

Morgan Lewis

Kenneth M. Kulak

Partner

+1.215.963.5384

ken.kulak@morganlewis.com

September 9, 2025

VIA ELECTRONIC FILING

Matthew Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor North
Harrisburg, PA 17120

**Re: Letter of Notification of PECO Energy Company Filed Pursuant to 52 Pa. Code §§ 57.71 *et seq.* for Approval of the Siting and Construction of the 220-80 Line and 220-101 Line Located in Norristown, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania
Docket No. A-2025-_____**

Dear Secretary Homsher:

Enclosed for filing on behalf of PECO Energy Company is a Letter of Notification Filed Pursuant to 52 Pa. Code Chapter 57, Subchapter G, for approval to construct two transmission lines and related structures related to the 220-80 Line and 220-101 Line within Norristown, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania to connect to the new Forge Springs Substation. This Letter of Notification is filed pursuant to the Pennsylvania Public Utility Commission's regulations at 52 Pa. Code § 57.72(d)(1).

PECO respectfully requests review and approval by the Pennsylvania Public Utility Commission of the Letter of Notification on or before the March 12, 2026 Public Meeting in order to allow construction to commence in the second quarter of 2026.

Copies of the Letter of Notification and accompanying attachments are being served upon the persons as required by 52 Pa. Code § 57.74 and indicated on the enclosed Certificate of Service.

PECO has paid the associated \$350.00 filing fee.

Morgan, Lewis & Bockius LLP

2222 Market Street
Philadelphia, PA 19103
United States

T +1.215.963.5000
F +1.215.963.5001

Matthew Homsher
September 9, 2025
Page 2

If you have any questions pertaining to this matter, please do not hesitate to contact me.

Respectfully submitted,



Kenneth M. Kulak
Morgan Lewis & Bockius LLP
2222 Market Street
Philadelphia, PA 19103-2921
(215) 963-5384
ken.kulak@morganlewis.com

Counsel for PECO Energy Company

Enclosure

cc: Certificate of Service

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Letter of Notification of PECO Energy :
Company Filed Pursuant to 52 Pa. Code §§ :
57.71 *et seq.* for Approval of the Siting and : Docket No. A-2025-_____
Construction of the 220-80 Line and 220-101 :
Line Located in Norristown, West Norriton :
Township, and Upper Merion Township, :
Montgomery County, Pennsylvania :**

**LETTER OF NOTIFICATION OF
PECO ENERGY COMPANY**

TO THE PENNSYLVANIA PUBLIC UTILITY COMMISSION:

PECO Energy Company (“PECO” or the “Company”) hereby files this Letter of Notification, pursuant to 52 Pa. Code § 57.72(d), requesting approval by the Pennsylvania Public Utility Commission (the “Commission”) to construct two transmission lines and related structures for the 220-80 Line and 220-101 Line (hereinafter, the “Project”) within Norristown Borough, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania, to interconnect to the new Forge Springs Substation that will replace the existing Barbadoes Substation. The Barbadoes Substation is in an area prone to flooding and partially at end of life. PECO respectfully requests review and approval of the Letter of Notification by the Commission on or before the March 12, 2026 Public Meeting in order to allow construction to commence in the second quarter of 2026.

In support of the approval requested herein, PECO states as follows:

I. INTRODUCTION AND OVERVIEW

1. This Letter of Notification is filed by PECO, a “public utility,” as defined in 66 Pa. C.S. § 102, that provides electric distribution, transmission, and default service in Pennsylvania, subject to the regulatory jurisdiction of the Commission.

2. PECO’s address is as follows:

PECO Energy Company
2301 Market Street
Philadelphia, PA 19103

3. The names and addresses of PECO’s attorneys in this matter who are authorized to receive notices and communications on their clients’ behalf are:

Anthony E. Gay
PECO Energy Company
Vice President & General Counsel
2301 Market Street
Philadelphia, PA 19103
(267) 533-1964
anthony.gay@exeloncorp.com

Kenneth M. Kulak
Morgan, Lewis & Bockius LLP
2222 Market Street
Philadelphia, PA 19103-2921
(215) 963-5384
ken.kulak@morganlewis.com

4. PECO furnishes electric service to approximately 1.7 million electric customers and also serves over 553,000 natural gas customers throughout its certificated service territory, which encompasses approximately 2,100 square miles in Pennsylvania. PECO owns approximately 1,050 miles of transmission lines, approximately 13,000 miles of aerial distribution facilities, and approximately 9,000 miles of underground distribution facilities. In addition, PECO owns approximately 13,800 miles of natural gas mains and services.

5. The proposed Project is necessary to support the reliability of PECO's transmission system by facilitating PECO's relocation of the existing Barbadoes Substation from an area prone to flooding to a new location south of the Schuylkill River, as well as replace facilities of the existing substation that are at end of life. The transmission facilities to be constructed are necessary to connect the existing 230 kV 220-80 Line to the new Forge Springs Substation and to provide power from the new Forge Springs Substation to the existing Barbadoes Substation through a new 230 kV 220-101 Line, as explained below.

6. The estimated cost to design and construct the Project is \$95.6 million, of which approximately \$24.8 million will be for transmission work and approximately \$70.77 million will be for distribution work. Approximately \$34.5 million of that cost is attributed to materials (new conductor/hardware, optical ground wire, structures, foundations, substation equipment). The remaining costs are attributable to direct labor—primary engineering and design, clearance reviews, and electrical/civil construction—and allocated to PECO overhead and management costs. PECO will own, finance, and build the proposed Project. \$33 million of the project costs are included for reimbursement in PECO's federal Infrastructure and Investment Jobs Act grant contract with the United States Department of Energy utilizing funding from the Infrastructure Investment and Jobs Act. The Department of Energy has partially reimbursed PECO on a monthly basis totaling \$116,713, with the last reimbursement received on May 30, 2025.

7. The Project has a scheduled construction start date of the second quarter of 2026 for the substation and the first quarter of 2027 for the transmission facilities, to meet an in-service date of the fourth quarter of 2029. The Project requires a transmission outage. PECO has not formally requested to take an outage but anticipates taking an outage for the reconductoring work in the Spring of 2029.

8. Accompanying this Letter of Notification are the following Attachments that provide additional detailed information regarding the Project:

- Attachment 1 – Plan & Profile Drawings C-PP-220-80-A2
- Attachment 2 – Plan & Profile Drawings C-PP-220-101-A2
- Attachment 3 – Letter of Notification Filing Checklist

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

II. THE PROJECT

A. Need for the Project

10. The existing Barbadoes Substation is on an island in the Schuylkill River, and the area has become prone to flooding. For example, in 2021 during Hurricane Ida, the island the Barbadoes Substation is located on became flooded. To build resiliency against flood events like Hurricane Ida, PECO proposes to relocate the substation off the island and south of the river. This new relocated substation will be the Forge Springs Substation.

11. In addition to avoiding potential flooding, PECO also proposes to replace the Barbadoes Substation due to the age of the facilities. The 34 kV component of the substation was constructed in 1926 and is at end of life. Further, while not at end of life, the Barbadoes Substation's 230 kV component was constructed in 1986, and reliability would also be enhanced by replacing these facilities with modern equipment.

12. This Letter of Notification is for the first phase of the Forge Springs Substation replacement of the Barbadoes Substation. During this first phase, the Barbadoes Substation will remain active to provide 34 kV distribution service. In order to maintain this service, PECO proposes constructing a 230 kV 220-101 Line from the new Forge Springs Substation to Barbadoes

Substation, as well as extending the 220-80 Line from Barbadoes Island to the Forge Springs Substation. This arrangement will provide power until a second phase when the Forge Springs Substation will replace the Barbadoes Substation's distribution service. PECO will seek any required approvals for transmission lines and structures in the second phase in a separate filing.

