

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Letter of Notification of PPL Electric :
Utilities Corporation, Filed Pursuant to :
52 Pa. Code Chapter 57 Subchapter G, : Docket No. A-2013-_____
for Approval to Relocate a Section of :
the Existing Monroe-Jackson #2 138 :
kV Transmission Line at the North :
Stroudsburg 138-12 kV Substation in :
Stroud Township, Monroe County, :
Pennsylvania. :

LETTER OF NOTIFICATION

TO THE PENNSYLVANIA PUBLIC UTILITY COMMISSION:

PPL Electric Utilities Corporation (“PPL Electric”) hereby files, pursuant to 52 Pa. Code § 57.72(d), this Letter of Notification to request approval from the Pennsylvania Public Utility Commission (“Commission”) to relocate approximately 515 feet of the existing Monroe-Jackson #2 138 kV Transmission Line at the North Stroudsburg 138-12 kV Substation in Stroud Township, Monroe County, Pennsylvania (the “Project”). PPL Electric has provided information regarding this Project to these political subdivisions, which have not objected to the Project.

The proposed Project is necessary to accommodate the needed expansion of the existing North Stroudsburg 138-12 kV Substation to improve reliability of service and power quality for 11,350 customers in Stroud Township, Stroudsburg Borough, and East Stroudsburg Borough in Monroe County. Subject to the Commission’s approval, construction of this Project is scheduled to begin in June 2014, to support an in-service date of November 2014. In support thereof, PPL Electric states as follows:

I. INTRODUCTION

1. This Letter of Notification is filed by PPL Electric, a public utility that provides electric distribution, transmission, and provider of last resort services in Pennsylvania subject to the regulatory jurisdiction of the Commission.

2. PPL Electric's address is PPL Electric Utilities Corporation, 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 Letter of Notification.

4. PPL Electric furnishes electric service 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. PPL Electric is a "public utility" and an "electric distribution company" as defined in Sections 102 and 2803 of the Pennsylvania Public Utility Code, 66 Pa.C.S. §§ 102, 2803.

5. PPL Electric owns approximately 5,000 miles of transmission lines operating at 69 kV (kilovolts) or higher, approximately 375 substations with a capacity of 10 MVA (megavolt amperes) or more, and approximately 43,000 miles of distribution lines operating at less than 69 kV.

6. This Letter of Notification includes the following accompanying attachments:

- Attachment 1 Necessity Statement.
- Attachment 2 Engineering Description.
- Attachment 3 Description of the Right-of-Way.
- Attachment 4 PPL Electric Design Criteria and Safety Practices.

7. This Letter of Notification and accompanying Attachments, which are incorporated herein by reference, contain all the information required by 52 Pa. Code § 57.72(d)(4).

II. THE PROJECT

A. NEED FOR THE PROJECT

1. Existing System

8. The North Stroudsburg and Stroudsburg 138-12 kV Substations currently serve approximately 11,350 customers in Stroud Township, Stroudsburg Borough, and East Stroudsburg Borough in Monroe County.

9. The North Stroudsburg and Stroudsburg 138-12 kV Substations are supplied from the Monroe and Siegfried 230-138 kV Substations via the double-circuit Monroe-Jackson #1 and #2 138 kV Transmission Lines.

10. A description and one-line diagram of the existing system is provided in the Necessity Statement included as Attachment 1 to this Letter of Notification.

11. The Monroe-Jackson #2 138 kV Transmission Line enters the property for the North Stroudsburg 138-12 kV Substation at the southern portion of the substation site, traverses around the Substation to the northwest edge of the property where it interconnects with the Substation. A description and one-line diagram of the section of the existing Monroe-Jackson #2 138 kV Transmission Line to be relocated at the North Stroudsburg 138-12 kV Substation is provided in the Necessity Statement included as Attachment 1 to this Letter of Notification.

2. Need for the Project

12. This Project is needed to resolve violations of PPL Electric's transmission planning reliability principles, practices and standards due to load growth in the area. PPL Electric's transmission planning reliability principles, practices and standards are summarized in the Necessity Statement included as Attachment 1 to this Letter of Notification.

