12	1	1,134,613	2,078	2.13	1,740	3.19	546	2.04
14	Birchwood	00623-3	2,410	57	1	1,073,605	7,212	2.02	445	2.99	149	8.62
15	Yorkana	00708-4	2,596	92	3	1,039,459	11,194	1.96	400	4.20	95	6.45
16	Friedensburg	00769-1	1,965	76	1	1,019,375	4,465	1.92	519	2.27	228	7.40
17	Mountain	00740-4	2,348	57	0	1,012,239	8,080	1.90	431	3.30	131	3.09
18	Birdsboro	00757-1	1,867	69	2	967,498	6,062	1.82	518	2.27	228	5.31
19	N Lebanon	00712-2	2,221	54	5	893,004	13,400	1.68	402	5.99	67	18.06
20	S Hamburg	00743-1	1,172	41	0	870,250	3,277	1.64	743	2.80	266	4.88
21	Barto	00706-1	2,373	96	1	862,326	4,937	1.62	363	2.08	175	4.27
22	Northwood	00643-3	1,415	25	4	829,147	5,164	1.56	586	3.65	161	8.03
23	N Temple	00542-1	661	28	0	816,290	2,239	1.54	1,235	3.39	365	0.96
24	Baldy	00736-1	908	40	0	791,388	2,800	1.49	872	3.08	283	2.01
25	Delabole	00036-3	525	11	1	790,869	1,022	1.49	1,506	1.95	774	0.00
26	Leesport	00811-1	1,480	50	0	773,388	4,063	1.45	523	2.75	190	8.64
27	W Reading	00525-1	956	12	1	765,611	2,155	1.44	801	1.79	446	3.03
28	Bern Church	00789-1	1,408	69	0	754,834	2,825	1.42	536	1.88	285	2.06
29	Shawnee	00899-3	1,801	45	0	724,391	2,745	1.36	402	0.85	473	1.98
30	Bath	00873-3	2,084	32	1	724,237	5,590	1.36	348	1.99	175	0.45
31	Pine Lane	00713-1	557	17	2	685,726	1,980	1.29	1,231	3.49	352	1.02
32	Bernville	00786-1	1,844	68	0	679,506	5,259	1.28	369	1.82	202	2.72
33	Windsor	00316-4	983	23	2	678,372	3,392	1.28	690	2.97	232	7.96
34	Clearfield	00632-3	892	40	2	677,412	3,397	1.27	759	3.81	199	0.00
35	Shawnee	00837-3	1,205	39	3	674,958	7,143	1.27	560	4.61	121	7.04
36	Adamstown	00754-1	1,004	41	0	649,870	942	1.22	647	0.94	690	4.02

(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 Met-Ed's SAIDI.

(7) Distribution circuit SAIDI, SAIFI, CAIDI and MAIFI 12-Month Rolling due to distribution outage causes.

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

Worst Performing Circuit – Remedial Action

Penn Power – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
1	Seneca	W-700	*Performance driven by two vehicle accidents to a large number of customers, one circuit lockout due to a non-preventable tree caused outage during a windstorm and one large non-preventable tree-caused outage during a lightning storm.*		
			Complete full-cycle tree clearing in 2006	Complete	Feb-06
			Review two circuit fuses and one recloser location and completed reliability improvement work	Complete	Sep-06
			Field reviewed the section of circuit served by the recloser station impacted by recent tree caused outage	Complete	Sep-06
			Reliability improvement work for recloser location	To be completed 1Q 2007	
2	Hartstown	W-126	*Performance driven by two outages downstream of a recloser station. The recloser outages were caused by two line failures.*		
			Field review of the section of circuit served by the recloser station	Complete	May-06
			Complete reliability improvement work for the section of circuit served by the recloser station	To be completed by end of 4Q 2006. One section completed 8/14/06, another section is in progress	
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
3	Mercer	W-167	*Performance driven by one long non-preventable tree outage during a severe storm.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Field review of the section of circuit served by the recloser station	To be completed Nov 2006	
4	Koppel	D-532	*Performance driven by 2 long duration non-preventable tree outages near the substation.*		
			Field review of the main feed	To be completed Nov 2006	
5	Perry	W-156	*Performance driven by one very long non-preventable tree outage and two outages caused by line failure.*		
			Complete reliability improvement work on the main feed and at two fuse locations	Complete	Jun-06
			Complete reliability improvement work at five fuse locations	To be completed 4Q 2006	
6	Jamestown	W-162	*Performance driven by a long duration vehicle accident caused outage downstream of a recloser station.*		
			Field review of the section of circuit served by the recloser station	To be completed Nov 2006	

Penn Power – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
7	Stoneboro	W-130	*Performance driven by two long duration outages, one due to a broken pole and another due to a brush fire catching a pole on fire, affecting one recloser station.*		
			Field review of the section of circuit served by the recloser station	Complete	May-06
			Complete reliability improvement work for the section of circuit served by the recloser station	To be completed by end of 4Q 2006. One section completed 7/28/06, another section is in progress	
8	Hermitage	W-260	*Performance driven by one long duration outage due to a line failure affecting one recloser station during a windstorm.*		
			Field review of the section of circuit served by the recloser station	To be completed Nov 2006	

