

Paul E. Russell
Associate General Counsel

PPL
Two North Ninth Street
Allentown, PA 18101-1179
Tel. 610.774.4254 Fax 610.774.6726
perussell@pplweb.com



FEDERAL EXPRESS

July 30, 2010

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

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Re: PPL Electric Utilities Corporation
Quarterly Reliability Report for the
Period Ended June 30, 2010
Docket No. L-00030161**

Dear Ms. Chiavetta:

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 June 30, 2010. 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 July 30, 2010, 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.

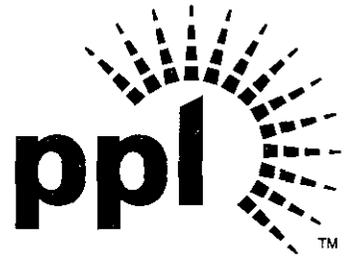
If you have any questions regarding this document, please call me or Joseph M. Kleha, PPL Electric's Manager-Regulatory Compliance and Rates at (610) 774-4486.

Very truly yours,

Paul E. Russell

Enclosures

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



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

July 2010

- 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 events during this quarter that met the criteria for a major event.

- 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 June 30, 2010.

SAIFI (Benchmark = 0.98; Rolling 12-month Std. = 1.18)	0.964
CAIDI (Benchmark = 145; Rolling 12-month Std. = 174)	136
SAIDI (Benchmark = 142; Rolling 12-month Std. = 205)	131
MAIFI¹	4.758
Average Number of Customers Served²	1,383,765
Number of Sustained Customer Interruptions (Trouble Cases)	19,147
Number of Customers Affected³	1,334,173
Customer Minutes of Interruptions	180,850,374
Number of Customer Momentary Interruptions	6,583,377

During the 2nd quarter, there were four (4) PUC-reportable storms ($\geq 2,500$ customers interrupted for ≥ 6 hours) and six (6)⁴ other storms that required the opening of one or more area emergency centers to manage restoration efforts. Current storm experience remains high compared to historical norms.

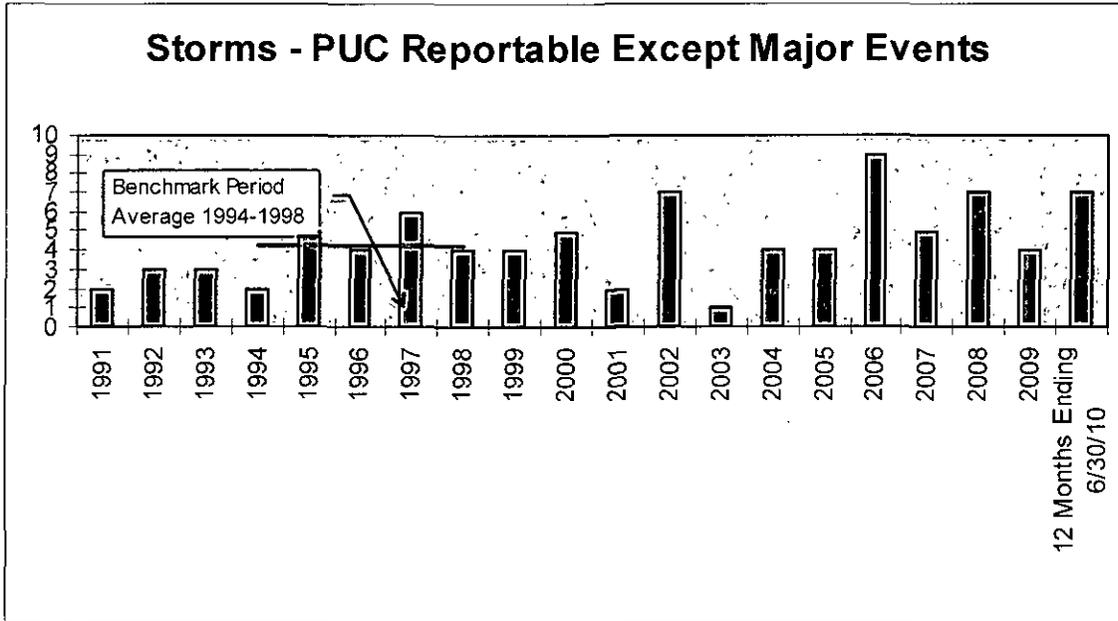
¹ MAIFI data is obtained at the substation breaker and does not include momentary interruptions at lower level devices.

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

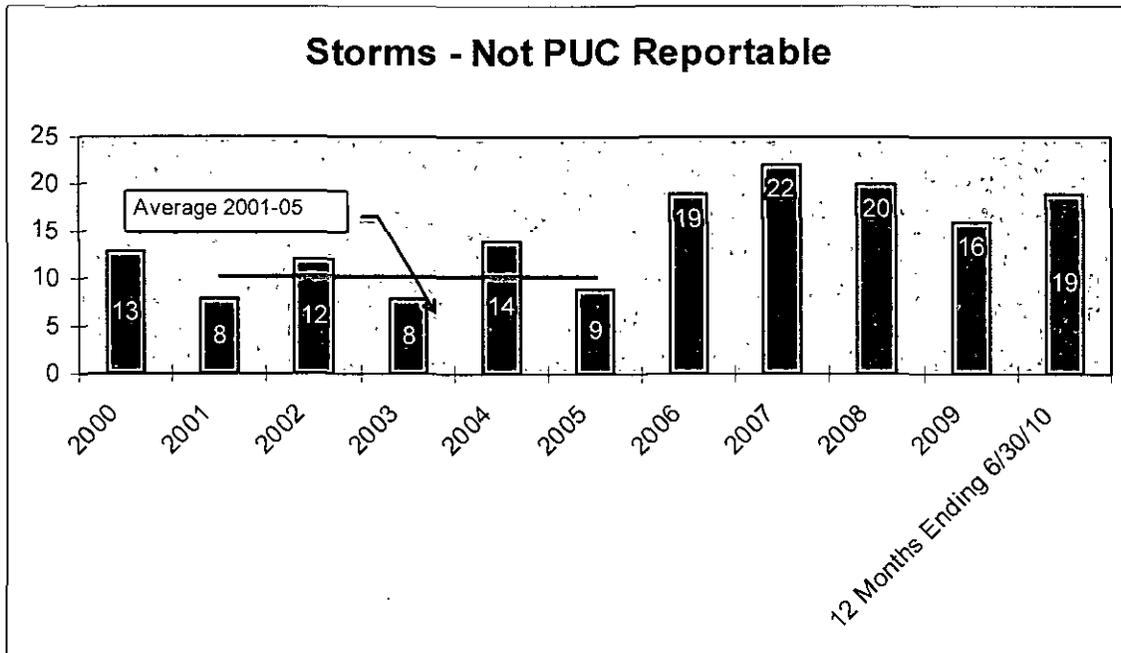
³ The data reflects the number of customers interrupted for each interruption event summed for all events, also known as customer interruptions. If a customer is affected by three separate cases of trouble, that customer represents three customer interruptions, but only one customer interrupted.

⁴ In addition, there was one non-storm related reportable event on June 1, 2010.

Specifically, during the 12-month reporting period, there were seven (7) PUC-reportable storms ($\geq 2,500$ customers interrupted for ≥ 6 hours) other than major events.



In addition, there were nineteen (19) storms that were not reportable, but which did require the opening of one or more area emergency centers to manage restoration efforts. This is 46% higher than the average of 10.2 storms per year for the five years from 2001 through 2005.



- 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 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	17002	5.63	240	1353	5.01	1280	43	1,731,535	1204
2	17001	4.43	409	1814	3.01	1500	65	2,721,347	1125
3	60904	4.97	146	723	6.85	1847	21	1,334,692	990
4	10903	6.24	116	722	3.01	2019	58	1,457,734	913
5	51804	6.96	93	650	3.99	1020	20	663,216	893
6	44001	1.77	1226	2166	0.00	133	4	288,082	838
7	12501	6.12	82	502	3.06	1515	9	760,866	814
8	22602	5.05	129	652	8.11	1511	59	985,487	808
9	63201	3.44	319	1097	15.69	1635	36	1,794,055	799
10	63403	3.78	236	892	14.18	870	22	776,189	746
11	27101	4.43	120	533	0.00	2696	92	1,437,722	729
12	54701	2.52	165	415	2.81	1833	31	760,589	709
13	26001	4.20	174	730	3.05	1331	74	971,659	703
14	43106	3.50	293	1027	1.15	350	14	359,521	686
15	46502	4.26	93	396	13.00	1011	13	400,248	677
16	22901	4.22	25	107	3.04	2237	13	238,277	653
17	42401	2.32	362	838	0.00	732	14	613,713	647
18	43705	3.12	290	905	4.68	1372	36	1,241,343	645
19	57403	3.57	151	539	12.09	1461	45	787,227	644
20	60902	4.63	63	291	11.96	475	25	138,056	641
21	22002	3.68	191	704	3.01	1386	63	975,390	633
22	24401	3.51	157	549	18.76	2028	60	1,113,961	632
23	23102	3.25	132	428	1.00	1672	34	716,139	585
24	13603	1.67	833	1395	1.00	535	15	746,221	573
25	44101	3.03	328	995	0.00	33	4	32,843	556
26	25501	4.21	104	438	13.26	1622	75	710,922	549
27	58006	3.69	119	437	10.96	1046	15	457,621	542
28	13905	2.69	131	352	3.11	1780	33	626,585	541

