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File #: 218169

May 1, 2026

VIA ELECTRONIC FILING

Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, Second Floor
Harrisburg, PA 17105

Re: Letter Of Notification Of PPL Electric Utilities Corporation, Filed Pursuant To 52 Pa. Code Chapter 57 Subchapter G, For Approval To Build Approximately 0.5 miles of New Double-Circuit 138/69 kV Transmission Taps That Are Needed to Connect the Existing AT&T R&D 138/69 kV Tap Transmission Lines to the New TEK Park 138/69-13 kV Substation and To Construct Approximately 0.75 miles of New Double Circuit 138/69 kV Lines from the Breinigsville 500-133-69 kV Substation to the new TEK Park 138/69 kV Tap Lines in Upper Macungie Township, Lehigh County, Pennsylvania
Docket No. _____

Dear Secretary Homsher:

Enclosed for filing on behalf of PPL Electric Utilities Corporation ("PPL Electric") is a Letter of Notification ("LON") requesting approval to (1) build approximately 0.5 miles of new double-circuit 138/69 kilovolt ("kV") transmission lines ("TEK Park 138/69 kV Tap Lines" or "Tap Lines") that are needed to connect the existing AT&T R&D 138/69 kV Tap Transmission Lines to the new TEK Park 138/69-13 kV Substation ("TEK Park Substation"), (2) replace one existing structure and two spans of conductor on the AT&T R&D 138/69 kV Tap Transmission Lines, and (3) construct new double-circuit 138/69 kV lines ("Breinigsville – TEK Park #1 & #2 138/69 kV Lines") for approximately 0.75 miles from the Breinigsville 500-138-69 kV Substation ("Breinigsville Substation") to the new TEK Park 138/69 kV Tap Lines in Upper Macungie Township, Lehigh County, Pennsylvania (the "Project"). This LON is filed pursuant to the Pennsylvania Public Utility Commission's ("Commission") regulations at 52 Pa. Code § 57.72(d). Copies of this LON have been served upon the parties as required by 52 Pa. Code § 57.74 and as noted on the attached Certificate of Service.

Subject to the Commission's approval, Phase 1 of the Project has a scheduled construction date of August 2026, to meet an in-service date of April 2027. Phase 2 of the Project has a scheduled construction date of January 2027 to support an in-service date of June 2027. To support this construction timeline, PPL Electric respectfully requests the Commission's review and approval for the LON on or before the August 6, 2026, Public Meeting to allow construction to commence immediately thereafter.

Due to the size of the filing, only the cover letter and Certificate of Service will be electronically filed through the Commission's e-filing website. The Letter of Notification is being uploaded to the Commission's ShareFile website.

Please enter the appearance of the following attorneys on behalf of PPL Electric in this proceeding:

Garrett P. Lent (ID #321566)
Lindsay A. Berkstresser (ID #318370)
Hayley E. Wilburn (ID # 336055)
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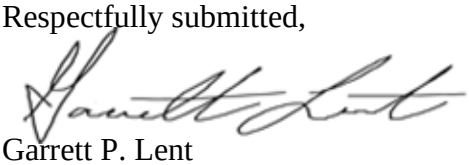
glent@postschell.com
lberkstresser@postschell.com
hwilburn@postschell.com

Please send copies of all documents and communications in this proceeding to the counsel listed above.

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

Respectfully submitted,



Garrett P. Lent

GPL/sll
Attachments

cc: Deb Backer, Bureau of Technical Utility Services (*via electronic service*)
Jordan Van Order, Bureau of Technical Utility Services (*via electronic service*)
Certificate of Service

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing Application has been served upon the following persons, in the manner indicated, in accordance with the requirements of 52 Pa. Code § 57.74(b).

VIA CERTIFIED MAIL: RETURN RECEIPT REQUESTED

PA Bureau of Investigation and Enforcement
Attn: Allison Kaster
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor, Room-N201
Harrisburg, PA 17120

PA Department of Environmental Protection
Attn: Regional Permit Coordination Office
Rachel Carson State Office Building
400 Market Street, 10th Floor
Harrisburg, PA 17101

Pennsylvania Department of Transportation
Attn: Jeffrey Spotts, Chief Counsel
Keystone Building
400 North Street, Ninth Floor
Harrisburg, PA 17120

PA Historical and Museum Commission
Bureau for Historic Preservation
Attn: Ms. Andrea MacDonald, Bureau Director/Deputy State Historic Preservation Officer
Commonwealth Keystone Building, 2nd Fl.
400 North Street
Harrisburg, PA 17120-0093

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

Pennsylvania Game Commission
Attn: Dr. Matthew Schnupp, Director, Bureau of Wildlife Management
2001 Elmerton Avenue
Harrisburg, PA 17110-9797

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

Pennsylvania Office of Consumer Advocate
Attn: Darryl A. Lawrence, Consumer Advocate
Forum Place
555 Walnut Street, 5th Floor
Harrisburg, PA 17101-1923

PA Office of Small Business Advocate
Attn: NazAarah Sabree, Small Business Advocate
Forum Place
555 Walnut Street, 1st Floor
Harrisburg, PA 17101

United States Army Corps of Engineers
Attn: Planning Division
Philadelphia District Corporate Communication Office
1650 Arch Street
Philadelphia, PA 19103-2004

U.S. Fish and Wildlife Service
Attn: Lesa Lindsay
Pennsylvania Field Office
110 Radnor Road, Suite 101
State College, PA 16801

Lehigh Valley Planning Commission
615 Waterfront Drive, Suite 201
Allentown, PA 18102

Lehigh County Conservation District
4184 Dorney Park Road
Allentown, PA 18104

Upper Macungie Township
Attn: Jeff Fleischaker, Chairman
8330 Schantz Road
Breinigsville, PA 18031

Hamilton 9999 Associates
8220 21st Avenue
Brooklyn, NY 11214-2561

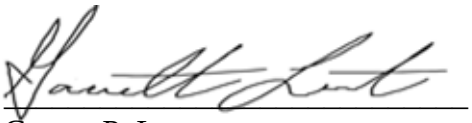
Kate E M Tercha
2048 Tercha Road
Fogelsville, PA 18051-2030

PPL Electric Utilities Corporation
Two North Ninth Street
Allentown, PA 18101-1179

Lehigh County Authority
P.O. Box 3348
Allentown, PA 18106-0348

John and Patricia Skrip
9850 Newton Road
Breinigsville, PA 18031-1808

Date: May 1, 2026



Garrett P. Lent

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Letter Of Notification Of PPL Electric Utilities Corporation, Filed Pursuant To 52 Pa. Code Chapter 57 Subchapter G, For Approval To Build Approximately 0.5 miles of New Double-Circuit 138/69 kV Transmission Taps That Are Needed to Connect the Existing AT&T R&D 138/69 kV Tap Transmission Lines to the New TEK Park 138/69-13 kV Substation and To Construct Approximately 0.75 miles of New Double Circuit 138/69 kV Lines from the Breinigsville 500-133-69 kV Substation to the new TEK Park 138/69 kV Tap Lines in Upper Macungie Township, Lehigh County, Pennsylvania	:	Docket No. A-2026-_____

LETTER OF NOTIFICATION

TO THE PENNSYLVANIA PUBLIC UTILITY COMMISSION:

PPL Electric Utilities Corporation ("PPL Electric" or the "Company") hereby files this Letter of Notification pursuant to Section 57.72(d)(1)(vi) of the Pennsylvania Public Utility Commission's ("PUC" or the "Commission") regulations, 52 Pa. Code § 57.72(d)(1)(vi), to (1) build approximately 0.5 miles of new double-circuit 138/69 kilovolt ("kV") transmission lines ("TEK Park 138/69 kV Tap Lines" or "Tap Lines") that are needed to connect the existing AT&T R&D 138/69 kV Tap Transmission Lines to the new TEK Park 138/69-13 kV Substation ("TEK Park Substation"), (2) replace one existing structure and two spans of conductor on the AT&T R&D 138/69 kV Tap Transmission Lines, and (3) construct new double-circuit 138/69 kV lines ("Breinigsville – TEK Park #1 & #2 138/69 kV Lines") for approximately 0.75 miles from the

Breinigsville 500-138-69 kV Substation ("Breinigsville Substation") to the new TEK Park 138/69 kV Tap Lines in Upper Macungie Township, Lehigh County, Pennsylvania (the "Project").[1] The Project will extend and reinforce existing transmission facilities to provide a second source of high-voltage service to an existing customer, ensure compliance with PPL Electric's planning standards, and preserve system reliability and operational flexibility as customer demand grows.

