



**Duquesne Light**

*Our Energy...Your Power*

Legal Department  
411 Seventh Avenue, 16-1  
Pittsburgh, PA 15219

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Fax 412-393-1418  
kkubiak@duqlight.com

**Krycia Kubiak**  
Assistant General Counsel

October 26, 2011

*Certificate of Mailing*

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P.O. Box 3265  
Harrisburg, PA 17105-3265

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2011 OCT 28 AM 10:38  
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SECRETARY'S BUREAU

In re: Letter of Notification of Duquesne Light Company for  
Reconductoring Both Circuits and Increasing the Voltage on One  
Circuit of a 0.47 Mile Long Transmission Line in the City of  
Pittsburgh, Allegheny County, PA

Dear Secretary Chiavetta:

Enclosed for filing are an original and six copies of Letter of  
Notification of Duquesne Light Company for Reconductoring Both Circuits  
and Increasing the Voltage on One Circuit of a 0.47 Mile Long Transmission  
Line in the City of Pittsburgh, Allegheny County, PA. Copies are being  
served in accordance with Commission Regulation 57.74(b).

Sincerely,

Krycia Kubiak  
Assistant General Counsel  
Duquesne Light Company

encs

cc: Robert F. Wilson, Director, Bureau of Fixed Utility Services (w/enclosure)  
All listed on Certificate of Service (w/enclosure)

Before the  
PENNSYLVANIA PUBLIC UTILITY COMMISSION

In re: Letter of Notification of Duquesne Light :  
Company for Reconductoring Both Circuits and : Docket No.  
Increasing the Voltage on One Circuit of a 0.47 Mile : Folder \_\_\_\_\_  
Long Transmission Line in the City of Pittsburgh, :  
Allegheny County, PA :

**LETTER OF NOTIFICATION  
OF DUQUESNE LIGHT COMPANY**

TO THE HONORABLE COMMISSION:

AND NOW comes Duquesne Light Company ("Duquesne Light") and, pursuant to Commission Regulation 57.72(d)(1)(iv) and (v), 52 Pa. Code § 57.72(d)(1)(iv) and (v), files the within Letter of Notification of which the following is a statement:

**INTRODUCTION**

1. The name and address of the Applicant is:

Duquesne Light Company  
411 Seventh Avenue  
Pittsburgh, PA 15219

2. Duquesne Light is a duly incorporated Pennsylvania public utility engaged in the distribution of electric service to the public, primarily within Allegheny and Beaver Counties, Pennsylvania, in an area of approximately 800 square miles having a combined population based on the 2010 census of approximately 1,393,887.

3. The name and address of Duquesne Light's attorney is:

Krysia M. Kubiak  
Assistant General Counsel  
Duquesne Light Company, 16-1  
411 Seventh Avenue  
Pittsburgh, PA 15219

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## DESCRIPTION OF THE PROPOSED LINE

4. Duquesne Light proposes to reconductor both circuits of an existing 0.47 mile double circuit transmission line ("the Line") and to increase the voltage of one circuit of the Line from 69 kilovolts ("kV") to 138kV. The Line connects the Duquesne Light Carson Substation to its Southside Substation. One circuit of the Line is currently identified as Carson-Southside 66128 and operates at 69kV. Duquesne Light proposes to increase the voltage on the Carson-Southside 66128 circuit to 138kV. This circuit will then be identified as Carson-Oakland Z-47. Work will be performed at both the Carson and Southside Substations to accommodate this change. The second circuit of the Line is currently identified as Carson-Oakland Z-86 and operates at 138kV. Subsequent to the reconductoring, this circuit will continue to operate at the 138kV level and will be identified as Carson-Forbes Z-86. A topographic map of the area showing the location of the Line is attached hereto and incorporated herein as Exhibit 1.

5. The existing Line consists of two double circuit lattice steel towers that were designed and constructed for 138kV operation in 1952. Initially both circuits operated at the 69kV voltage level. In the late 1960s, the voltage on one of the circuits was increased to the 138kV level and has continued to operate at that level since that time. The second circuit has continued to operate at the 69kV voltage level since the original construction in 1952. No new structures will be required for this Line outside of the Carson and Southside Substations. The existing right-of-way presently occupied by the Line contains only the conductors of the 69kV circuit 66128 and the 138kV circuit Z-86. The Line consists of two structures which are both on Duquesne Light property. The Line begins at the Duquesne Light Carson Substation, crosses the Conrail Railroad and continues to the Duquesne Light Southside Substation all within the City of Pittsburgh.

