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

October 30, 2012

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

Re: PPL Electric Utilities Corporation
Quarterly Reliability Report for the
Period Ended September 30, 2012
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 September 30, 2012. Also enclosed, in a sealed envelope, is a copy of the report containing competitively sensitive and proprietary information. The Company hereby requests that the Commission treat that information, and the report containing the information, as privileged and confidential. The report is being filed pursuant to the Commission's Final Rulemaking Order adopted May 7, 2004 in the above-captioned docket.

Pursuant to 52 Pa. Code § 1.11, the enclosed document is to be deemed filed on October 30, 2012, 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: Mr. Darren Gill
Mr. Daniel Searfoorce
Ms. Yasmin Snowberger

PPL Electric Utilities

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

November 2012

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

There were no major events during the third quarter ended September 30, 2012.

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

The following table provides data for the 12 months ended September 30, 2012[1].

SAIFI (Benchmark = 0.98; Rolling 12-month Std. = 1.18)	1.034
CAIDI (Benchmark = 145; Rolling 12-month Std. = 174)	149
SAIDI (Benchmark = 142; Rolling 12-month Std. = 205)	155
MAIFI[2]	4.09
Average Number of Customers Served[3]	1,390,552
Number of Sustained Customer Interruptions (Trouble Cases)	16,645
Number of Customers Affected[4]	1,438,012
Customer Minutes of Interruptions	215,373,040
Number of Customer Momentary Interruptions	5,693,678

During the 3rd quarter there were no PUC major events, four (4) PUC Reportable storms, and seven (7) other storms that required the opening of one or more area emergency centers to manage restoration efforts.

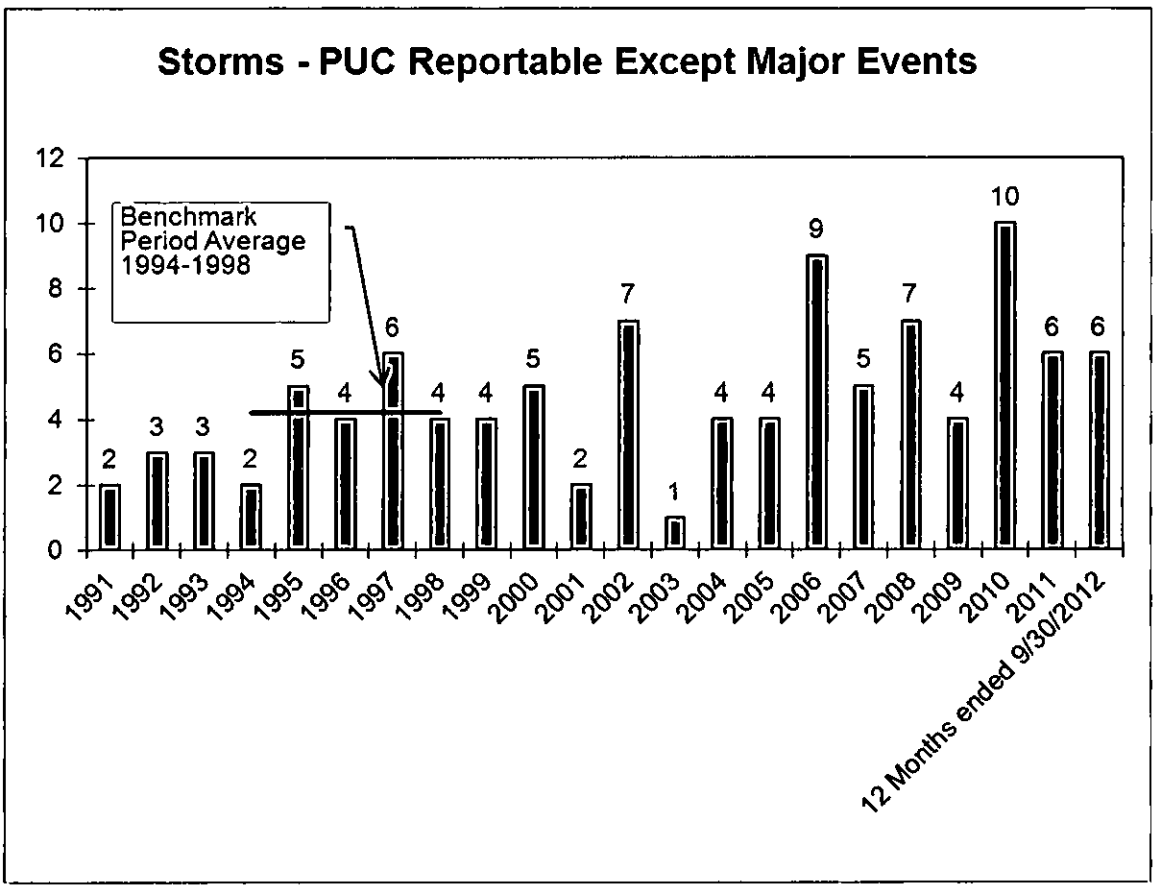
[1] Non-PPL Electric problems are excluded here, but may be found in Item 5.

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

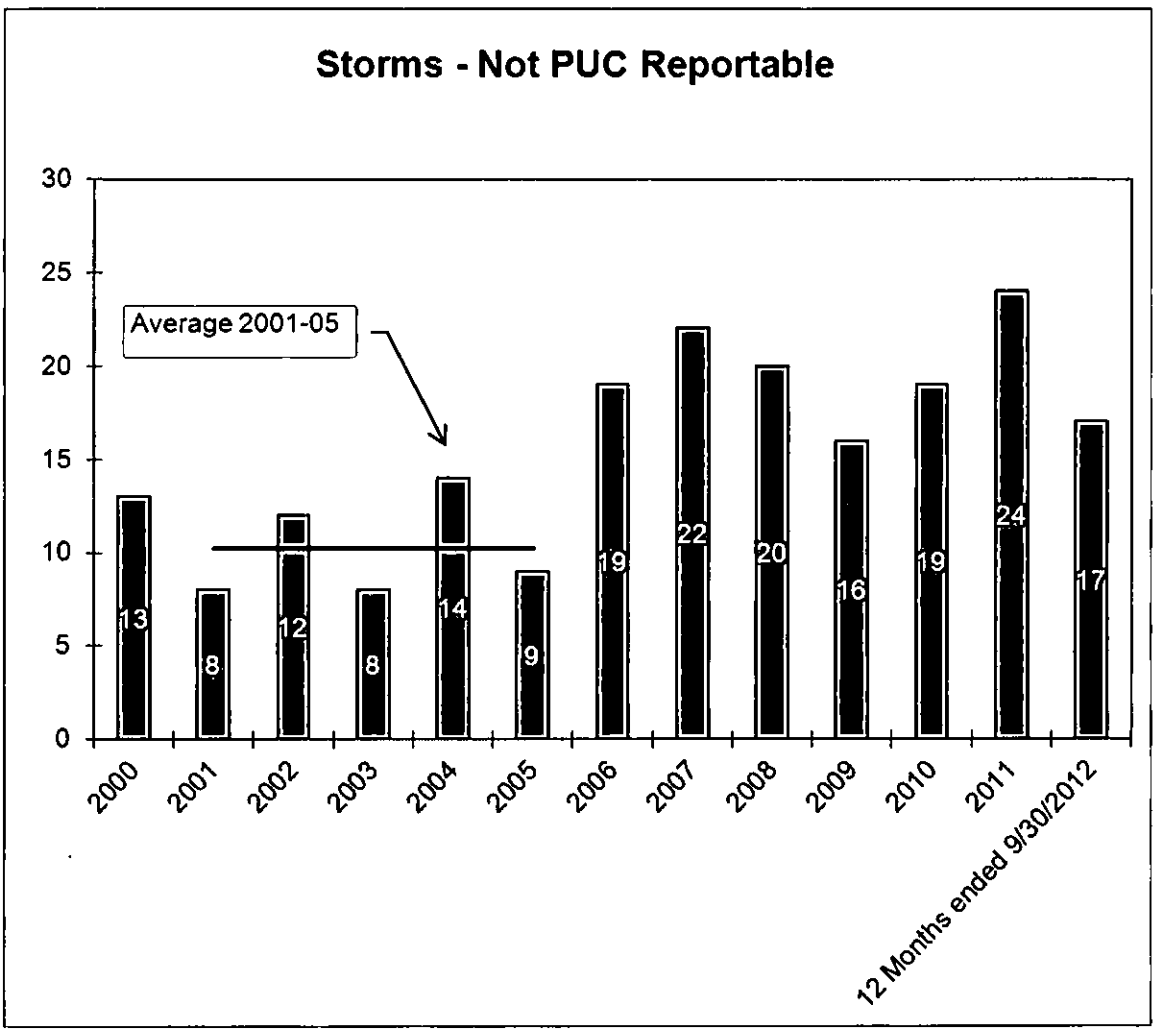
[3] PPL Electric calculates the annual indices using customers served at the end of the period. This is consistent with the method used to calculate PPL Electric's benchmarks.