Subject to the Commission's approval, construction of the TEK Park 138/69 kV Tap Lines will begin in August 2026 to support an in-service date of April 2027 ("Phase 1"). PPL Electric will own, operate, and maintain the new TEK Park 138/69 kV Tap Lines. The customer will construct, own, operate, and maintain the TEK Park Substation. The total estimated cost of Phase 1 of the Project, as described below, is approximately $2.7 Million. The customer is fully responsible for the cost of Phase 1 of the project. Subject to the Commission's approval, construction of the Breinigsville – TEK Park #1 & #2 138/69 kV Lines will begin in January 2027 to support an in-service date of June 2027 ("Phase 2"). PPL Electric will own, operate, and maintain the new Breinigsville – TEK Park #1 & #2 138/69 kV Lines. The total estimated cost of Phase 2 of the Project, as described below, is approximately $1.9 Million. PPL Electric is fully responsible for the cost of Phase 2 of the Project.

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.

[1] For a complete list of municipalities and counties crossed by the Project, please refer to **Attachment 5 – Agency and Landowner List** to this Letter of Notification.

2. PPL Electric's address is as follows:

PPL Electric Utilities Corporation
827 Hausman Road
Allentown, Pennsylvania 18104

3. PPL Electric's attorneys are:

Michael J. Shafer (I.D. # 205681)
PPL Services Corporation
645 Hamilton Street, Suite 700
Allentown, PA 18101
Voice: 610-774-2599
Fax: 610-774-4102
E-mail: mjshafer@pplweb.com

Garrett P. Lent (I.D. # 321566)
Lindsay A. Berkstresser (I.D. #318370)
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Fax: 717-731-1985
E-mail: glent@postschell.com
E-mail: lberkstresser@postschell.com
E-mail: hwilburn@postschell.com

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 1.5 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 Statement.
- Attachment 3 Description of Project Area.
- Attachment 4 PPL Electric Design Criteria and Safety.
- Attachment 5 Agency and Landowner List.

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

8. PPL Electric has a right and obligation to provide retail electric service in a manner that is efficient, safe, reliable, and resilient to meet the needs of the electric system and the service expectations of its customers. To meet this duty, PPL Electric applies its transmission asset management planning procedure, which includes system performance and condition assessments. These performance and condition assessments identify system needs and prioritize projects based on several variables such as equipment age, condition, maintenance schedule, customer needs, and impact on system reliability and performance to ensure a reliable electric grid and reasonable service to its customers.

9. As an initial matter, the Project has gone through the M-3 Supplemental Project Process under the PJM Interconnection, LLC ("PJM") Open Access Transmission Tariff ("OATT"). The Project has also gone through do no harm ("DNH") testing by PJM. The Project was assigned supplemental number 3556. The transmission system planning process is described in detail in **Attachment 1 – Necessity Statement**.

10. This Project is necessary to accommodate a customer request for a second source of 69 kV electrical service so that the Company may remain in compliance with its Commission-

approved tariff requirement to serve the customer facility via 69 kV or above at the LP-5 rate schedule, and with PPL Electric's general right and obligation to serve customers in its service territory, subject to the terms and conditions of its tariffs and certificate of public convenience.

11. The customer is an existing customer, and has requested a second source of 69 kV electrical service with an in-service date of November 2026, and a final load of 100 MW. The customer's request is described in detail in **Attachment 1 – Necessity Statement**.

12. As the system exists today, the Breinigsville Substation serves the Breinigsville – West Trexlertown #1 & #2 138/69 kV lines, which provide the source for the customer-owned AT&T R&D Substation through the AT&T R&D 138/69 kV Tap Transmission Lines, as well as the PPL Electric-owned West Trexlertown 69-12 kV Substation ("West Trexlertown Substation"). Further description of the existing system is provided in **Attachment 1 – Necessity Statement**.

13. A map of the existing system configuration is provided as **Figure 1-1,** in **Attachment 1 – Necessity Statement.**

14. Phase 1 of the Project is needed to connect to the new customer-owned TEK Park Substation and to serve the customer's additional load growth.

15. A map of the Phase 1 proposed system configuration is provided as **Figure 1-3,** in **Attachment 1 – Necessity Statement.**

16. Phase 2 of the Project is needed to allow for the transfer of load in the event of an outage and to prevent the existing West Trexlertown #1 & #2 138/69 kV lines from exceeding the Company's Planning Standard of no more than 60 MW of load on a radial 69 kV or 138 kV double-circuit tap.

17. A map of the Phase 2 proposed system configuration is provided as **Figure 1-5,** in **Attachment 1 – Necessity Statement.**

18. The Project phases are addressed at further length in **Attachment 1 – Necessity Statement**. Completion of the Project will allow the Company to provide safe and reliable service to the customer, per the customer's request, while maintaining the overall reliability of the regional transmission system to protect the Company's other existing customers in the event of an outage between Breinigsville and West Trexlertown.

B. THE PROPOSED PROJECT

19. To appropriately serve the requesting customer's load and limit reliability impacts, PPL Electric proposes to construct 0.5 miles of Tap Lines to connect the existing AT&T R&D 138/69 kV Tap Transmission Lines to the new, customer-owned TEK Park 138/69-13 kV Substation, replace one existing structure and two spans of conductor on the AT&T R&D 138/69 kV Tap Transmission Lines to accommodate the proposed Tap Lines, and construct the Breinigsville – TEK Park 500-138-69 kV Lines for approximately 0.75 miles from the Breinigsville Substation to the new Tap Lines ("Proposed Solution").

20. Phase 1 of the Project involves 11 new proposed structures and two overhead ground wires ("OHGW"). Details regarding the transmission line structures and structure types is included in **Attachment 2 – Engineering Description**.

21. Phase 2 of the Project involves 8 new proposed structures and two Optical Ground Wires ("OPGW"). Details regarding the transmission line structures and structure types is included in **Attachment 2 – Engineering Description**.

22. The Proposed Solution is the least cost and least impactful solution to best serve the customer, while minimizing impacts upon the local environment and surrounding community. Details regarding the Proposed Solution, Alternatives considered, and PPL Electric's evaluation of the Proposed Solution and Alternatives considered is included in **Attachment 1 – Necessity Statement**.

23. As noted above, the customer is entirely responsible for the cost of Phase 1 of the Project, and PPL Electric is entirely responsible for the cost of Phase 2 of the Project. Detailed information regarding project costs and cost allocation is provided in **Attachment 1 – Necessity Statement**.

III. HEALTH AND SAFETY

24. The Project will not create any unreasonable risk of danger to public health or safety. The proposed lines will be designed, constructed, operated, and maintained in a manner that meets or surpasses all applicable National Electrical Safety Code ("NESC") minimum standards and all applicable legal requirements. Descriptions of the NESC standards, PPL Electric's design criteria, and PPL Electric's safety practices are provided in **Attachment 4 – Design Criteria and Safety** to this Letter of Notification.

25. **Attachment 4 – Design Criteria and Safety** accompanying this Letter of Notification also explains PPL Electric's standards for Magnetic Field Management and Magnetic Field Management Program, which is applied to new and reconstructed transmission line projects.

26. The program will be applied to this Project and the Project is designed with clearances that are at least 3 feet higher than NESC standards.

IV. DESCRIPTION OF THE RIGHT-OF-WAY

27. Phase 1 of the Project will be constructed entirely on customer-owned land, and line work will be performed within PPL Electric's existing right-of-way ("ROW"). Further information on construction of Phase 1 of the Project and utilization and acquisition of ROW is included in **Attachment 3 – Description of Project Area**.

