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FEDERAL EXPRESS

August 30, 2010

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

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AUG 30 2010

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Re: PPL Electric Utilities Corporation
Capital Investment Plan for the Years 2010-2014
Docket No. M-110500.F2005ADR**

Dear Ms. Chiavetta:

Enclosed for filing on behalf of PPL Electric Utilities Corporation ("PPL Electric") are an original and two (2) copies of PPL Electric's Capital Investment Plan for the years 2010-2014. This report is being filed in compliance with the Commission's regulations at 52 Pa. Code § 73.1, et seq.

Pursuant to 52 Pa. Code § 1.11, the enclosed document is to be deemed filed on August 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 the enclosed report, 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. Robert A. Rosenthal
J. Edward Simms, Esquire
Irwin A. Popowsky, Esquire
William R. Lloyd, Esquire

PPL ELECTRIC UTILITIES CORPORATION
MAJOR CAPITAL INVESTMENTS FOR YEARS 2010-2014
(\$Millions)

<u>Project Description</u>	<u>Purpose and Necessity</u>	<u>2010-2014 Project Cost</u>	<u>Required In-Service</u>
Susquehanna-Roseland Project - Construct new 500 kV line from Susquehanna 500 kV substation to Roseland Substation in New Jersey as required by PJM RTEP. Project will include work by adjoining utilities, First Energy and PSE&G. The extent of work by PPL and other utilities will depend on line route as determined by line siting study.	The Susquehanna-Roseland 500 kV line is the best overall solution to resolve overloads on several 500 kV and 230 kV lines in Pennsylvania and New Jersey. The new 500 kV line will be constructed starting from Susquehanna 500 kV substation to Lackawanna Substation (including 500/230kV transformation at Lackawanna) to Howpatcong substation (new 500kV substation in NJ) to Roseland Substation in NJ.	\$397.0	2012
Pennsylvania Smart Grid Project	The Smart Grid project is comprised of 2 major components: 1) installation of intelligent electronic devices on the distribution system at PPL; 2) development of a complete system model in a Distribution management System (DMS). The integration of the distribution hardware and the DMS will allow for significant improvements to customer reliability through automated sectionalizing and fault localization.	\$19.0	2012
RTEP Brls Rebuild WSh 230-Double Circuit	This project is required by PJM to correct the following summer peak 2013 n-1-1 contingency overloads violations and is included in 2013 PJM RTEP plan.	\$36.9	2013
Elroy expansion & lines	System load flow studies have identified several load transfer and thermal loading violations for existing facilities in the Buxmont-Elroy area. This project is the least cost and best long term solution to resolve these violations.	\$32.6	2013
RTEP-N. Lanc 500/230/138 Substatoin	The project is required to alleviate several thermal overload and voltage violations in the Lancaster area. North Lancaster has been identified as the best long term and most cost effective solution to resolve these planning violations.	\$30.6	2016
Sunbury 500 -GIS replacement	Due to increasing concerns regarding the antiquated GIS at Sunbury, replacement of the gear is recommended. There are a limited number or no spare parts for the GIS bus work, limited factory support for this obsolete equipment and a host of operational concerns should the gear fail. With inadequate spare parts and factory support, a failure of the GIS will lead to an extended outage (one month or more) until repairs are made. This can not be tolerated, therefore replacement is necessary.	\$28.5	2015

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<u>Project Description</u>	<u>Purpose and Necessity</u>	<u>2010-2014 Project Cost</u>	<u>Required In-Service</u>
New Jenkins-South Pocono 230kV Line and Substation	This project is required to provide reinforcement to the Southern Pocono area and resolve several thermal loading and voltage violations during contingency conditions. Completion of this project will reduce the loading on existing facilities served out of E. Palmerton and Jackson Substations and improve overall reliability by providing an additional 230 kV source in the area.	\$26.9	2015
New S Pocono-N Pocono 230kV Line	This project is required to provide reinforcement to the northern Pocono portion of the Lehigh Region by unloading the Blooming Grove, Jackson, and Peckville transformers, and the heavily loaded Blooming Grove-Jackson and Peckville-Jackson 69 kV double circuit lines. This solution resolves several thermal, load drop and voltage violations that will be experienced by the winter of 2015.	\$26.4	2015
Breinigsville - New 230/69kV Substation	This project is required to address load growth that has exceeded projections and resolved thermal overload and voltage violations in this area. Breiningsville is the best long term and most cost effective solution to resolve the aforementioned problems.	\$26.0	2015
RTEP-Copperstone - New 230/69kV Substation and Lines	For the 2012 summer peak load conditions, the following overload conditions will be alleviated by the installation of Copperstone 230/69kV substation and the associated 69kv lines.	\$23.3	2012
Reconductor Peckville-Varden 69/138kV line	Reconductoring of this circuit is required to resolve transformer overloading concerns observed under first contingency conditions at Blooming Grove Substation. By completing this reconductoring, additional load can be transferred away from Blooming Grove to avoid the thermal overload of the transformer.	\$21.9	2014
Rebuild Lycoming-Lockhaven #1 & #2 69kV double circuit line (Part 2)	The Lycoming – Lock Haven #1 & #2 69kV double circuit lines are 2/0 CU from Jersey Shore to Lock Haven, with a summer normal rating of 30MVA and a summer emergency rating of 44MVA. With normal load growth at the forecasted regional growth, the Lycoming – Lock Haven #1 & #2 double circuit line would be on schedule to be rebuilt in approximately 2015.	\$20.2	2015