[4] 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 was one (1) PUC major event and six (6) PUC-reportable storms (≥ 2,500 customers interrupted for ≥ 6 hours) other than major events.



In addition, there were seventeen (17) storms that were not reportable, but which did require the opening of one or more area emergency centers to manage restoration efforts.



2) ***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	13902	5.509	127.04	699.94	19.99	1869	31	1,308,196	1025
2	11406	3.089	266.30	822.57	5.05	1013	15	833,260	972
3	46602	4.285	254.81	1,091.8	0.00	1548	67	1,690,180	924
4	43001	5.264	134.10	705.97	4.09	972	50	686,207	922
5	55502	4.78	122.71	586.58	0.00	1591	23	933,242	919
6	23401	6.09	97.065	591.12	4.10	1736	65	1,026,180	915
7	45402	5.21	215.24	1,121.5	6.16	1592	60	1,785,434	903
8	47502	4.067	243.46	990.05	3.10	782	32	774,217	837
9	55401	3.917	208.88	818.14	2.07	2134	16	1,745,901	810
10	24401	2.518	709.95	1,787.5	5.01	1234	45	2,205,822	792
11	28402	4.448	190.18	846.03	10.18	1590	43	1,345,186	789
12	13702	5.307	71.578	379.85	2.98	717	17	272,355	782
13	14403	2.73	164.87	450.08	4.64	2554	62	1,149,504	753
14	22601	3.649	151.17	551.65	2.05	1978	60	1,091,173	746
15	11404	5.497	55.780	306.61	1.00	767	9	235,170	746
16	51401	4.224	92.889	392.38	1.00	464	12	182,064	737
17	20403	3.878	115.41	447.57	0.00	1909	48	854,414	731
18	13704	5.707	157.31	897.85	4.74	1575	42	1,414,108	724
19	52002	3.696	109.63	405.27	7.02	1647	20	667,482	696
20	13503	4.204	109.74	461.35	8.58	1417	21	653,740	695
21	27501	1.9	722.38	1,372.2	1.06	1265	20	1,735,880	683
22	12102	2.673	302.79	809.36	1.00	1110	30	898,385	681
23	67803	3.484	274.61	956.62	11.01	1969	34	1,883,575	676
24	62604	3.947	97.083	383.17	3.00	1354	9	518,812	672
25	43101	3.278	288.35	945.1	2.00	1434	24	1,355,279	668
26	60406	9.392	127.93	1,201.6	2.01	204	1	245,127	655
27	45501	3.062	324.16	992.57	2.05	1437	63	1,426,325	637
28	47704	2.812	527.09	1,482.1	6.13	734	28	1,087,929	627

[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	43302	5.58	265.07	1,479.0	5.01	176	7	260,304	615
30	25801	2.034	532.62	1,083.2	0.00	1803	38	1,953,131	613
31	55507	1.587	108.09	171.59	0.00	1013	12	173,820	607
32	16202	2.304	489.03	1,126.5	2.02	1443	19	1,625,556	603
33	23001	3.6	133.32	479.96	8.09	1392	24	668,106	584
34	24402	3.179	244.68	777.73	3.00	493	14	383,420	580
35	22602	3.792	95.015	360.29	6.08	1538	39	554,131	563
36	28501	1	1267.8	1,267.8	0.00	1	1	1,268	554
37	47703	2.738	299.31	819.55	8.02	1382	41	1,132,621	548
38	22002	4.102	118.34	485.46	2.99	1393	42	676,239	545
39	16801	3.452	111.27	384.15	7.13	1599	56	614,257	544
40	11405	3.208	121.98	391.34	6.04	1860	23	727,889	535
41	64904	3.213	241.52	775.97	2.01	3026	8	2,348,098	521
42	46701	1.459	732.21	1,068.2	3.08	706	14	754,183	513
43	10205	3.112	241.41	751.23	0.99	2844	16	2,136,497	510
44	28302	3.664	119.22	436.88	6.10	2813	104	1,228,943	505
45	25502	6.081	80.694	490.71	2.32	493	13	241,922	499
46	28403	3.784	126.20	477.59	3.10	1530	35	730,720	494
47	18501	2.409	327.66	789.19	3.03	1449	27	1,143,541	484
48	27101	3.339	147.47	492.39	2.64	1883	64	927,170	481
49	45302	2.002	450.44	901.62	2.99	1213	27	1,093,670	478
50	43401	3.293	121.65	400.65	0.00	992	26	397,441	470
51	29402	2.452	233.58	572.72	3.03	1567	20	897,448	469
52	57403	3.743	85.063	318.42	5.05	1457	27	463,935	468
53	14801	3.449	183.14	631.7	0.61	1794	28	1,133,274	467
54	12301	2.234	203.73	455.13	0.00	1231	51	560,270	466
55	44702	2.208	173.06	382.2	5.22	451	13	172,371	454
56	45002	1.952	380.67	742.93	1.00	1922	36	1,427,916	454
57	43102	2.612	225.09	588.04	2.01	970	19	570,402	448
58	62602	2.914	204.69	596.45	3.03	499	12	297,628	447

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 whether there are causal patterns or geographic patterns for which corrective actions are feasible that would improve the circuit's CPI.

PPL Electric currently is evaluating improvements to its Worst Performing Circuit program.

(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: 13902 SEIDERSVILLE 39-02**			**Location: Bethlehem** **CPI: 1025**
	7/5/2012: Expanded Operational Review.	Completed	7/31/2012	Developed 7 Work Requests to reduce outage risk and improve circuit performance.
	7/19/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2012	Determined that additional three phase sectionalizing and automation will greatly reduce customers affected and restoration times. WO's developed to address these issues.
	7/23/2012: Transferring 110 customers to a more reliable, adjacent circuit.	Completed	8/30/2012	Reduced customer count affected by each outage.
	WO# 42073599			
	7/23/2012: Install LBAS(s). Installing Remote 65537s47000controlled switch to reduce restoration times.	Scheduled for	12/31/2012	
	7/23/2012: Install fuse(s). WO#'s 42075448, 42075446, 42075790, 42075787, 420,75789, 42075788. Fuses to isolate exposed single and 3 phase taps from tripping breaker.	Scheduled for	6/30/2013	
2	**Circuit ID: 11406 FARMERSVILLE 14-06**			**Location: Bethlehem** **CPI: 971**
	6/27/2012: Expanded Operational Review.	Completed	10/1/2012	Developed two WO's to reduce outage risk and restoration times.
	6/27/2012: Expanded Operational Review.	Completed	10/1/2012	Developed WO to improve circuit performance.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
	10/25/2012: Load balancing. WO#: 42073592 @ 67100S50812	Scheduled for	12/31/2013	
	10/25/2012: WO#: 42073596 - Install new recloser @ 67056S50819	Scheduled for	12/31/2013	
	10/25/2012: Install fuse(s). WO#: 42073597 - Install fuse @ 67464S50472	Scheduled for	12/31/2013	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
3	**Circuit ID: 46602 LARRYS CREEK 66-02**			**Location: Susquehanna** **CPI: 934**
	7/6/2010: Install fuse(s).	Completed	3/1/2011	Reduced customer count affected by each outage. Installed fusing to reduce outage exposure. WR 556905 - Install 5 fuses WR 556906 - Install 1 fuse WR 556915 - Install 1 fuse WR 556903 - Install 1 fuse WR 556899 - Install 1 fuse on Pine Run Rd WR 535701 - Install 1 fuse along Spook Hollow Rd WR 556898 - Install 2 fuses on Youngs Rd WR 556897 - Install 1 fuse on Level Corners Rd
	7/7/2010: Relocate inaccessible line.	Scheduled for	3/14/2013	WR 556910 - Relocate Inaccessible Line along Tombs Run Rd.
4	**Circuit ID: 43001 ALLENWOOD 30-01**			**Location: Sunbury** **CPI: 922**
	4/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	6/14/2012	On December 1, 2012 all of the customers on this circuit were out of service when the Lycoming - Lewisburg 69 kV line went out. All 973 customers on this circuit were transferred to the WATS 33-1 circuit after the OCR at 22908N34599 was bypassed. On December 26, 2012, 542 customers downstream of OCR 20972N34933 experienced an outage when the device operated to lockout. The neutral broke loose and wrapped around the primary.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
5	**Circuit ID: 55502 HERSHEY 55-02**			**Location: Harrisburg** **CPI: 919**
	3/14/2012: Thermographic inspection-OH line. Inspected all 2 and 3 phase primary lines with infrared camera.	Completed	3/14/2012	Reduced outage risk.
	7/28/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	9/10/2012	The Hershey 55-2 line has approximately 1,600 customers across 38 circuit miles. The largest CPI contributor has been the percentage of customers with greater than 3 interruptions. The circuit breaker experienced four outages in the past year. On 03/10/12, a vehicle struck a pole and interrupted customers for 17 minutes. On 03/31/12, a customer cut a tree down onto the distribution line. On 06/30/12, a tree from outside the trimming right of way fell on the line. On 08/03/12, a tree branch making contact wore down the insulation on a span of XLP conductor and caused a permanent fault.
	10/4/2012: Tree trimming. Trim circuit as part of its four year Vegetation Management schedule.	Scheduled for	12/31/2013	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
6	**Circuit ID: 23401 HONESDALE 34-01**			**Location: Pocono** **CPI: 917**
	7/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/18/2011	Several outages occurred over the rolling four quarters as a result of non trimming related tree contacts. Of these outages, the three that accounted for the largest customer minutes interrupted values occcured in the past four months. On 6/9/11, a tree from outside the right of way contacted the primary wire and caused an outage for 1,805 customers and netted a CMI value of 596,296. Then on 7/29/11, a tree from outside the right of way caused an OCR to trip to lockout. This caused an outage for 751 PPL customers and resulted in a value of 431,575 CMI. On 9/5/11 the same OCR tripped to lockout due to a tree falling on the primary line from outside the right of way . This caused an outage for 751 PPL customers and totaled 166,122 CMI.
	10/17/2011: Evaluate potential ties.	Completed	6/29/2012	PPL is inspecting the capability of the tie line that connects the HONE 34-1 line to the TINK 44-1 line. If the tie line is nearing its capability to transfer in the next few years or reliability could be improved in any way, it is imperative that a project is planned to improve the reliability for the customers on these circuits.
	10/26/2012: Improve sectionalizing capability.	In progress		
7	**Circuit ID: 45402 WEST BLOOMSBURG 54-02**			**Location: Sunbury** **CPI: 903**
	11/13/2007: Install 3 phase OCR(s). Replace OCR 37694N30236 with telemetric OCR.	Completed	7/29/2011	Reduced outage duration.
	5/15/2008: Perform line maintenance identified by line inspection. Eliminate exposure of unused 3 phase line by Rte 487 bridge.	Completed	7/29/2011	Reduced outage risk.
	11/26/2008: Install 3 phase OCR(s). Upgrade OCR 38029N29537 with Telemetric VCR.	Completed	7/29/2011	Reduced outage duration.
	4/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	6/14/2012	On February 20, 2012 all of the customers on this circuit were out of service when two conductors came down and contacted the ground at 36113N30401. Restoration was delayed due to switching problems caused by cold load pick-up. On September 15, 2012 and September 27, 2012 the WBLO 54-2 Sect VCR at 37624N30209 tripped and did not reclose due to a Temporarily Cleared Green Tag Permit. There are 748 customers downstream from this device. This Green tag permit was likely taken out during construction of the WBLO 54-2 to WBER 53-3 tie. On May 27, 2011 a transmission outage left all of the customers on this circuit out of service for 4.5 hours.