13. The Project's proposed transmission lines will serve the current and future distribution load, including a new 230-13 kV substation to provide capacity to allow the load supplied by aging 34 kV to 4 kV substations to be converted to 13 kV and allow the aging substations to be retired.

14. The Project is also necessary to increase PECO's 13 kV capacity in the service area, as nearby 13 kV loads have reached maximum capacity. The Project will provide load relief to the 13 kV Flint Substation in neighboring Bridgeport, Pennsylvania, from new 13 kV circuits established at the Forge Springs Substation. In addition, the Project will support the retirement of the Bridgeport-003 4 kV Unit Substation, and the substantial new 13 kV capacity resulting from the Project will enable PECO to retire other 4 kV substation units in the future as customer load is converted to the new Forge Springs Substation 13 kV circuits.

15. The Project will also support the overall reliability of PECO's transmission system.

B. Description of the Proposed Project

16. The Project involves constructing a new Forge Springs Substation south of the Schuylkill River, including constructing a new substation equipment enclosure¹ and installing the following: a new rigid bus, 16 outdoor 230 kV circuit breakers, two outdoor 230-13 kV

¹ In a concurrently filed petition (the "Petition for Exemption"), PECO seeks Commission confirmation of an exemption from local zoning regulation and for the construction of the substation equipment enclosure that primarily houses controls and a small area for a lavatory within the Forge Springs Substation.

transformers, 36 disconnect switches, two capacitor banks, a 13 kV switchgear, 13 kV reactors, Coupling Capacitor Voltage Transformers, and lightning arrestors.

17. PECO also proposes to construct two new 230 kV transmission lines in Norristown, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania. PECO proposes to construct a new approximately 0.6 miles 230 kV 220-80 Line cutting into PECO's existing 220-80 Line and spanning the Schuylkill River to connect to the new Forge Springs Substation. This new line will be composed of three new steel monopole structures within an approximately 125-foot-wide right-of-way ending at a steel takeoff structure within the Forge Springs Substation. PECO also proposes to construct a new approximately 0.5 miles 220-101 Line from the new Forge Springs Substation to the existing Barbadoes Substation composed of three new steel monopole structures within an approximately 125-foot-wide right-of-way ending at a steel takeoff structure within the Barbadoes Substation. Both new lines will be constructed with double-bundled 1590 KCMIL 54/19 ACSR "Falcon" Aluminum Conductors, Steel Reinforced ("ACSR").²

18. The Project does not include the removal of existing transmission structures. PECO anticipates the service life of the new transmission structures to be approximately 60 years.

19. There is currently no pending litigation regarding the right-of-way or environmental matters related to the Project.

² Consistent with the statement issued on March 27, 2025, in Docket No. A-2024-3052612, PECO has considered alternative engineering solutions and advanced transmission technologies for the Project. PECO will use ACSR conductors to match the conductors of the existing 220-80 Line that PECO will cut into for this Project. In general, the capacity of a transmission line is limited by the lowest-rated conductor on the circuit; therefore, installing advanced conductors on only a portion of a transmission circuit (as here) would not increase the operational capability or reliability of the existing 220-80 Line. However, PECO notes that in the event the line is reconducted in the future, the new transmission structures proposed in this LON will be compatible with advanced conductors.

III. HEALTH AND SAFETY

20. The proposed Project will not create any unreasonable risk of danger to public health or safety. The proposed Project 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. The design, construction and operation of the Project will meet or exceed the requirements specified in the latest revisions of the NESC and all applicable safety standards established by the Occupational Safety and Health Administration (“OSHA”). All work shall be done in accordance with NESC, OSHA and any applicable local, state, or federal requirements.

21. PECO will construct the Project for ground clearances that meet or exceed requirements of its Engineering Practice EPP-2090 OHT Design Clearances. The clearance requirement in EPP-2090 exceeds the requirements of NESC 2023. With respect to vertical clearances, PECO designs its facilities to meet the NESC rules, plus three additional feet of vertical clearance. Similarly, PECO adds two additional feet of horizontal clearance beyond the NESC horizontal clearance rules.

IV. DESCRIPTION OF THE PROJECT AREA

22. As explained above, the Project will be located within the vicinity of the existing Barbadoes Substation, aerially crossing the Schuylkill River within Norristown, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania. Most construction for the Project will take place on land for which PECO has existing land rights. For the new 220-80 Line, PECO intends to acquire necessary land rights for approximately 600 feet of right-of-way from Norfolk Southern and land rights for approximately 600 feet of right-of-way from the impacted landowner for Barbadoes Island. *See* Attachment 1 for a map of the proposed Project. For the new 220-101 Line, PECO intends to acquire necessary land rights for approximately 500

feet of right-of-way from Norfolk Southern and land rights for approximately 500 feet of right-of-way from the impacted landowner for Barbadoes Island. *See* Attachment 1 for a map of the proposed Project. PECO anticipates that the Project will have a minimal incremental impact on land use in the Project area.

23. Vegetation management for the project area will consist of clearing and grubbing for construction and maintaining a 10-foot perimeter outside the Forge Spring Substation fence line free of all vegetation through periodic use of herbicide applications. The new transmission rights-of-way will require removal of trees and other incompatible vegetation. Once in service, PECO will maintain new rights-of-way using PECO's standard vegetation management practices.

24. The closest airport to the Project area is the Wings Field Airport, which is located approximately 6.5 miles from the existing Barbadoes Substation. PECO does not anticipate any interference with airport operations because of the distance from the Project area. PECO will file any required documentation with the Federal Aviation Administration and the Pennsylvania Department of Transportation, Bureau of Aviation. PECO will comply with any additional lighting and other visual aids that may be required by these agencies to ensure aviation safety in the region.

25. The Project will not traverse or affect any unique geological or scenic areas.

26. The Project will not affect any state lands, national parks, state parks, local parks, recreational areas, or natural landmarks.

27. The Project was assessed by Stantec Inc. in October 2024 for watercourses and wetlands. The Project will cross two streams, including the Schuylkill River, which will be crossed with aerial conductors. The Project's construction may impact three wetlands, but as set forth herein, any impacts will be mitigated to the fullest extent possible in strict accordance with state and federal environmental regulation per PECO's standard environmental mitigation practices. In

August 2025, PECO will apply for a Submerged Lands License Agreement and Joint Permit Application authorized by the Pennsylvania Department of Environmental Protection and the U.S. Army Corps of Engineers to permit the crossing of the Schuylkill River. Delineated waterways and wetlands will be avoided to the extent practical, and Pennsylvania Department of Environmental Protection Chapter 105 provisions will be met through waivers or an additional Joint Permit Application.

28. AECOM Technical Services, Inc. (“AECOM”) performed a geotechnical investigation for the Project. Erosion and sediment control devices and best management practices will be in place to minimize the potential for sedimentation to waters and wetlands through the implementation of best management practices during construction. PECO intends to submit an Erosion and Sediment Control Plan for review and approval by the Pennsylvania Department of Environmental Protection and Montgomery County Conservation District. Construction access routes will be installed in accordance with the Soil Erosion and Sedimentation Control Plan. In addition, Stantec Inc. performed a site investigation of the project area and identified the presence of lead in an above-ground stockpile in the vicinity of the new Forge Springs Substation. PECO will apply for an individual National Pollutant Discharge Elimination System (“NPDES”) permit in approximately August 2025 to remove the lead.