28. While Phase 2 of the Project will primarily be constructed on PPL Electric's existing property and ROW and on the customer's property, it did require some acquisition of new ROW. The Company has already acquired the new ROW necessary for the completion of Phase 2

of the Project. Further information on construction of Phase 1 of the Project and utilization and acquisition of ROW is included in **Attachment 3 – Description of Project Area**.

29. The entire Project is located within Upper Macungie Township, Lehigh County, Pennsylvania. PPL Electric has provided information about the proposed Project to representatives of Upper Macungie Township and Lehigh County, who have not indicated opposition to the Project.

V. LAND USE AND ENVIRONMENTAL EVALUATION

30. Existing and temporary access roads will be utilized during Project construction. The Project Area primarily consists of agricultural and developed commercial/industrial land. Construction of the Project will require minimal tree clearing. More detail on land use and land cover is provided in **Attachment 3 – Description of Project Area**, and a map showing land use is provided as **Figure 3-1** in **Attachment 3**.

31. The Project crosses four public roads and is located adjacent to some of PPL Electric's existing ROW near the West Trexlertown Substation. PPL Electric does not anticipate any interference with airport operations because of the distance to the nearest airport, which is 8.25 miles, as well as the fact that existing electrical facilities are present in the area. The Project will not affect any national, state, or local parks or recreational areas, natural landmarks, or conserved lands. Land use in the Project Area is described further in **Attachment 3 – Description of Project Area**.

32. There are two National Register of Historical Places ("NHRP")-eligible architectural resources, two NHRP-eligible above-ground district resources, and three NHRP-eligible archaeological sites within the Study Area. More information on cultural resources within the Project Area is provided in **Attachment 3 – Description of Project Area**.

33. No unique geological, scenic, or natural areas are crossed by the Project, according to the Pennsylvania Department of Conservation and Natural Resources ("DCNR"). Erosion and Sedimentation ("E&S") control plans will be developed and implemented for the Project to minimize the displacement of soils. These plans will require prior approval from the local county conservation districts. A National Pollutant Discharge Elimination System ("NPDES") permit will also be obtained from the Pennsylvania Department of Environmental Protection ("PADEP") as needed. During construction, PPL Electric will adhere to all conditions specified in the NPDES permit. Impacts to local soil resources are anticipated to be minimal. Further information on unique natural features is provided in **Attachment 3 – Description of Project Area**.

34. The Project will span two waterways. The Company does not anticipate direct impacts to stream features within the Project Area. Additionally, the Project does not cross any mapped wetlands or FEMA 100-year floodplains. More detail on hydrological features within the Project Area is provided in **Attachment 3 – Description of Project Area**.

35. Two Pennsylvania Natural Heritage Program identified natural areas are crossed by the Project. Additionally, Pennsylvania Natural Diversity Inventory ("PNDI") reviews were completed for the TEK Park 138/69 kV Tap Lines and the Breinigsville – TEK Park #1 & #2 138/69 kV Lines to assess the potential presence of threatened and endangered species and/or special concern species on the customer's property. Specific agencies reviewing the Project included the Pennsylvania Game Commission ("PGC"), Pennsylvania Fish & Boat Commission ("PFBC"), PA Department of Conservation and Natural Resources ("DCNR"), and U.S. Fish and Wildlife Service ("USFWS").

36. The PGC, PDCNR, and USFWS indicated there would be no known impacts to protected species under their jurisdictions. The PFBC indicated the potential for impacts to a

"sensitive species" under its jurisdiction. PPL Electric will complete all required surveys, obtain all necessary approvals and permits for Project construction, and comply with all conditions placed on those permits.

37. PPL Electric will continue to consult with the jurisdictional agencies regarding potential impacts to protected species, complete all required surveys; obtain all necessary approvals and permits for Project construction; and comply with all conditions placed on those permits.

38. If vegetation management is required within the existing ROWs, PPL Electric will apply its "Specifications for Transmission Vegetation Management LA-79827" to minimize potential impacts.

VI. NOTICE

39. PPL Electric has reached out to residents located immediately adjacent to the Project Area. Copies of the Letter of Notification will be served upon landowners in accordance with 52 Pa. Code § 57.72(d)(3). A list of the landowners impacted by this project is provided in **Attachment 5 – Agency and Landowner List.**

40. PPL Electric has provided information regarding the Project to representatives of Upper Macungie Township, Lehigh County, Pennsylvania. Upper Macungie Township has not objected to the proposed Project. Copies of this Letter of Notification will be served on the governmental agencies, municipalities, and other public entities and organizations in accordance with 52 Pa. Code §§ 57.72(d)(3) and 57.74. A list of these entities and organizations is also provided in **Attachment 5 – Agency and Landowner List**.

VII. LETTER OF NOTIFICATION

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

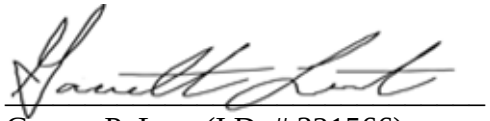
42. The proposed Project qualifies for use of a Letter of Notification because it has a proposed route of 2 miles or less.

43. 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.*

VIII. CONCLUSION

WHEREFORE, PPL Electric Utilities Corporation respectfully requests that the Pennsylvania Public Utility Commission approve the proposed Project located in Lehigh County, Pennsylvania, that is explained above and in the Attachments hereto, by no later than August 27, 2026.

Respectfully submitted,



Michael J. Shafer (I.D. # 205681)
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Date: May 1, 2026

Attorneys for PPL Electric Utilities Corporation

Attachment 1

TEK PARK 138/69 KV TAP PROJECT

TABLE OF CONTENTS

List of Tables

List of Figures

I. INTRODUCTION

PPL Electric Utilities Corporation ("PPL Electric" or the "Company") seeks Pennsylvania Public Utility Commission ("PUC" or the "Commission") approval for a transmission upgrade needed to reliably serve significant new customer load in Upper Macungie Township, Lehigh County. The TEK Park 138/69 kV Tap Project will extend and reinforce existing transmission facilities to provide a second source of high-voltage service to an existing customer, ensure compliance with PPL Electric's planning standards, and preserve system reliability and operational flexibility as customer demand grows.

The TEK Park 138/69 kV Tap Project ("Project") involves:

- Building approximately 0.5 miles of new double-circuit 138/69 kilovolt ("kV") transmission lines ("TEK Park 138/69 kV Tap Lines" or "Tap Lines") that are needed to connect the existing AT&T R&D 138/69 kV Tap Transmission Lines to the new TEK Park 138/69-13 kV Substation ("TEK Park Substation").
- Replacing one existing structure and two spans of conductor on the AT&T R&D 138/69 kV Tap Transmission Lines to accommodate the proposed Tap Lines.
- Constructing new double-circuit 138/69 kV lines ("Breinigsville – TEK Park #1 & #2 138/69 kV Lines") for approximately 0.75 miles from the Breinigsville 500-138-69 kV Substation ("Breinigsville Substation") to the new TEK Park 138/69 kV Tap Lines.

The new TEK Park 138/69 kV Tap Lines and new Breinigsville – TEK Park #1 & #2 138/69 kV Lines will be designed for 138 kV operation but initially energized at 69 kV. The Project is located in Upper Macungie Township, Lehigh County, Pennsylvania.

The Project is needed to meet the electric needs and demands of an existing customer (served from the AT&T R&D Substation) requesting a second source of 138/69 kV service in Upper Macungie Township, Lehigh County, Pennsylvania. PPL Electric herein seeks Commission approval for the Project.

The Project is required to comply with:

- The PPL Electric Utilities Corporation General Tariff to serve the customer facility via 69,000 V or above at the LP-5 rate schedule

- PPL Electric's general right and obligation to serve customers in its service territory, subject to the terms and conditions of its tariffs and certificate of public convenience.[1]

The Project as proposed represents the optimal solution that allows PPL Electric to serve the customer's load as well as maintain operational flexibility and system reliability.