Rank	Action	Status	Due/Complete	Result
8	**Circuit ID: 47502 NEW COLUMBIA 75-02**			**Location: Sunbury** **CPI: 838**
	1/6/2011: Expanded Operational Review. EOR Planned for 2011	Completed	12/31/2011	Reduced outage risk. A crimp in the secondary was discovered on 2/9/11 during Thermographic Inspection. Repairs were made on 5/18/11 under WR 641824.
	1/6/2011: Thermographic inspection-OH line. Thermovision inspection of 2 and 3 phase sections to be completed early 2011.	Completed	2/8/2011	Reduced outage risk. Completed 2/9/2011 - All necessary repairs completed.
	7/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	9/19/2011	This circuit was reviewed at the Susquehanna WPC meeting on 9/19/11. The largest contributor to the circuit performance index was a SAIDI contribution of 42.8%. On April 28, 2011 a microburst took down several spans of three phase circuit which caused the circuit breaker to open. Due to the extensive damage all of the customers on this line were out of service for 1,945 minutes. PPL will continue to monitor this circuit's future performance.
9	**Circuit ID: 55401 SOUTH HERSHEY 54-01**			**Location: Harrisburg** **CPI: 811**
	1/26/2011: Thermographic inspection-OH line.	Completed	2/28/2011	Inconclusive. Monitor future performance.
	1/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/12/2012	The South Hershey 54-01 line is a nonstandard 13 kV distribution circuit. The feeder has approximately 2,200 customers across 54 circuit miles. The largest CPI contributors have been the percentage of customers with greater than 3 outages. A three phase recloser serving over 1,600 customers experienced four interruptions in the past year. The outage causes include load shedding due to a substation transformer overload during maintenance, flooding during Tropical Storm Lee, failure of a downstream capacitor bank, and nothing found.
	3/12/2012: Install 3 phase OCR(s). Install 3 phase recloser. Install a new telemetered three phase recloser downstream of existing problematic recloser. The new device will allow for a system operator to remotely transfer approximately 1,000 customers in the event of an outage on an upstream device.	Scheduled for	12/31/2013	
	5/22/2012: Improve sectionalizing capability. Investigate improving sectionalizing capability by reconfiguring the circuit around the triangle of Rt 39 (Hershey Rd), N Hanover St, and E Canal St.	Scheduled for	11/15/2012	
	5/22/2012: Construct a new 69-13.2 kV West Hershey Substation to increase transfer capacity in the area as well as reduce customer counts and circuit miles on the South Hershey 54-01 line.	Scheduled for	5/30/2014	

Rank	Action	Status	Due/Complete	Result
10	**Circuit ID: 24401 TINKER 44-01**			**Location: Pocono** **CPI: 792**
	4/11/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2011	In May 2011, a part of the Tinker 44-1 12kV line load was transferred to the East Carbondale 12-6 12kV line. The reliability was significantly improved for the transferred customers.
	10/17/2011: Evaluate potential ties.	Completed	1/20/2012	Tie line capability is being analyzed between the Tinker 44-1 12kV line and Honesdale 34-1 12kV line. With this tie line capable of making transfers, customers from the Tinker line can be effectively restored during
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
11	**Circuit ID: 28402 HARTLAND 84-02**			**Location: Central** **CPI: 791**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
12	**Circuit ID: 13702 SCHNECKSVILLE 37-02**			**Location: Lehigh** **CPI: 782**
	4/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	9/30/2012	Circuit has no 3 phase sectionalizing or protective devices. Developed WR's to improve conditions.
	8/27/2012: Install 3 phase OCR(s). At grid location 59702S48072. Should reduce exposure to CB lockout.	Scheduled for	4/30/2013	
	9/6/2012: Install 3 phase OCR(s). Telemetric VCR at 59477S48102, WR 12028691.	Scheduled for	1/31/2013	
	9/6/2012: Line inspection-equipment. Performed line walkdown to identify possible trouble spots for trimming and potential projects. Generated 1 WR.	Completed	10/5/2012	Reduced outage risk.
	10/9/2012: Improve sectionalizing capability. Install ROCS at 59199S48178.	Scheduled for	5/31/2013	
13	**Circuit ID: 14403 SO SLATINGTON 44-03**			**Location: Lehigh** **CPI: 752**
	9/6/2012: Line inspection-equipment. Performed line walkdown to identify possible trouble spots for trimming and potential projects	Completed	6/30/2012	Generated 13 WR's to improve reliability of this circuit.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
14	**Circuit ID: 22601 KIMBLES 26-01**			**Location: Pocono** **CPI: 746**
	4/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	5/30/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*	
15	**Circuit ID: 11404 FARMERSVILLE 14-04**			**Location: Bethlehem**	**CPI: 746**
	6/25/2012: Expanded Operational Review.	Completed	7/31/2012	Developed WR's to improve circuit performance.	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012		
	10/25/2012: Intall 1200 kVAR capacitor @ 67473s49784 to improve voltage. WO#: 42071530	*Scheduled for*	*12/31/2012*		
16	**Circuit ID: 51401 LYKENS 14-01**			**Location: Harrisburg**	**CPI: 737**
	3/14/2012: Thermographic inspection-OH line. Inspected all 2 and 3 phase primary lines with infrared camera.	Completed	3/14/2012	Inconclusive. Monitor future performance.	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012		
17	**Circuit ID: 20403 ASHFIELD 04-03**			**Location: Central**	**CPI: 732**
	10/6/2011: Install tie. Construct a 2.5 mile 3-phase tie between Ashfield 20403 and Greenwood 20601. Install a remote-controlled switch as the normally open point between the two circuits.	Completed	11/30/2010		
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012		

