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**FEDERAL EXPRESS**

April 30, 2010

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

**RECEIVED**

APR 30 2010

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**Re: PPL Electric Utilities Corporation  
Quarterly Reliability Report for the  
Period Ended March 31, 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 March 31, 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 April 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 Searforce



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APR 30 2010

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**PPL Electric Utilities**

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

*April 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 March 31, 2010.

<b>SAIFI (Benchmark = 0.98; Rolling 12-month Std. = 1.18)</b>	0.918
<b>CAIDI (Benchmark = 145; Rolling 12-month Std. = 174)</b>	126
<b>SAIDI (Benchmark = 142; Rolling 12-month Std. = 205)</b>	116
<b>MAIFI<sup>1</sup></b>	4.985
<b>Average Number of Customers Served<sup>2</sup></b>	1,384,723
<b>Number of Sustained Customer Interruptions (Trouble Cases)</b>	17,976
<b>Number of Customers Affected<sup>3</sup></b>	1,271,719
<b>Customer Minutes of Interruptions</b>	160,664,790
<b>Number of Customer Momentary Interruptions</b>	6,902,623

During the 1<sup>st</sup> quarter, there were two (2) PUC-reportable storms ( $\geq 2,500$  customers interrupted for  $\geq 6$  hr.) and one (1) other storm that required the opening of one or more area emergency centers to manage restoration efforts. Current storm experience remains high compared to historical norms.

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

<sup>2</sup> 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.

<sup>3</sup> 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.

Specifically, during the 12-month reporting period, there were four (4) PUC-reportable storms ( $\geq 2,500$  customers interrupted for  $\geq 6$  hr.) other than major events.

In addition, there were sixteen (16) storms that were not reportable, but which did require the opening of one or more area emergency centers to manage restoration efforts. This is 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 <sup>4</sup>	Customers	Cases of Trouble <sup>5</sup>	Customer Minutes Interrupted	CPI
1	17001	4.83	384	1,852	5.04	1,494	58	2,767,478	1,148
2	22402	4.88	133	647	3.14	1,299	27	841,011	890
3	10903	6.20	106	659	2.00	2,023	53	1,333,959	886
4	44001	1.77	1,231	2,182	0.00	132	3	287,975	844
5	12501	5.27	63	333	6.02	1,564	10	520,886	749
6	60904	5.00	71	353	8.88	1,824	23	644,069	741
7	17002	3.69	300	1,107	2.00	1,285	39	1,422,278	732
8	43106	3.75	283	1,062	2.31	350	14	371,644	702
9	57403	3.33	145	484	5.01	1,469	33	711,393	678
10	60902	4.66	62	291	10.99	473	23	137,495	651
11	54701	1.42	227	322	0.79	1,825	14	587,081	647
12	22406	3.63	182	659	5.97	943	27	621,173	641
13	22602	3.88	168	652	8.09	1,510	65	984,866	636
14	43705	3.07	292	896	3.66	1,375	28	1,232,494	635
15	42401	2.25	366	822	2.00	740	14	608,292	634
16	26001	4.00	138	554	6.09	1,320	67	731,673	617
17	42101	3.77	258	972	1.46	13	5	12,642	596
18	46602	2.90	259	751	0.02	1,740	73	1,307,099	595
19	45502	2.86	250	715	0.00	623	32	445,311	589
20	22002	3.44	170	584	6.01	1,388	52	811,162	563
21	44101	3.06	308	944	0.00	33	5	31,140	557
22	40802	5.86	211	1,236	6.99	983	6	1,214,734	550
23	41202	3.89	107	417	4.00	1,421	33	592,599	523
24	51804	5.94	100	595	2.99	1,020	17	606,582	516
25	46701	2.49	190	474	1.00	712	29	337,685	510
26	43202	4.02	64	257	3.01	2,105	55	541,830	492
27	60201	3.21	167	534	2.04	1,971	28	1,053,401	492
28	43101	2.18	414	903	4.95	1,417	41	1,280,178	484

<sup>4</sup> MAIFI data is obtained at the substation breaker and does not include momentary interruptions at lower level devices.

<sup>5</sup> Cases of trouble are the number of sustained customer service interruptions.

WPC Rank	Feeder ID	SAIFI	CAIDI	SAIDI	MAIFI <sup>4</sup>	Customers	Cases of Trouble <sup>5</sup>	Customer Minutes Interrupted	CPI
29	56501	2.48	200	497	9.01	2,367	35	1,176,999	482
30	16402	3.84	98	376	6.13	998	44	374,876	475
31	41002	2.91	209	608	1.00	1,255	53	762,852	474
32	66001	4.12	50	205	1.97	1,006	8	206,669	472
33	27101	3.23	139	450	8.11	2,695	65	1,213,478	463
34	16101	2.08	356	739	5.69	2,352	108	1,738,790	455
35	55001	7.17	54	390	4.43	1,263	64	492,337	453
36	18501	2.99	144	432	0.00	1,724	36	744,392	451
37	45501	1.65	478	788	0.00	1,431	49	1,127,886	449
38	40201	2.35	292	686	12.01	1,618	75	1,110,480	447
39	46702	1.95	300	584	0.10	1,279	48	746,902	435
40	26002	3.12	150	467	6.00	1,185	66	553,856	433
41	43102	2.37	248	589	0.00	972	20	572,187	427
42	16401	2.68	122	327	3.02	673	34	219,979	422
43	22601	3.28	139	455	5.98	1,972	48	896,570	398
44	63403	3.52	112	395	13.09	877	29	346,751	391
45	47401	2.00	234	468	5.01	1,323	23	619,301	389
46	13603	1.58	489	774	3.01	535	15	414,261	388
47	43104	1.06	640	681	1.00	579	5	394,287	385
48	61001	3.42	95	325	6.98	1,770	17	574,787	385
49	46506	2.82	124	349	9.00	1,602	36	559,722	378
50	47403	2.26	268	604	4.68	367	16	221,540	378
51	26601	2.47	193	476	3.63	1,297	42	617,214	378
52	44903	2.89	80	232	14.01	1,454	24	337,627	366
53	15704	2.87	112	322	10.00	1,281	56	413,011	365
54	28001	3.28	88	289	10.06	1,761	93	509,152	359
55	14007	1.11	504	561	0.00	592	9	332,082	353
56	26604	1.70	334	566	1.00	2,457	79	1,391,224	340