Subject to the Commission's approval, construction of the TEK Park 138/69 kV Tap Lines will begin in August 2026 to support an in-service date of April 2027 ("Phase 1"). PPL Electric will own, operate, and maintain the new TEK Park 138/69 kV Tap Lines. The customer will construct, own, operate, and maintain the TEK Park Substation. The total estimated cost of Phase 1 of the Project, as described below, is approximately $2.7 Million. The customer is fully responsible for the cost of Phase 1 of the project.

Also subject to the Commission's approval, construction of the Breinigsville – TEK Park #1 & #2 138/69 kV Lines will begin in January 2027 to support an in-service date of June 2027 ("Phase 2"). PPL Electric will own, operate, and maintain the new Breinigsville – TEK Park #1 & #2 138/69 kV Lines. The total estimated cost of Phase 2 of the Project, as described below, is approximately $1.9 Million. PPL Electric is fully responsible for the cost of Phase 2 of the Project.

II. BACKGROUND

PPL Electric is a public utility that provides electric service to an estimated 1.5 million customers throughout 29 central and eastern Pennsylvania counties. The Company has a right and obligation to provide retail electric service in its service territory in a manner that is adequate, efficient, safe, reliable, and reasonable to meet the needs of the electric system and the expectations of its customers.

III. TRANSMISSION SYSTEM PLANNING PROCESS

The nation's interconnected transmission grid ("Transmission Grid") serves as the backbone for the safe and reliable delivery of large amounts of electricity from generating stations over substantial distances

[1] *See, e.g.*, 66 Pa.C.S. §§ 1103, 1501, 2802(12); 52 Pa. Code §§ 57.19; *Popowsky v. Pa. PUC*, 910 A.2d 38, 48-56 (Pa. 2006); *Pa. Gas Co. v. Pub. Serv. Comm'n*, 83 Pa. Super. 557, 565-66 (1924); *Philadelphia Transp. Co. v. Pa. PUC*, 37 A.2d 138, 147 (Pa. Super. 1944); *Application of Leatherstocking Gas Co., LLC, for Approval to Supply Natural Gas Serv. to the Pub. in N. Susquehanna Cnty., in the Twps. of Bridgewater, Forest Lake, Great Bend, Harmony, New Milford, and Oakland, and in the Boroughs of Great Bend, Hallstead, Lanesboro, Montrose, New Milford, Oakland and Susquehanna*, Docket No. A-2011-2275595, 2012 Pa. PUC LEXIS 1391, at *22 (Order entered Aug. 30, 2012).

to customers served by transmission and local distribution systems. It is critical that the Transmission Grid be planned and designed to ensure reliable electric service is provided under all loading conditions or when certain elements of the Transmission Grid are out of service (system contingencies) due to planned or unplanned outages.

Robust Transmission Planning assures that the transmission system can supply electricity to all customer loads in a manner that is reliable and economical. This System Planning process ensures that both the Bulk Electric System ("BES")[2] and non-Bulk Electric System (non-BES)[3] are planned and constructed so that they can:

- Accommodate forecasted system flows during summer and winter peak load;
- Adequately serve each customer's need regarding capacity, voltage, and reliability for all load levels throughout the daily load cycle;
- Sustain contingencies and disturbances with minimal customer service interruptions; and
- Conform to North American Electric Reliability Corporation ("NERC"), PJM Interconnection, LLC ("PJM"), and the Transmission Owner's reliability criteria for all normal and emergency operating conditions.

PJM is a Federal Energy Regulatory Commission ("FERC")-approved Regional Transmission Organization ("RTO") charged with ensuring the reliability of the electric transmission system under its functional control (100 kV and above) and coordinating the movement of electricity in all or parts of thirteen states and the District of Columbia, including Pennsylvania.

New load customers are covered under Attachment M-3 Procedure of the Open Access Transmission Tariff ("OATT")[4]. PPL Electric submits to PJM and presents the supplemental project assumptions and methodology yearly at the PJM Subregional Regional Transmission Extension Plan("RTEP") December

[2] Bulk Electric System (BES) – Includes transmission facilities operated at voltages of 100 kV or higher.
[3] Non-Bulk Electrical System (non-BES) – Includes transmission facilities operated at voltages less than 100 kV.
[4] PJM OPEN ACCESS TRANSMISSION TARIFF: https://www.pjm.com/directory/merged-tariffs/oatt.pdf

meeting[5]. The supplemental project driver of "Customer Service" is used for new customer requests. PPL Electric submits the project need information to PJM detailing the requested load amount, location, and in-service date. PPL Electric then presents the need at the next Transmission Expansion Advisory Committee ("TEAC") (>200 kV) or Subregional-RTEP (<200 kV) meeting. At a subsequent meeting, PPL Electric presents the proposed solution to serve the requested load. PPL Electric provides the solution files to PJM including changes to the network model, contingency changes, and short-circuit model changes. PJM then studies the proposed solution to ensure that the changes do no harm ("DNH") test to the system by creating overloads, voltage violations, or other criteria violations. PPL Electric will include in the solution any upgrades that are required to serve the customer load in the DNH case year. When the project passes the DNH test a supplemental project number is assigned and PPL Electric submits the project into the local plan. The project is then added into the RTEP model in the next case creation cycle. Any customer load increases above the DNH case year will be included in the PPL Electric's Load Forecast submission to PJM. The load increases are then incorporated into the RTEP case creation. Any overloads, voltage violations, or other criteria violations caused by the increase of load on PPL Electric's system are then resolved through the PJM Competitive Planning Process.

This Project has gone through the M-3 Supplemental Project Process and the DNH tests. The Project was assigned supplemental number 3556.

4.0 THE NEED FOR THE PROJECT

4.1 Existing System

The Breinigsville – West Trexlertown #1 & #2 138/69 kV lines are served from the Breinigsville Substation. The lines are part of PPL Electric's 69 kV system that serves PPL Electric's 69-12 kV substations and customer substations in the Upper Macungie Area. The Breinigsville – West Trexlertown #1 & #2 138/69 kV lines provide the source for the AT&T R&D customer substation and the PPL Electric-owned West Trexlertown 69-12 kV substation. The AT&T R&D 138/69 kV Tap Transmission Lines are connected to the Breinigsville – West Trexlertown #1 & #2 138/69 kV lines. The

[5] PPL 2024 Annual M-3 Project Assumptions and Methodology: https://www.pjm.com/-/media/committees-groups/committees/srrtep-ma/2023/20231213/20231213-item-05---2024-ppl-planning-assumptions.ashx

transmission lines are designed for 138 kV operation but currently energized at 69 kV. The Breinigsville – West Trexlertown #1 & #2 138/69 kV lines provide a radial source for the customer-owned AT&T R&D Substation and the PPL Electric-owned West Trexlertown 69-12 kV Substation. The Breinigsville – West Trexlertown #1 & #2 138/69 kV lines are in a radial configuration with only a tie directly outside Breinigsville Substation. In the event of an outage between Breinigsville and West Trexlertown, approximately 2,700 customers would be interrupted until repairs could be completed.

A diagram of the existing system configuration is provided as **Figure 1-1**.

4.2 Project Need

The existing customer (served from the AT&T R&D Substation) located in Upper Macungie Township is requesting a second 69 kV electrical service point with an in-service date of April 2027 and a final load of 100 MW. The customer is installing a second substation on their site to serve additional facility load. The new TEK Park 138/69 kV Tap Lines and the Breinigsville – TEK Park #1 & #2 138/69 kV Lines will be designed at 138 kV to allow for conversion from 69 kV to 138 kV to accommodate additional load growth. The customer's new substation will be designed for future 138-13.8 kV operation. The installation and load addition of the new customer-owned TEK Park Substation would result in the Breinigsville – West Trexlertown #1 & #2 138/69 kV exceeding PPL Electric's Planning Standard of no more than 60 MW of load on a radial 69 kV or 138 kV double circuit tap. Therefore, Phase 2 is required to make a loop arrangement that will allow for the transfer of load in the event of planned or unplanned outage.