29. A Pennsylvania Natural Diversity Inventory was required as part of the NPDES permit application that identified potentially threatened or endangered species in the vicinity of the Project. The following potential or actual presence of species of concern were identified as potentially present in the project area: Pennsylvania Game Commission (“PAGC”) identified the potential presence of peregrine falcon; Pennsylvania Department of Conservation and Natural Resources (“PADCNR”) identified the potential presence of Southern Red Oak; and Pennsylvania

Fish and Boat Commission (“PAFBC”) identified the Northern Red-bellied Cooter. However, further review by PAGC and PADCNR determined that no adverse impacts are expected to the identified species. No species of concern were identified by the U.S. Fish and Wildlife Service. PAFBC requested a habitat assessment for the presence/absence of suitable habitat for the Northern Red-bellied Cooter. DuBois and Associates, LLC (“DuBois”) completed a habitat assessment in May 2025 and found potential nesting habitat and aquatic habitat for the Northern Red-bellied Cooter in several locations along the proposed transmission right-of-way. DuBois provided the assessment to PAFBC, and the PAFBC then issued a response in September 2025 requiring certain habitat protection and construction monitoring measures for the species. As PECO will comply with the PAFBC recommended habitat protection measures and construction monitoring, PAFBC does not foresee any adverse impacts to Northern Red-bellied Cooters from the Project.

30. PECO and Upper Merion Township entered into an Agreement in Lieu of Zoning, SALDO, and Subdivision Application/Approval (“Agreement”) dated March 13, 2025. The Agreement acknowledges that Pennsylvania Public Utility Code and case law preempt municipalities from regulating a public utility. However, PECO agreed to submit for informational purposes only and thereafter record a plan of consolidation for the four parcels of land comprising the Project. PECO also confirmed that it would pursue Commission approval of the equipment enclosure containing a lavatory to be constructed in the Forge Springs Substation. No approval, special exception, or variance of Upper Merion Township ordinances was required with respect to the construction of the new Forge Springs Substation, and PECO is not required to obtain any construction/building permits from Upper Merion Township. Notwithstanding the foregoing, PECO will comply with applicable Upper Merion Township ordinances related to the following matters, if applicable: NPDES, floodplain, storm water management, grading, soil and erosion,

demolition, Pennsylvania Department of Transportation highway occupancy permits, and water and sewer connections.

31. The Project is not expected to have any impacts on communications towers. An existing natural gas pipeline owned by the Williams Companies, Inc. is partially located in the area where the new Forge Springs Substation will be constructed, and the Williams Companies, Inc. will slightly relocate the pipeline around the new substation area.

32. The transmission structures of the Project to be constructed on Barbadoes Island will be located within a 100-year floodplain (Zone AE). The new Forge Springs Substation will not be located within a 100-year floodplain.

V. NOTICE

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

34. PECO will provide such additional forms of notice as may be directed by the Commission.

VI. LETTER OF NOTIFICATION

35. PECO 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).

36. The proposed Project qualifies for use of a Letter of Notification because both of the new high-voltage transmission lines will be less than two miles.

37. 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. CONSOLIDATION

38. PECO requests that this Letter of Notification be consolidated, under the Commission regulations at 52 Pa. Code § 5.81, for hearings and disposition with the Petition for Exemption since the two pleadings relate to the same subject matter (i.e., the Project) and are otherwise interrelated.

39. Consolidation of the LON and the Petition for Exemption for disposition and for purposes of hearing, briefing, and decision (if needed) promotes administrative efficiency. The Commission typically exercises its consolidation authority if, as in the instant case, it can avoid creating an additional, unnecessary and expensive hurdle.

40. PECO's requested consolidation approach is entirely consistent with Pennsylvania law on consolidation and is within the Commission's discretionary authority.

41. For the foregoing reasons, PECO requests that this Commission consolidate this LON and the Petition for Exemption for disposition, and if necessary, before one Administrative Law Judge for hearing and recommended decision, in accordance with Section 5.81 of the Pennsylvania Code. 52 Pa. Code § 5.81.

VIII. CONCLUSION

WHEREFORE, PECO respectfully requests the Commission grant approval to construct two transmission lines and structures related to the Forge Springs Project within Norristown, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania, to interconnect to the new Forge Springs Substation that will replace the existing Barbadoes Substation currently located in an area prone to flooding and at least partially at end of life.

Respectfully submitted,



Kenneth M. Kulak
Morgan, Lewis & Bockius LLP
2222 Market Street
Philadelphia, PA 19103-2921
(215) 963-5384
ken.kulak@morganlewis.com

Dated: September 9, 2025

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Letter of Notification of PECO Energy :
Company Filed Pursuant to 52 Pa. Code §§ :
57.71 et seq. for Approval of the Siting and : Docket No. A-2025-_____**
**Construction of the 220-80 Line and 220-101 :
Line Located in Norristown, West Norriton :
Township, and Upper Merion Township, :
Montgomery County, Pennsylvania :**

CERTIFICATE OF SERVICE

I hereby certify that on this date, the parties listed below that are entitled to receive a copy of the above-captioned Letter of Notification pursuant to 52 Pa. Code § 57.74 were served by certified mail, return receipt requested, a copy of the above-captioned Letter of Notification.

Office of Consumer Advocate
555 Walnut Street
Forum Place – 5th Floor
Harrisburg, PA 17101-1921
ra-oca@paoca.org

Allison C. Kaster
Bureau of Investigation and Enforcement
PA Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor West
Harrisburg, PA 17120

NazAarah Sabree
Small Business Advocate
Commonwealth of Pennsylvania
Office of Small Business Advocate
Forum Place
555 Walnut Street, 1st Floor
Harrisburg, PA 17101
ra-sba@pa.gov

Montgomery County Commissioners
P.O. Box 311
Norristown, PA 19404-0311
Attn: Jamila Winder, President Commissioner

Montgomery County Planning Commission
PO Box 311
Norristown, Pa 19404-0311
Attn: Steven N. Kline, Chair

Benjamin H. Field, Esq.
Montgomery County Solicitor
P.O. Box 311
Norristown, PA 19404-0311

Upper Merion Township
175 West Valley Forge Road
King of Prussia, PA 19406-1802
Attn: Marvin Meneeley, Chairperson

John Walko, Esq.
Upper Merion Township Solicitor
Kilkenny Law, LLC
519 Swede St.
Norristown, PA 19401

West Norriton Township
1630 W Marshall Street
West Norriton, PA 19403
Attn: Anne Pavone, President

Sean Kilkenny, Esq.
West Norriton Township Solicitor
Kilkenny Law, LLC
519 Swede St.
Norristown, PA 19401

Norristown Municipal Council
235 East Airy Street
Norristown, PA 19401
Attn: Rebecca Smith, President

Sean Kilkenny, Esq.
Norristown Solicitor
Kilkenny Law, LLC
519 Swede St.
Norristown, PA 19401

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

The Department of Environmental Resources
101 S. Second Street
Post Office Box 2357
Harrisburg, Pennsylvania 17120
Attn: Bureau of Environmental Planning

PA Department of Transportation
Commonwealth Keystone Building
400 North Street, 5th Floor
Harrisburg, PA 17120
Attn: Jeffery Spotts, Chief Counsel

PA Historical & Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, 2nd Fl.
400 North Street
Harrisburg, PA 17120-0053
Attn: Douglass C. McLearn, Chief

PA Department of Conservation & Natural
Resources
Rachel Carson State Office Building
400 Market St.
Harrisburg, PA 17105-8767
Attn: Rebecca Bowen, Ecological Services
Section Chief

U.S. Fish and Wildlife Service
Pennsylvania Field Office
110 Radnor Rd, Suite 101
State College, PA 16801-4850
Attn: Lesa Lindsay, Administrative Officer

PA Fish and Boat Commission
Natural Diversity Section
450 Robinson Lane
Bellefonte, PA 16823-9620
Attn: Christopher A. Urban, Chief

PA Game Commission
2001 Elmerton Avenue
Harrisburg, PA 17110-9797
Attn: Dr. Matthew Schnupp, Director

U.S. Army Corps of Engineers
Baltimore District Corporate Communication
Office
2 Hopkins Plaza
Baltimore, Maryland 21201
Attn: Planning Division

