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File #: 2507/140066

October 21, 2010

BY HAND

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: Petition Of PPL Electric Utilities Corporation For Waiver Of Certain Provisions Of The Pennsylvania Public Utility Commission's Regulations At 52 Pa. Code § 57.71 et seq., Regarding The Review Of The Siting And Construction Of A 138/69 kV Double Circuit Tap Line To Serve The United States Army Depot in Coolbaugh Township, Monroe County - Docket No. P-2010-**

Dear Secretary Chiavetta:

Enclosed, are the original and three (3) copies of the Petition of PPL Electric Utilities Corporation in the above-referenced proceeding.

Copies have been provide to the persons as indicated on the enclosed certificate of service.

Respectfully Submitted,

John H. Isom

JHI/jl

Enclosures

cc: Certificate of Service  
Robert F. Young  
Paul T. Diskin

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SECRETARY'S BUREAU

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Petition Of PPL Electric Utilities Corporation :  
For Waiver Of Certain Provisions Of The :  
Pennsylvania Public Utility Commission's :  
Regulations At 52 Pa. Code § 57.71 *et seq.*, : Docket No. P-2010- \_\_\_\_\_  
Regarding The Review Of The Siting And :  
Construction Of A 138/69 KV Double Circuit :  
Tap Line To Serve The United States Army :  
Depot in Coolbaugh Township, Monroe :  
County :

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**PETITION OF  
PPL ELECTIC UTILITIES CORPORATION**

**TO THE PENNSYLVANIA PUBLIC UTILITY COMMISSION:**

PPL Electric Utilities Corporation (“PPL Electric”) hereby petitions the Pennsylvania Public Utility Commission (“Commission”), pursuant to 52 Pa Code §§ 5.43 and 57.72(e), for a waiver of certain of the Commission’s regulations governing the Commission’s review and approval of the siting and construction of high voltage electric transmission lines set forth at 52 Pa. Code §§ 57.71 *et seq.* (“Petition”). Specifically, PPL Electric seeks a waiver of portions of 52 Pa Code §57.72(d) in order to file a Letter of Notification in lieu of an Application to site and construct a double circuit 138/69 kV transmission tap line to replace the existing single circuit 69 kV transmission tap which is used for the sole purpose of supplying the United States Army Depot in Tobyhanna. In support of the Petition, PPL Electric states the following:

**A. INTRODUCTION AND OVERVIEW**

1. This Petition is filed by PPL Electric, which provides electric distribution, transmission and provider of last resort services subject to the regulatory jurisdiction of the Commission. PPL Electric is a “public utility” and an “electric distribution company” as those

terms are defined in Sections 102 and 2803 of the Pennsylvania Public Utility Code, 66 Pa. C.S. §§ 102, 2803. PPL Electric furnishes electric public utility services to approximately 1.4 million customers throughout its certificated service territory, which includes all or portions of twenty-nine counties and encompasses approximately 10,000 square miles in eastern and central Pennsylvania.

2. PPL Electric's address is:

Two North Ninth Street  
Allentown, Pennsylvania 18101

3. PPL Electric's attorneys are:

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PPL Electric's attorneys are authorized to receive all notices and communications regarding this Petition.

4. PPL Electric owns approximately 5,000 miles of transmission lines operating at 69,000 volts or higher, approximately 330 substations with a capacity of 10,000 kilovolt-ampere or more, and approximately 43,000 miles of distribution lines operating at less than 69,000 volts.

5. PPL Electric currently provides electric to the United States Army Depot ("Tobyhanna Army Depot") located in a portion of Coolbaugh Township, Monroe County, Pennsylvania that is known as Tobyhanna.

6. Tobyhanna Army Depot is the largest, full-service electronics maintenance facility in the Department of Defense. The Tobyhanna Army Depot's mission is the design, manufacture, repair and overhaul of hundreds of electronic systems. These systems include satellite terminals, radio and radar systems, telephones, electro-optics, night vision and anti-intrusion devices, airborne surveillance equipment, navigational instruments, electronic warfare, and guidance and control systems for tactical missiles. The Tobyhanna Army Depot is the Department of Defense's lead facility for automated test equipment, systems integration and downsizing of electronics systems. The U.S. Army has designated the Tobyhanna Army Depot as its Center of Industrial and Technical Excellence for communications-electronics, radar, and missile guidance and control. The U.S. Air Force has designated the Tobyhanna Army Depot as its Technical Source of Repair for command, control, communications and intelligence systems.

