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File #: 166392

April 30, 2018

***VIA ELECTRONIC FILING***

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2nd Floor North  
P.O. Box 3265  
Harrisburg, PA 17105-3265

**Re: Letter of Notification of PPL Electric Utilities Corporation for Approval to Rebuild the Existing Breinigsville-Alburtis 500 kV Transmission Line in Lehigh County, Pennsylvania - Docket No. A-2017-2635709**

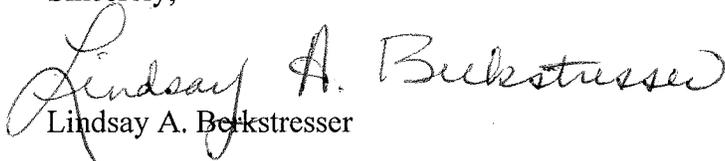
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Dear Secretary Chiavetta:

Enclosed for filing are PPL Electric Utilities Corporation's Responses to the Data Requests of the Bureau of Technical Utility Services in the above-referenced proceeding.

If you have any further questions, please do not hesitate to contact me.

Sincerely,

  
Lindsay A. Berkstresser

LAB/jl  
Enclosures

cc: Jordan Van Order (*Via E-Mail*)

**PPL Electric Utilities Corporation**  
**Response to the Data Requests of**  
**The Bureau of Technical Utility Services**  
**Dated April 27, 2018**  
**Docket No. A-2017-2635709**

Q.4 Reference the Letter of Notification, Paragraph 12. Please explain why the N-1-1 contingency event, described in the filing, creates unacceptable voltage drops now but did not previously.

A.4 The voltage drop was not acceptable in the past. Prior to this project, PPL would have relied on temporary operation maneuvers to mitigate the impacts of voltage drops if they were to occur.

PPL is required to model the future state of the system to identify future system violation in advance. NERC standard TPL-001-4 requires the transmission owner to study N-1-1 to identify violations on the system. If violations are identified then PPL is obligated to resolve them. When PPL studied this contingency a low voltage and voltage drop violation was identified. See Table 1 in the standard for more details. Additionally, when this violation was identified PPL identified operational steps as an interim solution. If this condition were to occur prior to completion of this project PPL would utilize operational steps to prevent the low voltage and voltage drop violation. These operational steps are an interim solution until this project is complete.

**PPL Electric Utilities Corporation**  
**Response to the Data Requests of**  
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**Docket No. A-2017-2635709**

- Q.5           Reference the Letter of Notification, Paragraph 12. For the Breinigsville-Alburtis 500 kV Transmission Line, provide information over the last 3 years, regarding any unplanned outages, including the length, duration and cause of the transmission line outage. For any unplanned outages, were any customers interrupted. Please provide the same information for the Susquehanna-Lackawanna 500 kV Transmission Line and the Susquehanna-Wescosville 500 kV Transmission Line. In addition, please state whether any of these unplanned outages coincident?
- A.5           As described above, PPL is required to plan the system to prevent this N-1-1 low voltage and voltage drop violation from occurring per NERC standard TPL-001-4. There were no unplanned outages on the transmission lines mentioned above in the last 3 years. However, the requested information was not used as the basis for determination of the need for the project.

**PPL Electric Utilities Corporation**  
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**The Bureau of Technical Utility Services**  
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**Docket No. A-2017-2635709**

- Q.6           Reference the Letter of Notification, Paragraph 15. Please state the overall health of the existing Breinigsville-Alburtis 500 kV Transmission Line, when, absent the N-1-1 criteria being applied by PPL, the line would be replaced under normal line replacement practices.
- A.6           As described above, PPL is required to plan the system to prevent this N-1-1 low voltage and voltage drop violation from occurring per NERC standard TPL-001-4. There are currently no open health issues with this line and the line is in good health. The Breinigsville-Alburtis 500 kV line is about 37 years old with a useful life expectancy of about 80 years. However, the requested information was not used as the basis for determination of the need for the project.

**PPL Electric Utilities Corporation  
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- Q.7           Reference the Letter of Notification, Attachment 1, Section 2.0. Please explain whether NERC standards apply to this line, or whether PPL is applying NERC standards on this line according to its own policy.
- A.7           This NERC Standards apply to these lines.

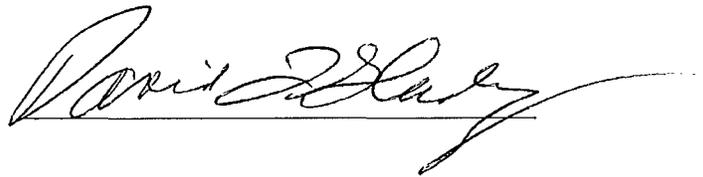
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- Q.8            Please explain if load growth in the area has led to any changed circumstances as it relates to the need to replace the line. Quantify these load growth impacts to the extent practicable.
- A.8            The Breinigsville area has experienced load growth greater than 14 MW in the past five years. The projected load growth in the next five years is about 12 MW. This load growth estimate is based off of the amount of load industrial customers have already requested to connect to the PPL system in the coming years. However, the requested information was not used as the basis for determination of the need for the project.

## VERIFICATION

I, David Gladey being the Director of Asset Management at PPL Electric Utilities Corporation, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief and that I expect PPL Electric Utilities Corporation to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 relating to unsworn falsification to authorities.

Date: 4/30/18

  
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