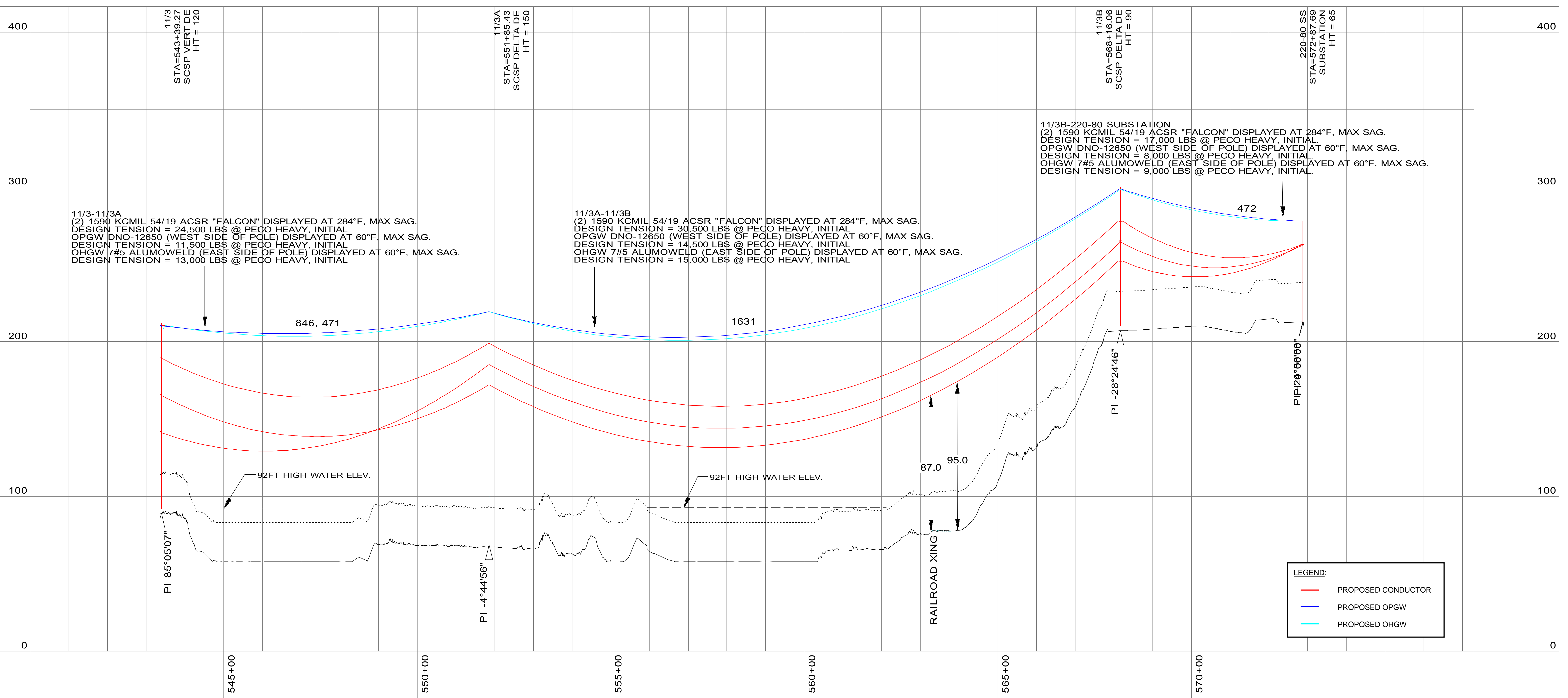
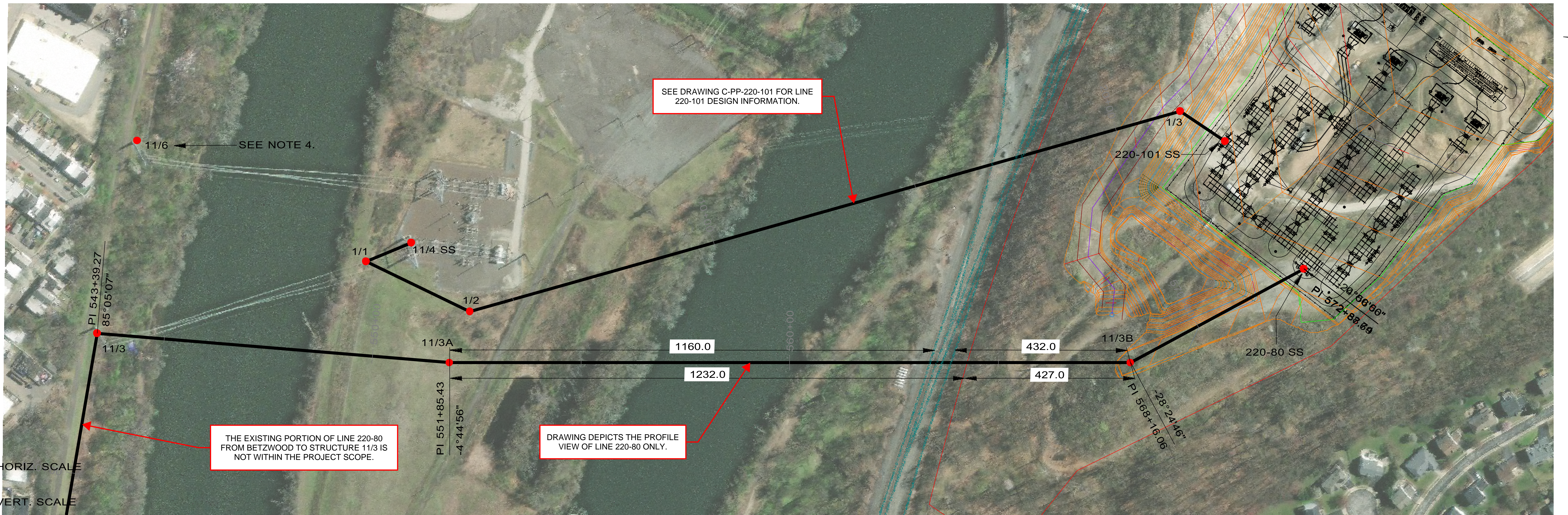
Federal Aviation Administration
Eastern Obstruction Evaluation
10101 Hillwood Parkway
Fort Worth, TX 76177
Attn: Dave Maddox

Montgomery Country Conservation District
143 Level Road
Collegeville, PA 19426
Attn: Jessica Buck, District Manager

Dated: September 9, 2025



Kenneth M. Kulak
Morgan, Lewis & Bockius LLP
2222 Market Street
Philadelphia, PA 19103-2921
(215) 963-5384
ken.kulak@morganlewis.com



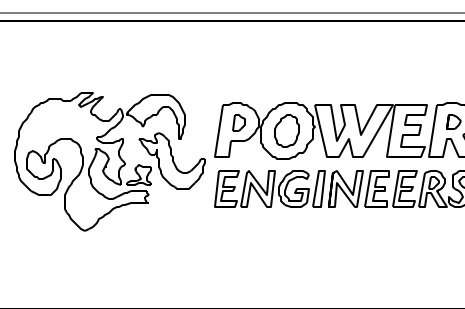
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

- NOTES:
- GROUND CLEARANCE LINE SHOWN AT 25.4 FT.
 - PROPOSED STRUCTURES ARE DESIGNED FOR 3 FT FOUNDATION REVEAL.
 - GRADING ON BARBADOES ISLAND IS PLANNED ON THE EASTERN SIDE OF THE ISLAND AND DOES NOT IMPACT THIS DESIGN.
 - EXISTING OPGW SPAN BETWEEN 11/3 AND 11/6 TO REMAIN.