7. PPL Electric provides service to the Tobyhanna Army Depot via a 2.08 mile single circuit 69 kV transmission tap line from the Blooming Grove-Jackson 138/69 kV Transmission Line<sup>1</sup> to a substation owned by the Army which is situated on the same tract of

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<sup>1</sup> The Blooming Grove-Jackson 138/69 kV Transmission Line is one of two circuits on this double circuit 138/69 kV transmission line. The other circuit is named Peckville-Jackson 138/69 kV Transmission Line and will be the source

land as the Tobyhanna Army Depot. The existing single circuit tap is not used to serve any other customers and is the sole source of electricity for the Army Depot. The existing single circuit tap line was constructed in 1959. The project is shown on Attachment 1 to this Petition.

8. The existing single circuit tap is situated entirely within a one hundred foot wide right-of-way from the substation to the Blooming Grove-Jackson 138/69 kV Transmission Line. The 0.76 miles of the existing single circuit tap closest to the substation is located on the Army's property. The remaining 1.32 miles of the tap are located off Army property.

9. Due to growth in load at the Tobyhanna Army Depot over the years, the Army's facilities, including its substation, are no longer adequate to serve its load. As a result of these inadequate facilities, the Tobyhanna Army Depot regularly experiences brownouts. In order to address these problems, the United States Army has initiated on-premise electrical system improvements and upgrades which include the design and construction of a new, larger substation to improve electrical service reliability. The new substation will be located adjacent to the existing substation and will provide additional operational flexibility when tied to the double circuit tap.

10. In order to obtain a source of supply that will be adequate to meet the Tobyhanna Army Depot's load both currently and into the foreseeable future and to obtain an adequate source of supply for its new, upgraded substation, the Army requested that PPL Electric upgrade the Tap Line that supplies the substation.

11. In July 2010, the Army signed an agreement with PPL Electric for the replacement of the existing single circuit 69 kV transmission tap with a double circuit 138/69 kV tap ("Tobyhanna Taps") to improve service reliability by providing the customer with a double

---

for the proposed second tap into Tobyhanna. Providing a second source for the Tobyhanna Army Depot will significantly improve the reliability of electric service to the customer.

circuit supply. One circuit will be supplied from the Blooming Grove-Jackson 138/69 kV line, and the other circuit will be supplied from the Peckville-Jackson 138/69 kV line. The double circuit transmission tap arrangement along with the proposed substation upgrades will improve the reliability of service for the Tobyhanna Army Depot and improve the operational flexibility of the system. Under this proposed configuration, the loss of any single transmission facility (*i.e.*, transmission line or transformer) will not interrupt service to the Tobyhanna Army Depot. This is a significant improvement from the current configuration in which the loss of the single transmission line or the Army's transformer which serve the customer would completely interrupt Tobyhanna Army Depot's entire load. A one-line drawing showing the proposed configuration is included as Attachment 2.

12. Under the agreement, PPL Electric will construct the new tap, and the Army will reimburse PPL Electric for the construction costs.

13. The United States Army has requested that PPL Electric install the new double circuit tap line as quickly as possible since its new substation will be constructed and placed in service in November 2011. The new substation and the new 138/69 kV double circuit Tap should be placed in service at approximately the same time. PPL Electric estimates that the construction of the new 138/69 kV double circuit Tap can be completed in approximately 9 months from the initiation of construction.

14. The purpose of this Petition, as explained more fully below, is to obtain from the Commission such waivers as are necessary or appropriate to permit PPL Electric to seek the Commission's approval for the siting and construction of the new 138/69 kV Taps to serve the Tobyhanna Army Depot by means of a Letter of Notification instead of a full siting Application. Use of a Letter of Notification will permit PPL Electric to complete the filings required for

approval in a much shorter period of time than the time that would be required to prepare a complete siting Application. Regulatory review in a shorter period of time will enable PPL Electric to complete construction of the proposed 138/69 kV Tap Line sooner, as requested by the United States Army, to supply its upgraded substation which is expected to be completed and ready to be placed in service by November 2011.

**B. TRANSMISSION LINE RECONSTRUCTION**

15. The subject of this Petition is the proposed new double circuit 138/69 kV transmission tap line that will connect the existing Blooming Grove-Jackson and Peckville-Jackson 138/69 kV transmission lines to the new substation located on Army Depot property. The proposed transmission tap line will be designed for 138 kV; however, it will initially be operated at 69 kV.