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
29	45501	2.00	416	833	0.00	1430	50	1,191,851	525
30	66203	3.64	48	176	7.01	956	16	168,462	524
31	46702	2.61	269	700	0.10	1275	59	892,267	523
32	55507	4.05	67	270	0.00	1652	13	446,066	518
33	47704	2.23	283	630	5.05	717	28	452,044	508
34	22406	6.88	115	791	5.00	941	19	744,023	493
35	16101	2.19	364	796	7.01	2354	122	1,874,695	477
36	41002	2.96	208	617	0.00	1256	59	774,356	476
37	55001	5.92	70	413	4.00	1265	67	522,562	475
38	16402	3.87	97	376	5.10	996	46	374,054	475
39	56501	2.45	203	499	9.05	2355	32	1,175,102	472
40	64903	3.86	75	288	4.04	1090	20	313,813	469
41	16401	3.69	98	361	2.00	670	37	241,695	467
42	46506	3.12	134	417	11.86	1628	36	679,213	462
43	60604	3.72	98	365	5.01	329	11	119,958	461
44	18501	3.04	145	443	1.01	1714	41	758,464	459
45	41701	3.19	158	504	0.00	984	41	495,645	457
46	11001	2.66	152	405	5.01	864	33	349,867	452
47	43202	3.47	91	315	1.00	2102	57	662,685	446
48	43102	2.45	242	595	0.00	969	25	576,191	437
49	10901	3.67	91	332	5.02	680	30	226,047	436
50	40201	2.34	294	686	6.00	1624	63	1,113,874	433
51	46701	2.15	219	469	0.00	707	22	331,683	428
52	45502	1.79	383	686	0.00	623	26	427,206	418
53	12601	3.69	103	381	11.03	1958	41	745,265	418
54	42101	2.77	207	573	1.46	13	4	7,446	410
55	10803	2.97	193	573	9.00	64	9	36,670	409
56	13606	2.16	206	445	3.13	2300	42	1,023,922	405

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 which occurred during the time span to determine if there are causal patterns or geographic patterns for which corrective actions are feasible that 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: 17002 RIDGE ROAD 70-02			Location: Bethlehem
				CPI: 1204
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Inconclusive. Monitor future performance. The circuit breaker was interrupted twice in the past year, once due to a vehicle pole hit and once due to a transmission outage.
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/12/2009	Inconclusive. Monitor future performance. This circuit experienced three breaker outages within the past year due to vegetation. Two of these were due to transmission events.
	5/25/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	The SAIDI component was the greatest contributor to the CPI. A tree-related outage during a March storm led to the circuit breaker being interrupted for 2,564 minutes. This resulted in 983,320 CMI. Outages on nearby lines left customers unable to be transferred.
	5/25/2010: Install animal guard(s). Install animal guards on a development of 84 CEMI customers.	Scheduled for	10/1/2010	
2	Circuit ID: 17001 RIDGE ROAD 70-01			Location: Bethlehem
				CPI: 1125
	1/4/2008: Improve sectionalizing capability.	Completed	9/30/2009	Reduced customer count affected by each outage.
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	This circuit experienced several long-duration tree outages in the winter. The circuit was trimmed during the following summer.
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/12/2009	Inconclusive. Monitor future performance. The CEMI>3 component was the greatest contributor to the CPI. The primary cause for interruptions was trees from outside of our trimming right of way.
	5/24/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	The SAIDI component was the greatest contributor to the CPI. A tree-related outage during a March storm led to the circuit breaker being interrupted for 2,099 minutes. This resulted in 2,162,010 CMI. Outages on nearby lines left customers unable to be transferred.
	5/24/2010: Reconductor line. Reconductor a single phase section of line serving 74 CEMI customers with tree wire.	Scheduled for	12/31/2011	
	5/24/2010: Install tie. Build a tie between Ridge Road 70-1 and Richland 36-6 to create an auto transfer scheme to mitigate the effects of breaker operations.	Scheduled for	12/31/2011	
	5/25/2010: Install animal guard(s). Install animal guards on a portion of the line with significant animal outage history.	Scheduled for	12/31/2010	

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Rank	Action	Status	Due/Complete	Result
3 Circuit ID: 60904 DONEGAL 09-04				Location: Lancaster
				CPI: 990
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	Inconclusive. Monitor future performance. SAIDI was 35% of the CPI score. The majority of the outages were due to Trees, Not Trimming Related. The circuit was last trimmed in 2003. The outage that contributed the greatest to the CMI occurred on 6/24 due to a server wind storm, causing trees to fall into the primary electric lines. The CMI for that one outage was 490,871, or 63% of the total over the last 12 months.
	7/23/2010: Line inspection-equipment. Line Inspection to be performed on 2 & 3 phase line sections	Completed	5/19/2010	Multiple WR's initiated for follow-up work
	7/23/2010: Perform line maintenance identified by line inspection. WR's 584318 (Pole), 584319 (Arms) and 584322 (Minor Maint) Initiated as a result of Line Inspection	Scheduled for	12/31/2010	Reduced outage risk.
	7/23/2010: Reconductor line. WR 587967 initiated to reconductor/rebuild existing double circuit section of Donegal 09-2 & 09-4.	Scheduled for	12/30/2011	Reduced outage risk.
4 Circuit ID: 10903 COOPERSBURG 09-03				Location: Bethlehem
				CPI: 913
	7/28/2010: Load balancing. Balance load to provide better transferability.	Scheduled for	9/15/2010	
	7/28/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	The CEMI>3 component was the greatest contributor to the CPI. Six breaker outages have occurred in the past 12 months, including three tree-related outages. A transmission interruption, animal contact, and equipment failure have also each contributed to a breaker outage.
	7/28/2010: Circuit outage data analysis. Review for possible line protection addition to limit the number of customers affected by an interruption.	Scheduled for	12/31/2010	
5 Circuit ID: 51804 EBENEZER 18-04				Location: Harrisburg
				CPI: 893
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/12/2010	Inconclusive. Monitor future performance. Major contributing outage when Rutherford 76-02 line transferred to it. Numerous contributing factors to this extended outage that field has addressed. Expected to fall off list when this outage falls off.

Rank	Action	Status	Due/Complete	Result	
6	Circuit ID: 44001 W. PENN (LOBO) SOURCE 40-01			Location: Susquehanna	CPI: 838
	1/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	Inconclusive. Monitor future performance. This circuit is in a service territory borderline area whose source is another utility. This is categorized as a worst performer because of the significant storm damage the Non-PPL facilities sustained during an October 16, 2009 weather event. PPL customers remained out of service until the source utility's substation was restored. This line is completely radial and in a rural area.	
	Improve sectionalizing capability. Review line and design WR for sectionalizing enhancements - solid blade disconnects and fault indicators.	Scheduled for	4/29/2011		
7	Circuit ID: 12501 MINSI TRAIL 25-01			Location: Bethlehem	CPI: 814
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/12/2009	Inconclusive. Monitor future performance. Four breaker trips between February and August 2009 caused this circuit to be on the WPC list. Over 1,500 customers experienced at least 4 outages. This circuit has not had a history of frequent breaker outages. This is a short circuit with multiple ties.	
	7/28/2010: Install 3 phase OCR to sectionalize the customer count in half and limit the circuit breaker's exposure.	Scheduled for	10/1/2010		
8	Circuit ID: 22602 KIMBLES 26-02			Location: Pocono	CPI: 808
	4/15/2009: Investigate relocating poles 71347N49205 and 71358N49195. Both of these poles recieved vehicle hits in 2008 which caused breaker outages.	Completed	4/27/2009	Inconclusive. Monitor future performance. Relocation is possible, will monitor for future pole hits.	
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Three breaker outages in 2008 caused by two vehicle hits and one tree related outage significantly contributed to the CPI for this circuit. Customers experiencing more than 3 outages was the biggest contributor to the CPI.	
	1/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/31/2010	High CPI of this circuit is because of 2 large OCR outages caused by trees outside of the right-of-way and a transmission outage due to a failed switch (the switch was replaced).	
9	Circuit ID: 63201 MORGANTOWN 32-01			Location: Lancaster East	CPI: 799
	5/19/2008: Perform line maintenance identified by line inspection. LMI inspection performed on 2 phase and 3 phase line - 12.5 miles total	Completed	12/31/2008	Reduced outage risk.	
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
	7/23/2010: Reconductor line. WR 582710 Initiated to Reconductor Section of 32-1 Line (#2 Cu)	Scheduled for	12/30/2011	Reduced outage risk.	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
10	Circuit ID: 63403 HONEYBROOK 34-03			Location: Lancaster East	CPI: 746
	3/30/2008: Line inspection-equipment. LMI inspection performed on 2 phase and 3 phase line - 18 miles total. Repair damaged down-ground, blown lightning arresters & bad crossarm, and broken cross-arm brace	Completed	6/1/2009	Reduced outage risk.	
	7/3/2008: Line inspection-equipment. Replace 63 failing insulators on 34 pole locations	Completed	1/9/2009	Reduced outage risk.	
	5/8/2009: Install fuse(s). Install tap fuse @ 52054s28292 and 51787s28578	Completed	7/7/2009	Reduced customer count affected by each outage.	
	5/8/2009: Line inspection-equipment. Replace C-tagged pole @ 52431s28593	Completed	9/10/2009	Reduced outage risk.	
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	6/30/2010	Inconclusive. Monitor future performance. SAIDI was 21% of the CPI score. The number of cases greater than 3 was 47% of the overall CPI score. The majority of those outages were due to Equipment Failures. The one single outage that contributed the greatest to the 12 month CMI occurred on 5/31 due to a severe wind storm, causing some equipment to fail. The CMI for that one outage was 821,036, or 61% of the total CMI over the last 12 months.	
11	Circuit ID: 27101 GREENFIELD 71-01			Location: Scranton	CPI: 729
	4/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2009	Inconclusive. Monitor future performance. A breaker outage occurred in Q3 2009 due to an animal contact at the substation. There have been 3 large OCR outages, 2 of which were caused by trees outside the ROW and one of which was caused by a failed insulator.	
	1/14/2010: Relocate inaccessible line. Investigate relocating inaccessible 3 phase section of line.	Completed	3/31/2010	Could not justify project due to lack of outages on the section of inaccessible line.	
12	Circuit ID: 54701 NEW BLOOMFIELD 47-01			Location: West Shore	CPI: 709
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	New 12 kV distribution line from a new substation. The recloser at the substation failed shortly after being put in service. This was a pre-mature failure to new equipment. If this did not occur this would not be a WPC. Monitoring future performance.	
13	Circuit ID: 26001 WEST DAMASCUS 60-01			Location: Pocono	CPI: 703
	11/22/2005: Monitor future performance.	Completed	11/30/2008	Circuit has been off WPC for 6 quarters.	
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Inconclusive. Monitor future performance. Many small long duration outages during storms in June and October 2008 significantly contributed to the CPI for this circuit. 500,000 customer minutes were lost during Q4 of 2008.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2009	This circuit experienced a circuit breaker outage during Q3 due to a vehicle hitting a pole. This circuit has had many long duration outages due to the remote location of the circuit.	

