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Christopher T. Wright

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File #: 171079

December 11, 2017

***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 Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen Township and Lower Allen Township, Cumberland County, Pennsylvania to Interconnect the New West Shore 230-69 kV Substation to the Electric Grid  
Docket No. A-2017-2634162**

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Dear Secretary Chiavetta:

Enclosed please find the Responses of PPL Electric Utilities Corporation to the Bureau of Technical Utility Services Data Requests, for filing in the above-referenced proceeding.

Respectfully submitted,

Christopher T. Wright

CTW/jl  
Enclosures

cc: Jordan Van Order (*via E-mail*)

Letter of Notification of PPL Electric Utilities Corporation, Filed Pursuant to 52 Pa. Code Chapter 57 Subchapter G, for Approval to Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen Township and Lower Allen Township, Cumberland County, Pennsylvania to Interconnect the New West Shore 230-69 kV Substation to the Electric Grid  
Docket No. A-2017-2634162

Bureau of Technical Utility Services Data Requests  
(Response dated 12/11/17)

- A-1 Reference the LON, Paragraph 10 generally stating that the 230 kV and 69 kV switchyards and transformers at the West Shore Substation do not meet modern design standards and have reached an age and condition such that they must be replaced in order to continue providing safe and reliable service. Please provide a detailed description of the conditions which require these facilities to be replaced and any analysis performed to determine project prioritization.**

Response:

The West Shore Substation was originally built in the early 1960's. The existing switchyard design configuration poses significant risk to the reliability of the transmission system as the equipment is antiquated and does not meet our current design standards. There are numerous pieces of equipment in the yards, including circuit breakers, transformers, relays, grounding grid, and switches, that are beyond the useful life of that equipment. For example, there are circuit breakers at the West Shore Substation that range from 38 to 51 years old and one power transformer that is 49 years old. Equipment of this age increases the risk of failure which would lead to an outage. PPL Electric needs to replace this equipment to reduce the chance of failure and interruptions to customers. The West Shore Substation needs to be updated to improve reliability and increase operational flexibility of the transmission system. Rebuilding the Substation in place would result in a higher cost to customers along with a significant outage risks to the bulk electric system during construction. For this reason, PPL Electric proposes to build a new substation on the adjacent property.

Letter of Notification of PPL Electric Utilities Corporation, Filed Pursuant to 52 Pa. Code Chapter 57  
Subchapter G, for Approval to Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen  
Township and Lower Allen Township, Cumberland County, Pennsylvania to Interconnect the New West  
Shore 230-69 kV Substation to the Electric Grid  
Docket No. A-2017-2634162

Bureau of Technical Utility Services Data Requests  
(Response dated 12/11/17)

- A-2 Reference the LON, Paragraph 20 stating that the project will be located entirely on existing PPL Electric owned property and within existing rights-of-way. Please state the width of the existing ROW and explain how the rerouted Williams Grove — West Shore 230 kV Transmission Line (Williams Grove — West Shore) will be designed to fit within. Specifically, the section of new transmission line between the existing Williams Grove —West Shore and PPL Electric owned property.**

Response:

PPL Electric has 210 feet of right of way (ROW) through the property owned by Upper Allen Township where the Williams Grove – West Shore and Williams Grove – Brunner Island 230 kV lines split onto a different set of structures. The ROW extends to the property boundary with the Norfolk Southern Railroad. PPL Electric has an existing license agreement with Norfolk Southern to cross the railroad. PPL Electric is in the process of obtaining a new license agreement with Norfolk Southern for the new line crossings. The Williams Grove – West Shore and Brunner Island – Williams Grove 230 kV Transmission Lines will be rebuilt entirely within the existing ROW along the same centerline as the existing transmission line west of the railway. East of the railway, the transmission will be constructed entirely within PPL Electric-owned property

Letter of Notification of PPL Electric Utilities Corporation, Filed Pursuant to 52 Pa. Code Chapter 57  
Subchapter G, for Approval to Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen  
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Docket No. A-2017-2634162

Bureau of Technical Utility Services Data Requests  
(Response dated 12/11/17)

- A-3 Reference the LON, Paragraph 28 stating that the cost to site, design, and construct the 230 kV transmission lines is approximately \$3 million and the overall project cost is \$32 million. Please state the name of the individual or entity who will pay these costs. In addition, please state the name of the individual or entity that will own, operate and maintain the new and temporary transmission lines.**

Response:

PPL Electric will own, operate and maintain the new and temporary transmission lines. The cost for this Project will be paid by PPL Electric. The costs and cost recovery of this Project are subject to the regulatory jurisdiction of the Federal Energy Regulatory Commission.