5.0 ALTERNATIVES

PPL Electric performed an analysis to identify feasible and cost-effective solutions to best serve the customer, while minimizing impacts upon the local environment and surrounding community. As the existing AT&T R&D 138/69 kV Tap Transmission lines are already located on the customer's property, the least cost and least impactful solution was to tap and extend the existing transmission facilities. As for Phase 2, the Breinigsville 500-138-69 kV Substation is the nearest substation and has sufficient room for the new terminals required for the additional two 138/69 kV circuits. The Breinigsville – TEK Park

#1 & #2 138-69 kV Lines will be the shortest distance and require substantially less right-of-way ("ROW") than connecting to any other substation. This will have the least overall impact to landowners.

6.0 PROPOSED SOLUTION

To appropriately serve the customer and limit impacts to the local community, PPL Electric proposes to build approximately 0.5 miles of new double-circuit TEK Park 138/69 kV Tap Lines that are needed to connect the existing AT&T R&D 138/69 kV Tap Transmission Lines to the new TEK Park 138/69-13 kV Substation (Phase 1). The Phase 1 portion of the Project will be constructed entirely on the customer-owned parcel and the existing line work will be within existing PPL Electric ROW. PJM assigned Phase 1 of the project supplemental number S3556.1. A diagram of the proposed Phase 1 system alignment is provided as **Figure 1-3**.

The supplemental project (S3556) as accepted by PJM, also includes additional reinforcements of the 69 kV system around the Breinigsville 500-138-69 kV Substation. Under PJM supplemental number S3556.2 the new double-circuit Breinigsville – TEK Park #1 & #2 138/69 kV Lines will be constructed for approximately 0.75 miles from the Breinigsville Substation to the new TEK Park 138/69 kV Tap Lines. The customer load addition will result in the loading on the Breinigsville – West Trexlertown #1 & #2 138/69 kV lines exceeding the PPL Electric Planning Standard of 60 MW of load on a radial double circuit line. The proposed Phase 2 will increase the operational flexibility and resiliency of the 69 kV system and allow for future load growth. The new lines will allow for the approximately 2,700 customers that are currently radially fed from West Trexlertown 69-12kV substation, as well as the customer substations AT&T R&D and the future TEK Park, to be transferred for maintenance and unplanned outages. The Breinigsville – TEK Park #1 & #2 138/69 kV Lines will primarily utilize PPL Electric property, customer property, and existing ROW. In addition, the Company has already acquired the extra ROW necessary to construct these lines..

The proposed solution will allow PPL Electric to provide safe and reliable service to the customer while maintaining reliability of the regional transmission system. Additionally, this solution is the least impactful option to landowners and the local community. A diagram of the proposed Phase 2 system alignment is provided as **Figure 1-5**.

7.0 COST ALLOCATION

PPL Electric's policy governing cost allocation for large customer interconnections is grounded in long-standing tariff requirements and federal transmission principles that distinguish between customer-specific facilities and network facilities that provide broader system benefits. Customers taking service at 69 kV and above (LP-5 rate class) are generally responsible for the costs necessary to directly connect their facilities to the transmission system, while costs associated with upgrades that benefit other customers or the bulk electric system may be recovered through transmission rates.

The Company evaluates cost allocation for customer interconnection facilities on a case-by-case basis to determine whether they provide benefits to other customers or enhance overall system performance. Factors supporting recovery through transmission rates include, among other things, improved system reliability, increased transfer capability or congestion relief, enhanced asset condition, service to multiple customers or feeders, increased resilience and operational flexibility, and expanded capacity for future generation or interconnections.

PPL Electric has allocated $2.7 Million as the customer's responsibility to be paid through a contribution in aid of construction ("CIAC"). PPL Electric will recover the remaining $1.9 Million through its FERC Transmission Formula Rate. Additional detail on the upgrades being recovered through rates is provided in **Table 1** below:

Table 1: Cost Allocation Details for the TEK Park 138/69 kV Tap Project

#	Major Asset(s)	Justification	Rate Base Expense	Customer Reimbursed (CIAC)
1	Customer 138/69 kV Tap Lines" or "Tap Lines	Add new Tap off Existing ATTR 69kV Line. New Tap is dedicated to customer new point of interconnection.	No	Yes
2	Customer Substation	Customer Substation Equipment dedicated only to Customer feeds.	No	Yes
3	Breinigsville – TEK Park #1 & #2 138/69 kV	Project provides additional system capacity, resiliency, operation flexibility for over 2,700 customers with additional source lines. Adds to system reliability for all customer in the area and directly to multiple transmission customers.	Yes	No