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).**

<b>Rank</b>	<b>Action</b>	<b>Status</b>	<b>Due/Complete</b>	<b>Result</b>	
<b>1</b>	<b>Circuit ID: 17001 RIDGE ROAD 70-01</b>			<b>Location: Bethlehem</b>	<b>CPI: 1148</b>
	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	Inconclusive. Monitor future performance.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/12/2009	Inconclusive. Monitor future performance. Multiple OCR outages contributed to many customers on this line seeing greater than 3 outages.	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>2</b>	<b>Circuit ID: 22402 MORGAN 24-02</b>			<b>Location: Scranton</b>	<b>CPI: 890</b>
	8/14/2007: Install fault indicators	Canceled	8/31/2009	Reduced outage duration. Inaccessible section of line being removed.	
	1/1/2008: Expanded Operational Review.	Completed	8/8/2008	Reduced outage risk.	
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2008	There were three breaker outages on this line. At least 537 customers experienced 4 outages. The breaker outages were due to equipment failure and animal contact causes. One of the breaker outages had a CAIDI of over 400 minutes.	
	1/19/2009: Additional projects are being reviewed for inclusion of the budget to increase reliability.	Completed	12/15/2009	Project to relocate an inaccessible section of 3 phase has been identified and will be completed in 2010.	
	12/15/2009: Relocate inaccessible section of 3 phase line.	Scheduled for	12/31/2010		
	10/15/2009: Circuit outage data analysis.	Completed	1/14/2010	Inconclusive. Monitor future performance. There were three breaker outages and one large OCR outage during isolated thunder storms in Q2 2009. The outages were caused by trees from outside the ROW. In Q3 2009 there has been one breaker outage caused by an animal contact at the substation. There were no major outages in Q4 2009.	
<b>3</b>	<b>Circuit ID: 10903 COOPERSBURG 09-03</b>			<b>Location: Bethlehem</b>	<b>CPI: 886</b>
	10/20/2004: Monitor future performance on line.	Completed	7/15/2008	No longer among 5% worst performing circuits. Has not been a WPC for 7 consecutive quarters.	
	1/1/2007: Expanded Operational Review.	Completed	7/18/2008	Profile Complete(7/18/08). Reliability Review Complete(7/18/08).	
	7/17/2008: Load balancing.	Scheduled for	5/31/2010	Reduced outage risk.	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>4</b>	<b>Circuit ID: 44001 W. PENN (LOBO) SOURCE 40-01</b>			<b>Location: Susquehanna</b>	<b>CPI: 844</b>
	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 boderline 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		
<b>5</b>	<b>Circuit ID: 12501 MINSI TRAIL 25-01</b>			<b>Location: Bethlehem</b>	<b>CPI: 749</b>
	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.	
<b>6</b>	<b>Circuit ID: 60904 DONEGAL 09-04</b>			<b>Location: Lancaster</b>	<b>CPI: 741</b>
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>7</b>	<b>Circuit ID: 17002 RIDGE ROAD 70-02</b>			<b>Location: Bethlehem</b>	<b>CPI: 732</b>
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2009	Inconclusive. Monitor future performance.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/12/2009	Inconclusive. Monitor future performance. This circuit experienced 3 breaker outages within the past year. Two of these were due to transmission events, however.	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		



<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>8</b>	<b>Circuit ID: 43106 SOUTH MILTON 31-06</b>			<b>Location: Sunbury</b>	<b>CPI: 702</b>
	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.	
<b>9</b>	<b>Circuit ID: 57403 SPANGLER 74-03</b>			<b>Location: West Shore</b>	<b>CPI: 678</b>
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>10</b>	<b>Circuit ID: 60902 DONEGAL 09-02</b>			<b>Location: Lancaster</b>	<b>CPI: 651</b>
	1/2/2008: Expanded Operational Review. Reliability Analysis Completed 1/24/08 Voltage Profile completed 11/12/08	Completed	12/31/2008	No reliability work requests needed	
	1/18/2010: 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. Engineering to have a technician look at the double circuit slack-span issues along Anderson Ferry/Rte 772. 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	Inconclusive. Monitor future performance.	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>11</b>	<b>Circuit ID: 54701 NEW BLOOMFIELD 47-01</b>			<b>Location: West Shore</b>
				<b>CPI: 647</b>
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010	
<b>12</b>	<b>Circuit ID: 22406 MORGAN 24-06</b>			<b>Location: Scranton</b>
				<b>CPI: 641</b>
	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.
	1/19/2009: 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. Project SP51414- Will rebuild an inaccessible portion of 2/0 Cu along the road with 477 Al. RIS is 11/2012.
	1/19/2009: Rebuild an inaccessible portion of 2/0 with 477 AL.	Scheduled for	11/30/2012	
	4/15/2009: Pole inspection of inaccessible line section in grid block 533N492.	Completed	4/30/2009	Section of line is old and in poor condition. 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.
	1/14/2010: 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.
<b>13</b>	<b>Circuit ID: 22602 KIMBLES 26-02</b>			<b>Location: Pocono</b>
				<b>CPI: 636</b>
	12/9/2006: Install fuse(s). Install 4 - 100k fuses one single and multi span taps off the main three phase line protected by the circuit breaker	Completed	5/30/2008	Reduced outage risk.
	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).