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
1	Philipsburg	00162-22	*Performance was driven by outages caused by crossarm failure and non-preventable trees.*		
			Repaired damage to line caused by non-preventable tree and replaced crossarms	Complete	Mar-06
			Review tree conditions and complete trimming identified	Complete	Mar-06
			Install radio controlled switches	Complete	Mar-06
			Replace cutouts and arresters	Complete	Mar-06
			Engineering circuit coordination review	Complete	Apr-06
			Install reclosers	Complete	Apr-06
2	Philipsburg	00164-22	*Performance was driven by outages caused by non-preventable trees and crossarms failure.*		
			Repaired damage to line caused by non-preventable tree and replacement of crossarms	Complete	Mar-06
			Engineering circuit coordination review	Complete	Dec-05
			Review tree conditions and complete trimming identified	Complete	Mar-06
			Install reclosers	Complete	Mar-06
			Complete full-cycle tree clearing in 2006	Complete	Sep-06
			Replace poles	Complete	Apr-06
3	Crown	00319-51	*Performance was driven by minor storm damage, failed conductor and non-preventable tree caused damage.*		
			Repaired damage to line caused by non-preventable tree and repaired conductor	Complete	Jun-06
			Engineering circuit coordination review	Complete	Jan-06
			Install reclosers	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install main line tap fuses	To be Completed 4Q 2006	
4	Union City	00206-43	*Performance was driven by outages caused by minor storms and non-preventable tree caused damage.*		
			Repaired damage to line caused by non-preventable tree and minor storm	Complete	Mar-06
			Install reclosers	Complete	Dec-05
			Engineering circuit coordination review	Complete	Mar-06
			Review tree conditions and completed trimming identified	Complete	May-06
5	Warren S	00220-41	*Performance was driven by failed insulators and cutouts and non-preventable tree caused outages.*		
			Repaired damage to line caused by non-preventable tree and replaced failed insulators and cutouts	Complete	Mar-06
			Engineering circuit coordination review	Complete	Mar-06
			Install main line tap fuses	Complete	Apr-06
			Review tree conditions and completed trimming identified	Complete	Apr-06
			Install reclosers	Complete	Oct-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
6	Springboro	00237-52	*Performance was driven by equipment failure.*		
			Install main line tap fuses	Complete	Dec-05
			Engineering circuit coordination review	Complete	Oct-05
			Install reclosers	Complete	Feb-06
			Review tree conditions and completed trimming identified	Complete	Jun-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Install radio controlled switches	Complete	Jun-06
7	Boyer	00583-31	*Performance was driven by equipment failures and non-preventable tress caused damage.*		
			Repaired damage to line caused by non-preventable tree and replaced equipment	Complete	Jun-06
			Engineering circuit coordination review	Complete	Dec-05
			Install reclosers	Complete	Dec-05
			Review tree conditions and completed trimming identified	Complete	Jun-06
8	Philipsburg	00149-22	*Performance was driven by outages caused by non-preventable trees and conductor failure.*		
			Repaired damage to line caused by non-preventable tree and repaired failed conductor	Complete	Jun-06
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Engineering circuit coordination review	Complete	Oct-06
			Install reclosers	To Be Completed 4Q 2006	
			Install switch	To Be Completed 4Q 2006	
			Install radio control on existing switch	To Be Completed 1Q 2007	
9	Hammett	00502-31	*Performance was driven by minor storm damage, broken crossarms and failed primary conductor.*		
			Completed minor storm damage repairs and replaced broken crossarms and failed primary conductor	Complete	Dec-05
			Engineering circuit coordination review	Complete	Jan-06
			Review tree conditions and completed trimming identified	Complete	Jun-06
			Install main line tap fuses	To Be Completed 4Q 2006	
			Install reclosers	To Be Completed 4Q 2006	
10	Madera	00166-22	*Performance was driven by outages caused by conductor failure and non-preventable trees.*		
			Repaired conductor	Complete	Mar-06
			Repaired damage to line caused by non-preventable tree	Complete	Mar-06
			Engineering circuit coordination review	Complete	Nov-05
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Install main line tap fuses	Complete	Mar-06
			Install reclosers	Complete	Mar-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Install radio controlled switches	Complete	Apr-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
11	Dubois	00137-23	*Performance was driven by non-preventable tree caused damage, cutout and arrester failure and lightning.*		
			Repaired damage to line caused by non-preventable tree and lightning and replaced cutout and arrester	Complete	Mar-06
			Install recloser	Complete	Jan-06
			Engineering circuit coordination review	Complete	Apr-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Install main line tap fuses	To be completed 4Q 2006	
12	Samuel Rea Car Shop	00031-71	*Performance was driven by failed equipment, animal contact, and circuit overload.*		
			Balance load on circuit in field	Complete	Aug-06
			Replace pole	Complete	May-06
13	Rolling Meadows	00310-31	*Performance was driven by two failed underground cable events.*		
			Engineering circuit coordination review	Complete	Mar-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Replace failed underground cable	To be completed 4Q 2006	
14	Grover	00527-63	*Performance was driven by minor storm damage and outages due to non-preventable trees and equipment failures.*		
			Repaired damage to line caused by minor storm and non-preventable tree and replaced equipment	Complete	Jun-06
			Engineering circuit coordination review	Complete	Dec-05
			Install main line tap fuses	Complete	Dec-05
			Install reclosers	Complete	Dec-05
			Replace poles and insulators	Complete	Dec-05
			Review tree conditions and completed trimming identified	Complete	Jul-06
			Install switch	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2007	Under contract	
			Install radio control on existing switch	To Be Completed 1Q 2007	
15	Columbia Crossroads	00763-63	*Performance was driven by blown fuses, vehicle caused damage and failed insulators.*		
			Completed vehicle-caused damage replaced fuses and insulators	Complete	Oct-05
			Circuit patrol	Complete	Nov-05
			Install reclosers	Complete	Dec-05
			Engineering circuit coordination review	Complete	Mar-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Install transformer for back feed capability	To be completed 4Q 2006	
16	Emlenton	00322-51	*Performance was driven by failed transformers and non-preventable tree caused damage.*		
			Repaired damage to line caused by non-preventable tree and replaced transformers	Complete	Nov-05
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Engineering circuit coordination review	Complete	May-06
			Install main line tap fuses	Complete	Jun-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
17	Shawville	00153-21	*Performance was driven by non-preventable tree caused outages.*		
			Repaired damage to line caused by non-preventable tree	Complete	Mar-06
			Install radio controlled switch	Complete	Nov-05
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Engineering circuit coordination review	Complete	Sep-06
			Install main line tap fuses	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2006	Complete	Sep-06
			Install reclosers	To be completed 4Q 2006	
18	Church	00426-34	*Performance was driven by minor storm damage, failed cutouts and crossarms and non-preventable tree caused damage.*		
			Repaired damage to line caused by minor storm and non-preventable tree and replaced failed cutouts and crossarms	Complete	Nov-05
			Engineering circuit coordination review	Complete	Oct-06
			Install reclosers	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2006	Complete	May-06
			Install main line tap fuses	To be completed 4Q 2006	
19	Edinboro	00420-34	*Performance was driven by animal contact and non-preventable tree caused damage.*		
			Repaired damage to line caused by non-preventable tree	Complete	Jun-06
			Review tree conditions and completed trimming identified	Complete	Jun-06
			Install animal guards	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2007	Under contract	
			Install main line tap fuses	To be completed 4Q 2006	
20	Tionesta SW St	00498-51	*Performance was driven by failed conductor and cutouts and non-preventable tree caused damage.*		
			Engineering circuit coordination review	Complete	Feb-06
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Install main line tap fuses	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2007	Under contract	
			Install reclosers	To be completed 4Q 2006	
21	Hammett	00504-31	*Performance was driven by minor storm damage; broken crossarms and non-preventable tree caused damage.*		
			Repaired damage to line caused by minor storm and non-preventable tree and replaced broken crossarms	Complete	Feb-06
			Engineering circuit coordination review	Complete	Jan-06
			Review tree conditions and completed trimming identified	Complete	Jun-06
			Install reclosers	To be completed 4Q 2006	
22	Piney	00523-51	*Performance was driven by summer heat load.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Installed upgraded fusing	Complete	Aug-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
23	Bellwood N	00635-22	*Performance was driven by failed equipment and animal contact.*		
			Replaced insulators and arresters	Complete	Jun-06
			Install animal guards	To be completed 4Q 2006	
24	Madera	00167-22	*Performance was driven by failed conductor and insulators and non-preventable tree caused damage.*		
			Repaired damage to line caused by non-preventable tree, repaired failed conductor and replaced insulators	Complete	Mar-06
			Install radio controlled switch	Complete	Nov-05
			Install reclosers	Complete	Mar-06
			Engineering circuit coordination review	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2007	Under contract	
			Install main line tap fuses	To be completed 4Q 2006	
25	Somerset	00013-12	*Performance driven by minor storm damage.*		
			Repaired damage to line caused by minor storm	Complete	May-06
26	Boyer	00584-31	*Performance was driven by coordination issues.*		
			Engineering circuit coordination review	Complete	Feb-06
			Install main line tap fuses	To be completed 4Q 2006	
			Install reclosers	To be completed 4Q 2006	
27	Erie S	00259-31	*Performance was driven by coordination issues.*		
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Engineering circuit coordination review	Complete	Mar-06
			Install reclosers	Complete	Jun-06
			Reconductor / Convert 4 kV to 34.5 kV Load transfer was done in lieu of reconductoring identified in previous report	Complete	Aug-06
28	Green Garden	00224-31	*Performance was driven by summer heat load.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Installed upgraded fusing	Complete	Aug-06
29	Eldred	00119-42	*Performance was driven by customer contact.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Engineering circuit review	To be completed 4Q 2006	
30	Page Rd	00445-43	*Performance was driven by non-preventable tree caused damage.*		
			Review tree conditions and completed trimming identified	Complete	Mar-06
			Engineering circuit coordination review	Complete	Feb-06
			Install main line tap fuses	Complete	Jun-06
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install reclosers	Complete	Jun-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
31	Riverside	00150-81	*Performance was driven by minor storm damage, equipment failure and car pole accident.*		
			Repaired pole from car pole accident	Complete	Sep-06
			Repaired damage to line caused by minor storm and replaced conductor and broken pole	Complete	May-06
32	Somerset	00016-12	*Performance was driven by failed equipment.*		
			Replaced cutouts	Complete	Apr-06
33	Mansfield	00559-63	*Performance was driven by failed equipment and loss of supply.*		
			Replaced insulators	Complete	May-06
			Review for protection issues	To be completed 4Q 2006	
34	Thompson	00436-65	*Performance was driven by non-preventable trees.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Review tree conditions and completed trimming identified	Complete	Oct-06
35	Mansfield	00558-63	*Performance was driven by various equipment failures.*		
			Review circuit for protection	To be completed 4Q 2006	
36	Meadville	00471-52	*Performance was driven by underground failures.*		
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install underground cable	To be completed 4Q 2006	
37	Fallen Timbers	00693-22	*Performance was driven by minor storm damage.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Repaired damage to line caused by minor storm	Complete	Jun-06
38	Powell Ave	00513-31	*Performance was driven by blown fuses and non-preventable tree caused damage.*		
			Repaired line and transformer failure	Complete	Jul-06
			Engineering circuit coordination review	Complete	Dec-05
			Review tree conditions and completed trimming identified	Complete	Jan-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Install Reclosers	Complete	Mar-06
39	Ralphton	00015-12	*Performance was driven by minor storm and non-preventable tree caused damage.*		
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Repaired damage to line caused by non-preventable tree and minor storm	Complete	May-06
40	Lucerne	00091-13	*Performance was driven by heat and coordination.*		
			Complete full-cycle tree clearing in 2006	Complete	Aug-06
			Balanced load on circuit in field, changed fuse and added additional fuse	Complete	Aug-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
41	Rachel Hill	00049-11	*Performance was driven by non-preventable tree caused damage and tree caused damage resulting from a logger.*		
			Repaired damage to line caused by non-preventable tree and tree-caused damage resulting from a logger	Complete	Oct-05
			Install reclosers	Complete	Jan-06
			Engineering circuit coordination review	Complete	Mar-06
			Complete full-cycle tree clearing in 2006	Complete	Jun-06
			Install main line tap fuses	To be completed 4Q 2006	
42	Northeast	00592-31	*Performance was driven non-preventable tree caused damage.*		
			Review tree conditions and completed trimming identified	Complete	Apr-06
			Engineering circuit coordination review	Complete	Mar-06
			Install reclosers	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2007	Under contract	
			Install main line tap fuses	To be completed 4Q 2006	
43	Penmar	00002-12	*Performance was driven by minor storm and non-preventable tree damage.*		
			Completed minor storm damage repairs	Complete	Jun-06
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Review tree conditions and complete trimming identified	To be completed 4Q 2006	
44	E Sayre	00518-61	*Performance was driven by non-preventable tree damage.*		
			Complete full-cycle tree clearing in 2006	Complete	Sep-06
			Review tree conditions and complete trimming identified	Complete	May-06
45	Reed St	00549-31	*Performance was driven by equipment failure.*		
			Replaced dead-end insulators	Complete	Sep-06
46	Marienville	00328-51	*Performance was driven by non-preventable tree caused damage.*		
			Complete full-cycle tree clearing in 2006	Complete	Sep-06
			Review tree conditions and complete trimming identified	To be completed 4Q 2006	
47	Tiffany	00440-65	*Performance was driven by loss of supply and non-preventable tree caused damage.*		
			Review tree conditions and complete trimming identified	Complete	Aug-06
48	Lake Como	00787-65	*Performance was driven by protection issues and a loss of supply event.*		
			Engineering circuit coordination review	Complete	Mar-06
			Install reclosers	Complete	Mar-06
49	E Pike	00095-13	*Performance was driven by animal contact and equipment failure.*		
			Install animal guards	Complete	May-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Replace conductor	Complete	May-06
50	Ralphton	00014-12	*Performance was driven by non-preventable tree caused damage.*		
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Review tree conditions and complete trimming identified	Complete	Sep-06

Penelec – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
51	Clearfield	00148-21	*Performance was driven by equipment failure and non-preventable trees.*		
			Repaired spacer cable	Complete	Jun-06
52	Rolling Meadows	00249-31	*Performance was driven by equipment failure.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Replaced failed cutouts	Complete	Aug-06
53	Lawrenceville	00632-63	*Performance was driven by tornado and minor storm damage and failed insulators.*		
			Engineering circuit coordination review	Complete	Feb-06
			Install reclosers	Complete	Mar-06
54	Madera	00147-22	*Performance was driven by a failed insulator and non-preventable tree caused damage.*		
			Repaired damage to line caused by non-preventable tree and replaced failed insulator	Complete	Mar-06
			Install radio controlled switches	Complete	Mar-06
			Engineering circuit coordination review	Complete	Sep-06
			Install reclosers	To be completed 4Q 2006	
			Complete full-cycle tree clearing in 2007	Under contract	
			Install main line tap fuses	To be completed 4Q 2006	
55	Knox	00323-51	*Performance was driven by failed cutouts and non-preventable tree caused outages.*		
			Engineering circuit coordination review	Complete	Dec-05
			Install main line tap fuses	Complete	Dec-05
			Install reclosers	Complete	Dec-05
			Replace poles and insulators	Complete	Dec-05
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Review tree conditions and complete trimming identified	Complete	Mar-06
56	Madera	00165-22	*Performance was driven by minor storm damage and non-preventable trees*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Review tree conditions and complete trimming identified	Complete	Jun-06
57	Moss Creek	00049-72	*Performance was driven by minor storm damage and non-preventable trees*		
			Review tree conditions and complete trimming identified	Complete	Jun-06
58	Morgan St	00479-52	*Performance was driven by failed equipment*		
			Replace cutouts	Complete	Apr-06
			Complete full-cycle tree clearing in 2006	Complete	Sep-06
			Engineering circuit coordination review	Complete	Oct-06
59	Saxton	00625-73	*Performance was driven by non-preventable trees*		
			Review tree conditions and completed trimming identified	Complete	Jun-06