16. PPL Electric's preferred and most practical route for the new transmission tap line is to construct the new line within the existing rights-of-way, adjacent to the existing 69 kV tap. No additional right-of-way will be required for the portion of the new tap line located off the Army Depot property. Some adjustments to the right-of-way, however, may be required on the Army Depot property to route the new tap line around wetlands. The existing transmission tap must remain in service until the new tap line is in place. The Army has agreed to convey to PPL Electric such additional right-of-way as will be needed to construct the new 138/69 kV double circuit Tap Line.

17. The proposed project can be separated into two distinct components. The first component is the 0.76 miles of the proposed transmission tap line that is located on the Army's property and the second component is the remaining 1.32 miles that is located off the Army property.

18. There are no practical alternative routes. Due to ongoing operations conducted at the Army Depot, including radar operations, alternative routes on the Army Depot property are not available. Regarding the portion of the new 138/69 kV double circuit Tap Line that will not be on Army property, any alternative route would require acquisition of a new right-of-way for the entire length of the line and clearing of an entirely new right-of-way through heavily forested and wetland areas, which would cause much greater environmental harm than using the existing right-of-way.

19. As explained previously, the existing single circuit 69 kV Tap Line is the sole source of supply for Tobyhanna Army Depot. Therefore, it must remain in service until the new double circuit 138/69 kV Tap Line has been completed and is in service. Because the existing tap line must stay in service during construction of the new tap line, if PPL Electric is permitted to route the proposed 138/69 kV Tap line in the existing right-of-way, the centerline of the new tap line will be shifted approximately 20 feet from the centerline of the right-of-way as shown on Attachment 3.

20. The proposed 138/69 kV Taps will be supported by new 70 foot high steel monopoles. The steel monopoles will replace the existing wood H-frames on a pole-by-pole basis. Span lengths will not be substantially modified. The existing wood H-frames average approximately 52 feet in height.

### **C. WAIVER REQUEST**

21. Because no reasonable routing alternatives exist, the most practical and efficient method to obtain Commission review and approval for the siting of the new tap line is a Letter of Notification under 52 Pa. Code Pa. Code § 57.72(d) rather than a full Application under 52 Pa Code §§ 57.71(a)-(c). Preparation of a full Application requires the completion of numerous studies, reports, maps and diagrams that are not required to prepare a Letter of Notification.

22. The Commission's regulation at 52 Pa. Code § 57.72(d) sets forth the circumstances under which an electric public utility may seek Commission approval for the siting and construction of a proposed high voltage transmission line by means of a Letter of Notification instead of a full Application as follows:

“(d) Letter of notification in lieu of Application:

(1) A Letter of Notification may be filed with the commission in lieu of the Application process set forth in §§ 57.71 – 57.76 for the following:

(i) An HV line which is proposed to be located entirely on an existing transmission line right-of-way, so long as the size, character design, or configuration of the proposed HV line does not substantially alter the right-of-way.

(ii) An HV line which is proposed to be located entirely within a public road.

(iii) An HV line which is proposed to be located entirely within the applicant's existing transmission line right-of-way and the property of the sole customer to be served by the line, so long as the size, character, design, or configuration of the proposed line does not substantially alter the right-of-way.

(iv) A line for which the voltage is proposed to be increased above its present levels, so long as the size, character, design or configuration of the proposed line does not substantially alter the right-of-way.

(v) An HV line which is to be reconductored or reconstructed so long as the size, character, design or configuration of the proposed line does not substantially alter the right-of-way.

(vi) An HV line having a proposed route of 2 miles or less.”

52 Pa Code § 57.72 (d).

23. As proposed, the transmission tap line does not meet the strict definition of any one of the circumstances in which a Letter of Notification may be used, as set forth above. The

proposed transmission Tap Line, however, nearly fits within several of the circumstances in which a Letter of Notification may be used in lieu of an Application. PPL Electric is requesting a waiver of the strict Application of the aforementioned regulations to allow PPL Electric to file a Letter of Notification in lieu of an Application for Commission review and approval to site and construct the proposed transmission tap line.