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>14 Circuit ID: 43705 WILLIAMSPORT 37-05</b>				<b>Location: Susquehanna</b>
				<b>CPI: 635</b>
	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	
<b>15 Circuit ID: 42401 GIRARD MANOR 24-01</b>				<b>Location: Central</b>
				<b>CPI: 634</b>
	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 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.
<b>16 Circuit ID: 26001 WEST DAMASCUS 60-01</b>				<b>Location: Pocono</b>
				<b>CPI: 617</b>
	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.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>17</b>	<b>Circuit ID: 42101 FRAILEY 21-01</b>			<b>Location: Central</b>
				<b>CPI: 596</b>
	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>
<b>18</b>	<b>Circuit ID: 46602 LARRYS CREEK 66-02</b>			<b>Location: Susquehanna</b>
				<b>CPI: 595</b>
	8/1/2008: Install tie. Build tie line to Linden 57-2 along SR 220 - USF project	Completed	11/26/2008	Reduced outage duration.
	1/2/2009: Expanded Operational Review.	Completed	10/30/2009	Identified locations for additional fusing.
	11/3/2008: Line inspection-equipment.	Completed	12/10/2008	Inspector found 2 locations needing tree trimming. Also found 1 location of energized primary that feeds an abandoned cabin that could be cut in clear.
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2009	Inconclusive. Monitor future performance. The Larry's Creek #2 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. This circuit was severely affected by a summer wind storm on August 9. Significant wind damage, bring trees down across power lines resulted in numerous large scale and long duration outages. Portions of this line was trimmed to reduce the risk for further outages. Other improvements initiatives were developed for this line (new sectionalizing equipment, relocation of inaccessible and risk-prone lines, replacement of bridges disconnects on getaway), documented elsewhere in this database.
	1/4/2010: Relocate inaccessible line. Relocate Inaccessible line along Duffy's Rd.	Scheduled for	5/14/2010	Reduced outage risk.
	1/4/2010: Install 1 phase OCR(s).	Scheduled for	5/14/2010	Reduced customer count affected by each outage.
	1/4/2010: Install fuse(s). WR 535701 - Install 1 fuse along Spook Hollow Rd.	Scheduled for	6/30/2010	Reduced customer count affected by each outage.
	1/4/2010: Install fuse(s). WR 535700 - Install 1 fuse along Spook Hollow Rd.	Canceled	3/31/2010	
	1/4/2010: Relocate inaccessible line. Relocate Inaccessible line along Spook Hollow Rd.	Scheduled for	6/30/2010	Reduced outage risk.
	1/4/2010: Relocate inaccessible line. Relocate Inaccessible line along Martins Rd.	Scheduled for	6/30/2010	Reduced outage risk.
	1/4/2010: Install fuse(s). Install 1 fuse on Level Corners Rd. Install 2 fuses on Youngs Rd. Install 1 fuse on Pine Run Rd.	Scheduled for	3/31/2011	Reduced customer count affected by each outage.
	1/4/2010: Relocate inaccessible line. Relocate Inaccessible Line along Tombs Run Rd.	Scheduled for	3/31/2011	Reduced outage risk.
<b>19</b>	<b>Circuit ID: 23003 SAINT JOHNS 30-03</b>			<b>Location: Central</b>
				<b>CPI: 590</b>
	1/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/28/2010	Greater than three interruptions was 70% of the CPI score. This is a new circuit and the CPI was miscalculated. The greater than three interruptions originally occurred on the 23002, but a section of this line was transferred to the new 23003. The transfer will improve the reliability of these customers seeing multiple interruptions. Continue to monitor.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>20 Circuit ID: 45502 DERRY 55-02</b>				<b>Location: Sunbury</b>	<b>CPI: 589</b>
	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.	
	1/21/2010: 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	Reduced outage duration. The tie with Watson will provide additional operating flexibility.	
	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.	
<b>21 Circuit ID: 22002 BOHEMIA 20-02</b>				<b>Location: Pocono</b>	<b>CPI: 563</b>
	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		
<b>22 Circuit ID: 44101 PENN ELEC 41-01</b>				<b>Location: Sunbury</b>	<b>CPI: 557</b>
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>23</b>	<b>Circuit ID: 40802 EXCHANGE 08-02</b>			<b>Location: Central</b> <b>CPI: 550</b>
	2/13/2009: Expanded Operational Review.	Completed	6/15/2009	Initiated work to install 5 tap fuses and fault indicators at an existing sectionalizing air break.
	6/15/2009: Install fuse(s). Install 5 tap fuses to reduce exposure risk to substation.	Completed	4/30/2010	Reduced outage risk.
	6/15/2009: Monitor future performance. Install fault indicators on sectionalizing air break.	Completed	10/23/2009	Inconclusive. Monitor future performance.
	7/10/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	7/10/2009	Inconclusive. Monitor future performance. SAIDI was 62% of the CPI score. Planned maintenance was scheduled at a neighboring substation so the majority of the customers were transferred to the Exchange 8-2 line. While serving all those customer an outage occurred on the line causing an interruption to all of the 8-2 line and all the customers that were transferred to the line. This caused the circuit to receive a high SAIDI value. This is the first time this circuit has ever been on the worst performing circuit list.
<b>24</b>	<b>Circuit ID: 41202 KENMAR 12-02</b>			<b>Location: Susquehanna</b> <b>CPI: 523</b>
	1/2/2009: Expanded Operational Review.	Completed	12/15/2009	Reduced customer count affected by each outage.
	12/18/2009: Install fuse(s). Install 5 Fuses at various locations in Williamsport.	Scheduled for	3/31/2011	
	12/18/2009: Install fuse(s). Replace (7) Dead-End Insulators	Scheduled for	3/31/2011	
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	The Kenmar 12-02 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 one breaker outage in the last year, plus several large OCR outages. Improvement initiatives are underway to install fuses and replace dead end insulators.
<b>25</b>	<b>Circuit ID: 51804 EBENEZER 18-04</b>			<b>Location: Harrisburg</b> <b>CPI: 516</b>
	1/13/2010: 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.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>26</b>	<b>Circuit ID: 46701 RENOVO 67-01</b>			<b>Location: Susquehanna</b>
				<b>CPI: 510</b>
	1/2/2009: Expanded Operational Review.	Completed	12/31/2009	Identified locations for additional fusing.
	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.
	1/4/2010: Install animal guard(s).	Completed	2/26/2010	Reduced outage risk.
	1/4/2010: Install fuse(s).	Completed	3/31/2010	Reduced customer count affected by each outage.
<b>27</b>	<b>Circuit ID: 43202 MILLVILLE 32-02</b>			<b>Location: Sunbury</b>
				<b>CPI: 492</b>
	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.
	5/16/2008: Install 1 phase OCR(s).	Scheduled for	5/31/2010	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010	
<b>28</b>	<b>Circuit ID: 60201 ATGLEN 02-01</b>			<b>Location: Lancaster East</b>
				<b>CPI: 492</b>
	1/4/2010: Expanded Operational Review. Reliability Analysis Completed 4/13/10	EOR initiated	12/31/2010	Inst FI's UG Dip 49828S22863 and 49825S22915; FI's on NC LBAS @ 49898s22871 and 49128s23183; Submit URD 431 Christiana Hghts for cable test, ROCS and Telemetric VCR's being installed in 2010.
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010	