Rank	Action	Status	Due/Complete	Result	
14	Circuit ID: 43106 SOUTH MILTON 31-06			Location: Sunbury	CPI: 686
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list. Discuss at WPC Meeting	Completed	11/6/2008	Inconclusive. Monitor future performance. The 31-06 circuit is categorized as a worst performing circuit due to its contribution to the System SAIDI and outages exceeding 4 hours in duration. During the last 12 months, the highest profile outage was caused by a failed terminator that interrupted the breaker for over 4 hours. Another outage caused by trees off the right-of-way interrupted the breaker for over 3 hours. This is generally not a poor performing circuit and is expected to drop off this list within the next quarter or two.	
	11/25/2008: Relocate inaccessible line. Build accessible tie from adjacent circuit to serve 53 customers in a development that has been interrupted several times in 2008.	Completed	11/27/2009	Reduced outage risk.	
	12/5/2008: Expanded Operational Review. Voltage profile completed.	Completed	12/1/2009	Identified location to install fuse.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2009	The South Milton 31-06 feeder was discussed at Susquehanna Region's WPC meeting on 12/1/09. This circuit is categorized as a worst performer due its high contribution to SAIDI. One breaker outage occurred on April 29 when a transformer fuse failed. Eight other outages occurred during an August 9 wind storm, including an interruption of the circuit breaker at the substation. This single event is the primary driver for this circuit to be on the WPC list. Key improvement initiatives on this line include the relocation of an inaccessible, high risk section of line. In 2009, animal guard was installed at all transformer locations in Milton Boro.	
15	Circuit ID: 46502 LOCK HAVEN 65-02			Location: Susquehanna	CPI: 677
	1/1/2008: Expanded Operational Review.	Completed	12/31/2008	no reliability issues identified. Phase balance WR written	
	Load balancing. change 1ph tap as result of EOR	Completed	5/28/2009	Reduced outage risk.	
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
16	Circuit ID: 22901 HARWOOD 29-01			Location: Central	CPI: 653
	Expanded Operational Review.	EOR planned	12/31/2010		
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
17	Circuit ID: 42401 GIRARD MANOR 24-01			Location: Central	CPI: 647
	2/13/2009: Expanded Operational Review.	Completed	5/12/2009	Identified locations to install 5 fault indicators and 1 tap fuse.	
	5/12/2009: Install 5 fault indicators to identify faults in inaccessible portions of the line.	Completed	11/18/2009	Reduced outage duration.	
	5/12/2009: Install fuse(s). Install single phase tap fuse to reduce exposure risk.	Completed	12/2/2009	Reduced customer count affected by each outage.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2009	SAIDI was 34% of the CPI score. The majority of the outages were due to trees, not trimming related. Last tree trimming on this feeder was completed in 2005. The two largest outages contributing to CMI were to due a sectionalizer misoperating.	
	4/12/2010: Install sectionalizers. Replace sectionalizer that has misoperated with an electronic sectionalizer.	Completed	3/5/2010	Reduced outage risk. Since the installation of the electronic sectionalizer, there have been no misoperations. Continue to monitor future performance of the sectionalizer.	
18	Circuit ID: 43705 WILLIAMSPORT 37-05			Location: Susquehanna	CPI: 645
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2009	The Williamsport #5 circuit was discussed at Susquehanna Region's Quarterly WPC meeting on 12/1/09. This circuit is a WPC due to its high SAIDI contribution and outages longer than 4 hrs in duration. This circuit was severely affected by a summer wind storm on August 9. It is generally not a worst performer but two major improvement initiatives are planned, including a full line and equipment inspection in 2010 and a new OCR to better sectionalize the circuit (see separate entries in database).	
	12/1/2009: Line inspection-equipment.	Scheduled for	12/30/2010		
	12/1/2009: Install new OCR	Scheduled for	12/30/2010		
	Thermographic inspection-OH line. No repairs identified.	Completed	3/31/2010	5 miles of three-phase and two-phase inspected. No repairs identified.	
19	Circuit ID: 57403 SPANGLER 74-03			Location: West Shore	CPI: 644
	Circuit outage data analysis - WPC not on preceding qtr. list. Trees outside right of way, during small storms, major contributing factor.	Completed	5/31/2010	Inconclusive. Monitor future performance.	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
20	Circuit ID: 60902 DONEGAL 09-02			Location: Lancaster
				CPI: 641
	Expanded Operational Review. Reliability Analysis Completed 1/24/08 Voltage Profile completed 11/12/08	Completed	12/31/2008	No reliability work requests needed
	7/12/2010: Circuit outage data analysis - WPC not on preceding qtr. list. First time this circuit was ever on the WPC list. Evaluating the addition of Remote Operator Controlled Switched to automate the tie switch at 33149S29086. Investigated the circuit breaker outages to determine if the circuit breaker should be replaced. LMI will perform a patrol of the circuit especially looking at the double circuit construction. Outages due to poor double circuit configuration.	Completed	3/26/2010	Reduced outage duration. Decision was made to install a ROCS unit on pole 49/86. No issues were found with the circuit breaker. The line was added to the patrol schedule. Engineering to have a technician look at the double circuit slack-span issues along Anderson Ferry/Rte 772.
	7/12/2010: Improve sectionalizing capability. A remotely controlled motor operator will be added to existing tie Load Break Air Switch on pole 33149s29086 under Work Request 583477.	Scheduled for	12/31/2011	Reduced outage duration.
	7/12/2010: Line inspection-equipment. The substation circuit breaker issues were investigated on March 23rd by the Substation Maintenance group.	Completed	3/23/2010	Reduced outage risk. No problems were found, although the decision was made to replace the breaker in 2014 due to its age.
	7/23/2010: Line inspection-equipment. The line will be patrolled and inspected.	Completed	5/14/2010	Reduced outage risk. Multiple WR's initiated to complete follow-up work identified.
	Install 3 phase OCR(s).	Scheduled for	5/30/2011	
	7/23/2010: Improve sectionalizing capability. Replace the 09-2 CB	Scheduled for	12/31/2014	Reduced outage risk.
	7/23/2010: Reconductor line. WR 587967 initiated to reconductor/rebuild existing double circuit section of Donegal 09-2 & 09-4.	Scheduled for	12/30/2011	Reduced outage risk.
	7/23/2010: Perform line maintenance identified by line inspection. WR's 583074 (Pole), 583510 (Arms), 583511 (Minor Maint), 583922 (Pole), 583923 (Pole), 583925 (Pole) and 583927 (Pole) initiated to complete follow-up from completed line inspection.	Scheduled for	12/31/2010	Reduced outage risk.
21	Circuit ID: 22002 BOHEMIA 20-02			Location: Pocono
				CPI: 633
	1/15/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/31/2010	A tree outage on 12/3/09, not related to trimming locked out A phase OCR effecting 89 customers. An outage on 12/29/09 caused by a failed PBAB switch on the transmission source (Blooming Grove-West Damascus line) to Bohemia resulted in 1389 Bohemia customer's being interrupted for 1 hr-4 hours.
	4/26/2010: Install tie. SP 33608 build tie from Bohemia 20-2 to Twin Lakes 81-2	Scheduled for	11/30/2012	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
22	Circuit ID: 24401 TINKER 44-01			Location: Pocono CPI: 632
	11/23/2005: Tree trimming. Reliability preservation work to remove a portion of line.	Completed	2/28/2009	Reduced outage risk.
	1/2/2007: Install 3 phase OCR(s).	Completed	5/31/2009	Reduced customer count affected by each outage. Current sectionalizing sufficient
	7/14/2009: Improve sectionalizing capability.	Completed	1/21/2009	Reduced outage duration. ROCS devices were installed at 62333N54790 and 62389N54790. Telemetric controls were added to OCR 61820N57144
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Inconclusive. Monitor future performance. Two breaker outages and three large OCR outages significantly contributed to the CPI for this circuit. Over 800 customers experienced five outages in 2008. Almost 1 million customer minutes were lost in Q4 2008.
	Monitor future performance.	Completed	2/28/2009	Circuit performance has improved substantially in Q1 and Q2 of 2009
23	Circuit ID: 23102 MOSCOW 31-02			Location: Scranton CPI: 585
	1/19/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Reduced outage risk. A long duration breaker and OCR outage during the October 2008 snowstorm significantly contributed to the CPI for this circuit. Over 3 million customer minutes were lost during October 2008 snowstorm. Two large OCR outages in previous quarters also contributed to the CPI for this circuit.
	4/16/2009: Investigate additional sectionalizing on the circuit.	Completed	4/30/2009	No additional locations for sectionalizing were found.
	7/13/2009: Monitor future performance.	Ongoing		This circuit experienced no major outages in Q1 and Q2 2009.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	
24	Circuit ID: 13603 RICHLAND 36-03			Location: Bethlehem CPI: 573
	7/28/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	The SAIDI component was the greatest contributor to the CPI. Two long-duration tree outages during a March storm led to 454 customers being interrupted for over 850 minutes. Another tree-related outage during a May storm led to 298 customers being interrupted for 1,166 minutes. All three vegetation interruptions were caused by trees from outside our trimming right of way.
25	Circuit ID: 44101 PENN ELEC 41-01			Location: Sunbury CPI: 556
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	6/7/2010	Inconclusive. Monitor future performance. This circuit was reviewed at Susquehanna Region's WPC meeting on 6/7/10. This line is fed by a source from Penelec, serving customers in a rural area. Over the last 12 months there was a total of five outages, three of which affected all 33 customers fed from this line. This line will be monitored for future performance as it has typically been affected during bad weather.

