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File #: 140066

September 24, 2013

***VIA HAND DELIVERY***

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 Reconductor and Reconstruct the Existing Quarry-Seidersville #1 & #2 138/69 kV Transmission Line and Homer Research 69 kV Tap in the City of Bethlehem, Freemansburg Borough, and Lower Saucon Township, Northampton County, Pennsylvania - Docket No. A-2013-**

Dear Secretary Chiavetta:

Enclosed for filing are an original and six (6) copies of the Letter of Notification of PPL Electric Utilities Corporation, together with seven (7) copies of the accompanying attachments which are contained in a separately-bound volume in the above-referenced proceeding. Also enclosed is a CD containing copies of the Letter of Notification and attachments.

As indicated on the certificate of service, copies of the Letter of Notification and accompanying exhibits and appendices are being served by certified mail, return receipt requested upon the involved governmental agencies and municipalities.

Subject to Commission approval, construction is scheduled to begin in the Spring 2014, to support an in-service date of November 2014.

If you have any questions concerning this matter, please contact me at the address or telephone numbers provided above.

Rosemary Chiavetta, Secretary  
September 24, 2013  
Page 2

Respectfully submitted,



Christopher T. Wright

CTW/jl  
Enclosures

cc: Certificate of Service  
Robert F. Young  
Paul T. Diskin  
Nicholas Okoro  
Kimberly Hafner

**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 Reconductor and :  
Reconstruct the Existing Quarry- :  
Scidersville #1 & #2 138/69 kV :  
Transmission Line and Homer Research :  
69 kV Tap in the City of Bethlehem, :  
Freemansburg Borough, and Lower :  
Saucon Township, Northampton :  
County, Pennsylvania. :

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**LETTER OF NOTIFICATION**

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**FILED**  
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**SECRETARY'S OFFICE**

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 reconductor and reconstruct approximately 4.1 miles of the existing double-circuit Quarry-Scidersville #1 & #2 138/69 kV Transmission Line and approximately 0.2 miles of the existing single-circuit Homer Research 69 kV Tap (“Homer Tap”) in the City of Bethlehem, Freemansburg Borough, and Lower Saucon Township, Northampton County, Pennsylvania (“Quarry-Scidersville Project”). PPL Electric has provided information regarding this Project to these political subdivisions, which have not objected to the Project.

The proposed Quarry-Scidersville Project will address and modernize deteriorated aging facilities to help improve electric reliability in the region and help resolve concerns for two critical customers served by these facilities. The Quarry-Scidersville Project will be constructed entirely within PPL Electric’s existing rights-of-way, and the required new modern structures

will be placed in close proximity to the existing poles. Subject to the Commission's approval, construction of this Project is scheduled to begin in Spring 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:

Paul E. Russell (Bar I.D. #21643)  
Associate General Counsel  
PPL Services Corporation  
Two North Ninth Street  
Allentown, PA 18101  
Voice: 610.774.4254  
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Post & Schell, P.C.  
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John H. Isom (Bar I.D. #16569)  
Christopher T. Wright (Bar I.D. # 203412)  
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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 Statement of the Impacts to the Right-of-Way.
- Attachment 4 PPL Electric Design Criteria and Safety Practices.
- Attachment 5 Magnetic Field Management Program.

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 existing Quarry-Seidersville #1 & #2 138/69 kV Transmission Line extends 4.1 miles in a northeast to southwest direction through the southern section of Northampton

County, Pennsylvania. The northern terminus is the Quarry 230-69 kV Substation located in the City of Bethlehem, Northampton County. The southern terminus is the Seidersville 69-12 kV Substation located in Lower Saucon Township, Northampton County.

9. For the first approximately 0.9 miles from the Quarry 230-69 kV Substation, Quarry-Seidersville #1 & #2 138/69 kV Transmission Line was constructed in the 1990's using modern steel monopole design and heights. However, this segment does not meet current lightning protection standards and lacks optical overhead ground wires.

10. The remaining 3.2 miles of the Quarry-Seidersville #1 & #2 138/69 kV Transmission Line were constructed in the 1970's. This segment of the line is installed on outdated wood pole, steel lattice, and H-frame pole structures that do not meet current design or height standards.

11. The Homer Tap serves Lehigh University and is located entirely within PPL Electric's existing right-of-way across the Lehigh University property. The Homer Tap extends southeast approximately 0.2 miles from the Lehigh University-owned Homer Research Substation and taps into the Quarry-Seidersville #1 & #2 138/69 kV Transmission Line.