Met-Ed – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
1	Fox Hill	00816-3	*Equipment failure, line failure, and Trees related outages account for 77% of total customer minutes.*		
			Converted 3 areas from 4.8 kV to 34.5 kV	Completed	Dec-05
			Convert 2 areas from 4.8 kV to 34.5 kV	To be completed 2Q 2007	
			Complete full-cycle tree clearing in 2006	Completed	Jan-05
			Installed recloser	Completed	Nov-05
			Install two 3 phase reclosers	To be completed 4Q 2006	
2	N Bangor	00826-3	*Tree, vehicle, equipment and line failure outages account for 85% of total customer minutes.*		
			Installed additional fusing	Completed	Nov-05
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install 3 phase recloser	Completed	Sep-06
3	Barto	00705-1	*Tree caused outages represent 72% of total customer minutes*		
			Fuse upgrade	Complete	Nov-05
			Mainline switch upgrade	Complete	Jan-06
			Replace pole	Complete	Jan-06
			Review tree conditions and complete trimming identified	Complete	Aug-06
			Install fuse/bypass switch	Complete	Sep-06
			Install animal protection	Complete	Sep-06
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install and upgrade fusing	To be completed 4Q 2006	
			Install additional fuse/bypass switch	To be completed 4Q 2006	
4	Shawnee	00895-3	*Car pole accidents and tree related outages account for 90% of total customer minutes.*		
			Installed recloser	Completed	Nov-05
			Upgrade single-phase areas to 3-phase	Completed	Dec-05
			Added additional fusing	Completed	Apr-06
5	Shawnee	00822-3	*Trees and equipment failure related outages account for 83% of total customer minutes.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Repair failed recloser	To be completed 4Q 2006	
6	Pleasantville	00142-1	*Tree caused outages represent 84% of total customer minutes*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Install additional tap fuses	To be completed 2Q 2007	
7	Shawnee	00860-3	*Equipment failure, car pole accidents, and lightning related outages account for 84% of total customer minutes.*		
			Complete full-cycle tree clearing in 2005	Completed	Dec-05
			Converted 4.8 kV to 34.5 kV	Completed	Dec-05
			Aluminum bell insulators to be replaced on main line	Completed	Nov-05
8	Birchwood	00622-3	*Tree, equipment failure, car pole accidents, and overloading outages account for 95% of total customer minutes.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Install larger single phase recloser	Completed	Mar-06
			Installed additional fusing	Completed	Feb-06

Met-Ed – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
9	E Topton	00724-1	*5 outages represent 88% of the total customer minutes. Outage causes: Regulator problem, broken cutout/arrester, downed poles in high winds, vehicle accident and spacer cable problem during high winds/rain.*		
			Replace lightning arresters	Complete	Jun-06
			Install additional tap fuses	Complete	Nov-06
			Replace regulator	Complete	Oct-05
			Install animal guard	Complete	Dec-05
			Replace cutout and arrester	Complete	Jan-06
			Install disconnect switches	Complete	Mar-06
			Install fault indicators	Complete	Mar-06
			Install additional tap fuses	To be completed 4Q 2006	
			Replace crossarms	To be completed 4Q 2006	
			Install additional lightning arresters	To be completed 4Q 2006	
			Reconfigure circuit to minimize exposure	To be completed 4Q 2007	
10	Birdsboro	00756-1	*4 outages represent 63% of the total customer minutes. Outage causes: equipment problem (pole), trees (2) and wires down at multiple locations during storm.*		
			Install/upgrade fusing	Complete	Jan-06
			Pole replacements	Complete	Jan-06
			Install animal guards	Complete	Mar-06
			Replace group operated switch	Complete	Dec-05
			Complete full-cycle tree clearing in 2006	Complete	Mar-06
			Main line patrol	Complete	Jul-06
			Crossarm / pole replacements identified on patrol	Complete	Jul-06
			Install fuse/bypass switch	Complete	Sep-06
			Install additional tap fuses	Complete	Oct-06
			Review tree conditions and complete trimming identified	Complete	Oct-06
			Widen main line right-of-way for improved access to vegetation management	To be completed in 2007	
			Install single phase recloser	To be completed in 2007	
11	Carsonia	00764-1	*5 outages represent 71% of total customer minutes. Outage Causes: forced outage due to vehicle accident, tree, 1 problem in underground residential development, equipment problems (2 solid disconnects).*		
			Install animal protection / underground fault indicators	Complete	Nov-05
			Install fuse/bypass switch	Complete	Jan-06
			Install additional fusing	Complete	Jan-06
			Underground cable replacement in Elm Street Development	Complete	Mar-06
			Pole replacement	Complete	Mar-06
			Mainline switch upgrades	Complete	Mar-06
			Install main line recloser	Complete	Oct-06
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install additional fusing	To be completed 4Q 2006	
			Upgrade switches 300 to 600 ampere	To be completed 3Q 2007	

Met-Ed – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
12	Newberry	00576-4	*Performance driven by trees caused outages.*		
			Perform preventive maintenance circuit patrol	Completed	Jul-06
			Complete full-cycle tree clearing in 2006	Completed	Aug-06
			Replace poles	Completed	Oct-06
			Install two additional reclosers on the circuit	To be completed in 2007	
			Transfer portion of 576 line to 721 line	Completed	Oct-06
			Repair tie switch	Completed	Aug-06
			Repair equipment identified in circuit patrol	To be completed in 2007	
13	Mohnton	00123-1	*2 outages represent 87% of total customer minutes. Outage causes: trees and vines during high winds/rain.*		
			Review tree conditions and complete trimming identified	Complete	Sep-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Upgrade switches 300 to 600 amperes	To be completed 1Q 2007	
			Install additional tap fuses	To be completed 1Q 2007	
			Conductor repairs	To be completed 1Q 2007	
14	Birchwood	00623-3	*Animal, Line and equipment failure related outages account for 92% of total customer minutes.*		
			Install 3 phase recloser	Completed	Sep-06
			Completed full-cycle tree clearing in 2006	Completed	Sep-06
			Installed additional fusing	Completed	Feb-06
15	Yorkana	00708-4	*Performance driven by tropical storm, car/pole accidents, and tree outages.*		
			Main line patrol	Completed	Jun-06
			Replace two poles on the circuit	To be completed 4Q 2006	
			Review tree conditions and complete trimming identified	To be completed 4Q 2006	
16	Friedensburg	00769-1	*4 outages represent 61% of the total customer minutes. Outage cause: 2 Vehicle accidents, 2 equipment problems.*		
			Upgrade tap fusing	Complete	Jan-06
			Upgrade main line fusing	Complete	Feb-06
			Comprehensive circuit patrol	Complete	Jun-06
			Complete full-cycle tree clearing in 2006	In progress; 99% complete as of 9/30/06	
17	Mountain	00740-4	*Performance driven by car/pole accident, a broken crossarm and animal contact caused outages.*		
			Trimming accelerated one year	Completed	Jul-06
			Line maintenance patrol	Completed	Sep-06
			Replace recloser and install animal protection	To be completed 4Q 2006	
			Install overhead fault indicators	To be completed 4Q 2006	
18	Birdsboro	00757-1	*3 outages represent 72% of the total customer minutes. Outage causes: tree, lightning, and excavator error/tree.*		
			Completed full-cycle tree clearing in 2006	Complete	Apr-06
			Install tap fuses	Complete	Dec-05
			Underground cable replacement	Complete	Apr-06
			Install additional tap fuses	To be completed 1Q 2007	
			Install additional main line fusing	To be completed 1Q 2007	

Met-Ed – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
19	N Lebanon	00712-2	*5 outages represent 84% of the total customer minutes. Outage causes: Vehicle accident, 4 equipment problems (arrester, insulator, cutout, and recloser).*		
			Arrester and insulator replacements	Complete	Dec-05
			Overhead main line fault indicator installations	Complete	Dec-05
			Anchor and guy repairs	Complete	Feb-06
			Upgrade main line switch	Complete	May-06
			Recloser control upgrade	Complete	Jun-06
			Crossarm / crossarm brace replacements	To be completed 1Q 2007	
			Main line switch replacement	To be completed 1Q 2007	
20	S Hamburg	00743-1	*4 outages represent 79% of the total customer minutes. Outage causes: Vehicle accident, tree, equipment problem (crossarm), and broken pole caused by customer contact.*		
			Upgrade line fuses	Complete	Nov-05
			Install main line disconnects and overhead fault indicators	To be completed 1Q 2007	
			Pole replacements	To be completed 1Q 2007	
			Install additional tap fuses	To be completed 1Q 2007	
21	Barto	00706-1	*Tree caused outages represent 69% of the total customer minutes.*		
			Replace poles	Complete	Jan-06
			Replace 3-phase switch	Complete	Jan-06
			Inspect substation lightning protection	Complete	May-06
			Install animal guards / additional fusing	Complete	Jun-06
			Upgrade substation lightning protection	Complete	Oct-06
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
22	Northwood	00643-3	*Lightning strikes, line failures, and falling trees accounted for 97% of the total customer minutes.*		
			Replace spacer cable	Complete by 4Q 2007	
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Install additional fusing	Complete by 4Q 2007	
23	N Temple	00542-1	*4 outages represent 90% of the total customer minutes. Outage causes: Trees (4) during storms.*		
			Complete full-cycle tree clearing in 2005	Complete	Dec-05
			Review tree conditions and complete trimming identified	Complete	Aug-06
			Install additional tap fuse	To be completed 1Q 2007	
24	Baldy	00736-1	*3 outages represent 87% of the total customer minutes. Outage causes: Tree and animal contacts (2).*		
			Comprehensive circuit patrol	Complete	Jun-06
25	Delabole	00036-3	*95% of the total customer minutes were due to line failures and falling trees.*		
			Fuse re-coordination	To be completed in 2007	
			Install 4 cutouts	To be completed in 2007	
			Install single-phase recloser	To be completed in 2007	