<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>29</b>	<b>Circuit ID: 43101 SOUTH MILTON 31-01</b>			<b>Location: Sunbury</b>
				<b>CPI: 484</b>
	1/1/2008: Expanded Operational Review.	Completed	6/30/2008	CYME study has been completed with adequate voltage. Additional sectionalizing will be reviewed and WRs will be taken out.
	3/24/2008: Test underground cable. Replace UG cable per Test Recommendations	Completed	12/5/2008	Reduced outage risk.
	8/1/2008: Install fuse(s). 5 new fuses will be installed as a result of the EOR. WR numbers for the fuses are 443125, 443134, 443101, 443105, 443117.	Completed	9/1/2008	Reduced customer count affected by each outage.
	10/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/6/2008	South Milton 31-01 - The 31-01 circuit is categorized as a WPC circuit due to customers experiencing more than 3 outages and high contribution toward the system SAIDI. This circuit was reviewed in 2008 as part of the expanded operational reviews for Sunbury Area. Two improvement projects were identified during the review. An additional air break is also planned for this circuit to improve sectionalizing capabilities.
	10/15/2008: Relocate inaccessible line.	Scheduled for	12/31/2010	
	1/28/2009: Improve sectionalizing capability. Automate OCR 24363N30970 by replacing with VCR with Telemetry.	Completed	9/10/2009	Reduced outage duration.
	1/28/2009: Install LBAS(s). Install new Air Break with motor Operator and Telemetry control for remote operation at 23868N30531.	Completed	9/10/2009	Reduced outage duration.
	1/28/2009: Improve sectionalizing capability. Add automation to two existing Air Breaks.	Completed	9/10/2009	Reduced outage duration.
<b>30</b>	<b>Circuit ID: 56501 ROCKVILLE 65-01</b>			<b>Location: Harrisburg</b>
				<b>CPI: 482</b>
	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.
	11/11/2009: Install fuse(s). Install 3 tap fuses	Scheduled for	12/31/2010	Reduced customer count affected by each outage.
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list. Outage 413472 single phase outage had incorrect CMI Reconductoring the single phase section under reliability preservation EOR completed 2009 Outage 413472 single phase outage had incorrect CMI Reconductoring the single phase section under reliability preservation EOR completed 2009 Trimming to start this June.	Completed	2/28/2010	Created Work request to add sectionalizing. Thermovision scheduled.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>31</b>	<b>Circuit ID: 16402 MOUNT POCONO 64-02</b>			<b>Location: Pocono</b> <b>CPI: 475</b>
	4/8/2008: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2008	Two breaker outages and two OCR outages caused nearly half the line to experience greater than 3 outages.
	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
	1/14/2010: 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.
	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	
<b>32</b>	<b>Circuit ID: 41002 LAURELTON 10-02</b>			<b>Location: Sunbury</b> <b>CPI: 474</b>
	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.
<b>33</b>	<b>Circuit ID: 66001 RHEEMS 60-01</b>			<b>Location: Lancaster</b> <b>CPI: 472</b>
	1/4/2010: Expanded Operational Review.	EOR planned	12/31/2010	
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list. 66.19% of CPI from # Customers w/ > 3 Interruptions. This is the 1st time the circuit has appeared on the WPC list. Tree trimming last performed in 2006. Circuit is scheduled for maintenance trimming in 2010.	Completed	2/28/2010	Reduced outage risk. Animal Guarding the substation field engineering to provide updated RIS. There is a project to install SCADA in 2012. LMI inspection scheduled for 2nd Quarter 2010. Protection to verify the sectionalizer at 33178S29332 can be changed to an OCR with Telemetrics. Will then have an LBAS at 33515s29050 changed to a VCR and a ROCS installed on the tie LBAS at 32896S29386, 34048S28709, and 33222S29147.Green Tree Rd.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>34</b>	<b>Circuit ID: 27101 GREENFIELD 71-01</b>			<b>Location: Scranton</b>	<b>CPI: 463</b>
	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.	
<b>35</b>	<b>Circuit ID: 16101 BINGEN 61-01</b>			<b>Location: Bethlehem</b>	<b>CPI: 455</b>
	11/30/2006: Reconductor single phase line with XLP and stronger conductor.	Scheduled for	5/31/2010	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.	
	4/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2009		
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>36</b>	<b>Circuit ID: 55001 NEWPORT 50-01</b>			<b>Location: West Shore</b>	<b>CPI: 453</b>
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/30/2009		
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>37</b>	<b>Circuit ID: 18501 CANADENSIS 85-01</b>			<b>Location: Pocono</b>	<b>CPI: 451</b>
	1/1/2008: Expanded Operational Review.	EOR planned	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.	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>38</b>	<b>Circuit ID: 45501 DERRY 55-01</b>			<b>Location: Sunbury</b>
				<b>CPI: 449</b>
	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	
<b>39</b>	<b>Circuit ID: 40201 BEAR GAP 02-01</b>			<b>Location: Central</b>
				<b>CPI: 447</b>
	7/19/2007: Load balancing. Phase swapping to take place to balance load @34408N24524. Balancing single phase off of the two phase @ 34307N24534.	Completed	4/30/2008	Increase power quality.
	7/19/2007: Install a voltage regulator @ 37173N26626.	Completed	4/30/2008	Increase power quality.
	7/19/2007: Install a 100 Fixed Capacitor Bank @ 37116N27251.	Completed	4/30/2008	Reduced outage risk. This is to improve voltage on this single phase tap.
	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.
	4/20/2009: Install 7 new fault indicators to help reduce outage durations.	Scheduled for	7/9/2010	
	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	
	6/15/2009: Relocate inaccessible line. Relocate three phase line to main road and remove inaccessible single-phase tap.	Scheduled for	9/24/2010	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.
	2/24/2010: Relocate inaccessible line. Relocate 3-phase line to road.	Scheduled for	12/31/2010	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>40</b>	<b>Circuit ID: 46702 RENOVO 67-02</b>			<b>Location: Susquehanna</b>
				<b>CPI: 435</b>
	1/2/2009: Expanded Operational Review.	Completed	12/31/2009	Additional fusing identified. Animal guard on Young Woman's Creek. Field reviewed circuit for reliability improvements. Performed Voltage/load/VAR study in CYME. Performed risk analysis on UG dips.
	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	Voltage Support
	1/4/2010: Install fuse(s). Install 2 fuses on Renovo Rd.	Completed	3/31/2010	Reduced customer count affected by each outage.
	1/4/2010: Install fuse(s). Install 8 fuses along Young Womans Creek Rd.	Scheduled for	5/31/2010	Reduced customer count affected by each outage.
	1/4/2010: Install fuse(s). Install 8 fuses in Renovo Boro.	Scheduled for	5/31/2010	Reduced customer count affected by each outage.
<b>41</b>	<b>Circuit ID: 26002 WEST DAMASCUS 60-02</b>			<b>Location: Pocono</b>
				<b>CPI: 433</b>
	4/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2009	There was a long duration breaker outage in Q1 of 2009 due to vehicle hit.
	8/11/2006: Monitor future performance.	Completed	7/15/2009	There was a large OCR outage due to trees from outside the ROW in Q2 2009 during a thunderstorm.
	8/11/2006: Install sectionalizers. An intelligent switching project has been identified to reduce customer minutes lost.	Completed	12/31/2009	Reduced customer count affected by each outage.
	8/14/2007: Tree trimming.	Completed	8/31/2009	Reduced outage risk.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>42</b>	<b>Circuit ID: 43102 SOUTH MILTON 31-02</b>			<b>Location: Sunbury</b>	<b>CPI: 427</b>
	12/5/2008: Expanded Operational Review.	Completed	12/31/2009	Reduced outage risk.	
	1/28/2009: Install 3 phase OCR(s). Install new vacuum recloser with Telemetrics control for remote operation.	Scheduled for	7/22/2010		
	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.	
<b>43</b>	<b>Circuit ID: 16401 MOUNT POCONO 64-01</b>			<b>Location: Pocono</b>	<b>CPI: 422</b>
	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.	
<b>44</b>	<b>Circuit ID: 22601 KIMBLES 26-01</b>			<b>Location: Pocono</b>	<b>CPI: 398</b>
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	2/28/2010		