Rank	*Action*	*Status*	*Due/Complete*	*Result*
18	**Circuit ID: 13704 SCHNECKSVILLE 37-04**			**Location: Lehigh** **CPI: 724**
	10/11/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2010	The aerial cable getaway for the Schnecksville 37-04 line failed twice in the past year. The getaway has since been replaced. Two additional OCR outages, due to vehicle contact and trees from outside the right of way, interrupted approximately 600 customers.
	4/20/2011: Circuit outage data analysis.	Completed	4/20/2011	The outage history for Schnecksville 37-04 has been reviewed for the period ending with Q1 2011. The circuit experienced four major outages in the past year. A transmission outage of unknown cause interrupted the substation during a Q1 2011 storm. The transmission line held when reclosed for test. The three remaining outages were due to equipment failures in Q4 2010. Two of which occurred on the same day when the operating bus disconnect failed in Schnecksville Substation. A separate outage occurred when an overhead switch failed while customers were transferred to the adjacent Schnecksville 37-01 line for repairs. The abnormal circuit configuration and repairs under construction delayed customer restoration. Many of the major contributors to the CPI have been equipment failures that have since been mitigated. Performance will continue to be monitored to determine if any proactive steps may be taken to prevent similar interruptions
	5/18/2011: Protection coordination review.	Completed	5/18/2011	The protection scheme on this circuit is well laid out. No adjustments are needed at this time.
	4/23/2012: Line inspection-equipment. Perform line walkdown to identify possible trouble spots for trimming and potential projects.	Completed	6/1/2012	Identified potential fuse locations to limit exposure and reduce number of customers experiencing outages.
	4/23/2012: Install fault indications on a remotely operatied control switch. WR 667699.	Completed	4/30/2012	Reduced outage duration.
	4/23/2012: Tree trimming.	Scheduled for	12/23/2014	
	6/6/2012: Replaced last compression style splices with newer automatic splices. The compression style splices have been causes for outages historically.	Completed	6/30/2012	Reduced outage risk.
	6/6/2012: Install fuse(s). Install fuses at new locations to reduce number of customers experiencing outages. 56771S48902 and 573-S-501.	Scheduled for	12/1/2012	
	9/6/2012: Install 3 phase OCR(s). At 59157S49550. WR 12028666.	Scheduled for	1/31/2013	
	10/10/2012: Line inspection-equipment. Performed line walkdown to identify possible trouble spots for trimming and potential projects. Generated 10 Work Requests.	Completed	10/10/2012	Reduced outage risk.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
19	**Circuit ID: 52002 LINGLESTOWN 20-02**			**Location: Harrisburg** **CPI: 696**
	3/14/2012: Thermographic inspection-OH line. Inspected all 2 and 3 phase primary lines with infrared camera.	Completed	3/14/2012	Inconclusive. Monitor future performance.
	7/16/2012: Expanded Operational Review.	Scheduled for	12/31/2012	
	7/19/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	9/10/2012	The Linglestown 20-2 line has approximately 1,640 customers across 28 circuit miles. The largest CPI contributor has been the percentage of customers with greater than 3 interruptions. The circuit breaker experienced four outages in the past year. Two of the outages were caused by trees from outside the trimming right of way during PUC reportable storms on 09/07/11 and 06/29/12. Nothing was found during a third storm on 08/05/12. A fourth outage on 06/03/12 was attributed to animal contact in the substation.
	10/4/2012: Tree trimming. Trim circuit as part of its four year vegetation management cycle.	Scheduled for	12/31/2013	
	10/4/2012: Investigate replacing a remote operator controlled switch with a three phase recloser along Old Jonestown Rd.	Scheduled for	12/31/2012	
20	**Circuit ID: 13503 MCMICHAELS 35-03**			**Location: Pocono** **CPI: 696**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
21	**Circuit ID: 27501 WEISSPORT 75-01**			**Location: Central** **CPI: 683**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
22	**Circuit ID: 12102 SO ALLENTOWN 21-02**			**Location: Lehigh** **CPI: 681**
	6/29/2011: Install animal guard(s).	Completed	6/30/2011	Reduced outage risk.
	6/29/2011: Replace lightning arrestor and transformer connections identified by thermography.	Scheduled for	11/30/2011	Reduced outage risk. WR 445919, 445925, 445931 - complete. WR 445940 deferred, currently awaiting scheduling
	10/11/2012: Tree trimming. Entire circuit is due for tree trimming in 2013.	Scheduled for	12/31/2013	
	10/11/2012: Install LBAS(s). Will install LBAS and fault indicators at two locations, 64198S46318 and 64231S46331. WRs 12033671 and 12033676.	Scheduled for	5/31/2013	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
23	**Circuit ID: 67803 WEST LANCASTER 78-03**			**Location: Lancaster** **CPI: 676**
	5/19/2008: Monitor future performance. LMI Inspection performed on 2 phase and 3 phase line - 3.7 miles total	Completed	12/30/2011	Reduced outage risk.
	1/6/2011: Expanded Operational Review.	Completed	12/30/2011	No work is needed.
	1/13/2011: Line inspection-equipment.	Completed	7/20/2011	Reduced outage risk.
	1/13/2011: Thermographic inspection-OH line.	Completed	3/31/2011	Reduced outage risk.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/25/2012	Inconclusive. Monitor future performance. The West Lancaster 78-3 line has approximately 1,960 customers across 36 circuit miles. The largest contributor to the CPI (Circuit Performance Index) has been SAIDI. Of the top 10 outages in the past year, four occurred on the same day (July 7, 2012) due to a severe T&L storm. That one storm resulted in a CMI (Customer Minutes Interrupted) of over 975,000. Four of the other outages were caused by trees from outside the trimming right of way. The circuit is due to be trimmed on 2014. The West Lancaster 78-3 line has never been on the Worst Performing Circuit list.
24	**Circuit ID: 62604 ENGLESIDE 26-04**			**Location: Lancaster** **CPI: 673**
	1/6/2011: Expanded Operational Review. Check one unfused tap. Get rid of double circuit. Check various animal guarding.	Completed	12/30/2011	Reduced outage risk.
	1/13/2011: Thermographic inspection-OH line.	Completed	3/31/2011	Reduced outage risk.
	1/13/2011: Line inspection-equipment.	Completed	5/10/2011	Reduced outage risk.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/26/2012	Inconclusive. Monitor future performance. The Engleside 26-4 line has approximately 1,290 customers across 23 circuit miles. The largest CPI contributor has been the percentage of customers with greater than 3 interruptions. The circuit breaker experienced two outages in the past year. On 06/21/12, the line needed to be de-energized for safety reason and interrupted customers for 67 minutes. On 06/22/12, the circuit breaker experienced an improper operation and interrupted customers for 12 minutes. On 6/10/12, and again on 9/8/12, approximately 1,200 customers were interrupted due to equipment failures. On 7/7/12 during a severe T&L storm, 63 customers were interrupted for 1500 minutes due to a tree from outside the trimming right of way fell on the line. The circuit is due to be trimmed on 2014. This is the first time the Engleside 26-4 line has been on the worst performing circuit list.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
25	**Circuit ID: 43101 SOUTH MILTON 31-01**			**Location: Sunbury** **CPI: 668**
	7/19/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	9/24/2012	On May 3, 2012 and June 22, 2012 all of the customers on this circuit were out of service due to lightning strikes on the SMIL 43101 circuit that caused the 69kV fuses at the SMIL substation to blow. This circuit has not been a WPC before. PPL will continue to monitor this circuit's performance.
	9/28/2012: Reconductor line. On September 18, 2012 a Helicopter Patrol of the Susquehanna River crossing section of this circuit revealed that the conductor was "bird caging" in several spots and that there were also several broken strands. This conductor is scheduled to be replaced in November 2012.	Scheduled for	11/30/2012	
	9/28/2012: Reconductor line. On June 29, 2012 this circuit was patrolled by Joe Doyle, Frank Dempsey, and Matt Besz. The patrol revealed that the conductor was "bird caging" in several spots along Route 15. The damaged conductor is scheduled to be replaced in November. A static wire will be mounted above the three phase for lightning protection.	Scheduled for	11/30/2012	
	9/28/2012: The SMIL 43101 12kV circuit breaker that failed to trip due to the ligthning strikes on May 3, 2012 and June 22, 2012 is scheduled to be replaced in Q1 2013.	Scheduled for	3/31/2013	
26	**Circuit ID: 60406 DILLERVILLE 04-06**			**Location: Lancaster** **CPI: 655**
	1/2/2012: Expanded Operational Review.	Scheduled for	12/31/2012	
	5/16/2012: Line inspection-equipment.	Scheduled for	12/31/2012	
	5/16/2012: Thermographic inspection-OH line.	Completed	6/1/2012	Reduced outage risk.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/26/2012	Inconclusive. Monitor future performance. The Dillerville 4-6 line has approximately 184 customers across 33 circuit miles. The largest contributor to the CPI (Circuit Performance Index) was SAIDI. On 9/18/12, the circuit breaker opened and interrupted 1900 customers due to a tree that fell into the line. At the time, the Dillerville 4-6 line, which usually only supplies 184 customers, was being used to supply an adjacent circuit that had over 1800 customers in it. The circuit was last trimmed in 2012. The Dillerville 4-6 line has only been on the Worst Performing Circuit list one time over the last 10 years.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
27	**Circuit ID: 45501 DERRY 55-01**			**Location: Sunbury** **CPI: 638**
	12/15/2009: Install tie. Revisit feasibility/justification of tie with Watson #4 and resubmit to planning.	Scheduled for	11/30/2012	
	8/26/2010: Install tie. A project was placed into the budget to create a tie between Watson 43304 and Derry 45501. This project is scheduled to go in service in 5/2013.	Scheduled for	5/31/2013	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
28	**Circuit ID: 47704 BLOOMSBURG 77-04**			**Location: Sunbury** **CPI: 627**
	10/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2011	This circuit was reviewed at the Susquehanna WPC meeting on 12/1/11. The Bloomsburg substation and customers served by this circuit were subjected to major flood conditions. The flooding was caused by record setting rainfalls from tropical storm Lee. Efforts to restore service were hindered since some of PPL's equipment was inaccessible due to flooding and some of our customer's services were under water. No short term plan is required at this time. PPL will continue to monitor this circuit's performance.
	12/30/2011: Install tie. SP 15410 Relieve the Bloomsburg 77-03 Line RIS 11/2014: This project will add a new ROCS device that will allow system operators to remotely transfer customers from the BLOO 47704 to the BLOO 47703 circuit.	Scheduled for	11/30/2014	
29	**Circuit ID: 43302 WATSON 33-02**			**Location: Sunbury** **CPI: 615**
	1/4/2010: Expanded Operational Review.	Completed	12/31/2010	No problems were found. PPL will continue to monitor this circuit's performance.
	10/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	12/1/2011	This circuit was reviewed at the Susquehanna WPC meeting on 12/1/11. On April 28, 2011 all of the customers on this circuit as well as 97 customers that are normally served by the NECO 47502 circuit experienced an outage. This outage was caused by trees taking down wires and breaking cross arms. Customers from the NECO 47502 were temporarily transferred to the WATS 43302 since a helicopter crash took down the river crossing on July 19, 2010. Until repairs were made to the NECO 47502 this circuit had increased exposure to trees and load could not be sectionalized and transferred to the NECO 47502. This circuit was never on the WPC list before. PPL will continue to monitor this circuit's performance.