Figure 1-1: Existing System Configuration

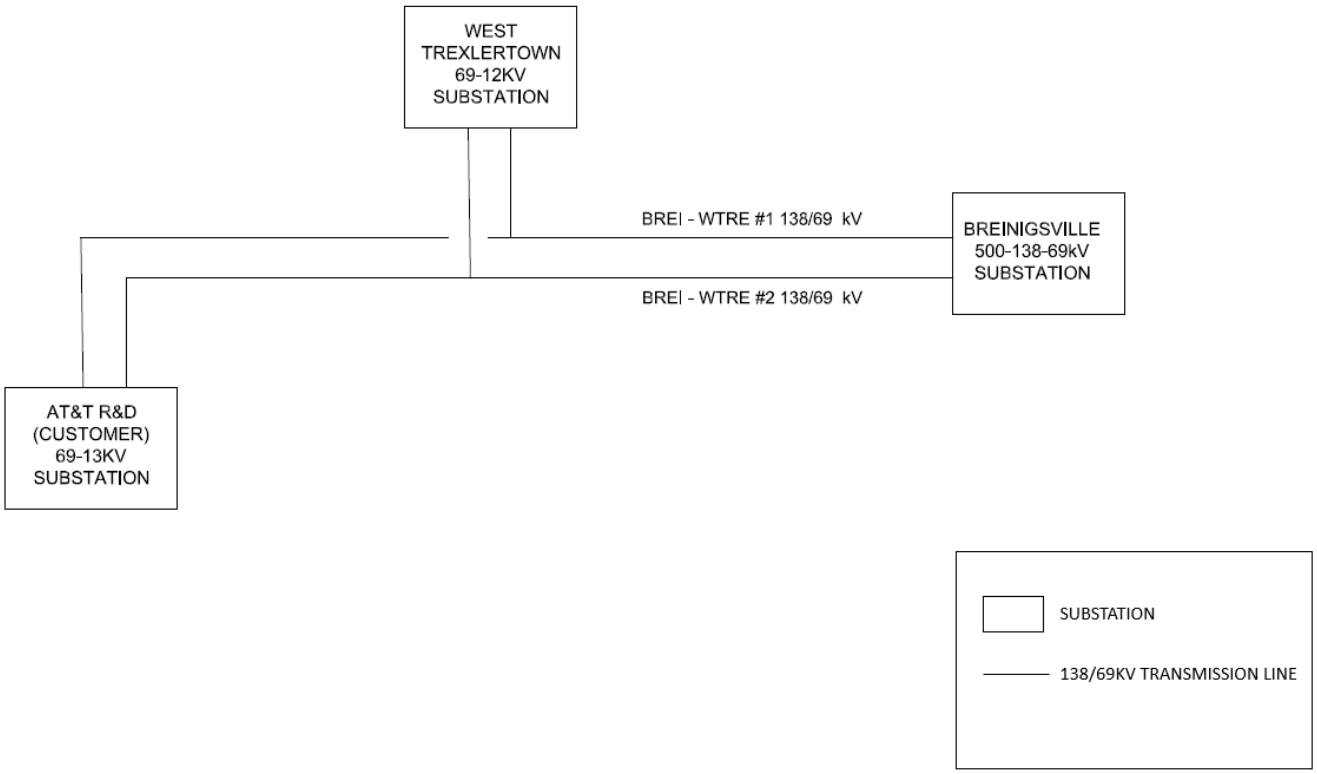
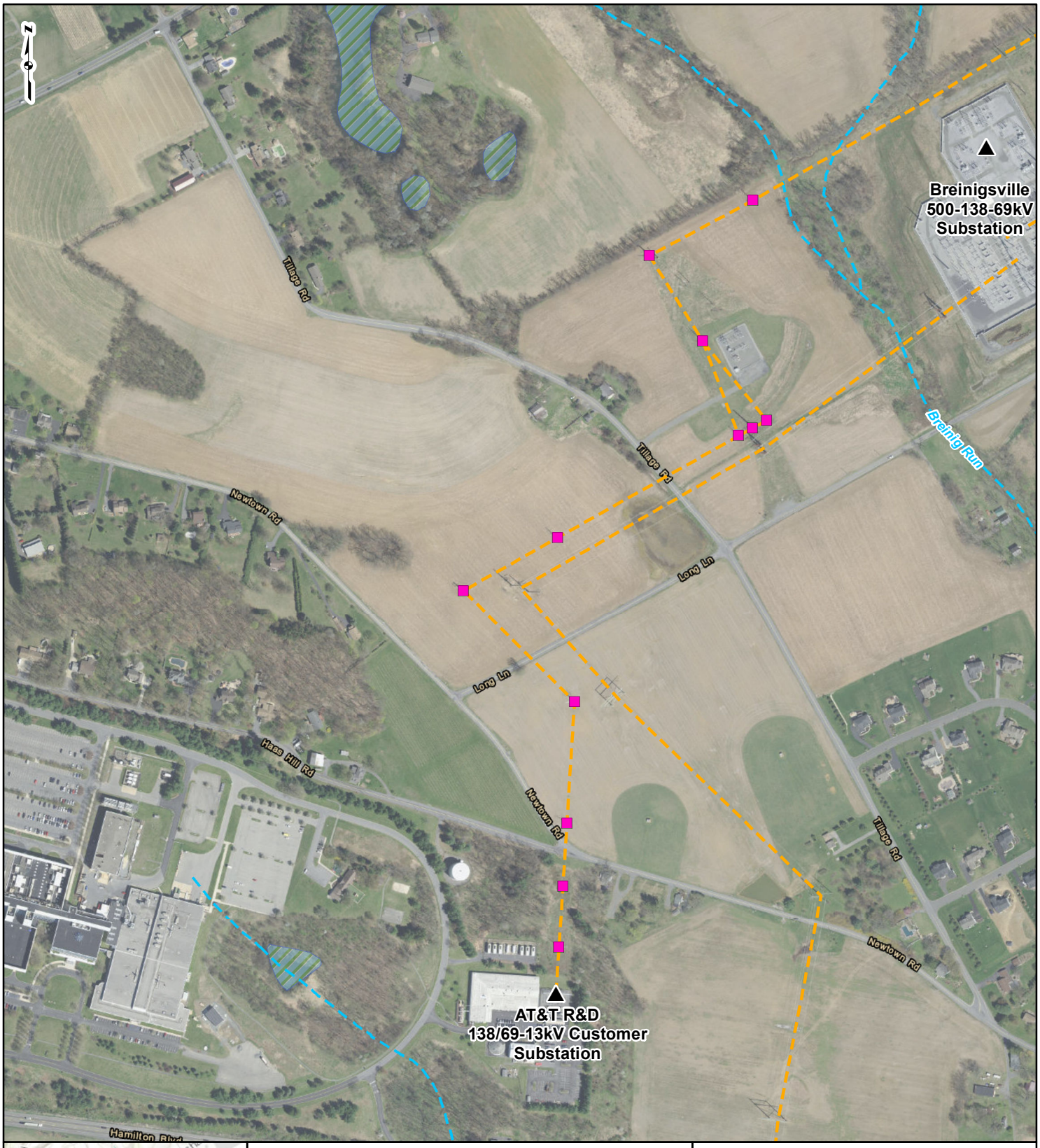
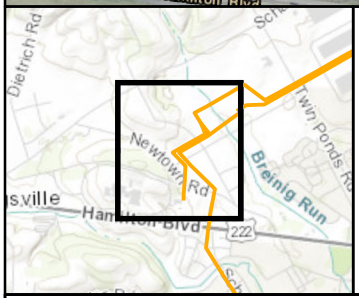


Figure 1-2: Existing Systems Map





LEGEND

- Existing Substation
- Existing Structure
- Existing Transmission
- NHD Stream
- NWI Wetland

0 250 500 1,000 Feet

FIGURE 1-2
EXISTING SYSTEMS MAP

TEK PARK
138kV TAP PROJECT
PPL SERVICES CORPORATION

DRAWN BY: MTS DATE: 3/3/2026
CHECKED: KJT APPROVED: NGP

REFERENCE: AERIAL IMAGERY, PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY (PEMA), 2018-2020, ACCESSED 03/2026. WORLD TRANSPORTATION, ESRI, ARCGIS ONLINE, ACCESSED 03/2026. NATIONAL HYDROGRAPHY DATASET (NHD) STREAMS, USGS, 2023. NATIONAL WETLAND INVENTORY (NWI) WETLANDS, USFWS, 2025.

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Figure 1-3: Proposed Phase 1 System Configuration