24. The Commission's Rules of Administrative Practice and Procedure at 52 Pa. Code § 5.43 allow for petitions for waiver of any of the Commission's regulations. More specifically, the Commission's transmission line siting regulations, at 52 Pa. Code § 57.72(e), specifically permit petitions to request that portions of these specific siting regulations be waived. It states:

(e) The Commission or the presiding officer may — upon the petition of any party, upon the Commission's own motion, or upon the presiding officer's own motion — waive one or more or all of the requirements in this subchapter. The petition shall clearly state the requirements sought to be waived and the reasons therefor.

52 Pa. Code § 57.72(e).

25. PPL Electric respectfully requests a waiver of the strict Application of 52 Pa. Code § 57.72(d)(1) to permit PPL Electric to seek approval of the siting and construction of the 138/69 kV Taps that are needed to serve the Tobyhanna Army Depot by means of a Letter of Notification.

a. The Commission's regulations permit use of a Letter of Notification if the length of a proposed transmission line is two miles or less. 52 Pa. Code § 57.72(d)(1)(vi). The proposed 138/69 kV Tap Line is only 2.08 miles, which is only 404 feet longer than the length of transmission lines for which a Letter of Notification is permitted. Additionally, approximately 37 percent or 0.76 miles of the proposed route is situated on the Army Depot property and the proposed 138/69 kV Tap Line is being constructed at the request

of the Army. Only 63 percent of the Tap Line, or 1.32 miles, is situated on lands of others.

b. Letters of Notification are permitted if the proposed transmission line will be constructed “entirely within existing transmission line right-of-way and the property of the sole customer to be served by the line so long as the size, character, design or configuration of the proposed HV line does not substantially alter the right-of-way.” 52 Pa. Code § 57.72(d)(1)(iii). Here, the proposed transmission line will be located entirely within existing transmission line right-of-way and property of the Tobyhanna Army Depot, the sole customer to be served by the Tap Line. The only issue is whether the proposed transmission line will “substantially alter the right-of-way.” Although the meaning of this phrase is uncertain, PPL Electric believes that its proposed 138/69 kV Tap Line will not have significant incremental environmental impacts on the right-of-way.

The existing structures have two poles that are each 52 feet in height with a cross arm from which insulators and the three conductors are suspended. In addition, they have two crossbars which reinforce and stabilize the poles. There is two overhead ground wires.

A typical structure for the proposed 138/69 kV transmission line will have only one pole which will be 70 feet in height. There will be no cross arms or crossbars. It will have six conductors suspended from six arms and one overhead ground wire. The existing and proposed structures are illustrated in Attachment 3 hereto. As explained previously, the proposed 138/69 kV Tap Line will have the same number of structures and the span lengths will be approximately the same as those of the existing tap line.

Further, after the new 138/69 kV Tap Line has been completed, the existing tap line will be retired from service, dismantled and removed.

26. The Commission has approved similar requests granting waivers of certain regulations regarding Commission Review of Siting and Construction of Electric Transmission Lines at 52 Pa Code § 57.71 et seq.

a. In Letter of Notification of Pennsylvania Electric Company pursuant to 52 Pa. Code § 57.72(d) to install the East-Towanda Mansfield 115 kV Transmission Line Tap to the Tennessee Gas Pipeline Substation located in Troy Township, Bradford County, Pennsylvania (Penelec/Tennessee Gas), Docket No. A-110400F0045 (Feb. 6, 2006), the Commission granted Penelec's request for waiver of Section 57.72 of the Commission's siting regulations. The proposed project was 2.6 miles long, and was located along the rights-of-way of an existing line and across the property of the sole customer to be served by the line.

b. In *Petition for Waiver of Certain Provisions of the Pennsylvania Public Utility Commission's Regulations for Commission Review of Siting and Construction of Electric Transmission Lines set forth at 52 Pa. Code § 57.71 et seq.*, Docket No. P-2008-2037618 (June 27, 2008), the Commission approved Penelec's request for a waiver from Section 57.72(d) of the Commission's siting regulations. Penelec proposed to connect a new ethanol plant to the grid by extending a 115 kV transmission line. The total length of the project was 3.9 miles. The route for the extension would follow an existing 34.5 kV circuit for approximately 3.1 miles, after which it would require construction of 0.3 miles in new right-of-way and an additional 0.5 miles of new construction located on the ethanol plant property. The project also required 10 to 15 feet of additional rights-of-way

on both sides of the existing circuit. The Commission noted that most of the line extension in question was located on an existing right-of-way of a 34.5 kV line and across the property of the sole customer being served by the line. The Commission further noted that, for the most part, the extension is a rebuild of an existing line, and was not significantly longer than the two-mile standard at § 57.72(d)(1)(vi). The Commission therefore approved Penelec's request for a waiver and ordered Penelec to file a Letter of Notification.