Rank	Action	Status	Due/Complete	Result	
26	Circuit ID: 25501 MADISONVILLE 55-01			Location: Pocono	CPI: 549
	1/1/2008: Expanded Operational Review.	Completed	5/29/2009	Two single phase sections will be checked for overloads.	
	1/19/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Many long duration outages during storms in June, October, and December of 2008 significantly contributed to the CPI for this circuit. Two large customer count outages occurred in Q2 2008. Over 2.8 million customer minutes were lost during the storms in Q4 2008.	
	7/13/2009: Circuit outage data analysis.	Completed	7/13/2009	There was one circuit breaker outage in Q1 2009. Circuit performance has improved in Q1 and Q2 of 2009	
	1/14/2010: Install tie.	Completed	12/1/2009	Reduced customer count affected by each outage. New Jefferson substation went into service early December 2009 reducing the amount of customers and line length of 2-55-01 (Madisonville Sub)	
	Improve sectionalizing capability. Investigate the possibility of adding sectionalizing devices to the circuits ie. ROCS and telemetric OCR's to reduce duration and number of customers effected by an outage.	Scheduled for	8/31/2010		
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
27	Circuit ID: 58006 WEST CARLISLE 80-06			Location: West Shore	CPI: 542
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/6/2008	Inconclusive. Monitor future performance. Isolated incidents and expected to drop off WPC list.	
	3/17/2009: Expanded Operational Review. Reliability Review Completed 8/10/09. Voltage Profile Completed 7/10/09.	Completed	10/30/2009	Inconclusive. Monitor future performance.	
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
28	Circuit ID: 13905 SEIDERSVILLE 39-05			Location: Bethlehem	CPI: 541
	7/23/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		

Rank	Action	Status	Due/Complete	Result
29	Circuit ID: 45501 DERRY 55-01			Location: Sunbury
				CPI: 525
	1/16/2009: Expanded Operational Review.	Completed	12/31/2009	No longer among 5% worst performing circuits.
	1/6/2009: Line inspection-equipment. Inspect OH line from OCR 28328N34657.	Completed	2/20/2009	Reduced outage risk. Identified locations with animal guard needed, two bad pole tops, and a possible 1 phase relocation.
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	Reduced outage risk. The Derry 55-01 circuit was discussed at Susquehanna Region's WPC meeting on March 4, 2010. This line is categorized as WPC because of its large contribution to System SAIDI and customers experiencing outages in excess of 4 hours. This can be attributed to a single transmission outage that occurred on December 10, 2009. Loss of the 69kV Source to Derry left the entire station out of power. The Derry #1 is entirely radial with no 12 kV ties available. The line remained out until the transmission problem could be addressed.
	12/15/2009: Install tie. Revisit feasibility/justification of tie with Watson #4 and resubmit to planning.	Scheduled for	11/30/2012	
30	Circuit ID: 66203 SPRINGS 62-03			Location: Lancaster
				CPI: 524
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	
	7/23/2010: Line inspection-equipment. Inspect 2 & 3 phase line sections in advance of scheduled inspection in 2011.	Completed	7/19/2010	Follow-up WR's initiated
	7/23/2010: Perform line maintenance identified by line inspection. WR's 595253 (Arms) and 595256 (Minor Maint) initiated to complete follow-up work from line patrol	Scheduled for	12/31/2010	Reduced outage risk.
	7/23/2010: Improve sectionalizing capability. WR 573052 initiated to replace recloser that failed to reclose.	Completed	4/29/2010	Reduced outage risk.
	7/23/2010: Improve sectionalizing capability. Scheduled Replacement of Substation CB	Scheduled for	12/31/2012	Reduced outage risk.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
31	Circuit ID: 46702 RENOVO 67-02			Location: Susquehanna
				CPI: 523
	Expanded Operational Review.	Completed	12/31/2009	Identified new fusing and animal guard locations.
	12/18/2008: Line inspection-equipment.	Completed	1/30/2009	Two high priority items found.
	4/8/2009: Perform line maintenance identified by line inspection. Repair damaged conductor on Young Woman's Creek Tap (WR 499544)	Completed	5/1/2009	Reduced outage risk.
	7/10/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/25/2009	Inconclusive. Monitor future performance. The Renovo 67-02 circuit was discussed at Susquehanna Region's 2009 Q2 Worst Performing Circuits meeting on August 25, 2009. This circuit is a worst performer due to its high SAIDI contribution. The entire feeder was interrupted twice during the last 4 quarters: in December due to a structure fire (line de-energized for firefighter safety) and once in February during a rain storm. The August 2009 storm may perpetuate this line being categorized as a WPC. There is one area on this circuit that has been subject to multiple interruptions (Young Woman's Creek) and will be considered in 2010 for hazard tree removals.
	1/4/2010: Install animal guard(s). Install 32 Animal Guards along Young Womans Creek Rd	Completed	12/15/2009	Reduced outage risk.
	1/4/2010: Add Capacitors. Add 600kVAR to existing bank on Huron Ave in Renovo.	Completed	3/31/2010	Voitage Support
	Install fuse(s). Install 2 fuses on Renovo Rd.	Completed	3/31/2010	Reduced customer count affected by each outage.
	Install fuse(s). Install 4 fuses along Young Womans Creek Rd.	Completed	1/20/2010	Reduced customer count affected by each outage.
	Install fuse(s). Install 8 fuses in Renovo Boro.	Completed	5/5/2010	Reduced customer count affected by each outage.
	7/6/2010: Install fuse(s).	Canceled	4/27/2010	Reduced customer count affected by each outage.
	Thermographic inspection-OH line.	Completed	3/31/2010	6.7 miles of three-phase and 9.5 miles of two-phase were inspected. No repairs identified.
	32			Location: Harrisburg
				CPI: 518
	Replace hot secondary connection	Canceled	12/31/2008	Inconclusive. Monitor future performance.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
33	Circuit ID: 47704 BLOOMSBURG 77-04			Location: Sunbury
				CPI: 508
	4/30/2008: Install 3 phase OCR(s). Replace existing OCR with single pole tripping recloser at grid 35204N31678. WR number is 420353.	Scheduled for	8/31/2010	Reduced customer count affected by each outage.
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/6/2008	Reduced outage risk. The 77-04 circuit was reviewed at the Susquehanna Region's WPC meeting on 11/6/08. The outage data and the associated reliability metrics for the last 4 quarters were reviewed. The Bloomsburg #4 circuit is categorized as a worst performing circuit due to its contribution to the system SAIDI and the number of customers experiencing a long duration outage. This circuit was heavily impacted during the June 10 storm. This is expected to remain a WPC until the Q2 2008 data drops out of the CPI calculation. There is one large reliability project in engineering to relocate a portion of the line away from a steep wooded Cliffsides. A project to extend this circuit to tie with the Bloomsburg #3 is in the 5-year budget horizon.
	1/16/2009: Expanded Operational Review.	Completed	12/31/2009	Reduced customer count affected by each outage.
	4/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/26/2009	Inconclusive. Monitor future performance. The 77-04 circuit was reviewed at the Susquehanna Region's WPC meeting on 5/26/09. The outage data and the associated reliability metrics for the last 4 quarters were reviewed. The Bloomsburg #4 circuit is categorized as a worst performing circuit due to its contribution to the system SAIDI. This circuit was heavily impacted during the June 10 storm. This is expected to remain a WPC until the Q2 2008 data drops out of the CPI calculation. There are a number of projects, documented elsewhere in this database, that are planned for this line to improve its performance.
	2/4/2008: Install tie. Extend 3-phase along Millville Rd up to Rt 42 and Tie 77-04 with 77-03 line	Scheduled for	8/14/2011	
	Relocate inaccessible line. Relocate 3 phase line (WR 434431) along steep cliffside, subject to tree damage, to the roadside along Rte 42.	Completed	11/18/2009	Reduced outage risk.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	