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South Pocono Substation	This project is required to provide reinforcement to the Southern Pocono area and resolve several thermal loading and voltage violations during contingency conditions. Completion of this project will reduce the loading on existing facilities served out of E. Palmerton and Jackson Substations and improve overall reliability by providing an additional 230 kV source in the area.	\$16.9	2015
NPOC 230/138/69 kV Sub	This project is required to provide reinforcement to the northern Pocono portion of the Lehigh Region by unloading the Blooming Grove, Jackson, and Peckville transformers, and the heavily loaded Blooming Grove-Jackson and Peckville-Jackson 69 kV double circuit lines. This solution resolves several thermal, load drop and voltage violations that will be experienced by the winter of 2015.	\$15.7	2015
w 69 tie In btwn Richf & Dalm	The project is required to provide supply to Meiserville 69/12kV substation (bi 61401) and as well as to reinforce 69kV transmission system in the northern counties of the Harrisburg Region. This tie line will create a 69kV loop system between Sunbury-Dauphin and Juniata – Richfield 69kV line for load restoration and maintenance outages.	\$12.8	2012
Springfield 230/69 sub	This project is required to provide reinforcement in the Central Eastern and Southeastern portion of the Lehigh Region. This project will unload the Quarry and Buxmont transformers, as well as the heavily loaded Quarry-Elliott Heights d/c lines and Buxmont-Quakertown d/c lines. This substation will also backup the Buxmont, Quarry and Hosensack substations for a first contingency transformer loss.	\$14.6	2011
Lehigh Reg Improvements	Projects will resolve P&P violations of circuit loading and bus voltage and will also support the future plans to convert the Wescosville-Breinigsville area to 138 kV.	\$13.9	2015
Add #T6@Harw 69/138kV yard	This project is required to resolve thermal overload and voltage violations at Harwood Substation that occur under first contingency conditions. The addition of this transformer will mitigate these concerns.	\$13.1	2011

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LANA Tap 2nd 138/69 ckt	By winter 2014, loss of the Lake Naomi 138/69 kV Tap out of Jackson Substation causes a violation of the PPL EU Reliability P&P Table R1 for maximum allowable load loss for a single circuit line outage (30 MW). Adding the second circuit, along with other future upgrades will resolve the loading violation.	\$11.6	2014
Alcoa 138kV operation	PPL EU is converting a portion of the S. Akron-S. Manheim 69 kv system to 138 kV Operation. This substation must be constructed to provide the necessary 69 kV supply to the Alcoa plant facilities. Normally, conversion costs are a customer responsibility, however, Alcoa facilities existed prior to 1974 and therefore become the responsibility of PPL EU.	\$11.1	2013
Rebld D/C fr S. Man to Donegal	Required to increase the 69kV load transfer capability between South Manheim and West Hempfield substations for a double circuit outage of the West Hempfield - Hummelstown and West Hempfield - Armstrong Marietta 69kV lines resolving the load drop violation of the P&P. This project will also facilitate the future conversion of the West Hempfield - McGovernville #1 & #2 69kV lines to 138kV operation.	\$10.7	2013
Seid-Quak-rec&reco/HosT4-rplSC	The 2/0 Cu Coopersburg tap off the Quarry-Elliott Heights #1 line (officially named Quarry #1. Coopersburg tap) is overloaded at 116% of normal rating. (First few spans to Seiderville Tap will be reconducted by Fall 2006).	\$10.3	2009
Rec Sunbury to Dalmatia sect	The Sunbury-Dalmatia section of the Sunbury-Dauphin 69kV line will experience normal overload by the summer of 2012 due to the general load growth in the northern Dauphin and Juniata Counties. This project will mitigate the overloads as well as will provide a high capacity tie line to Dauphin substation for load restoration and maintenance outages. Further, because the line is 1960s vintage, the rebuild will assist in mitigating future interruption of approximately 9,178 customers supplied from this circuit due to equipment failure.	\$10.3	2012

From: Origin ID: ABEA (610) 774-6908
Karen Posten
PPL Corporation
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Allentown, PA 18101

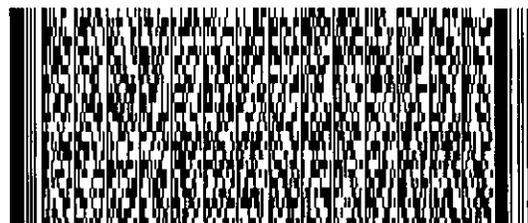
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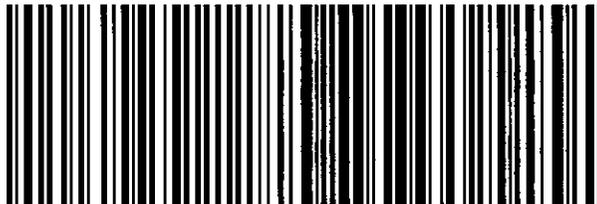
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