Rank	*Action*	*Status*	*Due/Complete*	*Result*
30	**Circuit ID: 25801 SULLIVAN TRAIL 58-01**			**Location: Wilkes-Barre** **CPI: 613**
	9/27/2010: Line inspection-equipment. Generated WR 607838 to repair degraded conditions found during field review - transformer cutouts, missing animal guard, degraded crossarms, etc.	Completed	12/8/2010	Reduced outage risk.
	7/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/30/2011	This feeder had 3 tree outages between May 2011 and June 2011, causing it to be on the WPC list for a seventh time. There are over 1,800 customers and 114 line miles on this feeder. Several projects have been identified for analysis by Distribution Planning, which will compare the alternatives of building a 3-phase loop, replacing manual switches with remote-controlled and transferring customers to another feeder to reduce the number of customers on this circuit.
	9/29/2011: Circuit outage data analysis. Several projects will be analyzed by Distribution Planning, which will compare the alternatives of building a 3-phase loop, replacing manual switches with remote-controlled and transferring customers to another feeder to reduce the number of customers on this circuit.	Completed	11/30/2011	It was determined that outage duration could be reduced significantly by installing an additional telemetric recloser and replacing an existing recloser and manual air-break switch with remote-controlled devices. A project has been developed to make these circuit reinforcements.
	1/4/2012: Improve sectionalizing capability. Install additional telemetric recloser and replace existing recloser and manual air-break switch with remote-controlled devices.	Scheduled for	12/31/2013	
31	**Circuit ID: 55507 HERSHEY 55-07**			**Location: Harrisburg** **CPI: 607**
	9/27/2010: Install 3 phase OCR(s). Install new 3 phase OCR outside of substation. Field to identify location.	Completed	3/9/2011	Reduced outage risk.
	1/26/2011: Thermographic inspection-OH line.	Completed	2/28/2011	Inconclusive. Monitor future performance.
	3/14/2012: Thermographic inspection-OH line. Inspected all 2 and 3 phase primary lines with infrared camera.	Completed	3/14/2012	Inconclusive. Monitor future performance.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
32	**Circuit ID: 16202 POCONO FARMS 62-02**			**Location: Pocono** **CPI: 603**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
33	**Circuit ID: 23001 SAINT JOHNS 30-01**			**Location: Central** **CPI: 585**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
34	**Circuit ID: 24402 TINKER 44-02**			**Location: Pocono** **CPI: 581**
	7/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	8/31/2011	Inconclusive. Monitor future performance. This circuit has not been on the WPC list for several quarters. On April 13, 2011 498 PPL customers experienced an outage to to a substation power fuse operation. PPL Crews addressed the cause of the operation and restored all affected customers. the total outage CMI was 46,624. Approximately 26 customers experienced an OCR outage on April 28, 2011. Upon crew assesment, a tree was determined to have fallen from outside PPL's right of way and cause the OCR to trip.The outage a total CMI of 20,835.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
35	**Circuit ID: 22602 KIMBLES 26-02**			**Location: Pocono** **CPI: 563**
	10/15/2010: Improve sectionalizing capability.	Scheduled for	7/31/2012	PPL will be extending a section of single phase from the Bohemia 20-2 and to a portion of the Kimbles 26-2 over to BOHE 20-2
	10/15/2010: Circuit outage data analysis. Problematic areas identified and line patrol scheduled.	Completed	12/31/2010	Reduced outage risk. Tree problems were identified and tree trimming was completed.
	3/9/2012: Improve sectionalizing capability. The Twin Lakes New Line and Terminal project will relieve around 200 customers from the Kimbles 26-2 line. In addition to the customers transfered, this project will also improve tie and sectionalizing capabilities between the Kimbles 26-2 line and Twin Lakes Substation.	Scheduled for	5/31/2014	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
	12/31/2012: Tree trimming. The Kimbles substation circuit lines is scheduled for tree trimming in 2012.	Scheduled for	12/31/2012	
36	**Circuit ID: 28501 FABRI-KAL 85-01**			**Location: Central** **CPI: 555**
	4/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/30/2012	This circuit serves one customer. The outage was due to a lightning strike in the substation that serves the customer and there is no inherent reliability issue with the circuit.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
37	**Circuit ID: 47703 BLOOMSBURG 77-03**			**Location: Sunbury** **CPI: 549**
	8/26/2010: Install tie. A project was placed into the budget to create a tie between Bloomsburg 47703 and Bloomsburg 47704. This will enhance the reliability of both Bloomsburg circuits by providing additional operating flexibility through use of remotely operated interrupting and switching devices.	Scheduled for	11/30/2014	
	10/11/2010: Circuit outage data analysis - WPC not on preceding qtr. list. This line will be inspected for vegetation encroachment and potential equipment failure risks.	Completed	11/11/2010	The Bloomsburg 77-03 circuit was reviewed at Susquehanna Region's Q3 2010 WPC meeting on November 11, 2010. This circuit is classified as a worst-performer due to the number of customers experiencing multiple outages. Over the last 4 quarters, the substation breaker was interrupted three times, twice due to off-right-of-way trees contacting the line. Based on the performance of this line in the last 2 quarters, this circuit will likely remain a WPC for 2 - 3 more quarters.
	11/11/2010: Line inspection-equipment.	Completed	5/2/2011	Reduced outage risk. The line inspection revealed the following problems: 2 blown lightning arrestors, broken strands on the primary, 1 broken wire tie, broken insulators and broken guy wires. The following Work Requests were completed to fix the problems identified by the inspection: WR 641020 & WR 641068.
	9/16/2011: Raise the control panel for the normally open ROCS device that ties the 47703 to the 47707 circuit. The control panel was under water in the aftermath of Tropical Storm Lee.	Completed	9/30/2011	The control panel for the normally open ROCS device was raised above flood level.
38	**Circuit ID: 22002 BOHEMIA 20-02**			**Location: Pocono** **CPI: 545**
	4/26/2010: Install tie. SP 33608 build tie from Bohemia 20-2 to Twin Lakes 81-2. This will create a tie for 1,150 radial customers. Remotely operated devices will be installed.	Scheduled for	11/30/2012	
	4/21/2011: Install new line and terminal. SP33607 A new line and terminal at Bohemia will relieve the 20-2 line and reduce the customer count from 1,400 to 750.	Scheduled for	11/30/2012	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
39	**Circuit ID: 16801 WAGNERS 68-01**			**Location: Pocono** **CPI: 545**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	Action	Status	Due/Complete	Result
40	**Circuit ID: 11405 FARMERSVILLE 14-05**			**Location: Bethlehem** **CPI: 535**
	6/26/2012: Load balancing. WO#: 42073589 - Phase swap @ 68562S49566	Scheduled for	11/25/2013	
	6/26/2012: WO#: 42073594 - Install ROCS @ 68207S49508	Scheduled for	12/31/2013	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
41	**Circuit ID: 64904 MILLERSVILLE 49-04**			**Location: Lancaster** **CPI: 521**
	1/6/2011: Expanded Operational Review. Install Telemetric OCR at grid block 397S250. ROCs all 5 Abs	Completed	3/10/2011	Reduced outage duration.
	1/13/2011: Thermographic inspection-OH line.	Completed	3/31/2011	Reduced outage risk.
	1/13/2011: Line inspection-equipment.	Scheduled for	12/30/2011	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/26/2012	No longer among 5% worst performing circuits. The Millersville 49-4 line has approximately 3000 customers across 45 circuit miles. The largest contributor to the CPI (Circuit Performance Index) was SAIDI. The circuit breaker experienced three outages in the past year. On 5/29/12, and again on 7/7/12, the circuit breaker opened and interrupted 3000 customers due to trees from outside the trimming right of way fell into the line. On 1/22/12, the circuit breaker opened due to a contact dig-in from a customer doing work near our underground line. The circuit is due to be trimmed on 2014. This is the first time this line has been on the worst performing circuit list.
42	**Circuit ID: 46701 RENOVO 67-01**			**Location: Susquehanna** **CPI: 513**
	11/3/2010: Relocate inaccessible line. Westport Tap Part 1. Rebuild approx 2.0 miles with 1/0 ACSR XLP and static wire. Portions may only need XLP and no static wire. Other portions can be relocated from one side of SR 120 to other side, away from steep bank.	Scheduled for	12/31/2012	
	11/3/2010: Relocate inaccessible line. Westport Tap Part 2. Rebuild approx 1.3 miles with 1/0 ACSR XLP and static wire. Portions may only need XLP and no static wire. Other portions can be relocated from one side of SR 120 to other side, away from steep bank.	Scheduled for	12/31/2013	
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	Action	Status	Due/Complete	Result
43	**Circuit ID: 10205 ALLENTOWN 02-05**			**Location: Lehigh** **CPI: 510**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
44	**Circuit ID: 28302 NEWFOUNDLAND 83-02**			**Location: Pocono** **CPI: 505**
	10/11/2010: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/30/2010	This circuit has not been on the WPC circuit for several quarters. On September 30, 2012, a tree from outside PPL's right of way came in contact with a section of three phase conductor. This contact resulted in the operation and lockout of a three phase OCR resulting in an outage for 87 PPL customers. PPL crews responded to the fallen conductor and restored all affected customers. The total outage resulted in a CMI of 119,015. On the same day, another tree from outside of PPL's right of way fell on another section of three phase conductor which caused the three phase OCR at 66273N41069 to trip to lockout. PPL addressed the fallen conductor and restored power to all affected customers. The total outage CMI was 97,686. In addition to the two OCR outages, approximately 2,907 PPL customers experienced a breaker outage on 7/17/2012. The outage was assessed and found to be caused by an improper operation of the 83-2 breaker relay. The total outage CMI was 74,041. The problem relay was analyzed and recoordinated.
	7/19/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	7/24/2012	This circuit has not been on the WPC list for several quarters. On May 4, 2012 approximately 2,800 PPL experieced an outage due to a substation relay malfunction. PPL crews addressed the problem with the relay and restored all affected customers. The outage resulted in a total CMI of 272,000. On March 3, 2012 the OCR at grid number 66457N41772 tripped open due to a downstream vehicle accident. The outage affected 430 customers and resulted in a CMI of 207,000. A new tie line is currently in engineering that will mitigate customer exposure to these outages. PPL field engineers along with PPL's Distribution Planning department will continue to monitor future performance on the line.
45	**Circuit ID: 25502 MADISONVILLE 55-02**			**Location: Pocono** **CPI: 500**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
46	**Circuit ID: 28403 HARTLAND 84-03**			**Location: Central** **CPI: 494**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
47	**Circuit ID: 18501 CANADENSIS 85-01**			**Location: Pocono** **CPI: 484**
	10/18/2010: Improve sectionalizing capability.	Completed	6/15/2011	Existing air breaks and OCRs will be upgraded to automated devices.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
48	**Circuit ID: 27101 GREENFIELD 71-01**			**Location: Scranton** **CPI: 482**
	12/1/2010: Tree trimming.	Completed	12/30/2010	Reduced outage risk. This line was completely trimmed in 2010.
	12/8/2010: Improve sectionalizing capability. Install equipment to allow remote operation of switches and OCRs	Completed	12/17/2010	Reduced outage duration. All three phase switches and OCRs were updgraded to allow remote operation.
	1/28/2011: Install tie. A tie for 1,350 radial customers is currently being engineered by the field personnel.	Completed	6/30/2011	The tie line was engineered. Construction postponed due to budget constraints.
	4/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list. In response to these major outages, a project is currently being reviewed by PPL which would build a tie line with the East Carbondale 12-6 line.	Completed	5/30/2012	Customers on the Greenfield 71-1 12 kV line experienced several circuit breaker and OCR outages. During the July 7th PUC-recordable storm, the substation breaker opened due to equipment failure. PPL crews responeded promptly and restored all 2000 customers in 50 minutes which resulted in a CMI of 98,150. On June 22nd approximately 1400 customers on the 71-1 line experienced an outage lasting approximately 3 hours with 182,033 CMI. In response to these major outages, a project is currently being reviewed by PPL which would build a tie line with the East Carbondale 12-6 line. Field engineers, along with Distribution Planning engineers will monitor future performance on this line.
	7/24/2012: Install tie. A tie line for 1,350 radial customers was engineered by field personnel. Project was not constructed due to budget constraints. Distribution Planning will review the justification and place the project into the ISR budget.	Scheduled for	12/31/2013	The Greenfield new line and terminal is expected to reduce customer exposure to outages. The projects required in service date is set to be November 31, 2011. PPL's Distribution Planning department will monitor future circuit performance and determine if a tie line is required to further reduce customer outage exposure in the future.
49	**Circuit ID: 45302 WEST BERWICK 53-02**			**Location: Sunbury** **CPI: 479**
	3/23/2005: Monitor future performance.	Completed	12/31/2010	Scheduled tree trimming and other in-progress work is expected to improve this circuit's performance.
	7/19/2007: Install 1 phase OCR(s). WR 434454	Scheduled for	2/4/2013	
	7/19/2007: Install fuse(s). Ebenezer Church Tap WR 434441.	Scheduled for	11/25/2012	Reduced customer count affected by each outage.
	1/11/2010: Expanded Operational Review.	Completed	12/31/2010	Inconclusive. Monitor future performance.
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
50	**Circuit ID: 43401 BENTON 34-01**			**Location: Sunbury** **CPI: 471**
	8/26/2010: Install tie. A project was placed into the budget to create a tie between Benton 34-1 and Millville 32-2, and a 12 kV tie between Millville 32-2 and Hughesville 70-1. This will enhance the reliability of all three circuits by providing additional operating flexibility through use of remotely operated interupting and switching devices. The project expects to save approximately 0.3 system SAIDI minutes.	Scheduled for	5/31/2013	
	4/11/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	5/31/2011	The largest contributor to the CPI Index was SAIDI. Three circuit breaker interruptions accounted for more than 60% of the customer minutes lost. The longest outage was due to a tree taking down the lines causing the circuit breaker to open. The other two breaker interruptions were due to equipment failures.
51	**Circuit ID: 29402 BELTZVILLE 94-02**			**Location: Central** **CPI: 469**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
52	**Circuit ID: 57403 SPANGLER 74-03**			**Location: West Shore** **CPI: 469**
	10/1/2010: Install automation devices. Add several automation devices to tie points along the Spangler 74-3 circuit. This will improve restoration times.	Completed	6/1/2011	Reduced outage duration.
	10/1/2010: Reconductor line. Reconductor part of the three phase line along Fishing Creek Road. This will improve the transfer capabilities of a tie between the Spangler 74-1 and 74-3 lines.	Scheduled for	12/31/2013	
	1/26/2011: Thermographic inspection-OH line.	Completed	2/28/2011	Inconclusive. Monitor future performance.
	1/26/2011: Expanded Operational Review.	Completed	3/28/2011	Inconclusive. Monitor future performance.
	10/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	11/21/2011	The Spangler 74-03 line is a long radial distribution circuit at the southern edge of PPL territory. The feeder has approximately 1,500 customers across 58 circuit miles. The largest CPI contributor has been the percentage of customers with greater than 3 outages. The circuit breaker experienced three interruptions in the past year. Nothing was found for two of the interruptions, and the CB held for test when closed back in. Both outages occurred during storm weather, so it is suspected that a tree limb may have made extended contact. The third breaker outage was caused by an equipment failure on a downstream OCR. In addition to the three breaker outages, an OCR serving 1,050 customers also experienced three interruptions in the past year. The causes include a tree from outside the trimming right of way, a vehicle pole hit, and nothing found. A failed circuit board has since been replaced in the OCR.
	11/21/2011: Relocate a normally open point on a single phase CEMI tap. This will transfer approximately 40 customers to a source closer to the substation.	Completed	4/2/2012	Reduced outage risk.
	11/21/2011: Tree trimming. Trim the Spangler 74-03 line as part of its four year vegetation management cycle.	Completed	5/1/2012	Reduced outage risk.
	11/21/2011: Install remote operator controlled switch. Install a new normally open remote operator controlled switch on the Spangler 74-3 in order to transfer approximately 100 customers to a more reliable source at Mount Allen Substation.	Scheduled for	12/31/2012	
	3/12/2012: Load balancing. Extend second phase to alleviate cold load pickup & operator response.	Scheduled for	12/31/2012	
	3/14/2012: Thermographic inspection-OH line. Inspected all 2 and 3 phase primary lines with infrared camera.	Completed	3/14/2012	Inconclusive. Monitor future performance.
	5/22/2012: Install 3 phase OCR(s). Install a new three phase telemetric recloser to protect a heavily wooded section along Fishing Creek Road.	Scheduled for	12/31/2012	
	7/16/2012: Expanded Operational Review.	Scheduled for	12/31/2012	
	10/4/2012: Investigate fusing scheme near the intersection of Old Quaker Rd and Hick Hill road for improvements.	Scheduled for	12/31/2012	