Met-Ed – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
26	Leesport	00811-1	*5 outages represent 62% of the total customer minutes. Outage causes: lightning, trees (2), vehicle accident, and equipment problem (main line recloser).*		
			Pole replacements	Complete	Oct-05
			Additional tap fuses	Complete	Nov-05
			Complete full-cycle tree clearing in 2007	Under contract	
			Install fuse/bypass switch	To be completed 1Q 2007	
			Install additional tap fuses	To be completed 1Q 2007	
			Pole replacement	To be completed 1Q 2007	
27	West Reading	00525-1	*1 outage represents 94% of the total customer minutes. Outage cause: Equipment damage due to lightning.*		
			Complete full-cycle tree clearing in 2006	Complete	Mar-06
			Additional animal protection	Complete	Mar-06
			Conductor and transformer repairs	Complete	Jul-06
			Install fuse/bypass switch	To be completed 1Q 2007	
28	Bern Church	00789-1	*Tree caused outages represent 55% of the total customer minutes*		
			Install mainline overhead fault indicators	Complete	Mar-06
			Comprehensive circuit patrol	Complete	Jun-06
			Complete full-cycle tree clearing in 2006	To be completed 4Q 2006	
			Underground cable replacement in the Sunny Slopes development	To be completed 4Q 2006	
			Install additional fusing	To be completed 4Q 2006	
			Re-route circuit tap along roadway	To be completed 4Q 2006	
29	Shawnee	00899-3	*Tree, vehicle and equipment failure related outages account for 93% of total customer minutes.*		
			Installed additional fusing	Completed	Nov-05
30	Bath	00873-3	*82% of the total customer minutes were due to line failure and lightning.*		
			Install recloser	Completed	Mar-06
			Complete full-cycle tree clearing in 2006	Completed	Mar-06
			Install 2 fused bypass structures	To be completed 4Q 2006	
			Replace crossarms	Completed	Jun-06
			Install additional fusing	Completed	Nov-05
31	Pine Lane	00713-1	*Tree-related outages represent 97% of the total customer minutes.*		
			Animal guard installations	Complete	Oct-06
			Complete full-cycle tree clearing in 2007	Under contract	
			Install tap fuses	To be completed 1Q 2007	
32	Bernville	00786-1	*5 outages represent 71% of the total customer minutes. Outage causes: patrol with no permanent problem locations identified during inclement weather (2), vehicle accidents (2), and trees.*		
			Complete full-cycle tree clearing in 2005	Complete	Oct-05
			Install animal guard	Complete	Mar-06
			Install disconnect switches	Complete	Apr-06
			Install fault indicators	Complete	Apr-06
			Repair additional primary conductor	Complete	Jun-06
			Install fuse/bypass switch	To be completed 4Q 2006	
			Relocate off-road line section	To be completed 4Q 2006	
			Comprehensive circuit patrol	To be completed 3Q 2007	

Met-Ed – Remedial Action for 5% Worst Performing Circuits

Rank	Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Date Remedial Work Completed
33	Windsor	00316-4	*Performance driven by equipment failure, lightning, and overload caused outages.*		
			Re-coordinate line fuses	Completed	Jul-06
			Perform preventive maintenance circuit patrol	To be completed 4Q 2006	
34	Clearfield	00632-3	*Equipment failures, animal contact, and lightning accounted for 76% of the total customer minutes.*		
			Complete full-cycle tree clearing in 2005	Completed	Dec-05
			Installed fusing at various locations	Completed	Jun-06
			Installed 6 animal guards	Completed	Jul-06
			Replaced 2 failed transformers	Completed	Jul-06
35	Shawnee	00837-3	*Tree, line, and equipment failure account for 96% of total customer minutes.*		
			Complete full-cycle tree clearing in 2007	Under contract	
			Resagged conductors	Completed	Nov-05
36	Adamstown	00754-1	*Tree caused outages (2) represent 73% of the total customer minutes.*		
			Review tree conditions and complete trimming identified	Complete	Aug-06
			Install tap fuses	Complete	Sep-06
			Install additional tap fuses	To be completed 3Q 2007	
			Arrester replacements	To be completed 3Q 2007	

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

Outages by Cause

Outages by Cause – Penn Power

3Q 2006 12-Month Rolling	***Penn Power***			
Cause	**Customer Minutes**	**Number of Outages**	**Customers Affected**	**% Based on Number of Outages**
Animal	1,147,219	317	13,956	9.23%
Bird	298,338	141	3,531	4.11%
Contamination	636	5	5	0.15%
Customer Equipment	63,444	8	1,123	0.23%
Equipment Failure	3,592,704	475	39,636	13.83%
Fire	97,731	9	401	0.26%
Forced Outage	483,616	59	10,785	1.72%
Human Error - Company	5,386	11	39	0.32%
Human Error -Non-Company	635,985	58	8,882	1.69%
Ice	0	0	0	0.00%
Lightning	1,042,059	234	5,450	6.81%
Line Failure	3,637,718	331	20,661	9.64%
Object Contact with Line	462,716	13	4,342	0.38%
Other Electric Utility	272	1	4	0.03%
Other Utility-Non Electric	220	1	1	0.03%
Overload	436,915	174	4,210	5.07%
Previous Lightning	37,013	22	294	0.64%
Switching Error	0	0	0	0.00%
Trees/Non-Preventable	5,495,807	416	31,608	12.11%
Trees/Preventable	81,643	11	739	0.32%
Underground Dig-Up	17,215	13	139	0.38%
Unknown	3,932,095	1,035	39,403	30.14%
Vandalism	1,199	5	27	0.15%
Vehicle	2,118,071	93	15,397	2.71%
Wind	118,408	2	301	0.06%
Total	**23,706,410**	**3,434**	**200,934**	**100.00%**

Proposed Solutions – Penn Power

Unknown Outages

Since "outage-by-cause" analysis is one of the tools used to analyze and develop circuit and system reliability improvement plans, Penn Power stresses the need to accurately code outage causes; not to make educated guesses. Hence, if the troubleshooter cannot accurately identify the cause of an outage, that outage is coded with an unknown cause. To help limit the number of unknown outages, troubleshooters are directed to continue to patrol a circuit even after service has been restored, in an effort to identify the outage cause, as long as those patrols will not interfere with restoration of other customers.

Penn Power's engineering department reviews the circuits that have experienced multiple "Unknown" outages to determine if a single device may be causing the outages.

Equipment Failures

The number of equipment failures are mitigated by way of inspection and maintenance practices, such as circuit inspections and others as reported in Section 57.195(e)(6) herein. Further, distribution circuit protection coordination reviews and the enhanced circuit protection schemes that result will provide isolation of equipment failures and lessen the impact of outages to a smaller number of customers.

Penn Power's review has pointed to an increase in the number of outages from arresters and cutouts. Further analysis has identified an older gap-style and an expulsion-type arrester to be the main cause for the arrester outages and they are being replaced. Additionally, porcelain cutouts were found to be the major cause for cutout-related outages, resulting in the discontinued use of porcelain cutouts for new installations, and older porcelain cutouts are being replaced with new polymer cutouts when they fail.

Trees Non-Preventable

Penn Power's forestry department 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 any trees that need to be trimmed or removed to avoid future outages. In addition, line and forestry department personnel patrol for danger trees as part of their daily work routine.

Outages by Cause – Penelec

3Q 2006 12-Month Rolling	***Penelec***			
Cause	**Customer Minutes**	**Number of Outages**	**Customers Affected**	**% Based on Number of Outages**
Animal	3,568,134	1,303	41,617	9.98%
Bird	678,828	303	7,308	2.32%
Contamination	59,018	71	575	0.54%
Customer Equipment	264,325	51	2,810	0.39%
Equipment Failure	29,319,399	3,737	294,258	28.63%
Fire	557,450	59	4,952	0.45%
Forced Outage	884,047	166	20,405	1.27%
Human Error - Company	142,053	31	8,027	0.24%
Human Error -Non-Company	668,908	134	9,053	1.03%
Ice	637,343	35	6,069	0.27%
Lightning	5,772,694	983	41,466	7.53%
Line Failure	12,911,874	940	102,873	7.20%
Object Contact With Line	392,815	56	3,182	0.43%
Other Electric Utility	209,660	68	3,693	0.52%
Other Utility-Non Electric	92,326	9	807	0.07%
Overload	2,718,576	296	26,768	2.27%
Previous Lightning	156,664	148	862	1.13%
Switching Error	35,625	8	3,387	0.06%
Trees/Not Preventable	37,342,399	2,032	204,788	15.57%
Trees/Preventable	703,627	128	5,125	0.98%
Underground Dig-Up	117,925	80	872	0.61%
Unknown	11,460,846	1,926	124,599	14.76%
Vandalism	53,921	5	396	0.04%
Vehicle	5,695,492	378	38,154	2.90%
Wind	2,498,317	104	10,520	0.80%
Total	**116,942,266**	**13,051**	**962,566**	**100.00%**

Proposed Solutions – Penelec

Equipment Failure

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

The number of equipment failures are further mitigated by way of inspection and maintenance practices, such as circuit inspections and others as reported in Section 57.195(e)(6) herein. In addition, distribution circuit protection coordination reviews and the enhanced circuit protection schemes that result will provide isolation of equipment failures and lessen the impact of outages to a smaller number of customers.

Trees Non-Preventable

Penelec's forestry department 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 any dead or diseased trees that need to be trimmed or removed to avoid future outages. In addition, line and forestry department personnel patrol for danger trees as part of their daily work routine.

Unknown Outages

A high percentage of the outages coded as "Unknown Outages" required the replacement of blown fuses. The implementation of coordination and protection reviews is expected to reduce the number of these types of outages.