13. Specifically, PPL Electric's planning studies project for 2014 that the following losses of supply to and from the Monroe 230-138 kV Substation would violate PPL Electric Reliability Principles and Practices ("RP&P") for maximum allowable voltage drop for a single facility outage:

(1) The loss of the Martins Creek-Monroe 230 kV Line and the subsequent loss of the Monroe 230-138 kV Transformer #2 supplying the Monroe 138 kV Yard would create a voltage drop in excess of 5% at PPL Electric's North Stroudsburg and Stroudsburg 138-12 kV Substations.

(2) The loss of the Monroe 230-138 kV Transformer #2 would create a voltage drop in excess of 5% at PPL Electric's North Stroudsburg and Stroudsburg 138-12 kV Substations.

(3) The loss of the Monroe 138 kV Bus would create a voltage drop in excess of 5% at PPL Electric's North Stroudsburg and Stroudsburg 138-12 kV Substations.

(4) A double-circuit loss of the Monroe-Jackson #1 and #2 138 kV Transmission Lines between the Monroe 230-138kV Substation and Stroudsburg 138-12kV Substations would create a voltage drop

in excess of 5% at PPL Electric's North Stroudsburg and Stroudsburg 138-12 kV Substations.

14. The above described loss of the Monroe 230 kV to 138 kV power flow will affect the voltage and power quality to approximately 11,350 customers served from PPL Electric's North Stroudsburg and Stroudsburg 138-12 kV Substations.

15. Under any of the above described contingencies, a 6% voltage drop would occur on the 138 kV system at both the North Stroudsburg and Stroudsburg 138-12 kV Substations. This voltage deviation would violate PPL Electric's RP&P, which provides that the maximum allowable voltage drop is 5% for a single facility outage.

16. PPL Electric submitted the Project to PJM Interconnect LLC ("PJM") for review and inclusion in the Regional Transmission Expansion Plan ("RTEP"). The Project was presented before stakeholders at the Mid-Atlantic Sub-Regional RTEP meeting on March 8, 2012, approved by the PJM Board, and included in the 2012 RTEP Report as a baseline project b1896.

17. The Necessity Statement for the Project is provided in Attachment 1 to this Letter of Notification.

B. THE PROPOSED PROJECT

18. To resolve the reliability violations described above, PPL Electric proposes to expand the existing North Stroudsburg 138-12 kV Substation by installing two new 138 kV capacitor banks, as well new protective relays at the Monroe 230-138 kV and Jackson 138-69 kV Substations.

19. To accommodate the modifications at the North Stroudsburg 138-12 kV Substation, PPL Electric proposes to relocate a section of the existing Monroe-Jackson #2 138 kV Transmission Line at the Substation site.

20. The relocation of the existing Monroe-Jackson #2 138 kV Transmission Line at the North Stroudsburg 138-12 kV Substation site requires the movement of one existing steel monopole, the installation of one new steel monopole, and the replacement of approximately 405 feet of existing conductor with approximately 515 feet of new conductor. Figure 2 to Attachment 1 to this Letter of Notification depicts the functional arrangement of the existing and proposed transmission facilities at the North Stroudsburg 138-12 kV Substation. An aerial exhibit showing the location of the proposed facilities is provided at the end of Attachment 3 to this Letter of Notification.

21. Both the relocated and new 138 kV steel monopoles will be approximately 105 feet in height. Both monopoles will be direct embedded and guyed. A depiction of the type of monopoles used for this Project is provided in Figure 1 to Attachment 2 to this Letter of Notification.

22. The relocated section of the Monroe-Jackson #2 138 kV Transmission Line will utilize three power conductors and one steel overhead ground wire (OHGW). The minimum conductor-to-ground clearance will be 30 feet, which occurs at a maximum conductor temperature of 125° C. An engineering description of the relocated section of the Monroe-Jackson #2 138 kV Transmission Line is provided in Attachment 2 to this Letter of Notification.

23. After the Project is completed, the North Stroudsburg and Stroudsburg 138-12 kV Substations, as well as the customers served from these substations will not experience any sustained voltage drops¹ for any of the four contingencies described above.