27. If the Commission approves this Petition, allowing PPL Electric to proceed by means of a Letter of Notification instead of a full application, the PPL Electric will still provide to the Commission information that will be more than adequate to decide whether to approve the siting and construction of the Tobyhanna Taps. The principal difference between a Letter of Notification and a full Application is the level of detail required in selecting a route for the transmission line. A full Application under 52 Pa. Code §§57.72(c) requires, in addition to information required for a Letter of Notification, studies of the impacts of the transmission line on the environment, scenic areas, historic areas, land use, soil, sedimentation, plant and wildlife habitat terrain, hydrology and landscape, descriptions of efforts to locate and identify archaeological, geologic and wilderness areas of significance, airports, alternative projects with their relative merits and detriments, and governmental agencies with jurisdiction over different aspects of the transmission project.

28. The need for such detailed information is much less with regard to the proposed Tobyhanna Taps because:

- a. The Taps are relatively short (2.08 miles) which will reduce their impacts.

b. Approximately on third of the length of the length of the Taps will be on property owned by the U.S. Army, the only customer to be served by the Taps, which will reduce the impact of the Taps on the public.

c. PPL Electric proposes to construct the Taps in an existing utility corridor which is already occupied by a transmission tap line. Use of an existing and presently occupied corridor will minimize the incremental impacts of the Taps.

d. Due to the forested, natural nature of the area, any alternative route would have far greater environmental impact than using an existing utility corridor, as PPL Electric proposes.

29. For the reasons provided above, PPL Electric requests that the Commission approve this waiver request to provide for a more efficient method to file for siting and construction approval of the 138/69 kV Tap Line. Upon approval of this Petition, PPL Electric will file with the Commission a Letter of Notification requesting approval to site and construct the proposed 138/69 kV Tap Line in order to meet the service requirements of the United States Army at Tobyhanna Army Depot.

#### **D. REQUEST FOR EXPEDITED CONSIDERATION**

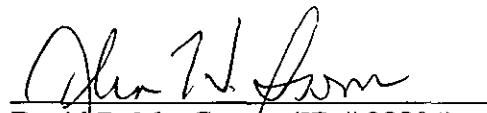
30. PPL Electric respectfully requests expedited consideration and approval of this Petition by the Commission so that it can prepare and submit a Letter of Notification in order to meet the expedited schedule requested by the United States Army. The Tobyhanna Army Depot regularly experiences brownouts as a result of inadequate electrical facilities. As a result, the United States Army is in the process of updating the electrical facilities to improve reliability. A key component of the electrical system upgrades is the construction by the Army of a new substation. The construction of the new substation is currently scheduled to be completed by November 2011. The United States Army requested that the completion of the new Tobyhanna

Taps be coordinated with the completion of the substation so the new taps could be utilized to energize the new substation in lieu of tying it into the existing substation on an interim basis.

**E. CONCLUSION**

WHEREFORE, PPL Electric Utilities Corporation respectfully requests that the Public Utility Commission approve this Petition as filed and waive the strict Application of regulations at 52 Pa. Code § 57.72(d)(1) so that PPL Electric Utilities Corporation may seek approval of a 138/69 kV Tap Line which will replace an existing 69 kV Tap Line by means of a Letter of Notification instead of a full Application in order to expedite an upgrade in facilities to serve the United States Army Depot at Tobyhanna. .

Respectfully submitted,



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Of Counsel:

Post & Schell, P.C.