Letter of Notification of PPL Electric Utilities Corporation, Filed Pursuant to 52 Pa. Code Chapter 57  
Subchapter G, for Approval to Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen  
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Bureau of Technical Utility Services Data Requests  
(Response dated 12/11/17)

**A-4 Reference the LON, Attachment 1, Figure 1-4 showing the proposed configuration of temporary transmission lines. Please explain how the temporary 230 kV transmission line connecting the West Shore — Steelton 230 kV Transmission Line to the West Shore Substation will meet NESC required horizontal clearances while maintaining the ROW on PPL Electric owned property.**

Response:

The centerline for the temporary West Shore – Steelton 230 kV Transmission Line is located approximately 17 to 32 feet from the edge of the West Shore Substation property boundary. This conforms to the NESC requirement for 11.4 feet of horizontal clearance for 230 kV transmission lines, and PPL Electric’s more stringent requirement of 14.5 feet of horizontal clearance under the at-rest conductor condition. This also conforms to the NESC requirement for 8.4 feet of horizontal clearance for 230 kV transmission lines, and PPL Electric’s more stringent requirement of 11.5 feet of horizontal clearance under the blowout (6 psf wind) conductor condition.

Letter of Notification of PPL Electric Utilities Corporation, Filed Pursuant to 52 Pa. Code Chapter 57  
Subchapter G, for Approval to Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen  
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Docket No. A-2017-2634162

Bureau of Technical Utility Services Data Requests  
(Response dated 12/11/17)

**A-5 Please provide a certificate of service for the U.S. Army Corps of Engineers and Norfolk Southern.**

Response:

See the Certificate of Service provided as Attachment A-5.



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File #: 171079

December 5, 2017

***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 Site and Construct 1.5 Miles of 230 kV Transmission Lines in Upper Allen Township and Lower Allen Township, Cumberland County, Pennsylvania to Interconnect the New West Shore 230-69 kV Substation to the Electric Grid  
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Dear Secretary Chiavetta:

On November 14, 2017, the Letter of Notification of PPL Electric Utilities Corporation was filed in the above-referenced proceeding. The following property owners were inadvertently omitted from the Certificate of Service in that original filing.


U.S. Army Corps of Engineers  
Philadelphia District  
Regulatory Branch  
Wanamaker Building  
100 Penn Square East  
Philadelphia, PA 19107-3390

Pennsylvania Lines LLC  
c/o Norfolk Southern Railway Company  
110 Franklin Road SE  
Roanoke, VA 24042-0028

Copies of the Letter of Notification will be provided as indicated on the Supplemental Certificate of Service.

Rosemary Chiavetta, Secretary  
December 5, 2017  
Page 2

Respectfully submitted,



Christopher T. Wright

CTW/jl  
Enclosure

cc: Kimberly Hafner  
Supplemental Certificate of Service

**SUPPLEMENTAL CERTIFICATE OF SERVICE**

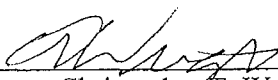
I hereby certify that a true and correct copy of the foregoing has been served upon the following persons, in the manner indicated, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

**VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

US Army Corps of Engineers  
Philadelphia District  
Regulatory Branch  
Wanamaker Building, 100 Penn Square East  
Philadelphia, PA 19107-3390

Pennsylvania Lines LLC  
C-O Norfolk Southern Railway Company  
110 Franklin Rd SE  
Roanoke, VA 24042-0028

Date: December 5, 2017

  
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Christopher T. Wright

**VERIFICATION**

I, STEPHANIE R. RAYMOND, being the VICE PRESIDENT-TRANSMISSION AND SUBSTATIONS 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:

12/11/17

Stephanie R. Raymond