Outages by Cause – Met-Ed

3Q 2006 12-Month Rolling	***Met-Ed***			
Cause	**Customer Minutes**	**Number of Outages**	**Customers Affected**	**% Based on Number of Outages**
Animal	7,733,489	1,791	73,541	18.64%
Bird	221,680	58	1,850	0.60%
Contamination	64,599	24	545	0.25%
Customer Equipment	273,669	22	7,894	0.23%
Equipment Failure	20,079,598	1,962	219,556	20.42%
Fire	869,486	24	5,910	0.25%
Forced Outage	2,318,547	103	43,057	1.07%
Human Error - Company	657,774	43	15,145	0.45%
Human Error -Non-Company	810,432	80	5,661	0.83%
Ice	190,536	5	1,880	0.05%
Lightning	9,201,728	699	46,497	7.27%
Line Failure	10,023,784	552	62,898	5.74%
Object Contact With Line	313,435	22	6,357	0.23%
Other Electric Utility	66,536	3	1,986	0.03%
Other Utility-Non Electric	336,473	4	1,272	0.04%
Overload	2,560,757	196	34,090	2.04%
Previous Lightning	384,042	49	3,093	0.51%
Switching Error	0	0	0	0.00%
Trees/Not Preventable	21,115,169	1,100	122,624	11.45%
Trees/Preventable	2,516,660	341	12,866	3.55%
Underground Dig-Up	397,373	56	2,324	0.58%
Unknown	11,430,667	2,083	118,850	21.68%
Vandalism	3,661,330	26	23,321	0.27%
Vehicle	9,695,217	357	76,361	3.71%
Wind	211,547	10	1,013	0.10%
Total	**105,134,528**	**9,610**	**888,591**	**100.00%**

Proposed Solutions – Met-Ed

Unknown

Met-Ed's engineering department reviews the circuits using the SAIDI circuit evaluation process and all outage cause codes are investigated at that time. Met-Ed stresses the need to accurately code outage causes; not to make educated guesses. Hence, if the troubleshooter cannot accurately identify the cause of an outage, that outage is coded with an unknown cause. To help limit the number of unknown outages, troubleshooters conduct a thorough patrol of the circuit prior to restore of the outage.

Equipment Failure

The number of equipment failures are mitigated by way of inspection and maintenance practices, such as circuit inspections and others as reported in Section 57.195(e)(6) herein. 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, Met-Ed's engineering department conducts a multi-operation device review each month to identify equipment failures and equipment that is causing repetitive outages and plans accordingly to repair or replace equipment.

Animal

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

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

T&D Inspection and Maintenance Programs

Inspection and Maintenance 3Q 2006			Penn Power			Penelec			Met-Ed		
			Planned	Completed		Planned	Completed		Planned	Completed	
			Annual	3Q	YTD	Annual	3Q	YTD	Annual	3Q	YTD
Forestry	Transmission (Miles)		30	20	78 [a]	247	223	405[a]	115	41	54
	Distribution (Miles)		800	243	475	4,397	992	3,167	1,248	416	1,745[a]
Transmission	Aerial Patrols (2 per year)		2	0	1	2	0	1	2	0	1
	Groundline Inspections[b]		536	193	380	3,356	1,884	1,884	618	510	510
Substation	General Inspections		1,020	255	765	5,505	1,401	4,131	2,892	715	2,162
	Transformers		125	13	125	768	149	767	301	118	214
	Breakers		126	44	96	586	124	551	189	3	67
	Relay Schemes		142	21	100	1,452	447	1,087	747	116	401
Distribution	Capacitor Inspection		784	6	784	8,147	0	8,147	4,024	0	4,024
	Pole Inspections		12,820	8,130	11,842	59,798	0	24,590	30,150	1,487	26,594
			Planned	**Completed**		**Planned**	**Completed**		**Planned**	**Completed**	
	Recloser Inspection (inspected quarterly)	1Q	606	606		1,464	1,464		911	911	
		2Q	606	606		1,803	1,803		911	911	
		3Q	618	618		1,902	1,902		903	903	
		4Q									
	Radio-Controlled Switches (inspected twice per year)	1st half 2006	Penn Power has no radio controlled switches			832	832[c]		16	16	
		2nd half 2006				915	289		17	4	

(a) Actual tree-trimming exceeds plan due to work from future years that has been accelerated.
(b) Transmission groundline inspections:
- Penn Power includes 138 and 69 kV
- Penelec includes 345, 230, 138, and 115 kV
- Met-Ed includes 230, 115 and 69 kV

(c) 741 completed in the first half of 2006 and 91 completed in 3rd quarter.
General Note:
Unless specified otherwise, all inspections are reported on a unit basis rather than on a location basis.

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

Budgeted vs. Actual T&D Operation & Maintenance Expenditures

T&D O&M (3rd Quarter and YTD September 2006)						
Company	**PUC Category**	**3Q Actual**	**3Q Budget**	**YTD Actual**	**YTD Budget**	**Annual Budget**
Penn Power	Corrective Maintenance	208,082	234,424	731,222	791,180	1,048,965
	Preventive Maintenance	190,706	126,058	521,928	424,272	560,517
	Storms	(45,784)	177,720	229,773	513,934	633,134
	Vegetation Management	521,954	708,284	1,564,192	2,086,603	2,753,606
	Miscellaneous	1,326,306	505,315	3,216,563	1,805,901	2,453,730
	Operations	429,225	649,440	1,838,617	1,680,983	2,208,569
Penn Power Total		**2,630,489**	**2,401,241**	**8,102,295**	**7,302,873**	**9,658,521**
Penelec	Corrective Maintenance	1,953,947	1,292,592	5,480,713	3,877,776	5,170,367
	Preventive Maintenance	892,373	830,616	3,558,603	2,455,428	3,306,214
	Storms	804,272	1,340,968	2,056,973	3,613,657	4,516,002
	Vegetation Management	3,341,967	3,147,769	8,662,879	8,646,943	11,195,746
	Miscellaneous	3,888,276	3,626,484	8,171,328	11,108,824	14,884,096
	Operations	5,237,659	4,964,924	16,170,315	14,265,317	18,847,810
Penelec Total		**16,118,494**	**15,203,353**	**44,100,811**	**43,967,945**	**57,920,235**
Met-Ed	Corrective Maintenance	1,172,967	2,585,087	3,781,872	7,748,774	10,508,876
	Preventive Maintenance	541,657	917,681	2,034,391	2,766,286	3,686,071
	Storms	2,866,316	1,085,574	5,150,840	3,276,839	4,382,530
	Vegetation Management	2,051,543	2,375,916	7,744,930	7,127,747	9,503,663
	Miscellaneous	3,750,739	1,013,818	8,236,299	3,070,495	4,064,797
	Operations	3,671,565	4,040,604	11,193,902	11,784,784	15,790,933
Met-Ed Total		**14,054,787**	**12,018,680**	**38,142,234**	**35,774,925**	**47,936,870**
Grand Total		**32,803,770**	**29,623,274**	**90,345,340**	**87,045,743**	**115,515,626**

General Notes:

- Penn Power's O&M dollars do not include the costs associated with the O&M work conducted on the transmission assets owned by American Transmission Systems, Inc., a subsidiary of FirstEnergy Corp.
- See Attachment A for O&M and Capital category definitions.
- O&M data is consistent with preliminary FERC data with the exception of the expenses related to PJM and MISO, of which the Companies are Transmission Owner members. Removed MISO Network services expenses from Penn Power (actual and budget).

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

Budgeted vs. Actual T&D Capital Expenditures

T&D Capital Only Includes CIAC (net) (3rd Quarter and YTD September 2006)						
Company	**PUC Category**	**3Q Actual**	**3Q Budget**	**YTD Actual**	**YTD Budget**	**Annual Budget**
Penn Power [a]	New Business	2,106,258	1,566,935	5,542,276	4,702,226	6,381,253
	Reliability	837,345	1,096,889	3,749,241	3,287,457	4,411,703
	Capacity	549,502	600,898	2,531,159	2,923,425	3,312,822
	Miscellaneous	323,359	263,007	814,476	879,008	1,011,970
	Forced	770,132	962,817	2,041,097	2,571,858	3,435,830
	Vegetation Management	3,784	43,967	27,271	132,283	179,605
Penn Power Total		**4,590,380**	**4,534,513**	**14,705,520**	**14,496,257**	**18,733,183**
Penelec [b]	New Business	5,599,250	2,185,665	16,042,568	6,319,370	8,601,444
	Reliability	5,323,891	6,323,077	40,340,809	20,236,091	26,309,688
	Capacity	2,323,695	507,464	3,741,476	1,963,830	2,488,931
	Miscellaneous	1,398,765	3,351,406	4,975,742	10,109,937	13,117,619
	Forced	5,194,014	7,752,520	13,763,111	22,639,949	30,099,355
	Vegetation Management	483,277	398,926	1,177,912	1,183,720	1,594,439
Penelec Total		**20,322,892**	**20,519,058**	**80,041,618**	**62,452,897**	**82,211,476**
Met-Ed	New Business	6,801,788	5,726,209	20,630,351	16,889,751	22,720,596
	Reliability	3,523,869	6,921,871	17,032,631	20,314,329	27,232,171
	Capacity	3,808,646	2,433,021	15,458,637	16,738,844	19,349,905
	Miscellaneous	1,105,808	1,520,612	3,634,096	4,332,226	5,399,156
	Forced	2,476,870	2,103,114	7,475,675	6,135,556	5,938,553
	Vegetation Management	174,661	84,595	361,155	246,627	331,797
Met-Ed Total		**17,891,642**	**18,789,422**	**64,592,545**	**64,657,333**	**80,972,178**
Grand Total		**42,804,914**	**43,842,993**	**159,339,683**	**141,606,487**	**181,916,837**

[a] Penn Power's capital dollars do not include the costs associated with capital work conducted on the transmission assets owned by American Transmission Systems, Inc., a subsidiary of FirstEnergy Corp.

[b] Penelec's higher than budgeted actual costs reflects its focus on completing reliability improvement projects using accelerated reliability improvement funds in both the 1st and 2nd Quarters of 2006.

General Notes:

- See Attachment A for O&M and Capital category definitions.
- Capital dollars are net of Contribution In Aid of Construction ("CIAC") amounts and exclude facilities costs (i.e. buildings).

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

Staffing Levels

Penn Power				
Staffing Levels - T&D Operations and Maintenance				
Line Department	***1Q 2006***	***2Q 2006***	***3Q 2006***	***4Q 2006***
Leader / Chief	32	32	31	
Lineman	43	45	47	
Substation Department				
Technician	6	6	6	
Construction & Maintenance (C&M)	14	14	14	
Total	95	97	98	0

Penelec				
Staffing Levels - T&D Operations and Maintenance				
Line Department	***1Q 2006***	***2Q 2006***	***3Q 2006***	***4Q 2006***
Leader / Chief	153	146	143	
Lineman	145	140	157	
Substation Department				
Technician	0	0	0	
Construction & Maintenance (C&M)	73	76	79	
Total	371	362	379	0

Penelec Substation Technician work is performed by C&M employees.
Penelec had the following adjustments to their Line and Substation Department staff in the 3rd quarter:

- Retirements of 2 employees.
- Hired 1 graduate of the Power Systems Institute ("PSI").
- Hired 5 Linemen.
- Hired 5 Substation Technicians.
- Started 8 incumbent employees in an internal Line Apprenticeship Program.