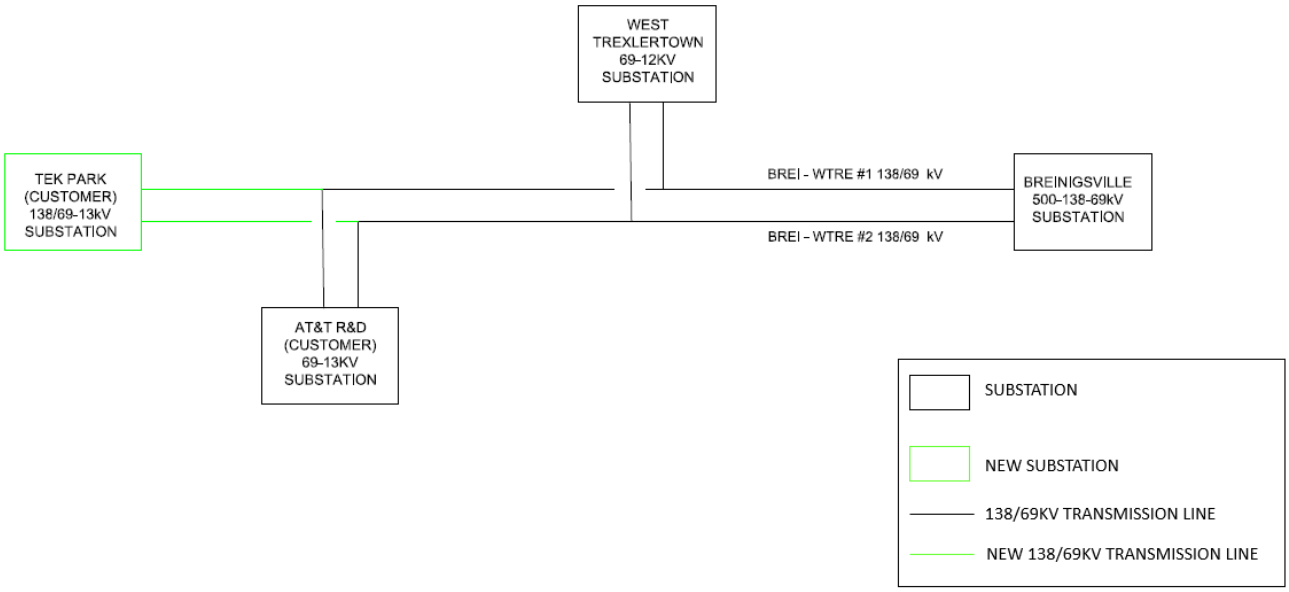
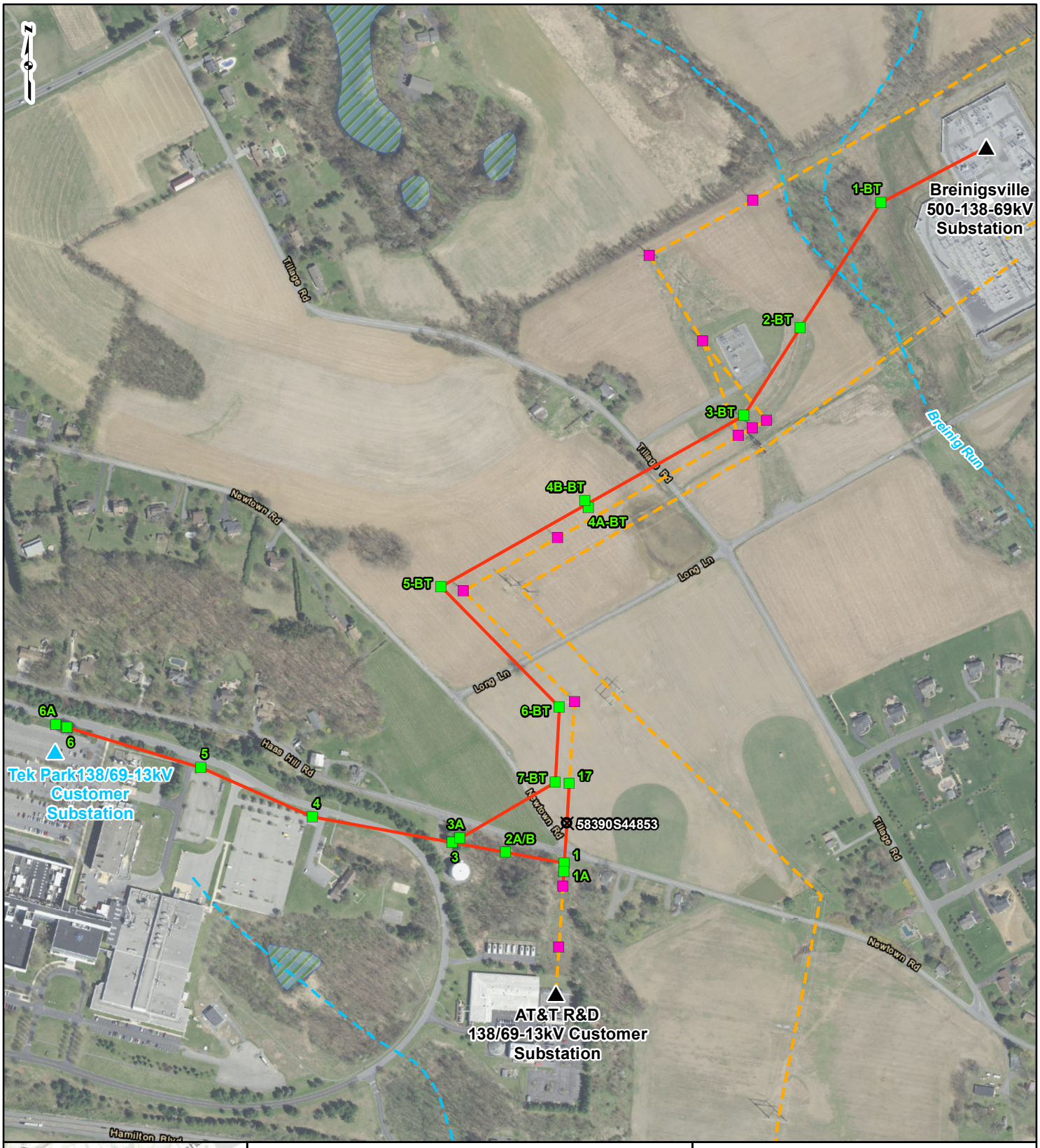
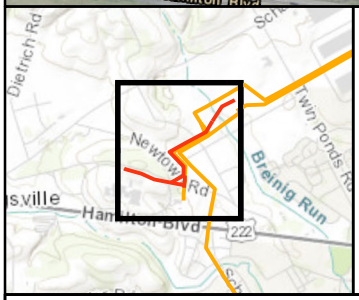


Figure 1-4: Proposed System Map





LEGEND

- Proposed Substation
- Existing Substation
- Proposed Structure
- Existing Structure To Be Removed
- Existing Structure To Remain
- Proposed New Transmission
- Existing Transmission
- NHD Stream
- NWI Wetland

0 250 500 1,000 Feet

FIGURE 1-4
PROPOSED SYSTEM MAP

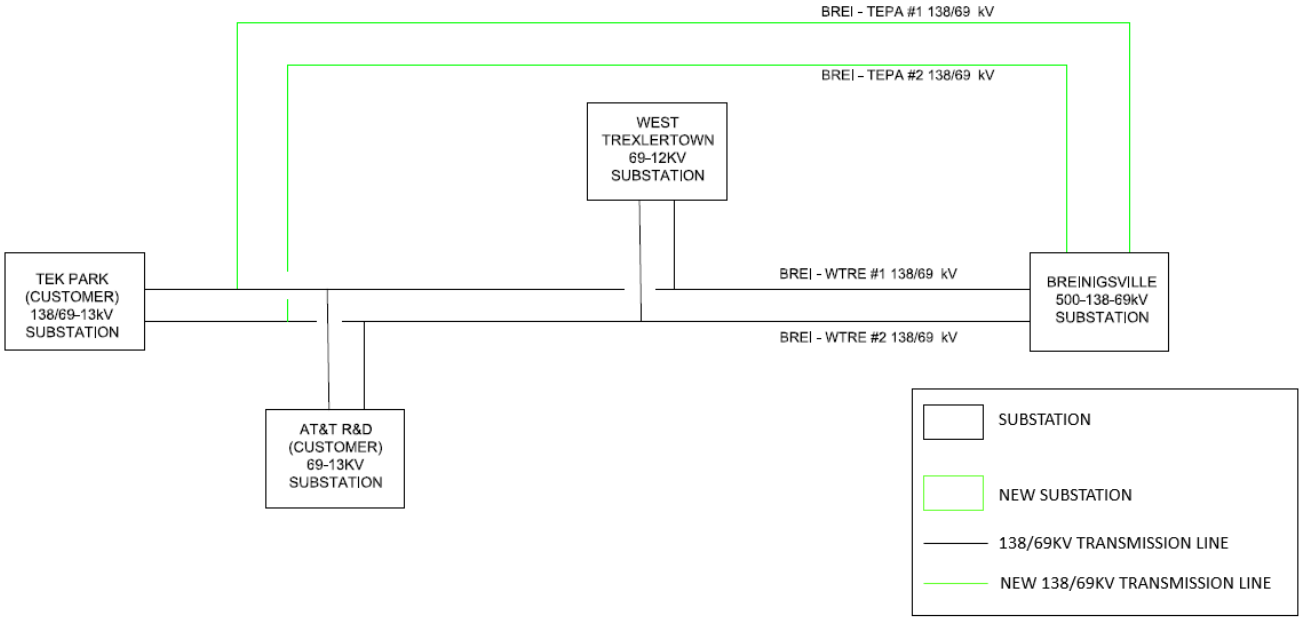
TEK PARK
138kV TAP PROJECT
PPL SERVICES CORPORATION

DRAWN BY: MTS DATE: 3/3/2026
CHECKED: KJT APPROVED: NGP

REFERENCE: AERIAL IMAGERY, PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY (PEMA), 2018-2020, ACCESSED 03/2026. WORLD TRANSPORTATION, ESRI, ARCGIS ONLINE, ACCESSED 03/2026. NATIONAL HYDROGRAPHY DATASET (NHD) STREAMS, USGS, 2023. NATIONAL WETLAND INVENTORY (NWI) WETLANDS, USFWS, 2025.

G:_2024\R241075.00 - GIS\MXD\LON\Fig1-4_Proposed_System_2026_03_03.mxd

Figure 1-5: Proposed Phase 2 System Configuration



Attachment 2

TEK PARK 138/69 KV TAP PROJECT

TABLE OF CONTENTS

List of Tables

List of Figures

1.0 INTRODUCTION

PPL Electric Utilities Corporation ("PPL Electric" or the "Company") seeks Pennsylvania Public Utility Commission ("PUC" or the "Commission") approval for a transmission upgrade needed to reliably serve significant new customer load in Upper Macungie Township, Lehigh County. The TEK Park 138/69 kV Tap Project will extend and reinforce existing transmission facilities to provide a second source of high-voltage service to an existing customer, ensure compliance with PPL Electric's planning standards, and preserve system reliability and operational flexibility as customer demand grows. The Project is more fully described in Attachment 1 – Necessity Statement. In total, there are 19 new structures proposed.