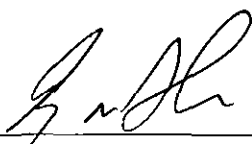
Date: October 21, 2010

Attorneys for PPL Electric Utilities Corporation

**VERIFICATION**

I, Gregory N. Dudkin, being the Senior Vice President Operations of 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 that 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: 10/12/10

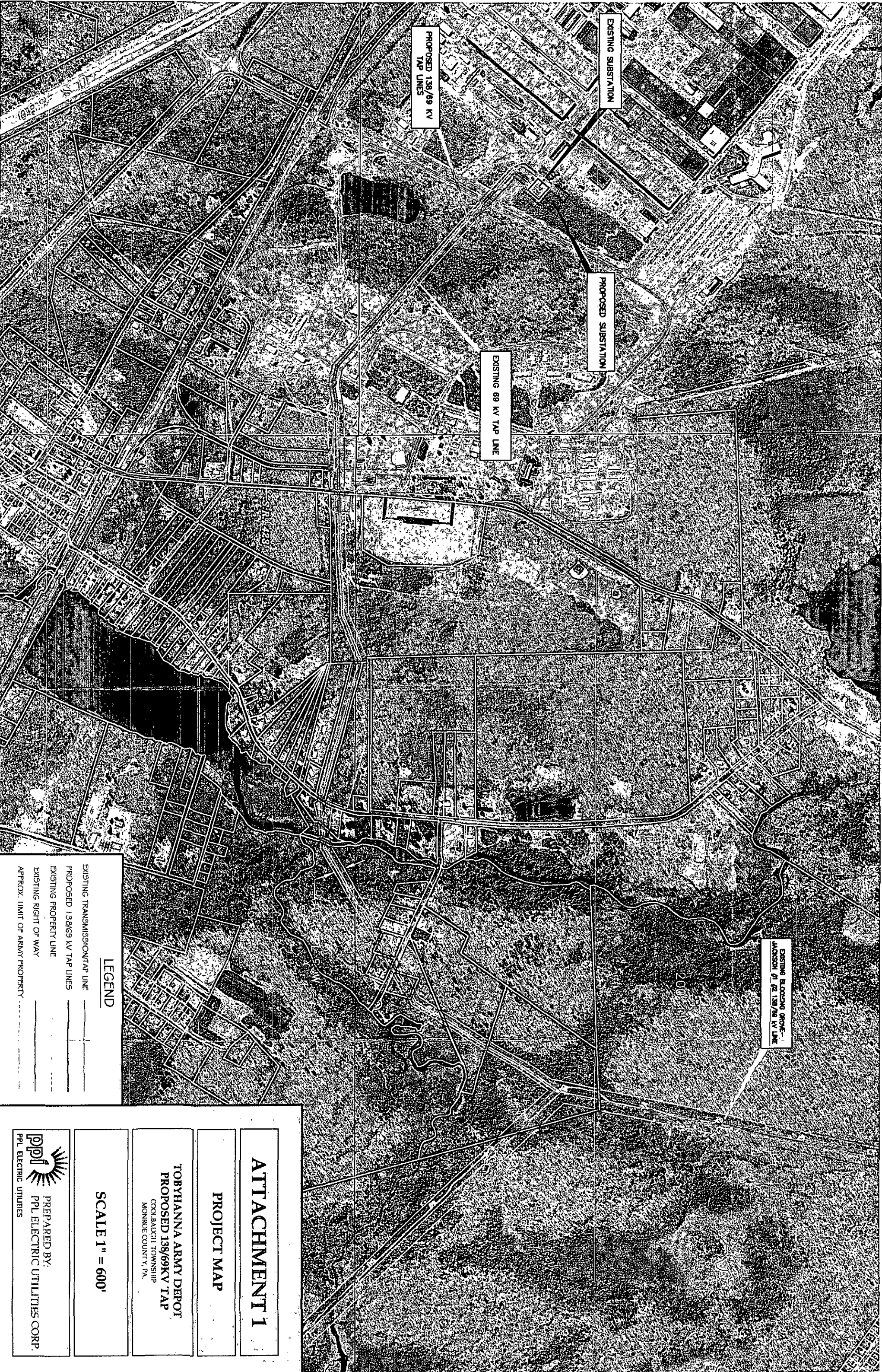
  
\_\_\_\_\_  
Gregory N. Dudkin

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SECRETARY'S BUREAU



EXISTING BLOOMING GROVE - JACOBSON #1 #2 138/69 KV LINE

EXISTING SUBSTATION

PROPOSED SUBSTATION

EXISTING 89 KV TAP LINE

PROPOSED 138/69 KV TAP LINES

ST. 223

200

**LEGEND**


- EXISTING TRANSMISSION/TAP LINE
- PROPOSED 138/69 KV TAP LINES
- EXISTING PROPERTY LINE
- EXISTING RIGHT OF WAY
- APPROX. LIMIT OF ARMY PROPERTY