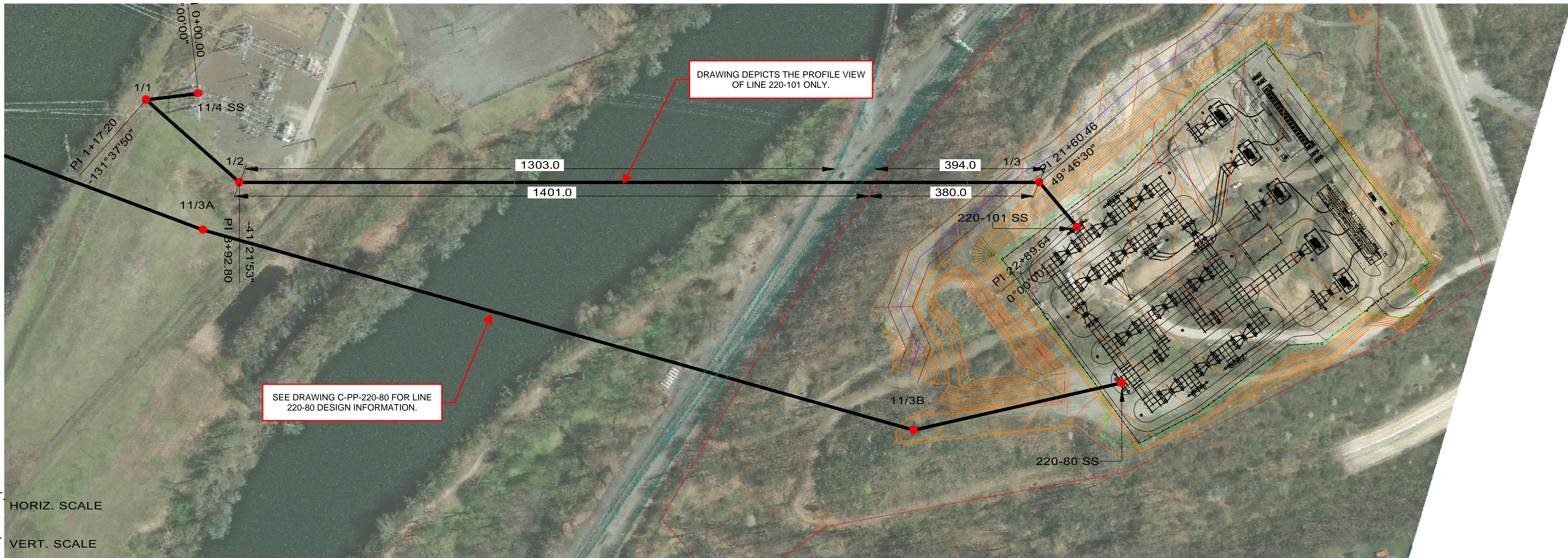
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A2	PHASE 1 - IFR	02/14/25	PEI	PBR	KAB	KAB	
A1	PHASE 1 - IFR	11/22/24	PEI	PBR	KAB	KAB	

DSGN	PBR	03/07/25
DRN	PEI	03/07/25
CKD	KAB	03/07/25

SCALE:
FOR 34X44 DWG ONLY

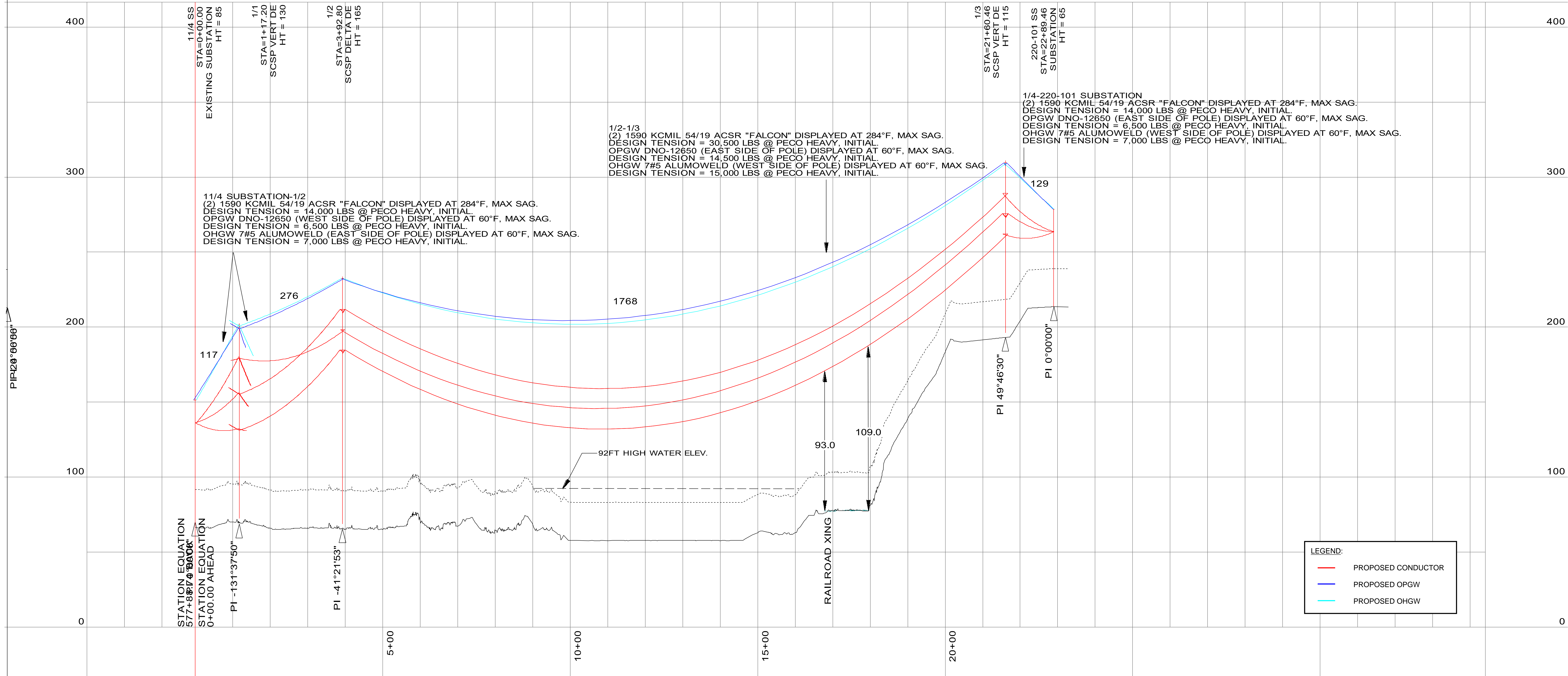


PECO ENERGY COMPANY		JOB NUMBER	REV
230KV TRANSMISSION LINE BETZWOOD - FORGE SPRINGS		0254540	A3
220-80 PLAN AND PROFILE		DRAWING NUMBER	C-PP-220-80-A3



100.0 FT
HORIZ. SCALE

25.0 FT
VERT. SCALE



LEGEND:

- PROPOSED CONDUCTOR
- PROPOSED OPGW
- PROPOSED OHGW

THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

NOTES:

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- PROPOSED STRUCTURES ARE DESIGNED FOR 3 FT FOUNDATION REVEAL.
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REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
A3	PHASE 1 - IFR	03/07/25	PEI	PBR	KAB	KAB	
A2	PHASE 1 - IFR	02/14/25	PEI	PBR	KAB	KAB	
A1	PHASE 1 - IFR	11/22/24	PEI	PBR	KAB	KAB	

DSGN	PBR	03/07/25		PECO ENERGY COMPANY 230KV TRANSMISSION LINE BARBADOES - FORGE SPRINGS 220-101 PLAN AND PROFILE	JOB NUMBER	0254540	REV	
DRN	PEI	03/07/25			DRAWING NUMBER	C-PP-220-101-A3		
CKD	KAB	03/07/25			SCALE:	FOR 34X44 DWG ONLY		

Letter of Notification Filing Checklist
PECO 220-80 Line and 220-101 Line

In an effort to facilitate the Commission’s review process for a Letter of Notification (“LON”) for the Siting and Construction of Electric Transmission Lines, the following checklist may be consulted by the applicant. The applicable regulatory requirements for a LON application are found in 52 Pa. Code §§ 57.71-77. The checklist is provided to streamline the review process by anticipating requests for additional information that may arise from Commission staff. The checklist does not create additional mandates or regulatory requirements for approval of a LON.