Rank	Action	Status	Due/Complete	Result
34	Circuit ID: 22406 MORGAN 24-06			Location: Scranton
				CPI: 493
	1/1/2008: Expanded Operational Review.	Completed	8/8/2008	Reduced outage risk.
	7/9/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/15/2008	Three breaker outages occurred on 3/9/08, 6/2/08, 6/29/08. Additional OCR outages created a greater than 3 outage situation for many customers on the line.
	Circuit outage data analysis - WPC not on preceding qtr. list. Additional projects are being reviewed for inclusion of the budget to increase reliability.	Completed	4/27/2009	Inconclusive. Monitor future performance.
	Rebuild an inaccessible portion of 4/0 with 477 AL.	Scheduled for	11/29/2011	
	Pole inspection of inaccessible line section in grid block 533N492.	Completed	4/30/2009	Investigating the addition of Remote Operator Controlled Switches to sectionalize the inaccessible section.
	4/26/2010: Investigate the addition of Remote Operator Controlled Switches (ROCS) to sectionalize an inaccessible section.	Scheduled for	12/31/2010	
	4/16/2009: Investigate if the substation equipment has animal guards installed.	Completed	4/30/2009	Animal guards are installed at the substation.
	Monitor future performance.	Ongoing		High CPI caused by three breaker outages. Two occurred during Q2 2009, one due to a vehicle hit and one due to equipment failure. One breaker outage occurred in Q3 2009 and was caused by a animal contact at the substation. Circuit performance in Q1 2010 was good with no major outages.
35	Circuit ID: 16101 BINGEN 61-01			Location: Bethlehem
				CPI: 477
	Reconductor single phase line with XLP and stronger conductor.	Scheduled for	9/30/2010	Reduced outage risk.
	2/20/2007: Tree trimming. Install telemetrics on sectionalizing devices	Completed	12/31/2008	Reduced outage duration.
	7/9/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/15/2008	This circuit has experienced 4 significant outages since the third quarter of 2007. A pole hit interrupted 902 customers on 8/6/2007. A transmission outage interrupted 2325 customers on 12/23/2007. The transmission line was abnormally sectionalized and a tree limb caused the outage. A tree outage interrupted 280 customers on 5/27/2008. An equipment failure interrupted 2346 customers on 6/24/2008.
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2009	The SAIDI contribution to the circuit has the greatest impact on this circuit's performance. A new line will pick up about half the customers from this circuit and serve them from a different substation in May 2011.
	7/28/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	The SAIDI component was the greatest contributor to the CPI. Long-duration tree outages during a March storm led to over 1,324,620 CMI. Outages on nearby lines left customers unable to be transferred.
	7/28/2010: Install new line and terminal. A new line will pick up about half of the customers from this circuit and serve them from a different substation. This will also provide better transfer capabilities in the future.	Scheduled for	5/31/2011	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
36	Circuit ID: 41002 LAURELTON 10-02			Location: Sunbury
				CPI: 476
	3/31/2008: Monitor future performance.	Ongoing	12/31/2009	
	12/5/2008: Expanded Operational Review.	Completed	12/31/2009	Identified five locations to install animal guards. Identified location to install new OCR to improve sectionalizing.
	1/2/2009: Line inspection-equipment.	Completed	4/30/2009	Reduced outage risk. No major items found. 5-10 minor equipment issues identified and addressed.
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	This circuit was discussed at the Susquehanna Region WPC meeting on 3/4/10. The performance of this line was driven mainly by storm activity in the 4th Quarter of 2009. Two October 2009 events resulted in significant damage to electric facilities in this area. This line is being targeted for Asset Optimization in effort to relocate, reconductor, and/or eliminate #6 CWC primary conductors in high risk and inaccessible locations.
37	Circuit ID: 55001 NEWPORT 50-01			Location: West Shore
				CPI: 475
	Circuit outage data analysis - WPC not on preceding qtr. list. Monitoring future performance	Completed	11/30/2009	Inconclusive. Monitor future performance.
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2010	Three circuit breaker interruptions contributed to WPC status. These were isolated incidents and rectified. Improved performance expected.
38	Circuit ID: 16402 MOUNT POCONO 64-02			Location: Pocono
				CPI: 475
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2008	Over 400 customers experienced 4 or more outages due to varying reasons, from tree outside of the right of way to equipment failure to vehicle contact. In addition, several small outages had a long duration.
	4/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2009	Three breaker outages and a large OCR outage significantly contributed to the CPI of this circuit
	Circuit outage data analysis.	Completed	3/31/2010	The high CPI of this circuit is due to a breaker outage and five outages on an OCR with 400 customers. The breaker outage in Q1 2009 was due to a tree contact during a windstorm. Four of the OCR outages were caused by trees from outside the right-of-way contacting the line and one was a vehicle hit. Performance in Q1 2010 continues to be poor.
	4/26/2010: Improve sectionalizing capability. A project has been identified to change the normal open point with 56-04 line and automate switches/OCRs to minimize the number of customers involved in a outage	Scheduled for	11/30/2010	
	6/30/2010: Perform line maintenance identified by line inspection.	Scheduled for	12/31/2010	Circuit was inspected and a large amount of equipment known to be prone to failure will be replaced.
	6/30/2010: Tree trimming-selected line segments only (hot spots).	Scheduled for	12/31/2010	Line was inspected for tree clearance problems and hot spot trimming will be performed.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
39	Circuit ID: 56501 ROCKVILLE 65-01			Location: Harrisburg
				CPI: 472
	3/17/2009: Expanded Operational Review. Reliability Review Completed 7/22/09. Voltage Profile Completed 6/30/09.	Completed	12/31/2009	Inconclusive. Monitor future performance.
	Install fuse(s). Install 3 tap fuses	Completed	3/12/2010	Reduced customer count affected by each outage.
	3/17/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2010	Outage 413472 single phase outage had incorrect CMI. Reconductoring the single phase section under reliability preservation. Trimming to start this June. Created Work request to add sectionalizing. Thermovision scheduled.
	7/27/2010: Reconductor single phase line section.	Scheduled for	12/31/2011	
	7/27/2010: Add Sectionalizing - Telemetric Recloser	Scheduled for	12/31/2010	
	7/27/2010: Add Sectionalizing - Telemetric Switch	Scheduled for	12/31/2010	
	7/27/2010: Thermographic inspection-OH line.	Completed	3/31/2010	No hazard equipment found.
	40 Circuit ID: 64903 MILLERSVILLE 49-03			Location: Lancaster
				CPI: 469
	1/2/2008: Expanded Operational Review. Reliability Analysis Completed 4/3/08 Voltage Profile Completed 8/13/08	Completed	12/26/2008	Reduced outage risk.
	See subsequent reports for reliability work requests			
	4/1/2008: Test underground cable. Test URD 170 Brookwood Apts Taps 1-6	Completed	7/19/2010	Reduced outage risk. Proactive Cable Cure completed
	12/26/2008: Line inspection-equipment. Replace failed LA and RP @ 38715s23154. Replace failed LA @ 39232s22985	Completed	2/27/2009	Reduced outage duration.
	Install animal guard(s). ANIMAL GRD 7 TRANSFORMERS	Completed	12/23/2009	Reduced outage risk. animal guard was installed on 12/23/09.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	
	7/23/2010: Test underground cable. Test URD 546 Crossgates Taps 4, 5, 6	Scheduled for	12/30/2011	Reduced outage risk.
	41 Circuit ID: 16401 MOUNT POCONO 64-01			Location: Pocono
				CPI: 467
	7/10/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2009	One breaker outage and several long duration outages during the October 2008 snowstorm greatly contributed to the high CPI of this circuits
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/31/2010	A breaker outage in Q3 2009 and several single phase taps with multiple outages greatly contributed to the high CPI of this circuit.
	6/30/2010: Circuit outage data analysis.	Completed	5/7/2010	Circuit performance improved in Q1 2010. There were no major outages.