**ATTACHMENT 1**

**PROJECT MAP**

**TOBYHANNA ARMY DEPOT**  
**PROPOSED 138/69KV TAP**  
 COOL BAUGH TOWNSHIP  
 MONROE COUNTY, PA.

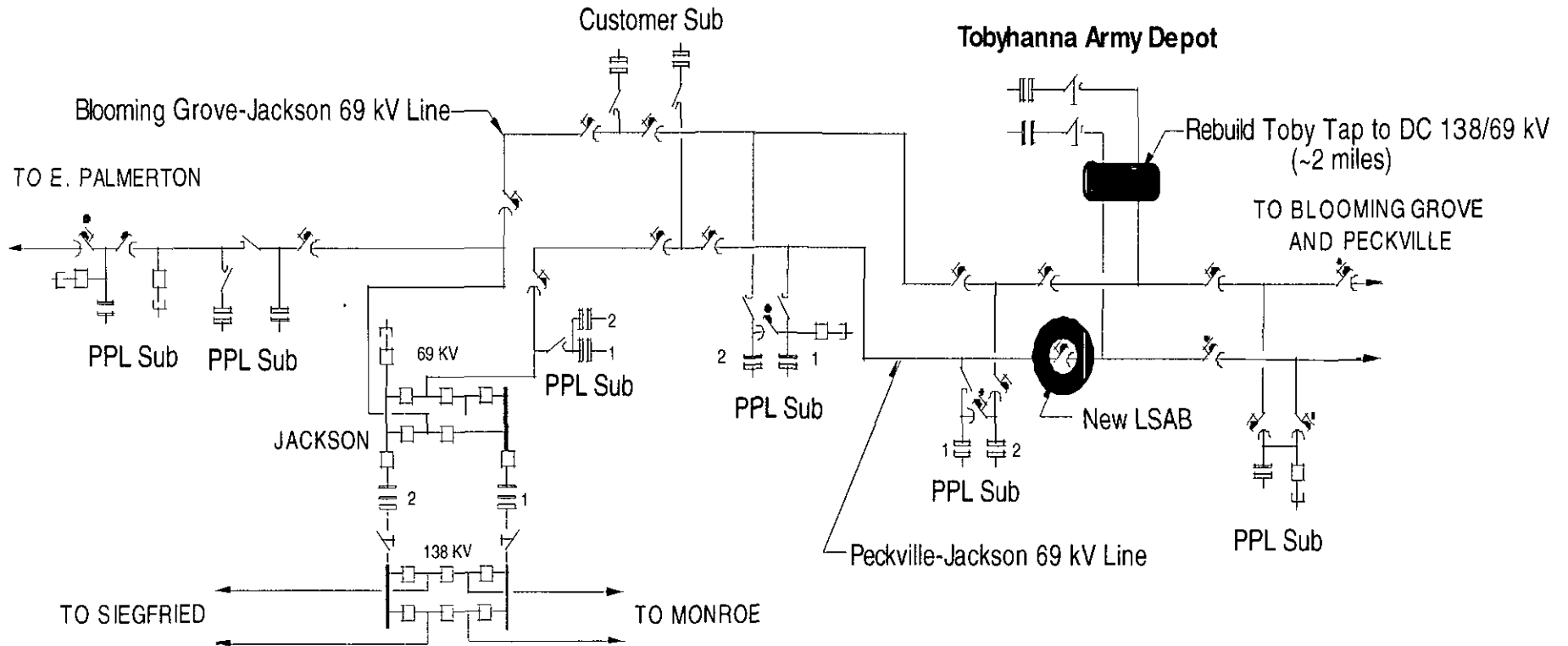
**SCALE 1" = 600'**


 PREPARED BY:  
**PPL ELECTRIC UTILITIES CORP.**  
 PPL ELECTRIC UTILITIES

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## Attachment 2

### TRANSMISSION LINE ARRANGEMENT



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MF

APPROVED

REVIEWED

BY

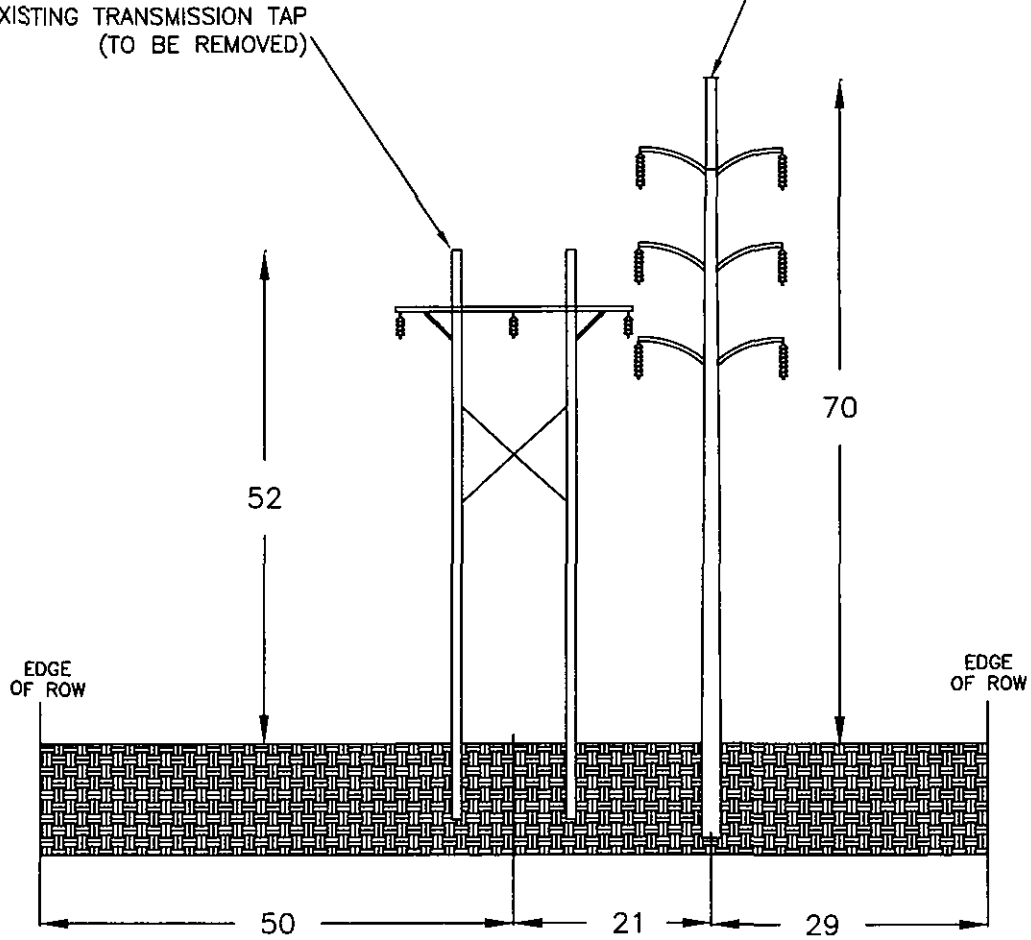
CENTER OF ROW

PROPOSED DOUBLE CIRCUIT TRANSMISSION TAP

EXISTING TRANSMISSION TAP (TO BE REMOVED)



REVISION



\*  
C  
SORTS



TRANS MAP #  
LOCATION CODES



ACCT- 10014966  
SCALE- 1" = 20'  
BY-

ATTACHMENT 3  
PROPOSED TYPICAL CROSS SECTION  
TOBYHANNA ARMY DEPOT

DATE  
REVIEWED

COOLBAUGH TOWNSHIP  
APPROVAL DATE

MONROE COUNTY, PA

PPL ELECTRIC UTILITIES

PPL DRAWING NO.

SHEET NO.

REV.  
0

LOC CODE | P & P #

**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the foregoing **Petition of PPL Electric Utilities Corporation** 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).

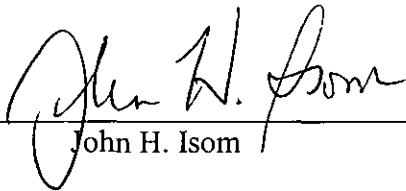
**VIA FIRST CLASS MAIL**

Office of Consumer Advocate  
555 Walnut Street  
Forum Place, 5th Floor  
Harrisburg, PA 17101-1923

Office of Trial Staff  
PO Box 3265  
Commonwealth Keystone Building  
400 North Street, 2nd Floor West  
Harrisburg, PA 17105-3265

Office of Small Business Advocate  
Commerce Building  
300 North Second Street, Suite 1102  
Harrisburg, PA 17101

Date: October 21, 2010

  
\_\_\_\_\_  
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