24. The total estimated cost of the proposed Project is \$3.0 million, which includes the costs associated with the construction of the two proposed capacitor banks at the North

¹ At the time of the fault occurs, customers may initially experience a brief momentary voltage drop before the additional capacitor banks and protective relay scheme quickly adjust to restore voltage to appropriate levels; however, the voltage drop will not be a sustained voltage drop as would be experienced under the existing system.

Stroudsburg 138-12 kV Substation and the installation of the relay upgrades at the Monroe 230-138 kV and Jackson 138-69 kV Substations. The transmission work associated with this project is estimated to cost approximately \$300,000.²

25. Upon Commission approval, the Project has a scheduled construction start date of June 2014 to meet an in-service date of November 2014.

III. HEALTH AND SAFETY

26. The proposed Project will not create any unreasonable risk of danger to the public health or safety.

27. The relocated Monroe-Jackson #2 138 kV Transmission Line will be designed, constructed, operated, and maintained in a manner that meets or surpasses all applicable National Electrical Safety Code (“NESC”) minimum standards and all applicable legal requirements. Descriptions PPL Electric’s design criteria and safety practices are provided in Attachment 4 to this Letter of Notification.

28. Consistent with its Magnetic Field Management Program, PPL Electric will construct the Project for ground clearances that are a minimum of five feet higher than the required NESC minimum ground clearance for 138 kV lines in order to reduce the magnetic field exposure. A description of PPL Electric’s Magnetic Field Management Program is provided in Attachment 2 to this Letter of Notification.

² The estimated cost for the proposed Project is an order-of-magnitude estimate developed using averages of recent costs for similar projects and without an in-depth analysis of filed investigation. The estimated cost is subject to change as the constructability of the Project, sequence of construction, and other factors that may affect cost are identified and analyzed as the Project progresses.

IV. DESCRIPTION OF RIGHT-OF-WAY

29. The section of the existing Monroe-Jackson #2 138 kV Transmission Line to be relocated currently is located entirely within the North Stroudsburg 138-12 kV Substation property owned in fee by PPL Electric.

30. To accommodate the substation modifications and transmission line relocation, PPL Electric has reached an agreement in principle with the neighboring property for an approximately 0.25 acre aerial right-of-way to the southeast of the existing substation site.³

31. Both the moved and new poles for the relocated Monroe-Jackson #2 138 kV Transmission Line will be located entirely on the North Stroudsburg 138-12 kV Substation property owned in fee by PPL Electric. No new poles as a part of this Project will be placed on the right-of-way to be acquired from the neighboring property.

32. An aerial plot plan is provided at the end of Attachment 3 to this Letter of Notification.

33. Land use impacts are anticipated to be minimal due to the fact that the Project is located in areas that currently contain existing PPL Electric facilities. In addition, the surrounding properties are currently used for industrial operations.

34. PPL Electric will use previously established access roads for construction to further reduce interference with existing land uses.

35. The North Stroudsburg 138-12 kV Substation site previously has been cleared of vegetation to accommodate the existing electrical facilities. As a result, limited vegetation management will be required for this project. In areas where vegetation management is required

³ At the time of this filing, PPL Electric has reached an agreement with the property owner and anticipates that the easement and right-of-way agreement will be executed in the near future. In the event that the final easement and right-of-way agreement is not executed, PPL Electric will file a Condemnation Application, pursuant to Section 1511(c) of the Business Corporation Law of 1988, 15 Pa.C.S. § 1511(c), if necessary.

to complete the project, PPL Electric will apply its “Specifications for Initial Clearing and Control of Vegetation On or Adjacent to Electric Line Right-of-Way Through Use of Herbicides, Mechanical and Hand Clearing Techniques” to mitigate any impacts.

36. No communication towers, pipelines, or other utilities will be affected by the proposed Project.

37. The closest airport is the Stroudsburg-Pocono Airport, which is approximately two miles east of the Project area. Thus, impacts to this airport are not expected. Nevertheless, PPL Electric will file the appropriate notifications with the Pennsylvania Department of Transportation Bureau of Aviation and the Federal Aviation Administration to confirm that the proposed relocated and new tower structures and conductors will not pose a hazard to flight operations at this airport.