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>45</b>	<b>Circuit ID: 63403 HONEYBROOK 34-03</b>			<b>Location: Lancaster East</b>	<b>CPI: 391</b>
	9/29/2007: Install 3 phase OCR(s). Install three phase OCR with telemetric control per WPC review.	Completed	5/22/2008	Reduced customer count affected by each outage.	
	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.	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	6/30/2010		
<b>46</b>	<b>Circuit ID: 47401 PENNS 74-01</b>			<b>Location: Sunbury</b>	<b>CPI: 389</b>
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>47</b>	<b>Circuit ID: 13603 RICHLAND 36-03</b>			<b>Location: Bethlehem</b>	<b>CPI: 388</b>
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>48</b>	<b>Circuit ID: 43104 SOUTH MILTON 31-04</b>			<b>Location: Sunbury</b>	<b>CPI: 385</b>
	12/5/2008: Expanded Operational Review.	Completed	12/31/2009	Reduced outage risk.	
	10/9/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2009	The South Milton 31-04 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 when the circuit breaker at the substation was affected. This single event is the sole driver for this circuit to be on the WPC list. Key improvement initiatives on this line include evaluating the possibility of installing additional sectionalizing devices. In 2009, animal guard was installed at all transformer locations in Milton Boro.	

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>49</b>	<b>Circuit ID: 61001 DONNERVILLE 10-01</b>			<b>Location: Lancaster</b>
				<b>CPI: 385</b>
	1/2/2008: Expanded Operational Review. Reliability Analysis Completed 1/24/08 Voltage profile completed 7/2/08	Completed	11/24/2008	See subsequent records for reliability work requests
	6/18/2008: Install animal guard(s). Install animal guards on 11 transformers and 4 load break air switches.	Scheduled for	12/31/2010	Reduced outage risk.
	6/18/2008: Install fuse(s). Install fuse cut-out on pole # 37609S25798.	Completed	7/29/2008	Reduced customer count affected by each outage.
	11/24/2008: Load balancing. Phase swap Cph to Aph @ 37750s25685	Completed	2/2/2009	Improved power quality.
	2/25/2009: Line inspection-equipment.	Completed	2/25/2009	Reduced outage risk.
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	6/30/2010	
<b>50</b>	<b>Circuit ID: 46506 LOCK HAVEN 65-06</b>			<b>Location: Susquehanna</b>
				<b>CPI: 378</b>
	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.