Met-Ed				
Staffing Levels - T&D Operations and Maintenance				
Line Department	***1Q 2006***	***2Q 2006***	***3Q 2006***	***4Q 2006***
Leader / Chief	57	57	59	
Lineman	150	152	156	
Substation Department				
Technician	16	14	15	
Construction & Maintenance (C&M)	47	45	55	
Total	270	268	285	0

Met-Ed had the following adjustments to their Line and Substation Department staff:

- Transferred 4 employees from Meter Reading into the Line Department as Apprentices and enrolled in the PSI program.
- Hired 2 Journeyman Linemen
- Started 11 incumbent employees in a Substation Apprenticeship Program.

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

Contractor Expenditures

This portion of the report is confidential per docket L-000301061

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

Call-Out Acceptance Rate

This portion of the report is confidential per docket L-000301061

Call-Out Response

This portion of the report is confidential per docket L-000301061

Settlement Agreement Provisions

Pursuant to the Reliability Settlement Agreement at Docket No. I-00040102, two additional reporting requirements are included with the Companies' Quarterly Reliability Report:

- Connectivity Rate
- Local Reliability Meeting Updates

Settlement Provision #1: The FirstEnergy Companies will provide customer connectivity rates as part of quarterly reliability reporting to the Commission beginning with the 3rd quarter 2004 report. Each of the Companies will achieve at least a 98% connectivity rate by the end of 2005. The Companies will strive to achieve a 99% connectivity rate but will maintain at least a 98% connectivity rate. Customer connectivity is defined as the percentage calculated by dividing the number of customers that are connected to a device within the Outage Management System (OMS) by the number of billable accounts and sub-accounts (other than group billed accounts) in the customer information system. Customers connected to a device in OMS are those connected in such a way that the electrical network may be traced for outage prediction purposes from the customer to a distribution circuit breaker.

Connectivity Rate

The Companies are maintaining a connectivity rate of 98.9% or higher.

Connectivity (%)	*Penn Power*	*Penelec*	*Met-Ed*
1Q 2006	99.0%	99.0%	99.2%
2Q 2006	99.1%	99.1%	99.3%
3Q 2006	98.9%	99.0%	99.2%
4Q 2006			

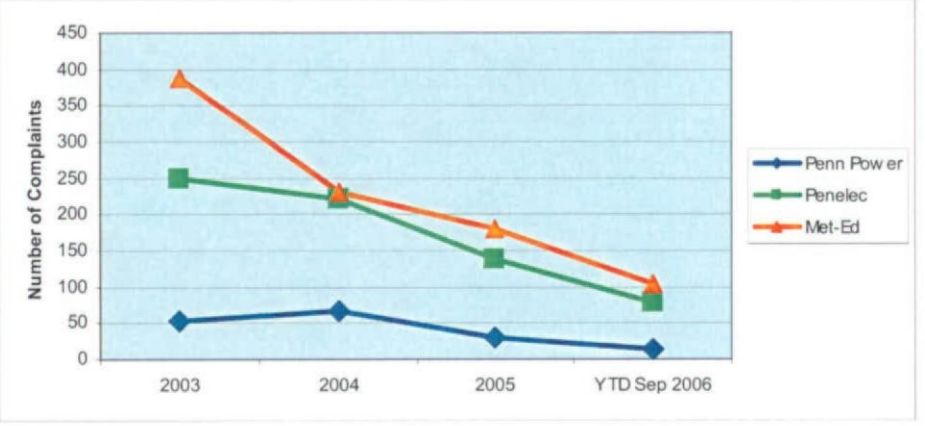
Settlement Provision #8: The FirstEnergy Companies will conduct local meetings about reliability, with notices targeted to areas previously reporting numerous power outage or reliability complaints, and which focus on updating the customers on reliability projects and circuit performance. These local meetings will begin by October 2004 and summaries of the meetings will be provided in the FirstEnergy Companies' quarterly reliability reports to the Commission. The summaries will contain a description of the action plans identified and dates for implementation of the planned actions as a result of the meetings.

Local Reliability Meetings

Companies are required under the PA Settlement Agreement (Provision #8 above) to conduct local reliability meetings within their regions. In the 3rd quarter of 2006 the Companies conducted the following number of reliability meetings: 4 for Penn Power, 1 for Penelec and 3 for Met-Ed. One additional meeting, the details for which were not available at the end of the 2nd quarter, is included for Penn Power.

The local reliability meetings have been conducted on both a reactive and proactive basis. Since the meetings commenced in November 2004, there has been a steady decline in the total number of meetings. This steady decline can potentially be attributed to the following factors:

- The reliability performance improvement demonstrated to date and as described in Section e(2) of this report.
- The Companies' increased and improved communication with customers through the utilization of reverse interactive voice response ("IVR").
- Reduction in service reliability-related customer complaints (see graph below).



Public meeting reports are provided in Attachment B1 and B2 of this report.

- Attachment B1 includes reports on meetings conducted in the 3rd quarter of 2006.
- Attachment B2 includes reports on meetings conducted previous to the 3rd quarter of 2006 and for which there are action items that are still outstanding or were completed in the 3rd quarter.

Once all action items have been completed, the meeting report will be archived and no longer attached to this quarterly report.

ATTACHMENT A

Definitions of T&D O&M and Capital Categories

Definitions of T&D O&M and Capital categories:

T&D O&M

Corrective Maintenance – Program or non-program O&M costs associated with the unplanned repair and maintenance of the system, which may or may not be scheduled. This excludes any capital work resulting from corrective maintenance.

Preventive Maintenance – Program or non-program O&M costs associated with the planned repair and maintenance of they system, which may or may not be scheduled.

Storms – Costs associated with all weather-related conditions.

Vegetation Management – Costs associated with planned or unplanned tree trimming and vegetation management program.

Miscellaneous (Misc.) – Costs associated with miscellaneous type categories that can include, but are not limited to, damage claims, joint use, and purchase and upkeep of tools.

Operations – O&M costs associated with the activities related to managing and directing the operations of the Company.

T&D Capital

New Business – Costs associated with providing service to new customers (i.e. residential, commercial, industrial, and streetlighting).

Reliability – Costs incurred to improve/reinforce the reliability of the infrastructure assets.

Capacity – Costs associated with projects required to improve, relieve, or correct an existing or projected voltage or thermal condition.

Miscellaneous (Misc.) – Costs associated with miscellaneous type categories that can include, but are not limited to, damage claims, joint use, and purchase and upkeep of tools.

Forced – Costs associated with projects that are required usually by federal or state regulatory bodies. This category can also include costs associated with highway and bridge projects or that are related to weather conditions.

Vegetation Management - Costs associated with planned or unplanned tree trimming and vegetation management program.

ATTACHMENT B1

Local Reliability Meeting Reports

Meetings Conducted in the 3rd Quarter 2006

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	Jackson Township
Location:	140 Magill Road Zelienople, PA 16063
Date/Time:	June 26, 2006 at 10:00 a.m.
Penn Power Circuit:	W-732
Penn Power	Bart L. Spagnola, Area Manager
Attendees:	Timothy Sapienza, Line Supervisor
Public Attendees:	Richard Crown, Township Manager Gary Goehring, Township Supervisor Shirl Mawhinney, Office Administrator

Background / Issues

I arranged this meeting as a basic visit to communities to discuss issues, explain reliability work, storm process information and street lights. Tim explained the distribution upgrade work we have done this year and what is proposed for the remainder of the year. I discussed tree trimming work being done in the Jackson Township area and circuit inspections to prioritize circuits that need improvement. We also discussed work that has been completed on transmission lines in the area and how we use helicopters to find damaged and faulty equipment. We continue to install reclosers to sectionalize the circuits to minimize the amount of customers out during storms. We discussed our storm process and reviewed all the contact numbers in case of emergencies. Mr. Crown feels that our reliability and outage time has improved over the last year and is very satisfied with the service our employees provide. I left several of my business cards and thanked them for giving us their time.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Circuit Inspections	Jim Visingardi		5/06
Tree Trimming - W-732	Davey Tree Service		6/06
Recloser Installations	Jim Visingardi		6/06

Note: This meeting was conducted in the 2nd quarter, but the report summary was not available at the end of the quarter.

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	Lawrence County Economic Development Corporation
Location:	New Castle, Pa.
Date/Time:	July 19, 2006 at 12:00 p.m.
Penn Power Circuit:	
Penn Power Attendees:	Bart L. Spagnola, Area Manager
Public Attendees:	Linda Nitch, Director - R. Delsignor, Board President - G. Cilli, Attorney and several other Board Members.