1. Provide the name of the applicant and the address of its principal business office.

PECO Energy Company
2301 Market Street
Philadelphia, PA 19103

2. Name, title and business address of the attorney of the applicant and the person authorized to receive notice and communications with respect to the application if other than the attorney or the applicant.

Anthony E. Gay
PECO Energy Company
Vice President & General Counsel
2301 Market Street
Philadelphia, PA 19103
(267) 533-1964
anthony.gay@exeloncorp.com

Kenneth M. Kulak
Morgan, Lewis & Bockius LLP
2222 Market Street
Philadelphia, PA 19103-2921
(215) 963-5384
ken.kulak@morganlewis.com

3. General description of the proposed route of the HV line, to include the number of route miles, the right-of-way width and the location of the proposed HV line within each city, borough, town and township traversed. Describe which sections of 52 Pa. Code §57.72(d)(1)(i)-(vi) the applicant believes are applicable.

PECO proposes to construct two new 230 kV transmission lines in Norristown, West Norriton Township, and Upper Merion Township, Montgomery County, Pennsylvania (the “Project”). As part of the Project, PECO will relocate the existing Barbadoes Substation situated on an island in the Schuylkill River to a new location south of the

Schuylkill River, the so-called Forge Springs Substation. PECO proposes to construct a new approximately 0.6 miles 230 kV 220-80 Line cutting into PECO's existing 220-80 Line and spanning the Schuylkill River to connect to the new Forge Springs Substation. This new line will be composed of three new steel monopole structures within an approximately 125-foot-wide right-of-way ending at a steel takeoff structure within the Forge Springs Substation. PECO also proposes to construct a new approximately 0.5 miles 220-101 Line from the new Forge Springs Substation to the existing Barbadoes Substation composed of three new steel monopole structures within an approximately 125-foot-wide right-of-way ending at a steel takeoff structure within the Barbadoes Substation. Both new lines will be constructed with double-bundled 1590 KCMIL 54/19 ACSR "Falcon" Aluminum Conductors, Steel Reinforced ("ACSR").¹

Most construction for the Project will take place on land for which PECO has existing land rights. For the new 220-80 Line, PECO intends to acquire necessary land rights for approximately 600 feet of right-of-way from Norfolk Southern and land rights for approximately 600 feet of right-of-way from the impacted landowner for Barbadoes Island. *See* Attachment 1 for a map of the proposed Project. For the new 220-101 Line, PECO intends to acquire necessary land rights for approximately 500 feet of right-of-way from Norfolk Southern and land rights for approximately 500 feet of right-of-way from the impacted landowner for Barbadoes Island. *See* Attachment 1 for a map of the proposed Project. PECO anticipates that the Project will have minimal incremental impact on land use in the Project area.

This application is made pursuant to 52 Pa. Code § 57.72(d)(1)(vi): An HV line having a proposed route of two miles or less. The Project meets this criterion because the new 220-80 Line will be approximately 0.6 miles, and the new 220-101 Line will be approximately 0.5 miles.

4. Provide a general statement of the need for the proposed HV line in meeting identified present and future demands for service, of how the proposed HV line will meet that need and of the engineering justification for the proposed line.

The existing Barbadoes Substation is on an island in the Schuylkill River, and the area has become prone to flooding. For example, in 2021, during Hurricane Ida, the island the Barbadoes Substation is located on became flooded. To build resiliency against flood events like Hurricane Ida, PECO proposes to relocate the substation off the island and south of the river. This new relocated substation will be the Forge Springs Substation.

¹ Consistent with the statement issued on March 27, 2025, in Docket No. A-2024-3052612, PECO has considered alternative engineering solutions and advanced transmission technologies for the Project. PECO will use ACSR conductors to match the conductors of the existing 220-80 Line that PECO will cut into for this Project. In general, the capacity of a transmission line is limited by the lowest-rated conductor on the circuit; therefore, installing advanced conductors on only a portion of a transmission circuit (as here) would not increase the operational capability or reliability of the existing 220-80 Line. However, PECO notes that in the event the line is reconducted in the future, the new transmission structures proposed in this LON will be compatible with advanced conductors.

In addition to avoiding potential flooding, PECO intends to replace the Barbadoes Substation due to the age of the facilities. The 34 kV component of the substation was constructed in 1926 and is at end of life. In addition, while not at end of life, the Barbadoes Substation's 230 kV component was constructed in 1986, and reliability would also be enhanced by replacing these facilities with modern equipment.

This Letter of Notification is for the first phase of the Forge Springs Substation replacement of the Barbadoes Substation. During this first phase, the Barbadoes Substation will remain active to provide 34 kV distribution service. In order to maintain this service, PECO proposes constructing a new 230 kV 220-101 Line from the new Forge Springs Substation to Barbadoes Substation, as well as extending the 220-80 Line from Barbadoes Island to the Forge Springs Substation. This arrangement will provide power until a second phase when the Forge Springs Substation will replace the Barbadoes Substation's distribution service. The Project's proposed transmission lines will serve current and future distribution load, including a new 230-13 kV substation to provide capacity to allow the load supplied by aging 34 kV to 4 kV substations to be converted to 13 kV and allow aging substations to be retired. PECO will seek any required approvals for transmission lines and structures in the second phase related to the Barbadoes Substation replacement in a separate filing.

The Project is also necessary to increase PECO's 13 kV capacity in the service area, as nearby 13 kV loads have reached maximum capacity. The Project will provide load relief to the 13 kV Flint Substation in neighboring Bridgeport, Pennsylvania, from new 13 kV circuits established at the Forge Springs Substation. In addition, the Project will support the retirement of the Bridgeport-003 4 kV Unit Substation, and the substantial new 13 kV capacity resulting from the Project will enable PECO to retire other 4 kV substation units in the future as customer load is converted to the new Forge Springs Substation 13 kV circuits.

The Project will also support the overall reliability of PECO's transmission system and serve the current and future distribution load.

5. Please provide an engineering assessment of the project including information to address the following:

a) Provide an analysis of minimum conductor clearances and conductor thermal ratings.

Conductor clearances for the project meet or exceed the requirements of PECO's Engineering Practice EPP-2090 OHT Design Clearances. The clearance requirement in EPP-2090 exceeds the requirements of NESC 2023. Examples of PECO clearance requirements are provided in subsection b, below.

b) Provide engineering design criteria and parameters such as vertical clearance to ground.

Ground, Farmland	25.4'
Roadways, driveways, parking lots	25.4'
Railroads, above top or rail	33.4'
Area not accessible by vehicles	21.4'

c) Provide an explanation as to how the project will be in compliance with the current NESC and, where applicable, information on how the applicant's design specifications and safety rules may exceed NESC suggested standards for transmission lines.

The right-of-way width for the proposed project is governed by the conductor displacement due to wind with the assumption that buildings can be erected on the easement line regardless of local municipality building setback requirements. The right-of-way width provided exceeds the requirements of NESC and PECO's Engineering Practice EPP-2090 "OHT Design Clearances" and will provide access for line maintenance, repair, and vegetation management.

6. If applicable, provide the current height of the structures expected to be replaced, the proposed height of the new structures to be installed and the height of the structures to remain in place. Provide the number of structures proposed vs. current number of structures. Provide the location and footprint of the current structures compared to the proposed structures.