<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>
<b>51</b>	<b>Circuit ID: 47403 PENNS 74-03</b>			<b>Location: Sunbury</b> <b>CPI: 378</b>
	5/1/2008: Load balancing.	Canceled	6/30/2008	Load Balancing to accommodate line transfer of customers from Middleburg 42903 to the Penns 47403. Transferring load and customers to better analyze loading issues and flickering light issues in the town of Kreamer.
	5/1/2008: Reconductor line.	Completed	9/11/2008	Reduced outage risk. Reconducted approximately seven spans from 4/0 cu to 477 ACSR to increase load capability.
	Install LBAS(s).	Completed	5/1/2009	Installing LBAS (21573S53611) to accommodate line transfer of customers from Middleburg 42903 to the Penns 47403. Transferring load and customers to better analyze loading issues and flickering light issues in the town of Kreamer.
	5/1/2008: Install sectionalizers. Installed Voltage Regulator	Completed	6/2/2008	Reduced outage risk. Installed Voltage Regulator (21762S53414) on WR 441340 to accommodate line transfer of customers from Middleburg 42903 to the Penns 47403. Transferring load and customers to better analyze loading issues and flickering light issues in the town of Kreamer. Regulator will assist in regulating voltage for the residence south of Kreamer on Freeburg Road.
	1/13/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	2/24/2009	Reduced outage risk. The Penns #3 line was discussed at Susquehanna Region's Worst Performing Circuit Meeting on February 24, 2009. This circuit is a Worst Performing Circuit because of the number of customers experiencing more than 3 outages. This line serves about 360 customers. The substation circuit breaker was interrupted two times within the past 12 months, along with several tap fuses impacting about 100 customers each. These outages have been isolated cases and no pattern of poor performance is expected to continue. This circuit has typically not been a worst performer, and is expected drop off the list once the 3rd Quarter of 2008 is dropped from the calculation..
	Reconductor line.	Completed	11/30/2009	Reduced outage risk.
	1/18/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/4/2010	Reduced outage risk. The Penns 74-03 circuit was discussed at Susquehanna Region's WPC meeting on March 4, 2010. This line is categorized as WPC because of customers experiencing outages in excess of 4 hours. Most of these events occurred during severe weather conditions, including outages in August in October. This line will be reviewed for additional sectionalizing to reduce outage durations.
<b>52</b>	<b>Circuit ID: 26601 BROOKSIDE 66-01</b>			<b>Location: Scranton</b> <b>CPI: 378</b>
	Monitor future performance.	Ongoing		
	Expanded Operational Review.	Completed	12/31/2008	Reduced outage risk.

<i>Rank</i>	<i>Action</i>	<i>Status</i>	<i>Due/Complete</i>	<i>Result</i>	
<b>53</b>	<b>Circuit ID: 44903 SCOTT 49-03</b>			<b>Location: Sunbury</b>	<b>CPI: 366</b>
	12/31/2007: Expanded Operational Review.	Completed	9/30/2008	Reduced outage risk. No issues identified.	
	7/10/2009: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/25/2009	Reduced outage risk. The Scott 49-03 circuit was discussed at Susquehanna Region's 2009 Q2 Worst Performing Circuits meeting on August 25, 2009. This circuit is a WPC because of a high number of customers experiencing more than 3 interruptions. All customers on this line were interrupted 2X due to a transmission outage. Approximately 650 customers were interrupted 2X due to vehicles striking PPL facilities. This circuit is typically not a worst performer and is expected to drop off the list next quarter assuming continued good performance in Q3 2009.	
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>54</b>	<b>Circuit ID: 15704 TANNERSVILLE 57-04</b>			<b>Location: Pocono</b>	<b>CPI: 365</b>
	1/1/2008: Expanded Operational Review.	EOR planned	12/31/2008		
	2/14/2008: Monitor future performance.	Ongoing			
	4/21/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/31/2010		
<b>55</b>	<b>Circuit ID: 28001 TAFTON 80-01</b>			<b>Location: Pocono</b>	<b>CPI: 359</b>
	1/2/2007: Load balancing. Identified 3 phase swaps with single phase taps to balance current and voltage on the 3 phase line.	Completed	5/30/2008	Reduced outage risk.	
	4/8/2008: Circuit outage data analysis.	Completed	5/31/2008	A large long duration OCR outage in Q1 2008 contributed to the CPI for this circuit.	
	1/13/2009: Circuit outage data analysis.	Completed	2/28/2009	This circuit experienced a long duration breaker outage and many smaller long duration outages during the October 2008 snowstorm which significantly contributed to the CPI for this circuit. Over 1.9 million customer minutes were lost during this storm.	
	4/20/2009: Monitor future performance.	Ongoing		Inconclusive. Monitor future performance. Circuit performance improved in Q1 2009. In Q2 2009 there have been several small long duration outages due to trees from outside the ROW contacting the line during thunderstorms. Circuit performance improved in Q3 2009.	
<b>56</b>	<b>Circuit ID: 64704 LITITZ 47-04</b>			<b>Location: Lancaster East</b>	<b>CPI: 359</b>
	1/13/2010: Circuit outage data analysis - WPC not on preceding qtr. list. 46.87% of CPI from SAIFI contribution 34.49% of CPI from SAIDI contribution	Completed	2/28/2010		
	This is the 1st time the circuit has appeared on the WPC list. Appears to be a data correction issue.				