Rank	Action	Status	Due/Complete	Result	
42	Circuit ID: 46506 LOCK HAVEN 65-06			Location: Susquehanna	CPI: 462
	1/18/2008: Expanded Operational Review.	Completed	8/5/2008	No voltage or reliability issues identified.	
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	The Lock Haven 65-06 circuit was discussed at Susquehanna Region's WPC meeting on March 4, 2010. This line is categorized as WPC because of the number of customers experiencing more than 3 outages. This line has experienced several large OCR outages in the last year, mainly due to off right-of-way trees during severe weather.	
	Thermographic inspection-OH line.	Completed	3/31/2010	Inspected 10.7 miles of three-phase and 0.2 miles of two-phase. No repairs identified.	
43	Circuit ID: 60604 NORTH COLUMBIA 06-04			Location: Lancaster	CPI: 461
	5/19/2008: Perform line maintenance identified by line inspection. LMI inspection performed on 1 phase and 3 phase line - 10.3 miles total	Completed	3/8/2010	Reduced outage risk.	
	7/9/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/1/2008	Main contributing factors why circuit is on 2nd Qtr 2008 WPC list is 40% from SAIDI contribution and 35% from number of customers experiencing more than 3 interruptions	
	Expanded Operational Review. Reliability Analysis Completed 3/10/10	EOR initiated	12/31/2010		
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
	7/23/2010: Relocate inaccessible line. WR's 585677 & 585688 initiated to relocate inaccessible line sections	Scheduled for	12/31/2012	Reduced outage risk.	
44	Circuit ID: 18501 CANADENSIS 85-01			Location: Pocono	CPI: 459
	1/1/2008: Expanded Operational Review.	Completed	12/31/2008		
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2009	Inconclusive. Monitor future performance. This circuit has had 3 large OCR outages in the last 12 months resulting in 1,000 customers experiencing 3 or more outages. Two of the outages were caused by vehicle hits and one was caused by a tree from outside the ROW.	
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/7/2010	Inconclusive. Monitor future performance. One extender circuit breaker outage and one large OCR outage in Q1 2010 greatly contributed to the CPI of this circuit. Both outages were caused by trees from outside the ROW.	
	Improve sectionalizing capability.	Scheduled for	8/31/2010	The addition of Remote Operator Controlled Switches and Telemetric VCRs will be investigated.	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
45	Circuit ID: 41701 LOGANTON 17-01			Location: Susquehanna
				CPI: 457
	Expanded Operational Review.	Completed	12/31/2009	
	7/10/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/25/2009	Reduced outage risk. The Loganton 17-01 circuit was discussed at Susquehanna Region's 2009 Q2 Worst Performing Circuits meeting on August 25, 2009. This line is a worst performer due to a large number of customers experiencing an interruption longer than 4 hours and a high SAIDI contribution. One outage was due to a pole hit by a vehicle interrupting the entire line for nearly 5 hours. This circuit is radial with no ties. This line is not typically a worst performer and is expected to drop off the list within 2 quarters, assuming good performance moving forward.
	7/6/2010: Install 1 phase OCR(s).	Completed	3/4/2010	Reduced customer count affected by each outage. Installed new OCR on Spruce Run Rd in Loganton along with new downstream fusing.
	7/6/2010: Install 1 phase OCR(s). Install OCR 13787N32795	Completed	6/18/2010	Reduced customer count affected by each outage. Installed new OCR on Rocky Rd in Loganton along with downstream fusing.
	7/13/2010: Install fuse(s). Install 4 fuses	Scheduled for	8/18/2010	Reduced customer count affected by each outage.
	7/13/2010: Install fuse(s).	Completed	7/21/2010	Reduced customer count affected by each outage.
	7/13/2010: Relocate inaccessible line. Relocate along Summer-Mountain Road	Scheduled for	6/1/2011	Reduced outage risk.
	7/13/2010: Relocate inaccessible line. Relocate along Herman Road.	Scheduled for	6/1/2011	Reduced outage risk.
	7/13/2010: Relocate inaccessible line. Relocate along Old Hill Road	Scheduled for	6/1/2011	Reduced outage risk.
	7/13/2010: Install fuse(s). Install 3 fuses and 1 solid blade	Scheduled for	6/1/2011	Reduced customer count affected by each outage.
	Thermographic inspection-OH line.	Completed	3/31/2010	2.3 miles of three-phase and 10.3 miles of 2-phase inspected. No repairs identified.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
46	Circuit ID: 11001 EAST GREENVILLE 10-01			Location: Bethlehem
				CPI: 452
	Improve sectionalizing capability. Project being developed to resectionalize trouble spots, and add better fusing scheme to limit customer exposure. Inaccessible portion of the line will be re-fed from a new single phase section.	Scheduled for	2/24/2011	
	4/9/2009: Reconductor line. Reconductor and relocate 20 spans to the road.	Scheduled for	8/31/2010	
	Improve sectionalizing capability. Install new OCR, replace existing OCR with telemetric OCR and install motorized switch at East Greenville 10-1/Macungie 27-1 tie.	Scheduled for	8/31/2010	
	4/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2009	The SAIDI component was the greatest contributor to the CPI. A load imbalance during switching caused a long-duration outage in February when several loops burned open. A second long-duration outage occurred in July when trees interrupted 378 customers for 1,386 minutes.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	
47	Circuit ID: 43202 MILLVILLE 32-02			Location: Sunbury
				CPI: 446
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/6/2008	The 32-02 circuit is categorized as a worst performing circuit due to its contribution to the System SAIDI and customers experiencing more than three outages. During the last 12 months, the highest profile outage occurred during a severe storm (6/10) when a tree from outside PPL right-of-way interrupted a recloser for 17 hours. Another outage caused by trees outside PPL right-of-way was a significant contribution to the PPL System SAIDI. The 2008 2nd Quarter performance of this circuit is contributing heavily toward this circuit's WPC status. It is not likely to drop off the WPC list until this quarter drops out of the calculation. Hot spot tree trimming was performed at one location identified by a line inspection.
	4/3/2007: Perform line maintenance identified by line inspection.	Completed	1/30/2009	Reduced outage risk.
	1/16/2009: Expanded Operational Review.	Completed	12/31/2009	No longer among 5% worst performing circuits.
	Install 1 phase OCR(s).	Scheduled for	7/31/2011	
	Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	6/7/2010	Inconclusive. Monitor future performance. This circuit was reviewed at Susquehanna Region's WPC meeting on 6/7/10. This circuit is categorized as a worst performer due to the number of customers experiencing more than 3 outages within the 12 month period. The causes of each of the high customer outages have been mitigated (off right of way tree, customer equipment, and substation CB maintenance). The line will be monitored for future issues.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
48	Circuit ID: 43102 SOUTH MILTON 31-02			Location: Sunbury
				CPI: 437
	12/5/2008: Expanded Operational Review.	Completed	12/31/2009	Reduced outage risk.
	Install 3 phase OCR(s). Install new vacuum recloser with Telemetrics control for remote operation.	Completed	7/22/2010	Reduced outage duration. Remotely operated device will provide better operator control and quicker restoration time.
	1/28/2009: Install LBAS(s). Install new Air Break with motor operator and Telemetrics control for remote operation.	Scheduled for	8/28/2010	
	1/28/2009: Install fuse(s). Install fusing at 5 locations on circuit to improve protection of main line from faults occurring on taps.	Scheduled for	12/1/2010	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2009	Inconclusive. Monitor future performance. The South Milton 31-02 feeder was discussed at Susquehanna Region's WPC meeting on 12/1/09. This circuit is categorized as a worst performer due to a large number of customers interrupted for more than 4 hours. This occurred during an August 9 wind storm. This single event is the sole driver for this circuit to be on the WPC list. Key improvement initiatives on this line include installation of automated devices and animal guard at all transformer locations in Milton Boro.
49	Circuit ID: 10901 COOPERSBURG 09-01			Location: Bethlehem
				CPI: 436
	Tree trimming. New Line and terminal from Bingen Sub.	Completed	12/31/2008	Reduced outage duration. The new line will allow part of the line to be transferred to Coppersburg Substation.
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2008	Reduced outage risk. This circuit has experienced three major outages: A breaker outage due to a dig in, an OCR outage due to equipment failure, and another OCR outage due to a tree outside of the right of way.
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
50	Circuit ID: 40201 BEAR GAP 02-01			Location: Central
				CPI: 433
	3/31/2008: Relocate inaccessible portions of single phase tap after the Fisherdale Tap OCR	Completed	9/4/2008	Reduced outage duration.
	5/2/2008: Relocate inaccessible line. Drag-O-Way tap - build tie along road and remove inaccessible through woods.	Completed	9/1/2009	Reduced outage risk.
	2/13/2009: Expanded Operational Review.	Completed	5/27/2009	Initiated work to install fault indicators, tap fuses, and an OCR.
	Install 7 new fault indicators to help reduce outage durations.	Scheduled for	8/30/2010	
	4/20/2009: Install fuse(s). Install tap fuse to reduce customer outages.	Completed	9/15/2009	Reduced customer count affected by each outage. Reduced customers affected from 103 to 18.
	5/27/2009: Install 1 phase OCR(s). Install OCR to replace overloaded tap fuse.	Scheduled for	8/13/2010	
	Relocate inaccessible line. Relocate three phase line to main road and remove inaccessible single-phase tap.	Scheduled for	9/24/2011	Reduced outage duration.
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2009	SAIDI was 50% of the CPI score. The majority of the outages were due to trees, not trimming related. Last tree trimming on this feeder was completed on 12/2004.
	Relocate inaccessible line. Relocate 3-phase line to road.	Scheduled for	12/31/2011	
51	Circuit ID: 46701 RENOVO 67-01			Location: Susquehanna
				CPI: 428
	Expanded Operational Review.	Completed	12/31/2009	
	12/18/2008: Line inspection-equipment.	Completed	1/30/2009	No maintenance items identified.
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2009	Inconclusive. Monitor future performance. The Renovo #1 circuit was discussed at Susquehanna Region's Quarterly WPC meeting on 12/1/09. This circuit is a WPC due to outages longer than 4 hrs in duration. This circuit was affected by a summer wind storm on August 9 resulting in all customers experiencing an outage for approximately 5 hours. The circuit was inspected in October and November to identify improvement projects. Several items identified include additional fusing, repair of pole top found burred by equipment damage, and adding redundancy to the Susquehanna River crossing to S. Renovo Borough. These items are documented individually in this database.
	Install animal guard(s).	Completed	1/20/2010	Reduced outage risk.
	Install fuse(s).	Completed	1/20/2010	Reduced customer count affected by each outage.
	7/6/2010: Install fuse(s).	Completed	1/7/2010	Reduced customer count affected by each outage.
	Thermographic inspection-OH line.	Completed	3/31/2010	6.6 miles of three-phase and 0.2 miles of two-phase inspected. No repairs identified.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
52	Circuit ID: 45502 DERRY 55-02			Location: Sunbury	CPI: 418
	12/31/2007: Expanded Operational Review.	Completed	12/31/2008	Consider potential new tie to 55-1	
	7/9/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/12/2008	This circuit was reviewed during Susquehanna's WPC meeting on 8/12/08. The Substation CB was interrupted twice in the past 12 months, once due to trees outside PPL right-of-way and once due to vehicles. This circuit has one tie but conductor size limits its capacity. Engineering will conduct a feasibility study of creating another tie to this circuit.	
	Evaluate potential ties. Project was initiated to create a tie between Derry 55-1 and Watson 33-4. Derry 55-2 has a tie with Derry 55-1 and another with Danville 62-3. 55-2 could be transferred to Watson via 55-1.	Scheduled for	5/31/2012		
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	Reduced outage risk. The Derry 55-02 circuit was discussed at Susquehanna Region's WPC meeting on March 4, 2010. This line is categorized as WPC because of its large contribution to System SAIDI and customers experiencing outages in excess of 4 hours. This can be attributed to a single transmission outage that occurred on December 10, 2009. Loss of the 69kV Source to Derry left the entire station out of power. A portion of the line was transferred to an adjacent feeder, however, much of the line remained out until the transmission problem could be addressed.	
53	Circuit ID: 12601 MACADA 26-01			Location: Bethlehem	CPI: 418
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
54	Circuit ID: 42101 FRAILEY 21-01			Location: Central	CPI: 410
	2/4/2008: Expanded Operational Review.	Completed	10/6/2008	Reduced outage risk.	
	3/28/2008: Convert radial section near Goodsprings to 12 KV creating a N.O. tie between 58-01 and 58-02 lines.	Completed	12/31/2009	Reduced outage duration.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2009	Inconclusive. Monitor future performance. There are only 19 customers on this feeder. The largest outage is due to an OH pole/arm equipment failure. A project has been placed in the budget to convert this feeder, and other surrounding 23kV feeders, to 12kV; a 4-part project beginning in 2011. The conversion will create more 12 kV ties and transferability among other feeders.	
	2/24/2010: Improve sectionalizing capability. 23 kV - 12 kV Conversion Part 1	Scheduled for	12/31/2011		
	2/24/2010: Improve sectionalizing capability. 23 kV - 12 kV Conversion Part 4	Scheduled for	12/31/2014		