Rank	*Action*	*Status*	*Due/Complete*	*Result*
53	**Circuit ID: 14801 TREICHLERS 48-01**			**Location: Lehigh** **CPI: 467**
	7/19/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	8/31/2012	Determined that this circuit lacks 3 phase protective devices and sectionalizing. Circuit Breaker lockout zone is too large. Created WO's to reduce customers affected by each outage.
	10/9/2012: Install 3 phase OCR(s). Will install 3-phase OCRs at grid locations 60515S52286 and 60859S52757. WRs 12033320 and 12033321.	Scheduled for	4/30/2013	
	10/9/2012: Line inspection-equipment. Will perform line walkdown to identify possible trouble spots for trimming and potential projects.	Scheduled for	12/31/2012	
	10/10/2012: Line inspection-equipment. Will perform line walkdown to identify possible trouble spots for trimming and potential projects.	Scheduled for	12/28/2012	
54	**Circuit ID: 12301 LANARK 23-01**			**Location: Lehigh** **CPI: 467**
	1/9/2010: Tree trimmed circuit.	Completed	12/9/2010	Reduced outage risk.
	6/29/2011: Monitor future performance.	Completed	6/29/2011	Intelligent switching scheme has been turned off and will be removed entirely to be replaced with traditional recloser controls. Monitor future performance for improvement.
	10/12/2011: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/31/2012	Customers with greather than 3 Outages was the largest contributor to the poor CPI. Trees falling from outside the right of way, conductor failure, and misoperation of SISRS devices caused a large number of outages as well as long restoration times.
	1/9/2012: Replacing old circuit automation controls. Improve fault location, restoration time, and communication with devices.	Scheduled for	12/9/2014	
	8/21/2012: Install tie. Installing 3 phase tie from COOP 9-03 to LANA 23-01. Will provide restoration capabilities in many outage situations. WR# 590257	Scheduled for	5/3/2013	
	9/6/2012: Line inspection-equipment. Performed line walkdown to identify possible spots for trimming and potential projects.	Completed	9/30/2012	Reduced outage risk. Generated 1 WR
55	**Circuit ID: 44702 MUNCY 47-02**			**Location: Susquehanna** **CPI: 456**
	10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	