12. The Homer Tap is installed on short H-frame wood pole structures and does not meet current design, height, or lightning protection standards.

## **2. Need for the Quarry-Seidersville Project**

13. This proposed Quarry-Seidersville Project is needed to replace aging transmission infrastructure on the non-bulk electrical system (facilities operating at less than 100 kV) to help improve electric reliability of the Quarry-Seidersville #1 & #2 138/69 kV Transmission Line and Homer Tap, and to help resolve concerns for customers served by these facilities.

14. The proposed Project is part of PPL Electric's Asset Optimization Strategy to address and modernize deteriorated existing facilities across PPL Electric's transmission system.

A significant portion of PPL Electric's system infrastructure is either approaching the end of or has exceeded its expected or useful life. The Asset Optimization Strategy was developed to systematically identify and modernize these deteriorated facilities. The criteria used to identify and prioritize the equipment and lines that qualify for this work include, but are not limited to: age, condition, operational issues, maintainability of the equipment, criticality of the equipment or line, line loading, and circuit performance. Once equipment has been identified and assessed under the above criteria, it will be put into the Capital Budget for modernization under the Asset Optimization Strategy.

15. With the exception of the initial 0.9 miles extending from the Quarry 230-69 kV Substation, the Quarry-Seidersville 138/69 kV Transmission Line is installed on short wood pole, steel lattice, and H-frame pole structures. Similarly, the Homer Tap which serves the Lehigh University-owned Homer Research Substation is installed on short H-frame wood pole structures. These aging transmission lines do not meet current design, height, or lightning protection standards.

16. Customers served from the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap have experienced significant and extended outages during major storm events, such as Super Storm Sandy in 2012 and the Halloween Snow Storm in 2011. These outages were mainly attributable to the failure of the outdated tower structures that were damaged during the storms.

17. These repeated and extended outages have not only interrupted area residential customers, but also have interrupted the operations of Lehigh University and St. Luke's Hospital, two critical customers that are served from the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap.

18. Based on the age of the Quarry-Seidersville 138/69 kV Transmission Line, PPL Electric hired an outside engineering consultant, DiGioia Gray and Associates (DGA) to perform an independent field investigation and assessment of the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap components. This assessment found significant deterioration of the structural components, foundations, insulators, line hardware, shield wire, grounding, signage, paint and galvanizing, as well as outdated structure design.

19. Based on their study, DGA concluded that the conductors, majority of the hardware, and tower structures are nearing the end of their effective life and should be replaced. DGA recommended that the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap be rebuilt and upgraded to meet current engineering standards.

20. The Necessity Statement for the Quarry-Seidersville Project is provided in Attachment 1 to this Letter of Notification.

## **B. THE PROPOSED PROJECT**

21. To resolve the issues described above, PPL Electric proposes to reconstruct the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap to meet the current design, height, and lightning protection standards. The proposed reconstruction is consistent with PPL Electric's Asset Optimization Strategy and the independent recommendation of DGA.

22. Because the first approximately 0.9 miles of the existing Quarry-Seidersville 138/69 kV Transmission Line was constructed in the 1990's using modern steel monopole design and heights, PPL Electric proposes to reconductor this portion of the Transmission Line with new high capacity conductors, and to add protective lightning arrestors and an optical ground wire

23. The remaining 3.2 miles of the Quarry-Seidersville 138/69 kV Transmission Line and 0.2 miles of the Homer Tap will be reconstructed with new steel monopoles, high capacity conductors, lightning arrestors and an optical ground wire.

24. The existing transmission structures, which include a combination of wood pole, steel lattice, and H-frame pole structures, will be replaced pole-for-pole with double-circuit, weathering steel monopoles equipped with upswept weathering steel arms and glass 138 kV insulator assemblies. All new poles for this segment of the project will be self-supported, either direct embedded or on concrete caisson foundations.

25. The new poles for the Quarry-Seidersville 138/69 kV Transmission Line will have an average height of 100 feet, and the new poles for the Homer Tap will have an average height of 115 feet.

26. The reconducted and reconstructed double-circuit Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap will utilize six power conductors and two overhead ground wires. The power conductors will be six 556.5 kcmil,<sup>1</sup> 24/7 stranding, ACSR<sup>2</sup> conductors. The overhead ground wires will be two 0.567-inch diameter Optical Ground Wires.