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
55	Circuit ID: 10803 CHERRY HILL 08-03			Location: Bethlehem	CPI: 409
	7/9/2008: Line inspection-equipment. Inspect line and make repairs.	Completed	12/31/2009	Crews replaced several cut outs and lightning arrestors.	
	7/9/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/15/2008	Reduced outage risk. One breaker outage and one significant OCR outage. Duration was the most significant contributor to this circuits performance.	
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2009	The SAIDI component was the greatest contributor to the CPI. The circuit experienced several long-duration tree outages. This circuit is on the edge of the PPL service territory which leads to a long response time due to the distance crews must travel to get to the outage.	
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		
56	Circuit ID: 13606 RICHLAND 36-06			Location: Bethlehem	CPI: 405
	7/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2010		

- 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 (Equipment Failure, Trees–Not Trimming Related, and Animals), which are based on the percent of cases of trouble, 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 service 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
Animals	4,318	22.55%	94,374	7.07%	9,097,496	5.03%
Contact/Dig-In	175	0.91%	19,138	1.43%	1,073,011	0.59%
Directed by Non-PPL Authority	133	0.69%	8,963	0.67%	653,614	0.36%
Equipment Failures	5,309	27.73%	437,037	32.76%	48,328,368	26.72%
Improper Design	0	0.00%	0	0.00%	0	0.00%
Improper Installation	5	0.03%	5,433	0.41%	554,744	0.31%
Improper Operation	5	0.03%	5,584	0.42%	332,017	0.18%
Nothing Found	1,721	8.99%	94,754	7.10%	7,886,016	4.36%
Other-Controllable	109	0.57%	3,605	0.27%	459,970	0.25%
Other-Non Control	500	2.61%	54,024	4.05%	5,739,635	3.17%
Other-Public	111	0.58%	12,743	0.96%	1,000,986	0.55%
Trees-Not Trimming Related	5,215	27.24%	429,505	32.19%	85,096,546	47.05%
Trees-Trimming Related	809	4.23%	42,132	3.16%	9,467,382	5.23%
Vehicles	737	3.85%	126,881	9.51%	11,160,588	6.17%
TOTAL	19,147	100%	1,334,173	100%	180,850,374	100%

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 an elevated level of both reportable and non-reportable storms during this reporting period.

Trees – Trimming Related: On January 1, 2010, PPL Electric initiated a prescriptive tree trimming program that moved maintenance trimming cycles to five years for all circuits in PPL Electric's northern territory and four years for all circuits in PPL Electric's southern territory. These cycles are inclusive of both urban and rural circuits and will shorten the overall average trimming cycle for the system. Several more years will be required for the program to reach its full effectiveness on all circuits

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

Animals: Animals accounted for about 23% 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 85% of the number of cases of trouble was associated with individual distribution transformers. However, when animal contacts affect substation equipment, the effect may be widespread and potentially can interrupt thousands of customers on multiple circuits. In addition to guarding new distribution transformers and substations, in 2009, PPL Electric initiated distribution and substation animal guarding programs to systematically focus on protecting existing facilities most at risk of incurring animal-caused interruptions.

Vehicles: Although vehicles cause a small percentage of the number of cases of trouble, they accounted 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 45% of the cases of trouble, 52% of the customer interruptions and 59% of the customer minutes attributed to equipment failure were 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	2 nd Quarter		Year-to-date	
		Budget	Actual	Budget	Actual
Transmission					
Transmission C-tag poles (# of poles)	200	50	44	100	84
Transmission arm replacements (# of sets)	300	141	4	165	5
Transmission air break switch inspections (# of switches)	110	38	14	38	35
Transmission lightning arrester installations (# of sets)	100	44	9	65	28
Transmission pole inspections (# of poles) ⁹	7,874	7,874	7,817	7,874	7,817
Transmission tree side trim-Bulk Power (linear feet)	446,043	51,454	412,792	72,543	471,268
Transmission herbicide-Bulk Power (# of acres)	6,300	1,568	212	1,674	286
Transmission reclearing (# of acres)	3,200	1,564	4,044	3,576	5,909
Transmission danger tree removals-Bulk Power (# of trees)	11,244	2,37	16,439	4,437	22,407
Substation					
Substation batteries (# of activities)	842	165	87	715	650
Circuit breakers (# of activities)	1,995	472	297	906	637
Substation inspections (# of activities)	2,428	439	365	1,139	1,059
Transformer maintenance (# of activities)	2,121	708	548	1,137	1,049
Distribution					
Distribution C-tag poles replaced (# of poles)	2,000	327	197	1,100	487
C-truss distribution poles (# of poles)	1,800	210	12	210	12
Capacitor (MVAR added)	82	35	21	61	47
OCR replacements (# of)	715	160	216	432	410
Oil Switch replacements (# of) ¹⁰	20	14	3	17	3
Distribution air break switch inspections (# of) ¹¹	310	72	80	144	170
Distribution pole inspections (# of poles)	95,000	0	0	0	0
Distribution line inspections (# of miles)	3,000	1,000	686	1,500	900
Group relamping (# of lamps)	16,029	4,000	0	4,000	0
Test sections of underground distribution cable	430	133	192	229	283
Distribution tree trimming (# of miles)	6,659	1,908	1,373	3,452	3,009
Distribution herbicide (# of acres)	1,326	0	0	0	0
Distribution >18" removals within R/W (# of trees)	903	235	261	470	662

⁹ New program developed for 2010; inspection and treatment of transmission wood poles.

¹⁰ The line item is being added as a result of an error correction from 2010 annual report.

¹¹ The line item is being added as a result of an error correction from the 2010 annual report.

Inspection & Maintenance Goals/Objectives	Annual Budget	2 nd Quarter		Year-to-date	
		Budget	Actual	Budget	Actual
Distribution hazard tree removals outside R/W (# of trees)	12,069	3,505	6,616	6,142	12,041
LTN manhole inspections (# of)	494	136	258	246	419
LTN vault inspections (# of)	821	289	212	499	333
LTN network protector overhauls (# of)	79	28	24	40	33
LTN reverse power trip testing (# of)	132	62	27	70	54

- 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).