Rank *Action*	*Status*	*Due/Complete*	*Result*
56 Circuit ID: 45002 LIMESTONE 50-02			**Location: Sunbury** **CPI: 454**
1/5/2011: Thermographic inspection-OH line. Thermovision Inspection of 2 and 3 phase sections to be completed early 2011.	Completed	2/7/2011	Reduced outage risk. Completed 2/7/2011 - All necesary repairs completed.
1/5/2011: Expanded Operational Review. EOR Planned for 2011	Completed	12/31/2011	Reduced outage risk. A defective stem connector was identified during Thermographic Inspection. Repairs were made on 4/7/11 under WR 641816.
1/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	3/19/2012	This circuit was reviewed at the Susquehanna WPC meeting on 3/19/12. On March 10, 2011 and December 28, 2011 the circuit breaker tripped to lockout due to failed insulators. The failed insulators were replaced. This circuit was not on the WPC list since 2004. PPL will continue to monitor this circuit's performance.
10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Scheduled for	11/15/2012	
57 Circuit ID: 43102 SOUTH MILTON 31-02			**Location: Sunbury** **CPI: 448**
1/6/2011: Thermographic inspection-OH line. Thermovision inspection of 2 and 3 phase completed early 2010.	Completed	10/30/2010	Reduced outage risk. Minor maintenance repairs completed on three transformers.
58 Circuit ID: 62602 ENGLESIDE 26-02			**Location: Lancaster** **CPI: 448**
5/19/2008: Perform line maintenance identified by line inspection. LMI Inspection performed on 2 phase and 3 phase line - 4.4 miles total	Completed	12/31/2011	Reduced outage risk.
1/6/2011: Expanded Operational Review. Squirrel Guard.	Completed	12/30/2011	Reduced outage risk.
1/13/2011: Line inspection-equipment.	Completed	5/10/2011	Reduced outage risk.
1/13/2011: Thermographic inspection-OH line.	Completed	3/31/2011	Reduced outage risk.
10/11/2012: Circuit outage data analysis - WPC not on preceding qtr. list.	Completed	10/26/2012	Inconclusive. Monitor future performance. The Engleside 26-2 line has approximately 510 customers across 10 circuit miles. The largest contributor to the CPI (Circuit Performance Index) was SAIDI. The circuit breaker experienced two outages in the past year. On 06/21/12, the line needed to be de-energized for safety reason and interrupted customers for 67 minutes. On 06/22/12, the circuit breaker experienced an improper operation and interrupted customers for 13 minutes. On 7/7/12, during a severe T&L storm, an OCR opened interrupting 96 customer for 2271 minutes. Also on 7/7/12, a fuse opened interrupting 107 customers for 727 minutes. The circuit is due to be trimmed on 2014. This is the first time this line has been on the worst performing circuit list.

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 Failures, Tree 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	3,020	18.14%	56,862	3.95%	4,498,515	2.09%
Contact/Dig-In	156	0.94%	25,659	1.78%	2,122,538	0.99%
Directed by Non-PPL Authority	179	1.08%	6,959	0.48%	602,707	0.28%
Equipment Failures	5,315	31.93%	464,197	32.28%	55,966,186	25.99%
Improper Design	1	0.01%	1,375	0.10%	205,329	0.10%
Improper Installation	1	0.01%	1	0.00%	121	0.00%
Improper Operation	25	0.15%	22,033	1.53%	848,279	0.39%
Nothing Found	1,428	8.58%	105,638	7.35%	8,686,088	4.03%
Other-Controllable	88	0.53%	15,885	1.10%	490,345	0.23%
Other-Non Control	410	2.46%	90,304	6.28%	7,859,022	3.65%
Other-Public	65	0.39%	8,578	0.60%	572,767	0.27%
Tree Related	5,230	31.42%	499,404	34.73%	117,204,270	54.42%
Vehicles	727	4.37%	141,117	9.81%	16,316,873	7.58%
Total	**16,645**	**100.00%**	**1,438,012**	**100.00%**	**215,373,040**	**100.00%**

[7] Cases of trouble 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.

Tree 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. For trees within the right-of-way, PPL Electric is currently analyzing and re-evaluating its trimming strategy.

Animals: Animals accounted for about 18.1% of PPL Electric's cases of trouble. Although this represents a significant number of cases, the effect on SAIFI and CAIDI is small because approximately 80% 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 focus systematically 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 43% of the cases of trouble, 44% of the customer interruptions and 52% 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. In 2009, to help reduce the risk of incurring interruptions due to equipment failures, PPL Electric initiated an Asset Optimization Strategy project to assess equipment health and generate a long-term plan for proactive infrastructure replacement and enhanced maintenance practices. It is anticipated that, over time, this strategy will improve reliability performance as it pertains to PPL Electric's distribution, substation and transmission assets.