Background / Issues

This was a monthly Lawrence County Economic Development Board Meeting. After the meeting several board members asked about reliability and why there seems to be fewer outages this year than last year. I explained that this was due, in large part, to the work that has been done by our Line Department, as well as outside contractors on the transmission lines. I explained the process of inspecting circuits to prioritize them from best to worst performing. And that once inspected, a work order is prepared and work begins to upgrade the circuit. In the New Castle area, a lot of work has been completed over the last year to improve reliability. As of the end of the second quarter of this year capacitor inspections and replacements are complete. Transmission upgrades on circuits Y-188 and Y-107 have been completed in the New Castle Area and work on other circuits is underway. Several transmission switches have either been repaired or replaced to help restore power quickly during storms. Penn Power is continuing upgrades on our system to help improve service and reliability to our customers. The group thanked me for the update on reliability in the New Castle Area and for the work being done to help this group promote this area to prospective companies.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
None -- Work has been completed			

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	Neshannock Township Supervisors
Location:	3131 Mercer Road, New Castle, PA 16105
Date/Time:	September 9, 2006 at 12:00 p.m.
Penn Power Circuit:	Y-194
Penn Power Attendees:	Bart L. Spagnola, Area Manager
Public Attendees:	Gale Measel, Supervisor and John DiCola, Supervisor

Background / Issues

This meeting was scheduled at the request of Gale Measel, Township Supervisor. The concerns they have are regarding two industrial parks in the township: Northgate and RIDC. The township is working with two out-of-state companies that are in the process of relocating their operations and Neshannock Township is on their short list(s). Also, one of the existing companies in Northgate is to expand their operation to include three new furnaces. Two years ago there were outage problems in this area due to increased load in a growing community. Throughout 2005 and the first half of 2006 we have updated this circuit by increasing the wire size (to #336 wire) from our Walmo Substation into these industrial parks. We have also reviewed the entire circuit to insure that poles, insulators and cut-outs are in good condition and operating properly. In June of this year we replaced two switching motors that had given the company problems in recent storms. The work that has been completed on this circuit has improved the reliability and increased capacity to accommodate future growth. We reviewed the storm process, including contact numbers for myself and support representatives. I left a Key Account Priority Sheet with account numbers for all their services, as well as an Emergency Hot Line number if they cannot reach our support representative or me. I informed them that we have plans to upgrade our Harbor Substation to support the growth in a new industrial park that is breaking ground this month in their township. That upgrade will allow us to shift load from the existing substations supporting Northgate and RIDC to the Harbor Substation, which will be evaluated as customers locate in the new industrial park. As of this time we can provide reliable power for several additional customers. The upgrades will allow Penn Power to continue to provide reliable service to this growing community.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
None - The work has been completed			

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	State Representative Michael Veon's Staff
Location:	1122 Seventh Avenue, Beaver Falls, P A. 15010
Date/Time:	September 18, 2006 at 10:00 a.m.
Penn Power Circuit:	D-536
Penn Power Attendees:	Bart L. Spagnola, Area Manager
Public Attendees:	Thomas Woodske, Chester Orelli, Daniel Woodske

Background / Issues

I requested this meeting after receiving a call from Representative Veon's office regarding outages in the Darlington/Chippewa area. The recent outages were the result of storms that passed through the area. I reviewed system upgrades that Penn Power has completed this year and the positive impact to reliability that these improvements have made. One of the projects completed was to add fusing devices to Circuit D-536 in Darlington. By adding these devices we can sectionalize the circuit and eliminate large numbers of customers being without service for an extended period of time. As an example, I shared that we can isolate the fault and restore most of the customers before repairs are done, thereby reducing both the number of customers affected by an outage and outage minutes. I reviewed the storm and outage response plan and the importance of customers calling the toll-free number as quickly as possible to report an outage. I requested that they explain the importance of having customers contact either a Customer Support Representative or me directly before filing a complaint so that we can address the issue promptly. Most customers are looking for an answer to a utility problem, which can be provided by one of our Customer Support Representatives or me. Before leaving I passed out my business cards and a list of contact numbers to Representative Veon's staff.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
No action needed at this time Representative Veon has no issues with Penn Power or First Energy Corp.			

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	Mercer County Commissioner
Location:	Mercer County Courthouse
Date/Time:	September 5, 2006
Penn Power Circuit:	Various
Penn Power Attendees:	Tony Zucco - Penn Power Area Manager
Public Attendees:	Brian Beader - Mercer County Commissioner
	Michelle Brooks - Mercer County Commissioner

Background / Issues

Brian Beader had met with me regarding an explanation of deregulation. Following the meeting he asked if we could talk about the storm restoration process and reliability in general. Brain's concerns included how Penn Power would address reliability/restoration efforts and what changes, if any, would occur in January 2007 as a result of POLR. I explained that, regardless of the supplier, Penn Power restoration efforts would not change and that our restoration priority is to restore customers as soon as possible. I explained that the provider/supplier is of no consequence in this process. I also took the opportunity to inform him of our tree trimming efforts, how we patrol our circuits, identify and fix conditions we find, and how we use out-of-town crews, if necessary, to restore service in a timely fashion. Brian was very appreciative of the explanation and commented on the good effort we had made this summer in "keeping the lights on".

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Nothing required			

Penelec

Public Meeting Report

Meeting Information

Municipality/Group:	Fairview Industrial Park
Location:	American Turned Products
Date/Time:	July 7, 2006 at 11:00 a.m.
Penelec Circuit:	Fairview South Circuit
Penelec Attendees:	Dan Heher & Jim Wimer
Public Attendees:	Representatives from the Companies comprising the Park & ECIDA

Background / Issues

Businesses in the Fairview Industrial Park have experienced frequent outages in the 2nd quarter of 2006. The causes were due to the following: relay problems in the substation, animal caused outages, and loading problems. In addition, a new step-down bank (34.5kV to 12kV) will be brought online in the 4th quarter, which will alleviate the loading issue and improve reliability for the Fairview Industrial Park.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Replaced a breaker in the substation, installed additional animal guards, and reviewed fuse coordination.	Line & Engineering	July '06	July 2006
Installed a new step-down bank (34.5kV to 12kV).		4Q	

MetEd

Public Meeting Report

Meeting Information

Municipality/Group:	Union Township
Location:	177 Center Road Douglassville, PA
Date/Time:	July 31, 2006 at 9:00 a.m.
MetEd Circuit:	00756-00757
MetEd Attendees:	Marybeth Smialek, Ron Mohn, Dave Hillanbrand
Public Attendees:	Cindy Schweitzer Township Manager

Background / Issues

Eight customers from Union Township area contacted the Township Manager regarding frequent outages and capacity concerns. The township chose to act as the intermediary between Met-Ed and the customers. Met-Ed provided information on all outages on the two circuits serving the area as well as work that has been completed or is planned for the remainder of this year.

A two mile stretch of this circuit passes through a heavily forested and mountainous section of the national park and Pennsylvania State Forest land. The rugged area includes many large trees over 60 feet tall that overhang the right-of-way. Expansion of this right-of-way would greatly improve reliability to these customers. Approval would be required from the Pennsylvania Department of Conservation and Natural Resources and the National Park Service - U.S. Department of the Interior. It was agreed that Met-Ed would pursue obtaining this approval.

A single complaint was also discussed regarding Gordon Nairn, who had been experiencing "brown-outs".

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Serviceman to investigate and remediate Mr. Nairn's concerns	Dave Hillandbrand	8/7/06	8/1/2006
Hold meeting with US Dept of Interior and PA Dept of Conservation and Natural Resources to discuss additional tree trimming and an access road through the two mile forested section of the circuit		9/30/06	9/27/2006
Install fuse bypass		1/1/07	9/21/2006
Install 7 additional fuses		1/1/07	
Install fuses at 16 locations		1/1/07	

MetEd

Public Meeting Report

Meeting Information

Municipality/Group:	Springettsbury and Hellam Township
Location:	Cooper Tools -3990 E. Market St. -York
Date/Time:	August 11, 2006
MetEd Circuit:	West Hellam Substation
MetEd Attendees:	C. Wagman Engineer, S. Iseman Engr, R. Stout Manager of Substations, Walt LaSota, Director of Operations, R. Schroth, Director of Customer Support
Public Attendees:	G. Malstrom -Cooper Tools, Galen Hake - American Hydro, M. Lehman -Flinchbaugh Engrs, W. Tollinger-Flinchbaugh Engrs, D. Hinganbotham- New Standard Corp., J. Strine- York Water Co., J. Winters-Sunoco Corrflux, D. Gauntlett-Cooper Tools, R. Dick-Cooper Tools, S. Udit-Central York School Dist., K. Masch-Cooper Tools, L. Melhorn-H&H Castings, R. Vanderberg-Cooper Tools

Background / Issues

On Sunday, June 18, Met-Ed experienced equipment failure at West Hellam Substation, interrupting service to customers in Springettsbury and Hellam Townships. On June 19, there was an additional failure, interrupting some of the customers a second time. Met-Ed installed a portable substation to provide power to the area, allowing us to return our delivery system to its normal configuration. On Tuesday, July 11 at approximately 12:53 p.m., the portable substation tripped off-line. After shifting a portion of the customers to alternate sources, the transformer was energized, restoring electric service to all affected customers.

Met-Ed Customer Support Representatives arranged this "town meeting" for industrial and business customers affected by these incidents to provide more detail about Met-Ed's investigation and the preventive measures that are being implemented to prevent future occurrences. Cooper Tools, one of the affected customers, hosted the meeting in their conference facility. The town meeting featured presentations by Chris Wagman and Steve Iseman of Met-Ed Customer Support; Bob Stout, Met-Ed Manager of Substation Services; Walt LaSota, Met-Ed Director of Operation Support; and Rick Schroth, Met-Ed Director of Customer Support.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Check and correct all relay and instrument calibrations	Substation Services	9/8/06	9/5/06
Update all affected parties when substation is returned to its normal status.	Customer Support	10/31/06	

MetEd

Public Meeting Report

Meeting Information

Municipality/Group:	Lari-Bel Acres
Location:	New Tripolli Fire House
Date/Time:	September 7, 2006 at 7:00 p.m.
MetEd Circuit:	749-1
MetEd Attendees:	Andy Hunter, Dennis Yerger, Marybeth Smialek
Public Attendees:	8 homeowners in development

Background / Issues

Customers have experienced 7 outages in past year; 6 of these were due to underground failures. The customers requested a meeting to determine a plan to correct the situation. The meeting was held at a local fire hall, with representations from all of the households affected. The items discussed included reliability, safety of the above ground temporary cables, repairs to the faults, voltage fluctuations and estimated meter readings, were raised at the meeting.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Mark temporary cable	B. Balthaser	9/8/06	9/8/06
Replace existing cable	B. Balthaser	11/06	
Obtain estimates for replacement of cable	B. Balthaser	10/06	9/29/06
Install Recording Volt Meter	Al Nerino	10/06	10/6/06
Determine cause for estimated bills	Marybeth Smialek	9/8/06	9/8/06

ATTACHMENT B2

Local Reliability Meeting Reports

Meetings Conducted Prior to the 3rd Quarter 2006

With Updated or Outstanding Action Items

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	Pine Twp. Planning Commission
Location:	230 Pearce Mill Road Wexford, Pa. 15090
Date/Time:	February 13, 2006 at 7:30 p.m.
Penn Power Circuit:	Richard Substation - Circuits D-743 & D-745
Penn Power Attendees:	Bart L. Spagnola, Area Manager Dave Wareham, Real Estate
Public Attendees:	P. Zvolio, M. Hansen, T. Smith, V. Zappa, J. Dennison and J. Lombardo - Planning Commission