Structure Number	New Structure Height (ft)	Existing Structure Height (ft)
11/3	120	115
11/3A	150	None
11/3B	90	None
220-80 T.O.	65	None
1/1	130	None
1/2	165	None
1/3	115	None
220-101 T.O.	65	None

- 7. If applicable, state if any properties/easements that did not previously have structures will now have a structure. State if the easement agreement allows for structures on these properties that did not previously have a structure. Explain the Company's process of informing the property owners that a structure will be placed on the easement to their property.**

Most of the transmission structures of the Project will be located on properties or easements where existing transmission structures are located. The only new transmission structures that will be located where there are no existing structures will be placed entirely within PECO's property in and around the new Forge Springs Substation.

- 8. If applicable, what is the PJM project ID No. for the proposed project? Has this project been submitted to the PJM Transmission Expansion Advisory Committee (TEAC)? If so, please provide a description of the project as submitted to the TEAC. If this project is part of a larger project, summarize the larger project of which the LON is a part. Please describe how this project may mitigate potential planning criteria violations.**

PJM has not yet provided a PJM project ID number for the Project. PJM typically assigns Project ID numbers after a do-no-harm analysis has been completed. PJM began a do-no-harm analysis for the Project in June 2025 but has not yet provided any results to PECO.

PECO presented the Project need and solution to the Transmission Expansion Advisory Committee in the March 2025 and June 2025 meetings, respectively, as shown below. PECO presented the Project as a supplemental project addressing the need to construct transmission facilities due to the following driver:

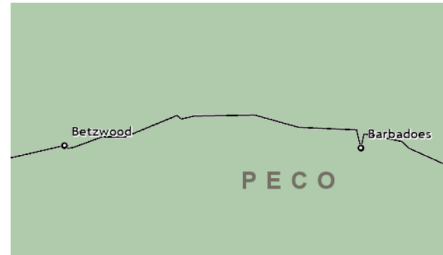
Customer Service - Service to new and existing customers. Interconnect new customer load. Address distribution load growth, customer outage exposure, equipment loading.

The Project is not associated with PJM baseline projects that are ordered by PJM and designated to PECO to address planning criteria violations.



M-3 Process
PECO Transmission Zone
Forge Spring Substation

- Need Number:** PE-2025-001
Process Stage: Solution Meeting 6/5/2025
Previously Presented: Need Meeting 3/4/2025
Project Driver:
- Customer Service
- Specific Assumption Reference:**
- Transmission System configuration changes due to new or expansion of existing distribution substations
- Problem Statement:**
- PECO Distribution Capacity Planning requested 50 MVA of capacity in the King of Prussia, PA region. Existing distribution facilities do not have enough capacity to accommodate this request.

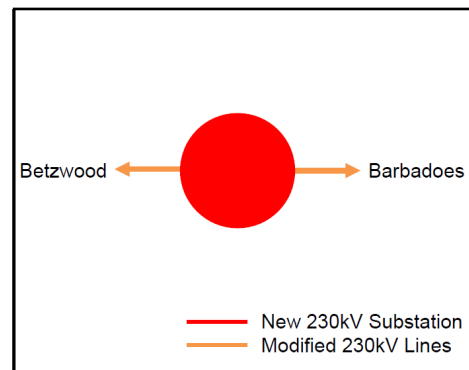


PJM TEAC – PECO Supplemental 6/5/2025



M-3 Process
PECO Transmission Zone
Forge Spring Substation

- Need Number:** PE-2025-001
Process Stage: Solution Meeting 6/5/2025
Proposed Solution:
- Install a new 8-position 230 kV breaker and a half substation by cutting into the existing Betzwood – Barbadoes 230 kV line.
- Estimated Transmission Cost:** \$27M
Alternatives Considered:
- No other feasible alternatives identified
- Projected In-Service:** 12/31/2029
Project Status: Conceptual
Model: 2029 RTEP



PJM TEAC – PECO Supplemental 6/5/2025

9. Provide a breakdown of project costs. Please explain who will own, finance and build the proposed project.

PECO estimates the total Project cost to be \$95.6 million, of which approximately \$24.8 million will be for transmission work and approximately \$70.77 million will be for distribution work. \$34.5 million of that cost is attributed to materials (new conductor/hardware, optical ground wire, structures, foundations, substation equipment). The remaining costs are attributable to direct labor—primary engineering and design, clearance reviews, and electrical/civil construction—and allocated to PECO overhead and management costs. PECO will own, finance, and build the proposed Project. \$33 million of the project costs are included for reimbursement in PECO’s federal Infrastructure and Investment Jobs Act grant contract with the United States Department of Energy utilizing funding from the Infrastructure Investment and Jobs Act. The Department of Energy has partially reimbursed PECO on a monthly basis totaling \$116,713, with the last reimbursement received on May 30, 2025.

10. If available at the time the LON is filed, please provide a copy of any comments received from state or local officials.

On March 23, 2025, PECO executed an agreement with Upper Merion Township in which the Township confirmed that PECO shall not be required to obtain any permits or approvals pursuant to any Township Ordinances governing zoning, subdivision and land development and construction/building codes, and that the Township will not oppose PECO’s petition under Section 619 of Pennsylvania’s Municipalities Planning Code. PECO has also received verbal support from the then-current Chair of the Montgomery County Commissioners, a state representative of the area, and a state senator, but has not received written documentation regarding the Project from these representatives.

On August 20, 2025, PECO responded to a request of a Norristown Borough engineer for technical information and provided the Project’s plan and profile drawings and information regarding the location of proposed transmission structures.

11. Please provide the anticipated construction commencement date and the proposed in-service date of the project.

The anticipated construction commencement date is the second quarter of 2026 for the substation and the first quarter of 2027 for the transmission facilities. The Project requires taking a transmission outage, and PECO anticipates taking an outage in the Spring of 2029. The proposed in-service date of the Project is the fourth quarter of 2029.

12. Provide evidence to show that the size, character, design and configuration of the proposed HV line will not substantially alter its existing right-of-way, if applicable. Please identify all alterations necessary to the existing right-of-way.

The new 220-80 Line will tap into the existing 220-80 Line within the existing right-of-way for approximately 475 feet, and the remaining approximately 0.6 miles will be located within a new approximately 125-foot-wide right-of-way. The entirety of the new 220-101 Line will be located within a new approximately 125-foot-wide right-of-way. No alterations to PECO's right-of-way are necessary. *See* PECO Attachment 1.

13. A statement identifying the filing date on which the filing of the LON was or is to be made and a statement as found in 57.72(d)(iv) regarding the Commission's review.

This Letter of Notification is being made today, September 9, 2025. PECO understands that, pursuant to 52 Pa. Code §§ 57.72(d)(4)(iv) and 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 Project will be constructed as proposed herein without the application process set forth at 52 Pa. Code §§ 57.71, et seq.

14. Provide the number of streams and/or wetlands that will be crossed. Describe how these will be addressed. Will any endangered or threatened species be affected? If a PNDI is required, please provide the results.

The Project will cross two streams, including the Schuylkill River, which will be crossed with aerial conductors. The Project's construction may impact three wetlands, but as set forth herein, any impacts will be mitigated to the fullest extent possible in strict accordance with state and federal environmental regulations per PECO's standard environmental mitigation practices. In August 2025, PECO will apply for a Submerged Lands License Agreement and Joint Permit Application authorized by the Pennsylvania Department of Environmental Protection and the U.S. Army Corps of Engineers to permit crossing of the Schuylkill River. Delineated waterways and wetlands will be avoided to the extent practical, and Pennsylvania Department of Environmental Protection Chapter 105 provisions will be met through waivers or an additional Joint Permit Application.