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

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

Inspection & Maintenance Goals/Objectives	Annual Budget	3rd Quarter		Year-to-date	
		Budget	Actual	Budget	Actual
Transmission					
Transmission C-tag poles (# of poles)	240	70	52	172	155
Transmission arm replacements (# of sets)	50	20	31	56	53
Transmission air break switch inspections (# of switches)	64	0	0	26	10
Transmission lightning arrester installations (# of sets)	0	0	0	0	1
Transmission pole inspections (# of poles)	0	0	0	0	0
Transmission tree side trim-Bulk Power (linear feet)	N/A				
Transmission herbicide-Bulk Power (# of acres)	N/A				
Transmission reclearing (# of miles) BES Only	637.34	21.34	6.95	637.34	636.49
Transmission reclearing (# of miles) 69 kV	865.95	422.28	369.07	538.91	519.04
Transmission reclearing (# of miles) 138 kV	296.60	144.76	190.81	166.39	210.11
Transmission danger tree removals-Bulk Power (# of trees)	N/A				
Substation					
Substation batteries (# of activities)	885	127	109	727	719
Circuit breakers (# of activities)	1495	350	326	943	874
Substation inspections (# of activities)	5227	1313	1328	4002	4039
Transformer maintenance (# of activities)	2186	422	412	1508	1543
Distribution					
Distribution C-tag poles replaced (# of poles)	2,126	522	313	1,817	1,591
C-truss distribution poles (# of poles)	6,092	1,242	1,504	4,035	4,035
Capacitor (MVAR added)	80	16	21	77	74
OCR replacements (# of)	644	117	103	548	516
Distribution pole inspections (# of poles)	90,000	22,503	15,158	67,518	72,184
Distribution line inspections (# of miles)	5,040	1,509	2,773	3,531	5,274
Group re-lamping (# of lamps)	26,869	9,869	9,631	24,869	25,262
Test sections of underground distribution cable	493	147	164	393	337
Distribution tree trimming (# of miles)	7087.50	2170.63	1511.68	5434.74	5207.31
Distribution herbicide (# of acres)	N/A				
Distribution >18" removals within R/W (# of trees)	N/A				
Distribution hazard tree removals outside R/W (# of trees)	N/A				
LTN manhole inspections (# of)	132	36	23	128	116
LTN vault inspections (# of)	774	243	227	609	662
LTN network protector overhauls (# of)	71	15	7	43	30
LTN reverse power trip testing (# of)	141	56	32	127	85

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

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

	3rd Quarter		Year-to-date	
Activity	**Budget ($000)**	**Actual ($000)**	**Budget ($000)**	**Actual ($000)**
Provide Electric Service	2,472	2,470	6,816	7,873
Vegetation Management	10,946	10,837	32,767	33,515
Customer Response	19,112	23,728	47,770	51,328
Reliability & Maintenance	18,176	16,460	51,598	48,610
System Upgrade	190	158	905	767
Customer Services/Accounts	36,145	35,489	95,152	94,902
Others	15,694	13,921	47,287	45,151
Total O&M Expenses	**102,735**	**103,063**	**282,295**	**282,146**

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

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

	3rd Quarter		Year-to-date	
	Budget ($000)	**Actual ($000)**	**Budget ($000)**	**Actual ($000)**
New Service/Revenue	19,332	19,587	55,133	58,195
System Upgrade	66,493	68,455	184,032	155,120
Reliability &	48,790	55,844	154,939	147,010
Customer Response	3,138	5,951	7,042	6,942
Other	7,327	4,675	18,068	12,793
Total	**145,080**	**154,512**	**419,214**	**380,060**

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	75
Journeyman Lineman	185
Journeyman Lineman-Trainee	116
Helper	23
Groundhand	4
Troubleman	52
T&D Total	**455**
Electrical	
Elect Leaders-UG	6
Elect Leaders-Net	10
Elect Leaders-Sub	22
Journeyman Elect-UG	28
Journeyman Elect-Net	13
Journeyman Elect-Sub	61
Journeyman Elect Trainee-UG	1
Journeyman Elect Trainee-Net	15
Journeyman Elect Trainee	21
Helper	12
Laborer-Network	0
Laborer-Substation	0
Electrical Total	**189**
Overall Total	**644**

Appendix A

PPL Electric Utilities Corporation
Worst Performing Circuit Definition

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

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

- 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.

Appendix B

PPL Electric Utilities Corporation
Service Interruption Definitions

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

10 – Improper Design	Controllable	• When an employee or agent of PPL Electric is responsible for an error of commission or omission in the engineering or design of the distribution system. (Facility Records personnel use only)
11 – Improper Installation	Controllable	• When an employee or agent of PPL Electric is responsible for an error of commission or omission in the construction or installation of the distribution system. (Facility Records personnel use only)
12 – Improper Operation	Controllable	• When an employee or agent of PPL Electric is responsible for an error of commission or omission in the operation or maintenance of the distribution system. (Facility Records personnel use only)
30 – Trees – Trimming Related[9]	Controllable	• 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	• 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	• Any outage caused by an animal directly or indirectly coming in contact with PPL Electric facilities. This includes birds, squirrels, raccoons, snakes, cows, etc.
41 – Vehicles	Public	• When cars, trucks or other types of vehicles or their cargoes strike facilities causing a problem.

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

51 – Contact/Dig-in	Public	• When work in the vicinity of energized overhead facilities results in interruptions due to accidental contact by cranes, shovels, TV antennas, construction equipment (lumber, siding, ladders, scaffolding, roofing, etc.). • When contact is made by a non-employee with an underground facility causing interruption.
60 – Equipment Failure	Controllable	• Outages resulting from equipment failures caused by corrosion or contamination from build-up of materials, such as cement dust or other pollutants. • Outages resulting from a component wearing out due to age or exposure, including fuse tearing or breaking. • Outages resulting from a component or substance comprising a piece of equipment failing to perform its intended function. • Outages resulting from a failure that appears to be the result of a manufacturer's defect or can not be described by any other code indicating the specific type of failure.
77 – Non-PPL Electric Problem – Other	Non-PPL Electric	• Where no PPL Electric or customer facilities were affected, and no repair or restoration was carried out on PPL Electric equipment.
78 – Non-PPL Electric Problem – Customer Facility	Non-PPL Electric	• Where no PPL Electric facilities were affected, and no repair or restoration was carried out on PPL Electric equipment.
80 – Scheduled Outage[10]	Controllable	• Interruptions under the control of a PPL Electric switchman or direction of a PPL Electric System Operator for the purpose of performing scheduled maintenance, repairs and capacity replacements for the safety of personnel and the protection of equipment. • Includes requests from customers for interruption of PPL Electric facilities.

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

85 – Directed by Non-PPL Electric Authority	Non-Controllable	• Interruptions under the control of a PPL Electric switchman or direction of a PPL Electric System Operator for the purpose of dropping load or isolating facilities upon request during emergency situations. • Interruptions which cannot be postponed or scheduled for a later time, and include situations like load curtailment during system emergencies, and requests of civil authorities such as fire departments, police departments, civil defense, etc. for interruption of PPL Electric facilities.
90 – Other – Controllable (Lineman provides explanation)	Controllable	• Interruptions caused by phase to phase or phase to neutral contacts, resulting from sleet or ice dropping off conductors, galloping conductors, or any other phase to phase or phase to neutral contact where weather is a factor. • Interruptions resulting from excessive load that cause that facility to fail. • When restoration of service to a facility, which had been interrupted for repairs or other reasons, causes an additional interruption to another facility which had not been involved in the initial interruptions. • Controllable interruptions or Power Service Problems whose cause is not described by one of the previous controllable cause codes.
96 – Nothing Found	Non-Controllable	• When no cause for the interruption can be found. • When there is no evidence of equipment failure, damage or contact after line patrol is completed. This could be the case during a period of heavy 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	• All outages resulting from gunfire, civil disorder, objects thrown, or any other act intentionally committed for the purpose of disrupting service or damaging company facilities.

99 – Other – Non-Controllable (Lineman provides explanation)	Non-Controllable	• Any outage occurring because of a fire, flood or a situation that develops as a result of a fire or flood. Do not use when facilities are de-energized at the request of civil authorities. • When an interruption is caused by objects other than trees, such as kites, balls, model airplanes, roofing material, 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.

Appendix C

PPL Electric Utilities Corporation
Job Descriptions

Transmission and Distribution

Groundhand	• Performs manual labor and assists employees in higher job classifications.
Helper	• 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	• 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	• 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	• 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	• Investigates and resolves trouble calls, voltage abnormalities on transmission and distribution systems associated with, but not limited to, PPL Electric facilities.

Electrical

Electrician Leader - Substation - Network - Underground	• 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.
Helper - Substation - Network - Underground	• 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.
Laborer - Substation - Network - Underground	• Performs manual labor and assists employees in higher job classifications.
Journeyman Electrician - Substation - Network - Underground	• 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.
Journeyman Electrician - Trainee - Substation - Network - Underground	• 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.

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2 N 9th Street

Allentown, PA 18101

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