38. The Project area contains no state lands, national parks, state parks, or local parks.

39. The Project will not traverse or affect any unique geological, scenic, or natural areas.

40. The Project will not affect any recreational areas or natural landmarks.

41. The Project area was reviewed with the Pennsylvania Historical and Museum Commission (PHMC). In a response dated November 5, 2013, the PHMC indicated that Phase I archeological surveys should be conducted. PPL Electric will complete the required Phase I survey and continue to consult with the PHMC to avoid impacts to cultural and archeological resources. However, it is anticipated that the Project will have minimal impacts to cultural and archeological resources because the Project will be constructed at the existing North Stroudsburg 138-12 kV Substation site.

42. PPL Electric will avoid impacts to wetlands to the maximum extent practical. PPL Electric will obtain all necessary permits from the Pennsylvania Department of Environmental Protection and the United States Army Corps of Engineers and will comply with all of the terms and conditions placed on those permits.

43. PPL Electric will acquire any required soil erosion and sedimentation control permits and will comply with any conditions placed on those permits.

44. PPL Electric has consulted with state and federal agencies to obtain information regarding endangered and threatened species in close proximity to the Project. A review of the Pennsylvania Natural Diversity Inventory ("PNDI") records under the jurisdiction of the Department of Conservation and Natural Resources, the Pennsylvania Fish and Boat Commission, the Pennsylvania Game Commission, and the U.S. Fish and Wildlife Service ("USFWS") has been completed.

45. The PNDI records indicate there is a potential impact to a species that falls under the jurisdiction of the USFWS. However, PPL Electric has received clearance from the USFWS for the Project area. Therefore, the Project will not impact any threatened and endangered species or special concern species and resources located within the Project area.

V. NOTICE

46. PPL Electric has provided information regarding the Project to representatives of Stroud Township and Monroe County. These entities have not objected to the proposed Project.

47. Copies of this Letter of Notification will be served on the governmental agencies, municipalities, and other public entities agencies in accordance with 52 Pa. Code § 57.72(d)(3).

48. All owners of land subject to the right-of-way and easement were notified by PPL Electric representatives and sent a letter summarizing the proposed Project. Further, copies of

this Letter of Notification will be served on these landowners in accordance with 52 Pa. Code § 57.72(d)(3).

VI. LETTER OF NOTIFICATION

49. PPL Electric is proceeding by means of a Letter of Notification, instead of a full Application, pursuant to the Commission's regulations at 52 Pa. Code § 57.72(d)(1)(vi).

50. The proposed Project qualifies for use of a Letter of Notification because the relocated section of the Monroe-Jackson #2 138 kV Transmission Line is less than two miles, *i.e.*, 515 feet.

51. Further, the proposed relocation of the Monroe-Jackson #2 138 kV Transmission Line is expected to have a minimal incremental impact. Although PPL Electric has reached an agreement in principle for an approximately 0.25 acre right-of-way from the adjacent property, both the moved and new poles for the relocated Monroe-Jackson #2 138 kV Transmission Line will be located entirely on the North Stroudsburg 138-12 kV Substation property owned in fee by PPL Electric.

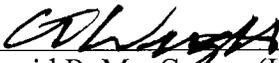
52. This Letter of Notification is filed on the date set forth below. As provided in 52 Pa. Code § 57.72(d)(5), the Commission will review and, by order, approve or disapprove this Letter of Notification. If the Commission approves this Letter of Notification, the proposed Project will be constructed as proposed herein without the formal application process set forth at 52 Pa. Code §§ 57.71, *et seq.*

VII. CONCLUSION

WHEREFORE, PPL Electric Utilities Corporation respectfully requests that the Pennsylvania Public Utility Commission approve the proposed relocation of approximately 515 feet of the existing Monroe-Jackson #2 138 kV Transmission Line at the North Stroudsburg 138-12 kV Substation in Stroud Township, Monroe County, Pennsylvania, that is explained above and in the Attachments hereto.

Respectfully submitted,

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Date: December 11, 2013

Attorneys for PPL Electric Utilities Corporation

VERIFICATION

I, Matthew Green, being the Director of Engineering 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: 12/10/13



Matthew Green