27. The new lines will be constructed for future double-circuit 138 kV operation but will initially operate it as a double-circuit 69 kV line until the load growth in the area makes it appropriate to increase the operating voltage.

28. Following completion of the Project, the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap will meet all current PPL Electric and National Electrical Safety Code standards. Further, the use of steel monopoles, increased pole heights, optical overhead ground wires, and new lightning protection will help improve the reliability of the structures and the electric service received by the customers served from the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap.

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<sup>1</sup> Kcmil stands for thousand circular mills. Kcmil wire size is the equivalent cross sectional area in thousands of circular mils. A circular mil is the area of a circle with a diameter of one thousandth (.001) of an inch.

<sup>2</sup> ACSR stands for aluminum conductor steel reinforced.

29. The total estimated cost of the proposed Quarry-Seidersville Project is \$9.6 million, which includes temporary construction measures that will allow for the existing line to return to service if needed during construction.<sup>3</sup>

30. Upon Commission approval, the Quarry-Seidersville Project has a scheduled construction start date of Spring 2014 to meet an in-service date of November 2014.

31. The Engineering Description of the proposed Sunbury Project is provided in Attachment 2 accompanying this Letter of Notification.

### **III. HEALTH AND SAFETY**

32. The proposed Quarry-Seidersville Project will not create any unreasonable risk of danger to the public health or safety. The reconducted and reconstructed Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap will be designed, constructed, operated, and maintained in a manner that meets or surpasses all applicable NESC minimum standards and all applicable legal requirements. Descriptions of the NESC standards, PPL Electric's design criteria, and PPL Electric's safety practices are provided in Attachment 4 to this Letter of Notification.

33. Attachment 5 accompanying this Letter of Notification explains PPL Electric's standards for Magnetic Field Management. Consistent with its Magnetic Field Management Program, PPL Electric will construct the Quarry-Seidersville Project for ground clearances that are a minimum of five feet higher than the required NESC minimum ground clearance for 138/69 kV lines in order to reduce the magnetic field exposure. Further, the rebuilt Quarry-Seidersville

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<sup>3</sup> The estimated cost for the proposed Quarry-Seidersville 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.

#1 & #2 138/69 kV Transmission Line and Homer Tap will be constructed as a double circuit transmission lines and will utilize reverse phasing to help reduce magnetic field exposures.

34. No communication towers, pipelines, or other utilities will be affected by the proposed Quarry-Seidersville Project.

35. The closest airport is the Bethlehem Steel Plant Heliport, a privately owned facility, located approximately 0.33 mile west of the right-of-way for the Quarry-Seidersville 138/69 kV Transmission Line. Impacts to this airport are not expected. Nevertheless, PPL Electric will file the appropriate notifications with the PennDOT Bureau of Aviation and the Federal Aviation Administration to confirm that the proposed new tower structures and conductors will not pose a hazard to flight operations at this airport.

#### **IV. RIGHT-OF-WAY STATUS**

36. The Quarry-Seidersville Project will be constructed entirely within PPL Electric's existing right-of-way or land owned by PPL Electric in fee. PPL Electric does not require any additional right-of-way for the construction of the Quarry-Seidersville Project.

37. The new poles for the reconstructed portions of the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap will be placed in close proximity to the existing poles. This will allow the new pole to be installed immediately before the old one is removed. No new poles will be placed on any property that currently does not have an existing pole.

38. An aerial plot plan is provided at the end of Attachment 2 to this Letter of Notification. The plot plan depicts the location of the existing transmission facilities that will be rebuilt by this Project.

39. The replacement of the existing lattice tower structures with new steel monopoles will result in a smaller tower footprint within the right-of-way.

40. The existing rights-of-way currently are scheduled for vegetation maintenance under PPL Electric's three-year cycle vegetation management plan. Importantly, these regularly scheduled vegetation clearing activities are being planned to coordinate with the construction of the proposed Quarry-Seidersville Project to minimize the disturbance to nearby landowners. Because the existing rights-of-way will be cleared of trees and other vegetation under PPL Electric's scheduled vegetation management plan, no additional tree clearing is required for the construction of the proposed Quarry-Seidersville Project.

## V. LAND USE AND ENVIRONMENTAL EVALUATION

41. As explained above, construction of the proposed Quarry-Seidersville Project will take place entirely within PPL Electric's existing right-of-way or land owned by PPL Electric in fee. It is anticipated that the proposed Quarry-Seidersville will have minimal incremental impacts on the area.