A Pennsylvania Natural Diversity Inventory was required as part of the NPDES permit application that identified potentially threatened or endangered species in the vicinity of the Project. The following potential or actual presence of species of concern were identified as potentially present in the project area: Pennsylvania Game Commission ("PAGC") identified the potential presence of peregrine falcon; Pennsylvania Department of Conservation and Natural Resources ("PADCNR") identified the potential presence of Southern Red Oak; and Pennsylvania Fish and Boat Commission ("PAFBC") identified the Northern Red-bellied Cooter. However, further review by PAGC and PADCNR determined that no adverse impacts are expected to the identified species. No species of concern were identified by the U.S. Fish and Wildlife Service. PAFBC requested a

habitat assessment for the presence/absence of suitable habitat for the Northern Red-bellied Cooter. DuBois and Associates, LLC (“DuBois”) completed a habitat assessment in May 2025 and found potential nesting habitat and aquatic habitat for the Northern Red-bellied Cooter in several locations along the proposed transmission right-of-way. DuBois provided the assessment to PAFBC, and the PAFBC then issued a response in September 2025 requiring certain habitat protection and construction monitoring measures for the species. As PECO will comply with the PAFBC recommended habitat protection measures and construction monitoring, PAFBC does not foresee any adverse impacts to Northern Red-bellied Cooters from the Project.

Erosion and sediment control devices and best management practices will be in place to minimize the potential for sedimentation to waters and wetlands through the implementation of best management practices during construction.

15. Indicate the number of circuits on the proposed line. Note that if only one is being installed at this time, another LON may be needed when the second circuit is added.

PECO will instance one circuit for each of the 220-80 Line and 220-101 Line as part of the Project.

16. Please provide a copy of the certificate of service.

The certificate of service is attached to the filing.

17. Provide the specific NERC or other regulatory standard criteria which is driving the proposed project (e.g. TPL-004-1, P.2).

Not applicable.

18. Explain why the NERC, or other regulatory standard, violation, is now an issue where it wasn't previously.

Not applicable.

19. Explain whether the proposed project meets NERC or PJM minimum planning criteria or whether it exceeds these criteria to meet transmission owner planning criteria. If the project exceeds either of these minimum planning criteria to meet transmission owner criteria, provide a detailed explanation as to why.

The proposed Project is not driven by NERC or PJM minimum planning criteria. The Project is necessary to maintain reliability by replacing the existing Barbadoes Substation with the new Forge Springs Substation away from an area prone to flooding.

20. Explain whether load growth in the area has led to any change in circumstances as it relates to the need for the proposed project. If so, quantify these load growth impacts.

The Project will support PECO's provision of 13 kV capacity to continue to serve load currently supplied by aging 34 kV to 4 kV substations fed from the Barbadoes Substation. The Project is also necessary to increase PECO's 13 kV capacity in the service area, as nearby customer electrification efforts are expected to increase and nearby 13 kV loads have already reached maximum capacity. PECO anticipates approximately 25 MVA of new load through 2028 on circuits fed by the Barbadoes substation, its downstream 4 kV unit substations, and the nearby Flint 13 kV substation.

21. State the age and anticipated service life and describe the overall health of the transmission line facilities to be replaced. Additionally, include information related to conditions which may have accelerated aging or led to premature failure of the facilities (e.g. corrosive environment).

The Project is not driven by aged equipment or the health of the existing transmission line facilities. The Project is necessary because of the location of the existing Barbadoes Substation in an area prone to flooding. PECO will construct new facilities to interconnect the existing 220-80 Line with the new Forge Springs Substation located away from the Schuylkill River and to maintain service from the Barbadoes Substation. The Project will also provide reliability benefits because the 34 kV component of the Barbadoes Substation is at end of life and will be replaced by the Forge Springs Substation at a future time. Although the new Forge Springs Substation will only provide 230 kV service as a result of the Project subject to this Letter of Notification, the proposed Project is a necessary prerequisite for the future replacement of the 34 kV equipment at the Barbadoes Substation that is at end of life.

The expected service life of the new transmission structures is approximately 60 years.

22. Provide information regarding any unplanned outages on the subject transmission facilities over the previous 5 years (or more), including the duration, cause, whether service to customers was interrupted by outages on the subject transmission line(s),

and if so, the number and type of customers which were impacted. Additionally, explain whether the proposed project would mitigate the effects of these outages.

There have been no unplanned interruptions on the 220-80 Line within the last 10 years.

23. Explain whether alternative solutions were considered. If so, provide a brief description of the alternative(s) and provide a detailed explanation of why the chosen solution was selected.

PECO considered constructing temporary and permanent flood walls to mitigate flooding of the existing Barbadoes Substation. However, as flood walls would not prevent intrusion based on potentially rising groundwater, PECO determined this was not a viable solution. PECO also considered raising the existing substation equipment above the flood elevation, but this potential approach would have led to multiple clearance issues. PECO's proposed Project is the most practicable solution.

24. Explain whether any of the loads served by the transmission facilities to be replaced are considered to be critical customers.

Not applicable. This question inquires about the loads served by existing transmission facilities. No current carrying transmission facilities will be replaced as part of the proposed Project. Nevertheless, the 220-80 Line is an integrated part of the PJM transmission system and thus does not serve individual customers.

25. Quantify the anticipated increase in reliability in terms of customer average interruption duration index, system average interruption duration index, and system average interruption frequency index.

The Project is necessary to maintain reliability and will provide an increase in reliability by relocating the existing Barbadoes Substation away from an area prone to flooding. If the existing Barbadoes Substation was flooded in a worst-case scenario and power could not be redirected from other sources, PECO estimates that the result would be a total loss of electric service to 25,000 customers or approximately a 0.015 SAIFI impact.²

In addition, a primary purpose of constructing the Forge Springs Substation is to provide 13 kV substation capacity to support PECO's Long-Term Infrastructure Improvement Plan ("LTIIP") and non-LTIIP unit substation retirement program. The main goal of the program is to retire units before they fail. There are approximately 700 unit substations in service in the PECO territory with an average age of approximately 55 years. There are over 15 of these unit substations near the proposed Forge Springs Substation site.

² Given the uncertain timeline for flood recovery, PECO is unable to estimate a potential SAIDI or CAIDI impact for the proposed flooding worst-case scenario.

The new relocated substation will provide capacity to allow the 4 kV supply to be converted to 13 kV and for PECO to retire the 34/4 kV units. Converting the load to 13 kV will improve the ability of customers to connect photovoltaic installations and support other anticipated customer load growth. There are a few aging 34/13 kV units in the area, and the 13 kV load they supply will be transferred to the new Forge Springs Substation and the units retired.

With respect to the new transmission facilities, this question is not applicable because no existing transmission structures are being replaced as part of this Project.

26. If a transmission owner customer requested the proposed project and is not paying the entire cost, explain why the costs will be assumed by other transmission owner customers.

Not applicable.

27. Provide a detailed description of the methodology used to determine that the subject transmission facilities have reached the end of their useful service life. Additionally, provide any survival curves or utility specific data used in this determination.

Not applicable.

Revised October 2018

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Letter of Notification of PECO Energy :
Company Filed Pursuant to 52 Pa. Code §§ :
57.71 *et seq.* for Approval of the Siting and : Docket No. A-2025-_____**
**Construction of the 220-80 Line and 220-101 :
Line Located in Norristown, West Norriton :
Township, and Upper Merion Township, :
Montgomery County, Pennsylvania :**

VERIFICATION

I, Drew T. Davis, hereby declare that I am the Vice President, Transmission and Substation for PECO Energy Company; that, as such, I am authorized to make this verification on its behalf; that the facts set forth in the foregoing Letter of Notification are true and correct to the best of my knowledge, information, and belief; and that I make this verification subject to the penalties of 18 Pa. C.S.A. § 4904 pertaining to false statements to authorities.

DATE: 09/05/2025



Drew T. Davis
Vice President, Transmission and Substation