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Garrett P. Lent  
Principal

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File #: 206618

August 29, 2024

***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, Filed Pursuant To 52 Pa. Code Chapter 57 Subchapter G, For Approval To Rebuild Approximately 0.3 Miles of the Existing Juniata-Cumberland 230 kV and Williams Grove-Cumberland 230 kV Transmission Lines To Re-Terminate Each Existing Transmission Line Into the Expanded Cumberland Substation in Silver Spring Township, Cumberland County, Pennsylvania  
Docket No. A-2024-3050132**

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Dear Secretary Chiavetta:

Enclosed, on behalf of PPL Electric Utilities Corporation (“PPL Electric”), is information being supplied to the Pennsylvania Public Utility Commission’s (“Commission”) Bureau of Technical Utility Services (“TUS”) in response to TUS Set I Data Requests regarding the above-captioned proceeding.

Respectfully submitted,



Garrett P. Lent

GPL/dmc  
Enclosures

cc: Jordan Van Order, Esquire (*via email; w/attachments*)



**PPL Electric Utilities Corporation  
Response to the Set II Data Request of the  
Bureau of Technical Utility Services  
Dated August 07, 2024  
Docket No. A-2024-3050132**

Q. TUS-I-2

Reference the Letter of Notification, Paragraph 18.  
Please explain whether the subject project is a baseline or supplemental project and provide a detailed explanation as to why. Additionally, please provide the associated PJM project number.

A. TUS-I-2

The rebuild of the Cumberland substation was proposed as a supplemental project in the July 2015 TEAC meeting prior to the baseline need being identified. The supplemental project was initiated to resolve the poor operational flexibility due to the straight bus design of the substation. The project was assigned supplemental number S0945.4. After the supplemental project was proposed the baseline need was identified, but no window was opened because PPL Electric's existing supplemental project resolved the need. If PPL Electric does not complete the proposed supplemental project, a baseline project would still be required to solve the TPL-001 thermal overload violation.

**PPL Electric Utilities Corporation**  
**Response to the Set II Data Request of the**  
**Bureau of Technical Utility Services**  
**Dated August 07, 2024**  
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Q. TUS-I-3

Reference the Letter of Notification, Paragraph 28.  
Please quantify the anticipated increase in reliability in terms of customer average interruption duration index, system average interruption duration index, and system average interruption frequency index.

A. TUS-I-3

In general, 230kV Bulk Electric System facilities do not have a direct contribution to traditional IEEE 1366 metrics (SAIFI, SAIDI, and CAIDI) since a single facility outage should not cause customer outages. The driver of this project was the poor operational flexibility due to the straight bus design of the substation. This project will improve the ability to take maintenance outages. This will reduce the risk to the 50,000 customers served by the substation of experiencing an interruption if an event occurs during a maintenance outage.

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Q. TUS-I-4

Reference the Letter of Notification, Paragraph 28. Please explain whether the proposed project meets NERC or PJM minimum planning criteria or whether it exceeds these criteria to meet transmission owner planning criteria. If the project exceeds either of these minimum planning criteria to meet transmission owner criteria, provide a detailed explanation as to why.

A. TUS-I-4

The proposed project meets PPL's planning criteria but does not exceed the PJM minimum planning criteria. The breaker and a half substation arrangement is the preferred option based on the PJM design criteria for a multiple element substation. This is implemented for both 69kV and 230kV yards. The breaker and bay ratings are based on matching the connecting ends.





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Q. TUS-I-7

Reference the Letter of Notification. Please explain whether the subject project reconstructs a section of the Juniata – Cumberland 230 kV Transmission Line which was previously reconfigured and the subject of Docket No. A-2022-3036291.

A. TUS-I-7

This project removes approximately 0.1 miles of the Juniata – Cumberland 230 kV Transmission Line and extends the line approximately 0.2 miles to the rebuilt substation bay. The structures being removed are over 50 years old.

## VERIFICATION

I, JOSEPH B. LOOKUP, being the Vice President – Transmission & Distribution Planning and Asset Management at PPL Services 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: 08/29/2024

  
Joseph Lookup (Aug 29, 2024 09:54 EDT)  
Joseph B. Lookup