6. The existing Line consists of two (2) self-supporting double circuit lattice steel towers. One tower, identified as 3645, is located at Carson Substation

and the second tower, identified as 3646, is located at Southside Substation. The heights of these towers are 237 feet and 222 feet respectively. The proposed span length of 1,962 feet between these towers is the same as that of the existing transmission line. Each circuit of the Line will operate as a three-phase alternating current transmission line and will consist of three (3) phase conductors and one shield wire. Each phase conductor will be high strength 795 kcmil 20/7 Trapezoidal Aluminum Conductor Steel Supported ("ACSS/TW-HS") conductor and the shield wire will be a 7#8 alumoweld equivalent 12 fiber optical ground wire conductor. A cross-sectional diagram showing the typical arrangement of the towers is attached hereto and incorporated herein as Exhibit 2.

7. Each circuit of the Line is approximately 2,500 feet long and will consist of approximately 7,500 feet of new conductor from the termination structure in Carson Substation to the termination structure in Southside Substation.

#### **GENERAL DESCRIPTION OF THE ROUTE OF THE LINE**

8. The Line leaves the Duquesne Light Carson Substation and proceeds in a north-northwesterly direction approximately 0.47 miles to the Southside Substation. The entire length of the Line is within the City of Pittsburgh. Approximately 1,160 feet of the line is located on private property where Duquesne Light has existing licenses. Approximately 622 feet of the line is located on Duquesne Light property, 196 feet is located on public right-of-way and 505 feet is on property owned by the railroad, to which Duquesne Light has a permit.

#### **BACKGROUND**

9. Duquesne Light performs annual assessments of its transmission system in order to provide continued reliable service. Duquesne Light identified aging infrastructure components at its Forbes Substation, a land-locked urban substation providing supply to Pittsburgh's Golden Triangle, which was expected to reach "end of life" by 2015. In addition, Duquesne Light and its Regional Transmission Organization, PJM Interconnection, L.L.C. ("PJM") identified "N-2" overloads on its

existing Carson-Oakland Z-86 circuit in 2012. Plans to address transmission reliability issues in the downtown Pittsburgh area have been approved through PJM's Regional Transmission Expansion Plan as PJM "Baseline" transmission projects.

#### **STATEMENT OF NEED**

10. In order to address these reliability concerns, Duquesne Light is converting Forbes Substation to 138kV supply. Underground circuits, which were developed using primarily existing 69kV infrastructure, will now be 138kV underground circuits and named Brunot Island-Forbes, Forbes-Oakland, and Carson-Forbes. Upgrades at Duquesne Light's Forbes Substation converting the aging 69kV infrastructure to 138kV supply are near completion. With this conversion, the 69kV voltage level will no longer be supported in the area. Upgrading circuit 66128 will maximize the use of existing facilities while maintaining an adequate number of transmission sources to Forbes and Carson Substations.

11. Furthermore, the replacement of the conductor along the Carson-Oakland Z-86 circuit will mitigate identified "N-2" overloads. Replacing the cable in the existing Z-86 conduits will again maximize the use of existing facilities while providing the necessary additional capacity to prevent the projected overloads on this important source to Oakland's Substation, which serves universities and hospitals in the Pittsburgh area.

#### **SAFETY CONSIDERATIONS**

12. The safety standards contained in the 2007 Edition of the National Electrical Safety Code ("NESC") relating to overhead electric supply lines will be incorporated into the design and construction of the Line. The operation and maintenance procedures for the Line will conform to Duquesne Light's transmission and distribution construction standards and Duquesne Light's procedures for line clearance and vegetation management on rights-of-way. These standards meet or exceed all relevant NESC standards and all standards of the Federal Occupational

Safety and Health Administration and will also be utilized in the operation and maintenance of the proposed Line.

#### **CONSTRUCTION COMMENCEMENT AND IN-SERVICE DATES**

13. Construction of the Line is expected to commence in February of 2012 and the proposed in-service date for the operation of the Line is March 2012.

#### **PROJECTED COST**

14. The projected cost of this project is \$850,000.

#### **SERVICE OF LETTER OF NOTIFICATION**

15. Copies of this Letter of Notification have been sent to all interested parties by certified mail, return receipt requested, as required by Commission Regulations 57.72(d)(3) and 57.74, 52 Pa. Code §§ 57.72(d)(3) and 57.74. An affidavit of service as required by Commission Regulations 57.74(a) is also attached.

#### **LETTER OF NOTIFICATION IN LIEU OF FULL SITING APPLICATION**

16. Commission Regulations 57.72(d)(1)(iv) and (v), 52 Pa. Code §57.72(d)(1)(iv) and (v), provide:

A letter of notification may be filed with the Commission in lieu of the application process set forth in § 57.72-57.76 for the following:

...