Activity	2 nd Quarter		Year-to-date	
	Budget (\$1,000s)	Actual (\$1,000s)	Budget (\$1,000s)	Actual (\$1,000s)
Provide Electric Service	2,833	2,626	5,492	4,805
Vegetation Management	7,679	14,807	15,030	22,386
Customer Response	17,700	15,795	31,164	29,705
Reliability & Maintenance	16,335	11,854	32,052	22,385
System Upgrade	769	292	1,573	709
Customer Services/Accounts	26,084	26,093	55,550	49,830
Others	13,941	14,688	28,461	28,133
Total O&M Expenses	85,349	86,155	169,321	157,953

- 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.

	2 nd Quarter		Year-to-date	
	Budget (\$1,000s)	Actual (\$1,000s)	Budget (\$1,000s)	Actual (\$1,000s)
New Service/Revenue	17,086	12,979	34,374	25,275
System Upgrade	37,093	31,350	63,618	52,834
Reliability & Maintenance	32,498	23,976	56,569	41,200
Customer Response	5,662	4,300	10,520	8,787
Other	6,963	3,075	11,191	5,743
Total	99,301	75,680	176,271	133,839

- 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	73
Journeyman Lineman	144
Journeyman Lineman-Trainee	145
Helper	31
Groundhand	13
Troubleman	55
T&D Total	461
Electrical	
Elect Leaders-UG	6
Elect Leaders-Net	10
Elect Leaders-Sub	26
Journeyman Elect-UG	26
Journeyman Elect-Net	6
Journeyman Elect-Sub	42
Journeyman Elect Trainee-UG	10
Journeyman Elect Trainee-Net	11
Journeyman Elect Trainee	40
Helper	16
Laborer-Mechanical	1
Laborer-Network	3
Laborer-Substation	7
Electrical Total	204
Overall Total	665

***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:

- SAIDI - 35%
- SAIFI - 30%
- Fraction of customers interrupted more than three times - 20%
- Fraction of customers with an interruption over four hours - 15%

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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, 2001-2005. Average values over this period were:

- SAIDI – 121.9 per customer per year
- SAIFI – 0.929 per customer per year
- Fraction of customers interrupted more than three times - 4% per feeder per year
- Fraction of customers with an interruption over four hours - 10% per feeder per year

A hypothetical feeder with the values of SAIDI, SAIFI, and the fraction of customers interrupted more than three times, and the fraction of customers with an interruption over four hours, equal to the 5-year averages would have a CPI value of 100. Any variations in the values of the above criteria would affect the CPI values in accordance with the weighting factors.

***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 four general classifications: Controllable, Non-Controllable, Public and Non-PPL. The definitions of the cause codes are:

10 – Improper Design	Controllable	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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 – Trimming Related ¹²	Controllable	<ul style="list-style-type: none">Outages resulting from conductors contacted by tree growth within the clearance zone defined by the current trimming specification (within the Rights-of-Way).
35 – Trees – Not Trimming Related	Non-Controllable	<ul style="list-style-type: none">Outages due to trees, but not related to lack of proper tree trimming maintenance. This includes danger timber blown into PPL Electric facilities, and trees or limbs felled by the public.
40 – Animals	Controllable	<ul style="list-style-type: none">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	<ul style="list-style-type: none">When cars, trucks or other types of vehicles or their cargoes strike facilities causing a problem.

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¹² The title and description of this code have been revised for clarity. The purpose and application of the code have not changed.

Appendix B

51 – Contact/Dig-in	Public	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 can not be described by any other code indicating the specific type of failure.
77 – Non-PPL Problem – Other	Non-PPL	<ul style="list-style-type: none"> • Where no PPL Electric or customer facilities were affected, and no repair or restoration was carried out on PPL Electric equipment.
78 – Non-PPL Problem – Customer Facility	Non-PPL	<ul style="list-style-type: none"> • Where no PPL Electric facilities were affected, and no repair or restoration was carried out on PPL Electric equipment.
80 – Scheduled Outage ¹³	Controllable	<ul style="list-style-type: none"> • Interruptions under the control of a PPL Electric switchman or direction of a PPL Electric System Operator for the purpose of performing <u>scheduled</u> 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.

¹³ 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 a scheduled outage when the interruption is postponed.

Appendix B

85 – Directed by Non-PPL Authority	Non-Controllable	<ul style="list-style-type: none"> • 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.
90 – Other – Controllable (Lineman provides explanation)	Controllable	<ul style="list-style-type: none"> • 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. • Controllable interruptions or Power Service Problems whose cause is not described by one of the previous controllable cause codes.
96 – Nothing Found	Non-Controllable	<ul style="list-style-type: none"> • 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 thunder and lightning, 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	<ul style="list-style-type: none"> • 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.

Appendix B

99 – Other – Non-Controllable (Lineman provides explanation)	Non-Controllable	<ul style="list-style-type: none">• 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, or fences, being accidentally blown or thrown into overhead facilities.• All problems caused by contact of energized equipment with facilities of other attached companies or by trouble on customer owned equipment.• Interruptions or power service problems whose cause is not described by one of the previous non-controllable cause codes, but is not affected by a PPL Electric employee's decisions.
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PPL Electric Utilities Corporation **RECEIVED**
Job Descriptions

JUL 30 2010

Transmission and Distribution

PA PUBLIC UTILITY COMMISSION

Groundhand	<ul style="list-style-type: none"> Performs manual labor and assists employees in higher job classifications.
Helper	<ul style="list-style-type: none"> Performs semi-skilled labor at any work location on de-energized overhead and underground transmission, and distribution facilities to prepare the employee for entrance into the Journeyman Lineman Apprenticeship Program.
Journeyman Lineman	<ul style="list-style-type: none"> Works by himself or as part of a crew on the maintenance, operation, and construction activities of the transmission and distribution systems associated with, but not limited to, PPL Electric facilities.
Journeyman Lineman-Trainee	<ul style="list-style-type: none"> Works by himself or as part of a crew on the maintenance, operation, and construction activities of the transmission and distribution systems associated with, but not limited to, PPL Electric facilities.
Lineman Leader	<ul style="list-style-type: none"> Responsible for completing assigned work by directing one or multiple groups of employees involved in the maintenance, operation, and construction activities of the transmission and distribution systems associated with, but not limited to, PPL Electric facilities. Engage in and perform work along with providing the necessary leadership, all-around knowledge, initiative, judgment, and experience to produce a quality job. Performs all the direct duties of the Journeyman Lineman when not acting as a Lineman Leader.
Troubleman	<ul style="list-style-type: none"> Investigates and resolves trouble calls, voltage abnormalities on transmission and distribution systems associated with, but not limited to, PPL Electric facilities.

Electrical

<p>Electrician Leader</p> <ul style="list-style-type: none"> - Substation - Network - Underground 	<ul style="list-style-type: none"> • Responsible for completing assigned work by directing one or multiple groups of employees involved in the construction and maintenance activities of the transmission and distribution systems associated with, but not limited to, PPL Electric facilities. • Engage in and perform work along with providing the necessary leadership, all-around knowledge, initiative, judgment, and experience to produce a quality job. • Performs all direct duties of the Journeyman Electrician when not acting as a leader.
<p>Helper</p> <ul style="list-style-type: none"> - Substation - Network - Underground 	<ul style="list-style-type: none"> • Performs manual labor at any work location including those areas containing non-exposed energized electrical equipment, and to prepare the employee for entrance into the Apprenticeship Program.
<p>Laborer</p> <ul style="list-style-type: none"> - Substation - Network - Underground 	<ul style="list-style-type: none"> • Performs manual labor and assists employees in higher job classifications.
<p>Journeyman Electrician</p> <ul style="list-style-type: none"> - Substation - Network - Underground 	<ul style="list-style-type: none"> • Normally under limited supervision performs and is responsible for work associated with, but not limited to, PPL Electric facilities involving the highest degree of skill in construction and maintenance work associated with substations, LTN or underground distribution and transmission. • Uses microprocessor based equipment for troubleshooting and revising relay logic and its control systems related to the Field Services electrical discipline.
<p>Journeyman Electrician - Trainee</p> <ul style="list-style-type: none"> - Substation - Network - Underground 	<ul style="list-style-type: none"> • Normally under limited supervision performs and is responsible for work associated with, but not limited to, PPL Electric facilities involving the highest degree of skill in construction and maintenance work associated with substations, LTN or underground distribution and transmission. • Uses microprocessor based equipment for troubleshooting and revising relay logic and its control systems related to the Field Services electrical discipline.

From: Origin ID: ABEA (610) 774-6908
Karen Posten
PPL Corporation
2 N 9th St

Allentown, PA 18101



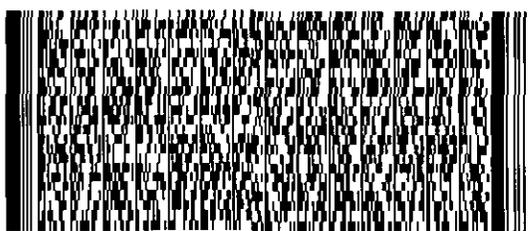
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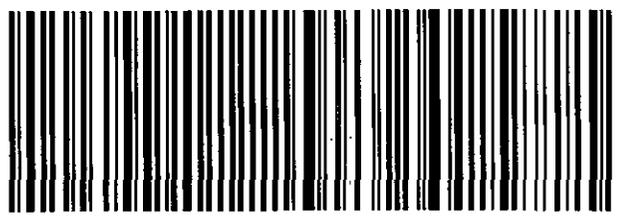


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