- 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 <sup>6</sup>	Percent of Trouble Cases	Customer Interruptions <sup>7</sup>	Percent of Customer Interruptions	Customer Minutes	Percent of Customer Minutes
Improper Design	0	0.00%	0	0.00%	0	0.00%
Improper Installation	6	0.03%	5,630	0.44%	560,012	0.35%
Improper Operation	1	0.01%	1,342	0.11%	10,749	0.01%
Trees-Trimming Related	667	3.71%	33,631	2.64%	5,339,344	3.32%
Trees-Not Trimming Related	4,589	25.53%	375,867	29.56%	73,166,699	45.54%
Animals	3,978	22.13%	94,927	7.46%	6,286,503	3.91%
Vehicles	724	4.03%	129,560	10.19%	11,875,584	7.39%
Contact/Dig-In	160	0.89%	20,076	1.58%	971,814	0.60%
Equipment Failure	5,355	29.79%	448,063	35.23%	46,900,954	29.19%
Directed by Non-PPL Authority	133	0.74%	4,774	0.38%	464,842	0.29%
Other-Controllable	106	0.59%	3,094	0.24%	390,979	0.24%
Nothing Found	1,666	9.27%	92,333	7.26%	8,666,354	5.39%
Other-Public	106	0.59%	11,164	0.88%	926,496	0.58%
Other-Non Control	485	2.70%	51,258	4.03%	5,104,458	3.18%
<b>TOTAL</b>	<b>17,976</b>	<b>100.00%</b>	<b>1,271,719</b>	<b>100.00%</b>	<b>160,664,790</b>	<b>100.00%</b>

<sup>6</sup> Trouble cases are the number of sustained customer service interruptions (i.e., service outages).

<sup>7</sup> 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:** In 2007, PPL Electric adopted shortened maintenance trimming cycles for both urban and rural circuits to improve reliability. The shortened cycle times took effect on January 1, 2007, but 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 service 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 22% 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 83% of the number of cases of trouble is 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. PPL Electric installs animal guards on new distribution transformer 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 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 32% of the cases of trouble, 35% of the customer interruptions and 38% 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	1st Quarter		Year-to-date	
		Budget	Actual	Budget	Actual
<b>Transmission</b>					
Transmission C-tag poles (# of poles)	200	50	40	50	40
Transmission arm replacements (# of sets)	300	24	1	24	1
Transmission lightning arrester installations (# of sets)	100	21	19	21	19
Foot patrols (# of miles)	0	0	0	0	0
Transmission air break switch inspections (# of)	110	0	21	0	21
<b>Substation</b>					
Substation batteries (# of activities)	851	550	563	550	563
Circuit breakers (# of activities)	1,638	434	340	434	340
Substation inspections (# of activities)	1,794	700	694	700	694
Transformer maintenance (# of activities)	2,177	429	501	429	501
<b>Distribution</b>					
Distribution C-tag poles replaced (# of poles)	2,000	728	290	728	290
C-truss distribution poles (# of poles)	1,800	0	12	0	12
Capacitor (MVAR added)	81.5	26	27	26	27
OCR replacements (# of)	715	272	206	272	206
Oil Switch replacements (# of)	20	3	0	3	0
Distribution air break switch inspections (# of)	310	88	90	88	90
Distribution pole inspections (# of poles)	95,000	0	0	0	0
Distribution line inspections (# of miles)	3,000	500	214	500	214
Group relamping (# of lamps)	16,029	0	0	0	0
Test sections of underground distribution cable	430	96	90	96	90
LTN manhole inspections (# of)	500	110	161	110	161
LTN vault inspections (# of)	821	210	121	210	121
LTN network protector overhauls (# of)	79	12	9	12	9
LTN reverse power trip testing (# of)	132	8	27	8	27

- 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	1st Quarter		Year-to-date	
	Budget (\$000)	Actual (\$000)	Budget (\$000)	Actual (\$000)
Provide Electric Service	2,658	2,179	2,658	2,179
Vegetation Management	7,341	7,579	7,341	7,579
Customer Response	13,464	13,910	13,464	13,910
Reliability & Maintenance	15,669	10,531	15,669	10,531
System Upgrade	804	417	804	417
Customer Services/Accounts	29,467	23,736	29,467	23,736
Others	14,570	13,462	14,570	13,462
<b>Total O&amp;M Expenses</b>	<b>83,972</b>	<b>71,814</b>	<b>83,972</b>	<b>71,814</b>

- 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.

Activity	1 <sup>st</sup> Quarter		Year-to-date	
	Budget (\$000)	Actual (\$000)	Budget (\$000)	Actual (\$000)
New Service/Revenue	17,288	12,296	17,288	12,296
System Upgrade	26,525	21,484	26,525	21,484
Reliability & Maintenance	24,071	17,224	24,071	17,224
Customer Response	4,858	4,487	4,858	4,487
Other	4,228	2,668	4,228	2,668
<b>Total</b>	<b>76,970</b>	<b>58,159</b>	<b>76,970</b>	<b>58,159</b>

- 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.

<b>Transmission and Distribution (T&amp;D)</b>	
Lineman Leader	81
Journeyman Lineman	138
Journeyman Lineman-Trainee	149
Helper	31
Groundhand	15
Troubleman	56
<b>T&amp;D Total</b>	<b>470</b>
<b>Electrical</b>	
Elect Leaders-UG	7
Elect Leaders-Net	8
Elect Leaders-Sub	26
Journeyman Elect-UG	26
Journeyman Elect-Net	8
Journeyman Elect-Sub	46
Journeyman Elect Trainee-UG	10
Journeyman Elect Trainee-Net	11
Journeyman Elect Trainee	41
Helper	15
Laborer-Network	0
Laborer-Substation	2
<b>Electrical Total</b>	<b>200</b>
<b>Overall Total</b>	<b>670</b>