(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 HV line does not substantially alter the right-of-way.

...

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

...

17. Both circuits of the Line presently occupying the right-of-way have existed and operated in their present location since 1952. The 69kV circuit has operated at its present voltage level in this location since 1952. The other circuit of the Line initially operated at the 69kV level from 1952 until the late 1960s at which time the voltage level was increased to 138kV and has continued to operate at that level until the present. The lattice steel towers have been in place since 1952. The two (2) existing lattice steel tower structures are 237 and 222 feet in height and

occupy a maximum right-of way width of approximately 49 feet at the conductor attachment level on the crossarm. A cross-sectional diagram showing the typical arrangement of the existing towers is provided as Exhibit 2.

18. The size, character, design and configuration of the proposed Line will not substantially alter the existing right-of-way. Since the existing structures and circuits were designed to operate at the 138kV voltage level, the existing structures will be utilized and no new structures will be required for the proposed reconductoring and voltage upgrade of the Line. The replacement conductors and shield wire will essentially be the same sizes and will be located in the same positions as the existing conductors have been since construction of the original line in 1952.

#### **RELIEF REQUESTED**

WHEREFORE, in consideration of the foregoing, it is requested that the Pennsylvania Public Utility Commission grant Duquesne Light Company approval to proceed with the installation of the proposed Line as described in this Letter of Notification.

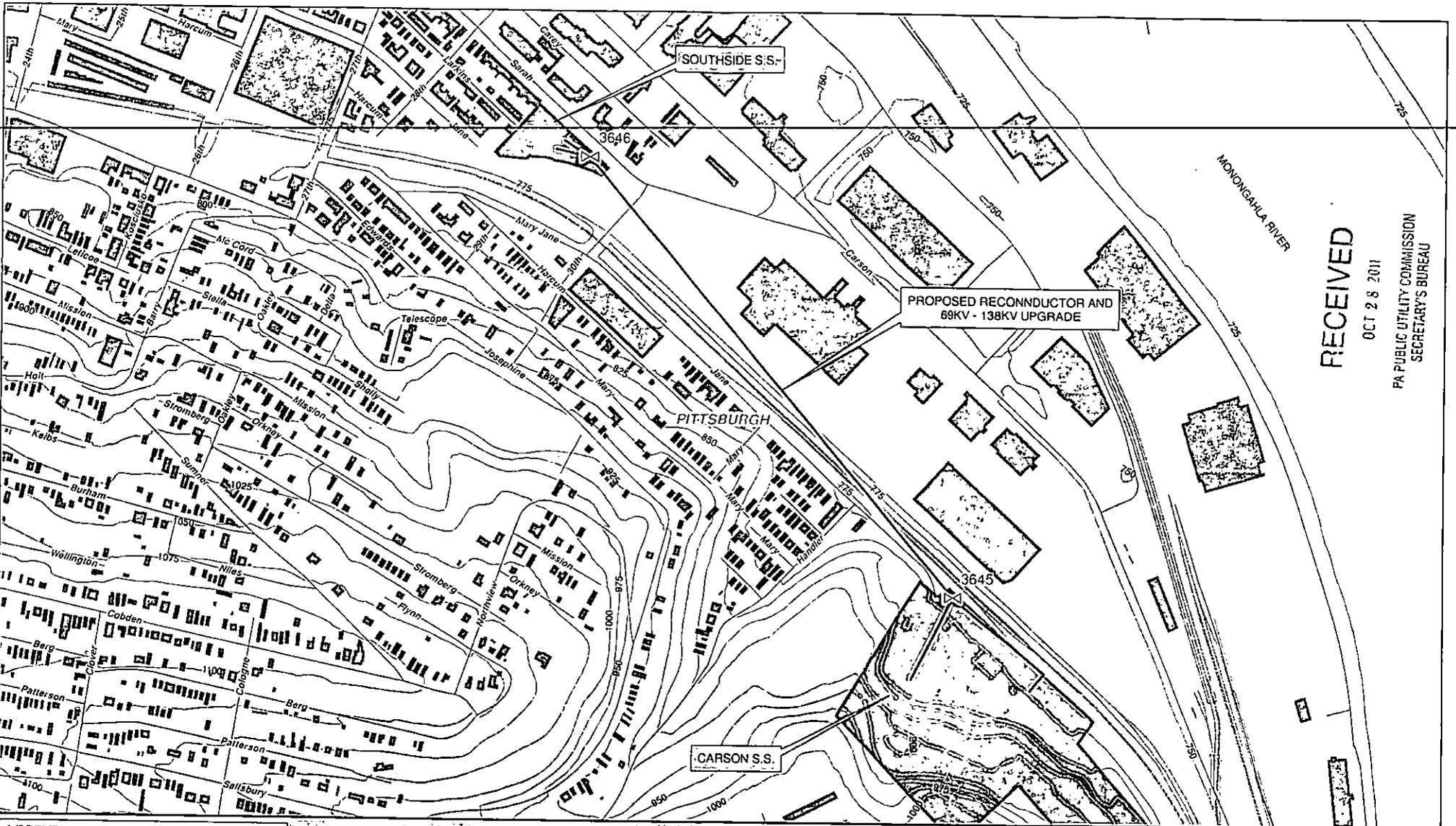
Respectfully submitted,  
DUQUESNE LIGHT COMPANY  
By Counsel:



Krysia M. Kubiak  
Attorney for Duquesne Light Company  
Pa. I.D. #90619

Duquesne Light Company  
411 Seventh Avenue, 16-1  
Pittsburgh, PA 15219

Telephone: (412) 393-6505  
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PROPOSED RECONDUCTOR AND  
69KV - 138KV UPGRADE

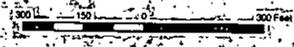
SOUTHSIDE S.S.

CARSON S.S.

PITTSBURGH

**LEGEND**

Structure Type	BUILDINGS
Towers	SUBSTATION PROPERTY
CKTS	MUNICIPALITIES
RAILROADS	RIVERS
25ft CONTOURS	

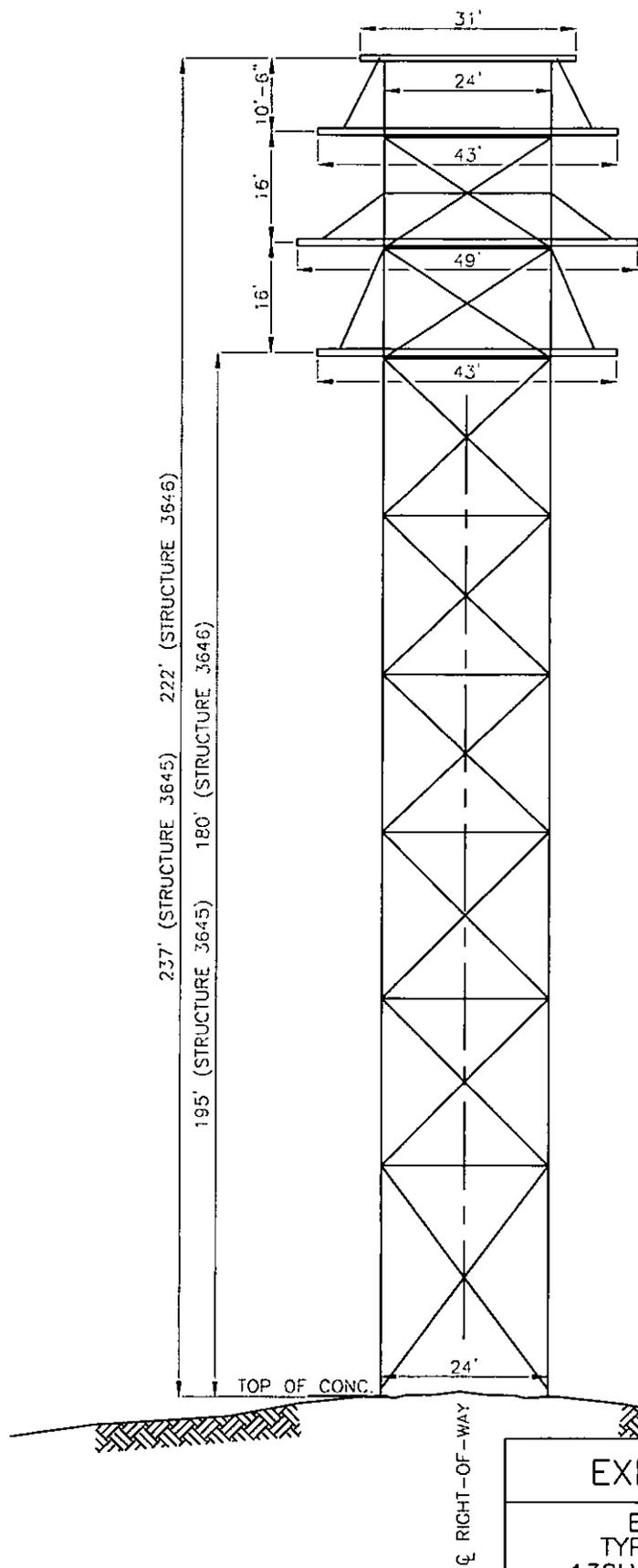


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Map Prepared by Don Jordan  
Engineering Dept. 1988 Edition  
October 11, 2011  
Revised by J. S. Phoenix