42. Impacts to land use are anticipated to be minimal because the Project will be constructed within the existing rights-of-way and no additional property will be required to complete the Project. PPL Electric will use previously established access roads for construction to further reduce interference with existing land uses.

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

44. The Quarry-Seidersville Project will not traverse or affect any unique geological, scenic, or natural areas.

45. The Quarry-Seidersville Project will not affect any recreational areas or natural landmarks.

46. The Project area was reviewed with the Pennsylvania Historical and Museum Commission (PHMC). In a response dated April 25, 2013, the PHMC indicated that Phase I

archeological surveys should be conducted if any ground-disturbing activities will occur through previously identified cultural resource sites crossed by the right-of-way or if ground-disturbing activities will occur adjacent to the Lehigh River or Saucon Creek. PPL Electric will continue to consult with the PHMC to avoid impacts to cultural resources. However, it is anticipated that the Quarry-Seidersville Project will have minimal impacts to cultural and archeological resources because the new tower structures will be placed in close proximity to the existing tower structures.

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

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

49. 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 records under the jurisdiction of the Department of Conservation and Natural Resources, the Pennsylvania Fish and Boat Commission, the Pennsylvania Game Commission (“PGC”), and the U.S. Fish and Wildlife Service has been completed. These agencies have reported that the Quarry-Seidersville Project will not impact any threatened and endangered species or special concern species and resources located within the Project area.

50. Because Northampton County is located within the range of the federally threatened bog turtle, PPL Electric retained a qualified bog turtle surveyor to conduct a Phase I

bog turtle survey for wetlands delineated within the Project boundaries. A Phase I survey report was submitted to the USFWS and a Phase II bog turtle survey was conducted for the single potential bog turtle wetland. No bog turtles or evidence of bog turtles were observed during the Phase II survey. Therefore, the Quarry-Seidersville will have no negative impact on any threatened or endangered species.

## **VI. NOTICE**

51. PPL Electric has provided information regarding the Quarry-Seidersville Project to representatives of the City of Bethlehem, Freemansburg Borough, Lower Saucon Township, and Northampton County. These entities have not objected to the proposed Project.

52. 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).

53. 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).

## **VII. LETTER OF NOTIFICATION**

54. 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)(v).

55. The proposed Quarry-Seidersville Project qualifies for use of a Letter of Notification because the reconductored and rebuilt lines will be located entirely within PPL Electric's existing rights-of-way or on property owned in fee by PPL Electric. Further, the proposed lines will not substantially alter the existing right-of-way. As explained above, the new

poles for the reconstructed portions of the Quarry-Seidersville 138/69 kV Transmission Line and Homer Tap will be placed in close proximity to the existing poles, and no new poles will be placed on any property that currently does not have an existing pole. In addition, the replacement of the existing lattice tower structures with new steel monopoles will result in smaller footprints within the right-of-way.

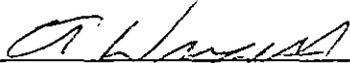
56. This Letter of Notification is filed on the date set forth below. As provided in 52 Pa. Code § 57.72(d)(5), the Commission will review and, by order, approve or disapprove this Letter of Notification. If the Commission approves this Letter of Notification, the proposed Quarry-Seidersville Project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

**VIII. CONCLUSION**

WHEREFORE, PPL Electric Utilities Corporation respectfully requests that the Pennsylvania Public Utility Commission approve the proposed reconductoring and reconstruction of the existing Quarry-Scidersville #1 & #2 138/69 kV Transmission Line and Homer Research 69 kV Tap in the City of Bethlehem, Freemansburg Borough, Lower Saucon Township, Northampton County, Pennsylvania, that is explained above and in the Attachments hereto.