***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%

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 <sup>1</sup>	Controllable	<ul style="list-style-type: none"><li>• 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)</li></ul>
11 – Improper Installation	Controllable	<ul style="list-style-type: none"><li>• 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)</li></ul>
12 – Improper Operation	Controllable	<ul style="list-style-type: none"><li>• 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)</li></ul>
30 – Trees – Trimming Related <sup>8</sup>	Controllable	<ul style="list-style-type: none"><li>• Outages resulting from conductors contacted by tree growth within the clearance zone defined by the current trimming specification (within the Rights-of-Way).</li></ul>
35 – Trees – Not Trimming Related	Non-Controllable	<ul style="list-style-type: none"><li>• 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.</li></ul>
40 – Animals	Controllable	<ul style="list-style-type: none"><li>• Any outage caused by an animal directly or indirectly coming in contact with PPL Electric facilities. This includes birds, squirrels, raccoons, snakes, cows, etc.</li></ul>
41 – Vehicles	Public	<ul style="list-style-type: none"><li>• When cars, trucks or other types of vehicles or their cargoes strike facilities causing a problem.</li></ul>

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<sup>8</sup> 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"> <li>• 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.).</li> <li>• When contact is made by a non-employee with an underground facility causing interruption.</li> </ul>
60 – Equipment Failure	Controllable	<ul style="list-style-type: none"> <li>• Outages resulting from equipment failures caused by corrosion or contamination from build-up of materials, such as cement dust or other pollutants.</li> <li>• Outages resulting from a component wearing out due to age or exposure, including fuse tearing or breaking.</li> <li>• Outages resulting from a component or substance comprising a piece of equipment failing to perform its intended function.</li> <li>• 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.</li> </ul>
77 – Non-PPL Problem – Other	Non-PPL	<ul style="list-style-type: none"> <li>• Where no PPL Electric or customer facilities were affected, and no repair or restoration was carried out on PPL Electric equipment.</li> </ul>
78 – Non-PPL Problem – Customer Facility	Non-PPL	<ul style="list-style-type: none"> <li>• Where no PPL Electric facilities were affected, and no repair or restoration was carried out on PPL Electric equipment.</li> </ul>
80 – Scheduled Outage <sup>9</sup>	Controllable	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Includes requests from customers for interruption of PPL Electric facilities.</li> </ul>

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<sup>9</sup> 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 outage when the interruption is postponed.

## Appendix B

85 – Directed by Non-PPL Authority	Non-Controllable	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul>
90 – Other – Controllable (Lineman provides explanation)	Controllable	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Interruptions resulting from excessive load that cause that facility to fail.</li> <li>• 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.</li> <li>• Controllable interruptions or Power Service Problems whose cause is not described by one of the previous controllable cause codes.</li> </ul>
96 – Nothing Found	Non-Controllable	<ul style="list-style-type: none"> <li>• When no cause for the interruption can be found.</li> <li>• 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.</li> <li>• When closed for test, the fuse holds or the OCR remains closed. A patrol of the tap reveals nothing.</li> </ul>
98 – Other Public (Lineman provides explanation)	Public	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

## Appendix B

99 – Other – Non-Controllable (Lineman provides explanation)	Non-Controllable	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• All problems caused by contact of energized equipment with facilities of other attached companies or by trouble on customer owned equipment.</li><li>• 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.</li></ul>
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***PPL Electric Utilities Corporation***  
***Job Descriptions***

***Transmission and Distribution***

Groundhand	<ul style="list-style-type: none"><li>• Performs manual labor and assists employees in higher job classifications.</li></ul>
Helper	<ul style="list-style-type: none"><li>• 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.</li></ul>
Journeyman Lineman	<ul style="list-style-type: none"><li>• 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.</li></ul>
Journeyman Lineman-Trainee	<ul style="list-style-type: none"><li>• 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.</li></ul>
Lineman Leader	<ul style="list-style-type: none"><li>• 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.</li><li>• Engage in and perform work along with providing the necessary leadership, all-around knowledge, initiative, judgment, and experience to produce a quality job.</li><li>• Performs all the direct duties of the Journeyman Lineman when not acting as a Lineman Leader.</li></ul>
Troubleman	<ul style="list-style-type: none"><li>• Investigates and resolves trouble calls, voltage abnormalities on transmission and distribution systems associated with, but not limited to, PPL Electric facilities.</li></ul>

***Electrical***

<p>Electrician Leader          - Substation          - Network          - Underground</p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Engage in and perform work along with providing the necessary leadership, all-around knowledge, initiative, judgment, and experience to produce a quality job.</li> <li>• Performs all direct duties of the Journeyman Electrician when not acting as a leader.</li> </ul>
<p>Helper          - Substation          - Network          - Underground</p>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<p>Laborer          - Substation          - Network          - Underground</p>	<ul style="list-style-type: none"> <li>• Performs manual labor and assists employees in higher job classifications.</li> </ul>
<p>Journeyman Electrician          - Substation          - Network          - Underground</p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Uses microprocessor based equipment for troubleshooting and revising relay logic and its control systems related to the Field Services electrical discipline.</li> </ul>
<p>Journeyman Electrician - Trainee          - Substation          - Network          - Underground</p>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Uses microprocessor based equipment for troubleshooting and revising relay logic and its control systems related to the Field Services electrical discipline.</li> </ul>

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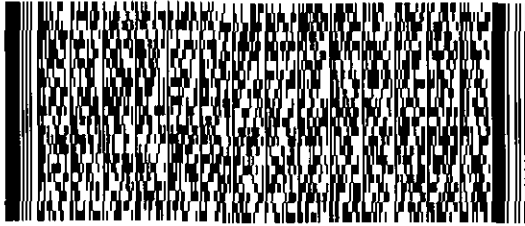
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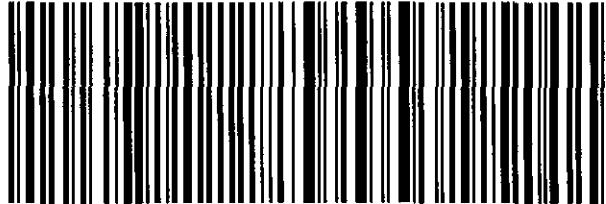
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