EXHIBIT  
Proposed Carson - Southside  
CKTS Z-86/Z-47  
TOPOGRAPHIC MAP  
PITTSBURGH EAST, PA



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EXHIBIT 2



EXISTING/PROPOSED  
TYPICAL CROSS SECTION  
138KV LATTICE STEEL TOWER

DUQUESNE LIGHT COMPANY  
ALLEGHENY COUNTY, PA



Before the  
PENNSYLVANIA PUBLIC UTILITY COMMISSION

In re: Letter of Notification of Duquesne Light :  
Company for Reconductoring Both Circuits and : Docket No.  
Increasing the Voltage on One Circuit of a 0.47 Mile : Folder \_\_\_\_\_  
Long Transmission Line in the City of Pittsburgh :  
Allegheny County, PA :

**CERTIFICATE OF SERVICE**

I hereby certify that I have this day served a true copy of the Letter of Notification and Exhibits upon the participants listed below in accordance with the requirements of 52 PA. Code §§57.72(d)(3) and 57.74(b) (relating to service of copies):

Conrail  
100 Franklin Rd. SE  
Roanoke, VA 24042

Frank B. Fuhrer Holdings, Inc.  
3100 E. Carson Street  
Pittsburgh, PA 15203

Presbyterian University Hospital  
230 Lothrop Street  
Pittsburgh, PA 15213

Luke Ravenstahl  
Mayor  
Room 512  
City-County Building  
414 Grant Street  
Pittsburgh, PA 15219

Darlene Harris  
Council President  
510 City-County Building  
414 Grant Street  
Pittsburgh, PA 15219

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Noor Ismail  
Planning Director  
200 Ross Street  
Fourth Floor  
Pittsburgh, PA 15219

Dan Onorato  
Allegheny County Chief Executive  
101 County Courthouse  
436 Grant Street  
Pittsburgh, PA 15219

Allegheny County Council  
119 County Courthouse  
436 Grant Street  
Pittsburgh, PA 15219

Tom L. Palmosina  
Acting Executive Director  
The Pittsburgh Water & Sewer Authority  
Penn Liberty Plaza I  
1200 Penn Avenue  
Pittsburgh, PA 15222

Stephen T. Simcic  
Acting Executive Director  
The Pittsburgh Water & Sewer Authority  
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Harry Readshaw  
Chairman  
Alcosan  
3300 Preble Avenue  
Pittsburgh, PA 15233

Carol Fox  
President  
Columbia Gas of Pennsylvania  
121 Champion Way  
Suite 100  
Canonsburg, PA 15317

Morgan O'Brien  
President & CEO  
Peoples Natural Gas  
325 North Shore Drive  
Pittsburgh, PA 15212

David L. Porges  
President, Chairman and CEO  
EQT  
EQT Plaza  
625 Liberty Avenue  
Suite 1700  
Pittsburgh, PA 15222

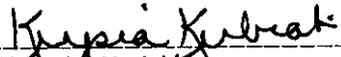
Lowell C. McAdam  
President & CEO  
Verizon Communications, Inc.  
1095 Avenue of the Americas  
New York, NY 10036

Department of Environmental Protection  
Policy Office  
P.O. Box 2063, 15<sup>th</sup> Floor  
RCSOB  
Harrisburg, PA 17105-2063

Barry J. Schoch, P.E.  
Secretary of Transportation  
Pennsylvania Department of Transportation  
Keystone Building, 8<sup>th</sup> Floor  
400 North Street  
Harrisburg, PA 17120-0095

Andrew E. Masich  
Chairman of the Historical & Museum Commission  
State Museum Building  
300 North Street  
Harrisburg, PA 17120

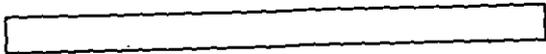
Dated this 26th day of October 2011.

  
\_\_\_\_\_  
Krystia Kubiak  
Pa. I.D. #  
Duquesne Light Company  
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Mail Drop 16-1  
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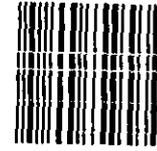


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411 Seventh Avenue, 16-1  
Pittsburgh, PA 15219

Return Service Requested

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P.O. Box 3265  
Harrisburg, PA 17105-3265

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