Background / Issues

Dave Wareham, FE Real Estate, and I attended the February Pine Township Planning Commission meeting to present blueprints and design of our proposed Wexford Substation along Rt. 19. When we completed our presentation, the Chairman, P. Avolio, asked how this substation would affect the existing Richards Substation, which is 1.5 miles up the road. He mentioned that in the summer of 2005 the commercial district along Rt. 19 experienced outages that upset several businesses and residents in this area. We did see a few outages in this area as a result of trees coming down during storms. We also had one outage from equipment failure at the substation. I explained that this new substation will provide for the new growth coming to Pine Twp. and will reduce some of the load at the existing substation to improve reliability and provide power for additional growth at the southern end of the township. I also explained that from October through year-end 2005, Asplundh Tree Service cleared trees on both circuits 743 & 745 as part of the four-year Vegetation Maintenance Schedule. With tree clearing, equipment upgrades, circuit upgrades and the proposed new Wexford Substation, service reliability should improve in this area and provide for future growth. The commissioners asked several more questions before giving Penn Power tentative approval for the new substation. After the meeting the commissioners thanked us for the work completed in 2005 and the work scheduled in 2006 to improve reliability.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Circuit Tree Clearing	G. Urick, Penn Power Forestry		December 2005
Wexford Substation	J. Kaneski, FE Substation Manager	June '07	

Penn Power

Public Meeting Report

Meeting Information

Municipality/Group:	Lawrence Co. Commissioners and County Planner
Location:	430 Court Street - New Castle, Pa. 16101
Date/Time:	March 13, 2006 at 10:00 a.m.
Penn Power Circuit:	Y-194, Y-196 and Locust St (X-45 --23kv tap)
Penn Power Attendees:	Bart L. Spagnola, Area Manager
	David Wareham, Real Estate
Public Attendees:	Steven Craig, County Commissioner
	Edward Fosnaught, County Commissioner
	James Gagliano, County Planner

Background / Issues

This meeting was held at the Lawrence County Court House to discuss recent outages that have affected the North Hill urban area and the Downtown New Castle area, which includes the County Court House. The discussion centered on the length of outage time and what could be done to restore power more quickly. We have been working on a solution to shorten the length of outages in the downtown and North Hill areas. I explained that the three substations and their (10) distribution circuits in this area are currently on a transmission and sub-transmission radial. Our plan is to establish a 69 kV transmission "loop" on the west side of Penn Power's New Castle urban service area. The plan will complete the loop by closing the gap between Hillcrest Substation, Y-194 tap, and Grant Street Y-196 tap. We will be converting the Locust X-45 -- 23 kV tap to a 69 kV substation. This will allow us to switch and isolate trouble in the circuits during storms, unscheduled outages, and to restore power more quickly to a majority of the customers. The commissioners were pleased that the work is being done to upgrade and improve the system in and around the New Castle area.

Revised Work Schedule: All tree trimming on the circuits listed above has been completed. A recent review has shown improvement in reliability since the work was done. These circuits along with other circuits in the New Castle Area will be evaluated again later this year for future maintenance.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Engineering, if necessary	John Wittmann, Engineering Supervisor	2007	
Maintenance, if necessary	Jim Visingardi, Operations Manager	2007	

Penelec

Public Meeting Report

Meeting Information

Municipality/Group:	Millcreek Twp. / Erie - Amhurst Road Area
Location:	Millcreek Township Municipal Building
Date/Time:	November 10, 2005 at 6:00 p.m.
Penelec Circuit:	Rolling Meadows Amhurst URD Circuit 00513-31
Penelec Attendees:	Dan Heher Area Manager, Chuck Tillburg COC Manager and Marty Grzasko,Director of Customer Support
Public Attendees:	Approximately 75 Residents of the Amhurst Rd Subdivision

Background / Issues

Amhurst Road is fed with a 34.5 kV URD Distribution system. The Customers have experienced a number of prolonged outages. Improvements were made to the system in 2002 by adding new electrical feeds to the area. As a result the electrical feed to these customers was greatly improved. However, in 2005 outages began to occur again, creating the need for reliability improvements.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Replace main line URD feed along Amhurst Road.	Engineering & Line	4Q '06	

Penelec

Public Meeting Report

Meeting Information

Municipality/Group:	Port Allegany Borough
Location:	Port Allegany Borough
Date/Time:	November 17, 2005
Penelec Circuit:	Eldred Circuit (2 Mile - sub)
Penelec Attendees:	Russell Van Horn
Public Attendees:	Representative. Martin Causer, Borough Manager - Richard Kallenborn, James Kaminsky, Arch Klein

Background / Issues

During the first quarter of 2005 customers and borough officials expressed concerns about momentary and extended outages. The borough also had concerns about poor communication and access to the Call Center.

As a direct result of these issues Bill Dale and engineering personnel inspected the entire Eldred circuit out of our Two-Mile substation with the initiative to address and correct the above concerns. As a result, the following work was completed and reviewed with the attendees:

- All cutouts on the circuit were replaced.
- Spurs were fused.
- Insulators and cross arms replaced as needed.
- A radio-controlled vacuum switch was installed roughly in the middle of the circuit.
- The municipal toll free number was reviewed and discussed with respect to answering priority as well as the experience level of the agents.

The engineering for this work and the required construction was completed in the 3rd quarter of 2005. It has been acknowledged and has addressed the issues originally expressed. Borough officials were satisfied with results of the meeting.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Follow-up meeting(s) with Mr. Kallenborn	R Van Horn	2Q '06 3Q '06	5/30/06 10/11/06

Penelec

Public Meeting Report

Meeting Information

Municipality/Group:	Customers served from the Sam Rea Sub
Location:	Altoona Penelec Office
Date/Time:	March 30, 2006 at 6:00 p.m.
Penelec Circuit:	31-71, 2,139 customers served 32-71, 652 customers served
Penelec Attendees:	Bob Chumrik, Theresa Heasley, Beverly Green, Rick Gunsallus, Clair Ciaverella
Public Attendees:	15 customers attended the meeting. Attendance sheet is available upon request.

Background / Issues

Circuit 31-71 is on the worst performing circuit list. Both circuits have had numerous outages and instantaneous interruptions due to the substation failure and circuit performance. Topics discussed were replacement and installation of insulators, cross arms fusing and pole replacement. The Osmose pole inspection program was discussed. Substation improvements included relaying upgrades, replaced main power transformer, and overall substation maintenance. The distribution tree trimming program was also reviewed. Letters were sent to each customer served from these circuits outlining the same information.

Penelec
A FirstEnergy Company

March 13, 2006

Dear Customer:

Penelec is aware of the concerns and inconvenience our customers experience with service interruptions. We would like to take this opportunity to share with you what actions and steps are being taken to improve reliability in your area.

Specific projects have been implemented to identify and correct problems related to your service. The circuit serving your area was patrolled by our engineering department and facilities not meeting our service level requirements have been identified for replacement or upgrade. The improvements include the installation of protection devices which will isolate the number of customers experiencing extended outages, and will keep the number of customers affected by service interruptions to a minimum. In addition these enhancements included pole and crossarm replacement along with the installation of insulators and lightning arresters.

Although there is always the possibility of electrical outages that are beyond our control, we are confident the line upgrades and improvements will strengthen our ability to respond to the outside influences that sometimes cause outages to our customers such as car pole accidents, adverse weather conditions and other such incidents.

On Thursday, March 30, 2006, at 6:00PM, we welcome you to join us at our Altoona Penelec office building to discuss the work we are undertaking to address your service reliability. Our office is located at 405 W. Plank Rd., Altoona, and the meeting will be held in our auditorium located at the front of the building. Our office complex is located directly across from the Giant Eagle store on W. Plank Rd. If you are unable to attend and would like more information please contact us at 949-6311 and leave your name and phone number and we will have a representative contact you. If you are interested in attending the meeting, please call 949-6311 to RSVP.

We appreciate the opportunity to serve your electric service needs and look forward to continuing to provide you with affordable reliable service.

Our Energy is Working for You

Sincerely,

Beverly M. Green
Area Manager

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Bob Shoop - pole to be replaced	Operations	5/1/06 New Date 10/06	
Mark Hileman - pull box needs repaired/replaced	Operations	5/15/06	5/11/06

MetEd

Public Meeting Report

Meeting Information

Municipality/Group:	Cornwall Boro, N. Cornwall Twp, and residents.
Location:	533 Zinns Mill Road
Date/Time:	October 17, 2005
MetEd Circuit:	780-2
MetEd Attendees:	Dan Logar
Public Attendees:	Priscilla Miller, Mr & Mrs Joe Schott, Rep Gingrich & Zug, State Sen Brightbill, Cornwall Boro, and N. Cornwall Twp officials.

Background / Issues

The 780-2 circuit originates from the Broad Street substation. Load growth on the circuit is causing overload concerns. The solution is to reactivate the North Cornwall substation near 533 Zinns Mill Road. The meetings were for residents near the substation property and elected officials.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Complete installation of the Substation	Greg Gillotti	4Q '06	

MetEd

Public Meeting Report

Meeting Information

Municipality/Group:	Several Residential Customers
Location:	Red Lion, York County
Date/Time:	Various Correspondence
MetEd Circuit:	Windsor and School Lane Substations
MetEd Attendees:	Ernie Waters, Area Manager; James Sarver, Engineer
Public Attendees:	Customers in the Red Lions Area: Howard Supplee, James Gibbs, Linda Smith, John Leber, Richard Jackson, Deb Taylor, Richard Ruff, Chris Anderson, Lamar Frey, Josephine Witman, David Humberd

Background / Issues

A sporadic, fluttering lights condition was persisting for customers in the Red Lion area. Met-Ed purchased special equipment to detect the source of the problem. The source was traced to a commercial/industrial customer and multiple pieces of equipment utilized within that customer's facility. The customer's Static VAR Compensator at their plant was inoperable. Met-Ed is assisting the customer in engaging outside expertise to repair the Static VAR Compensator.

Met-Ed initiated a group meeting of customers affected by this issue to discuss the effort being taken by the commercial/industrial customer with the assistance of Met-Ed. This group informally elected to be represented by one representative – namely Mr. Humberd.

We performed the following follow-up communication: voice message (early May), letter (mailed to each customer on May 11th), and verbal communication with Mr. Humberd (June 29th).

Met-Ed met with the specific commercial/industrial customer that is the source of the problem on September 22 and will continue to meet with them until the issue has been corrected.

Action Plan

Item:	Assigned To:	Date Due:	Date Completed:
Met-Ed will continue to communicate progress	Ernie Waters	Ongoing	