Respectfully submitted,

Paul E. Russell (ID # 21643)  
Associate General Counsel  
PPL Services Corporation  
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Allentown, PA 18106  
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Of Counsel:

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Date: September 24, 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: 9/19/13

  
Matthew Green

**RECEIVED**  
2013 SEP 24 AM 10:38  
PPL  
SECRETARY'S OFFICE

**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**

Pennsylvania Historical and  
Museum Commission  
Bureau for Historic Preservation  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120-0053  
Attn: Mr. Douglas C. McLearen, Chief

Pennsylvania Department of Transportation  
Honorable Barry Schoch, P.E., Secretary  
C/O Office of Chief Counsel  
Commonwealth Keystone Building  
400 North Street, 9<sup>th</sup> Floor  
Harrisburg, PA 17120  
Attn: William J. Cressler

Department of Environmental Protection  
P.O. Box 2063  
Market Street State Office Building  
Harrisburg, PA 17105-2063  
Attn: Office of Field Operations

Lehigh Valley Planning Commission  
961 Marcon Boulevard – Suite 310  
Allentown, PA 18109  
Attn: Matthew Glennon, Chair

Northampton County Council  
Northampton County Courthouse  
669 Washington Street  
Easton, PA 18042  
Attn: John Cusick, President

Lower Saucon Township  
3700 Old Philadelphia Pike  
Bethlehem, PA 18015  
Attn: Jack Cahalan, Township Manager

Lower Saucon Township  
Planning Commission  
3700 Old Philadelphia Pike  
Bethlehem, PA 18015  
Attn: John Landis, Chariman

City of Bethlehem Planning Commission  
10 East Church Street  
Bethlehem, PA 18018  
Attn: Jame Fiorentino, Chairman

City of Bethlehem  
10 East Church Street  
Bethlehem, PA 18018  
Attn: John B. Callahan, Mayor

Freemansburg Borough  
Planning Commission  
600 Monroe Street  
Freemansburg, PA 18107  
Attn: Kenneth Rogers, Chairman

Freemansburg Borough  
600 Monroe Street  
Freemansburg, PA 18107  
Attn: Gerald C. Yob, Mayor

Office of Consumer Advocate  
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SECRETARY'S OFFICE

Bureau of Investigation & Enforcement  
PO Box 3265  
Commonwealth Keystone Building  
400 North Street, 2nd Floor West  
Harrisburg, PA 17105-3265

PPL Electric Utilities  
PPL – Real Estate Taxes (GENTW2)  
2 North Ninth Street  
Allentown, PA 18101

Hogar Crea International Inc.  
1920 E Market Street  
Freemansburg, PA 18017

Pennsylvania Lines LLC  
C/O Norfolk Southern Railway Com  
110 Franklin Road SE  
Roanoke, VA 24042

Freemansburg Borough  
600 Monroe St  
Freemansburg, PA 18017

Gas Liquid Carbonic Specialty  
C/O Praxair, Inc. Property Tax K2  
39 Old Ridgebury Road  
Danbury, CT 06810

Lehigh Valley Rail Management LLC  
1170 8th Avenue  
Bethlehem, PA 18018

Brandenburg Bethlehem LLC  
501 W Lake Street, Suite 104  
Elmhurst, IL 60126

Triple Net Investments XXVII LP  
171 Route 173, Suite 201  
Asbury, NJ 08802

Lehigh Valley Industrial Park, Inc.  
1720 Spillman Drive, Suite 150  
Bethlehem, PA 18015

Lehigh Valley Rail Management, LLC.  
313 E. Broad Street  
Bethlehem, PA 18018

Bethlehem City  
10 E. Church Street  
Bethlehem, PA 18018

Bethlehem Housing Authority  
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Jonathan R & Charlotte Hill  
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Hellertown, PA 18055

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Bethlehem, PA 18015

Michael J. & Patricia P. Zuber  
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Bethlehem, PA 18015

Jeffrey F. & Lynn B. Kasper  
1619 Woodfield Drive  
Bethlehem, PA 18015

Michele M. Kunkel & Michael S. Delorenzo  
2134 Fieldstone Drive  
Bethlehem, PA 18015

Rene J. & Mary Ann Fischer  
1615 Woodfield Drive  
Bethlehem, PA 18015

Kerry Kulp & Courtney Christensen  
2130 Fieldstone Drive  
Bethlehem, PA 18015

Eric & Jennifer Adams  
1611 Woodfield Drive  
Bethlehem, PA 18015

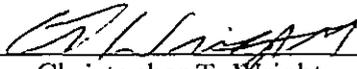
Daniel E. & Susan E. Reed  
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Bethlehem, PA 18015

Lauren L. Schellinkhout & Michael J. Baran  
1607 Woodfield Drive  
Bethlehem, PA 18015

Jean M. Mateff  
2122 Fieldstone Drive  
Bethlehem, PA 18015

Mark & Tammy Ferguson  
1603 Woodfield Drive  
Bethlehem, PA 18015

Date: September 24, 2013

  
\_\_\_\_\_  
Christopher T. Wright