The proposed transmission line system will be designed according to, and generally exceed, all National Electrical Safety Code ("NESC") standards. Design specifications and safety rules adhered to by PPL Electric are included as **Attachment 4 – Design Criteria and Safety**.

2.0 DESCRIPTION OF THE EXISTING AND PROPOSED LINES AND STRUCTURES

The TEK Park 138/69 kV Tap Lines are proposed to be approximately 0.5 miles of new double-circuit 138 kV transmission taps to connect the AT&T R&D 138/69 kV Tap Transmission Lines to the new TEK Park 138/69-13 kV Substation. The arrangement also includes two overhead ground wires ("OHGW"). These conductors and ground wires will be supported by a series of transmission line structures that include 10 steel monopole structures. One existing structure (Structure 17) and two spans of conductor will be replaced on the AT&T R&D 138/69 kV Tap Transmission Lines to accommodate the new line connection.

The new Breinigsville – TEK Park #1 & #2 138/69 kV Lines are proposed to be approximately 0.75 miles of new double-circuit 138/69 kV transmission lines to connect the Breinigsville 500-138-69 kV Substation to the new TEK Park 138/69 kV Tap Lines. The arrangement also includes two OPGW. These conductors and ground wires are supported by a series of transmission line structures that include 8 steel monopole structures.

A detailed map of the Project alignment is provided as **Figure 3-1 in Attachment 3 – Description of Project Area**.

The proposed steel monopole structures range in height from between approximately 56 and 111 feet with an average structure height of approximately 87 feet for the Tek Park 138/69 kV Tap Line, and range in height from between 81 and 126 feet with an average structure height of approximately 107 feet for the Breinigsville – Tek Park #1 & #2 138 kV Lines. **Table 2-1** provides a summary of the number and heights of the proposed structures.

Table 2-1: Existing and New Transmission Line Structures

Transmission Line	No. of Existing Structures	Existing Structure Height Range (feet)	Proposed No. of New Structures	Proposed Structure Height Range (feet)	Applicable Framing/ Specifications
AT&T R&D 138/69 kV Tap Lines	1	75	1	106	7-008-004
TEK Park 138/69 kV Tap Lines	0	N/A	10	56-111	7-006-001 7-008-006 7-009-008 7-008-013
Breinigsville – TEK Park #1 &#2 138/69 kV Lines	0	N/A	8	80-125	7-008-001 7-008-004 7-006-002
Total	**1**		**19**		

Figures 2-1 through 2-4 depict typical structure types that will be used for the Tek Park 138/69 kV Tap Project. These include the following:

- Install approximately 2 new single circuit steel pole tension on pole MOLBAB structure (**Figure 2-1**).
- Install approximately 6 new double circuit steel pole tension on arms structure (**Figure 2-2**).
- Install approximately 3 new double circuit steel pole tap tension on arms structure (**Figure 2-3**).
- Install approximately 2 new double circuit steel pole 0° to 40° restrained angle suspension structure (**Figure 2-4**).
- Install approximately 3 new single circuit steel pole DCT tension on pole structure (**Figure 2-5**).

- Install approximately 1 new long span double circuit steel pole tension structure (**Figure 2-6**).
- Install approximately 2 new motor operated load break air break (MOLBAB) structure (**Figure 2-7**).

PPL Electric has designed the Project so that it fits primarily within existing PPL Electric property, PPL Electric ("ROW"), or the customer's property. In addition, the Company has already acquired the extra ROW necessary to construct these lines.

The proposed Tek Park 183kV Tap Lines and Breinigsville Tek Park #1 & #2 138 kV Lines will each consist of six (6) 795 kcmil, 30/19 stranding, "Mallard" Aluminum Conductor Steel Reinforced ("ACSR") conductors. The minimum conductor-to-ground clearance will be 23.6 feet which occurs at the emergency maximum thermal conductor temperature of 125°C (257°F). The design minimum conductor clearances and conductor thermal ratings for the reconstructed lines are noted in **Tables 2-2 and 2-3**.

Table 2-2: Design for Minimum Conductor Clearance for 795 kcmil, 30/19 Mallard ACSR

Condition	Transmission Double-Circuit Design Clearance-to-Ground
Heavy Ice (1" ice at -9.4°C ambient temperature)	23.6'
Predicted Extreme Thermal Load (125°C conductor temperature)	23.6'
Predicted Blowout (6 psf, 15.6°C ambient temperature)	10'

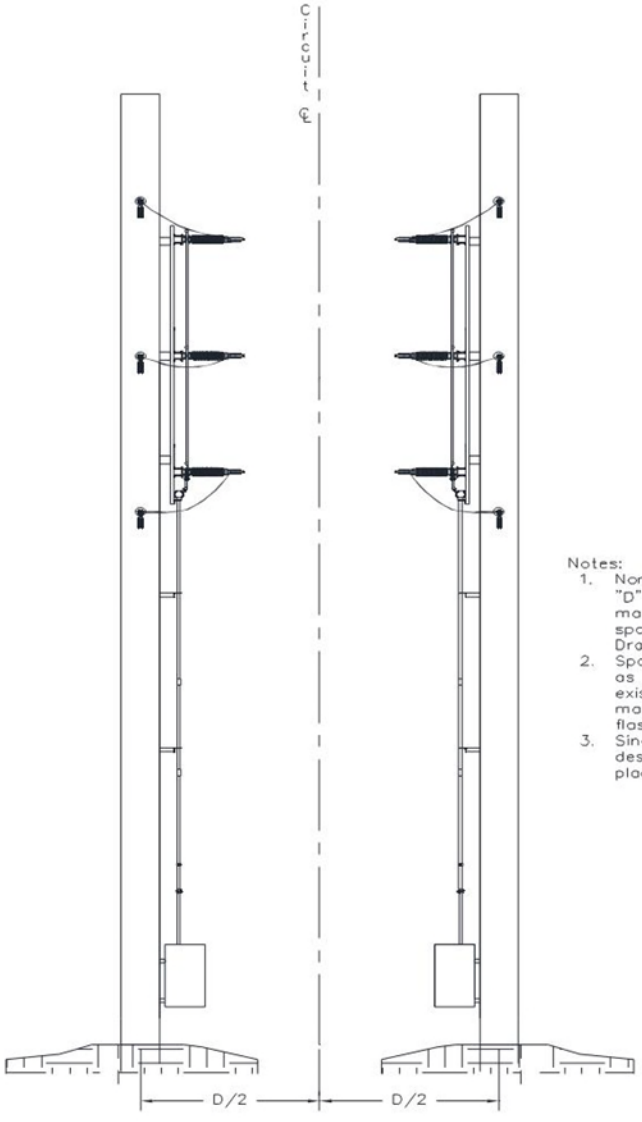
Table 2-3: Conductor Thermal Rating 795 kcmil 30/19 Mallard ACSR– 125°C Normal Maximum Conductor Temperature

Condition	Ambient Temperature (°C)	Wind Speed (ft/sec)	Ampacity (Amps)
Summer Normal	35	0	1058
Winter Normal	10	0	1220
Summer Emergency	35	2.533	1350
Winter Emergency	10	2.533	1521

Figure 2-1: Typical 69 kV Motor Operated Load Break Air Break (MOLBAB)

PPL Electric Utilities	**7-006-001** 69kV Motor Operated Load Break Air Break (MOLBAB)	Revision: 02 Effective Date: 4/28/2023 Sheet 3 of 18

Double Circuit Arrangement:



Notes:
1. Nominal minimum spacing "D" = 24'–0". Engineer may specify alternate spacing on Job Specific Drawings.
2. Spacing shall be increased as necessary if replacing existing structure to maintain MAD and flashover clearances.
3. Single–circuit–ultimate designs will typically be placed on centerline.

Figure 2-2: Typical 115/138 kV Double Circuit Steel Pole Tension on Arm Structure

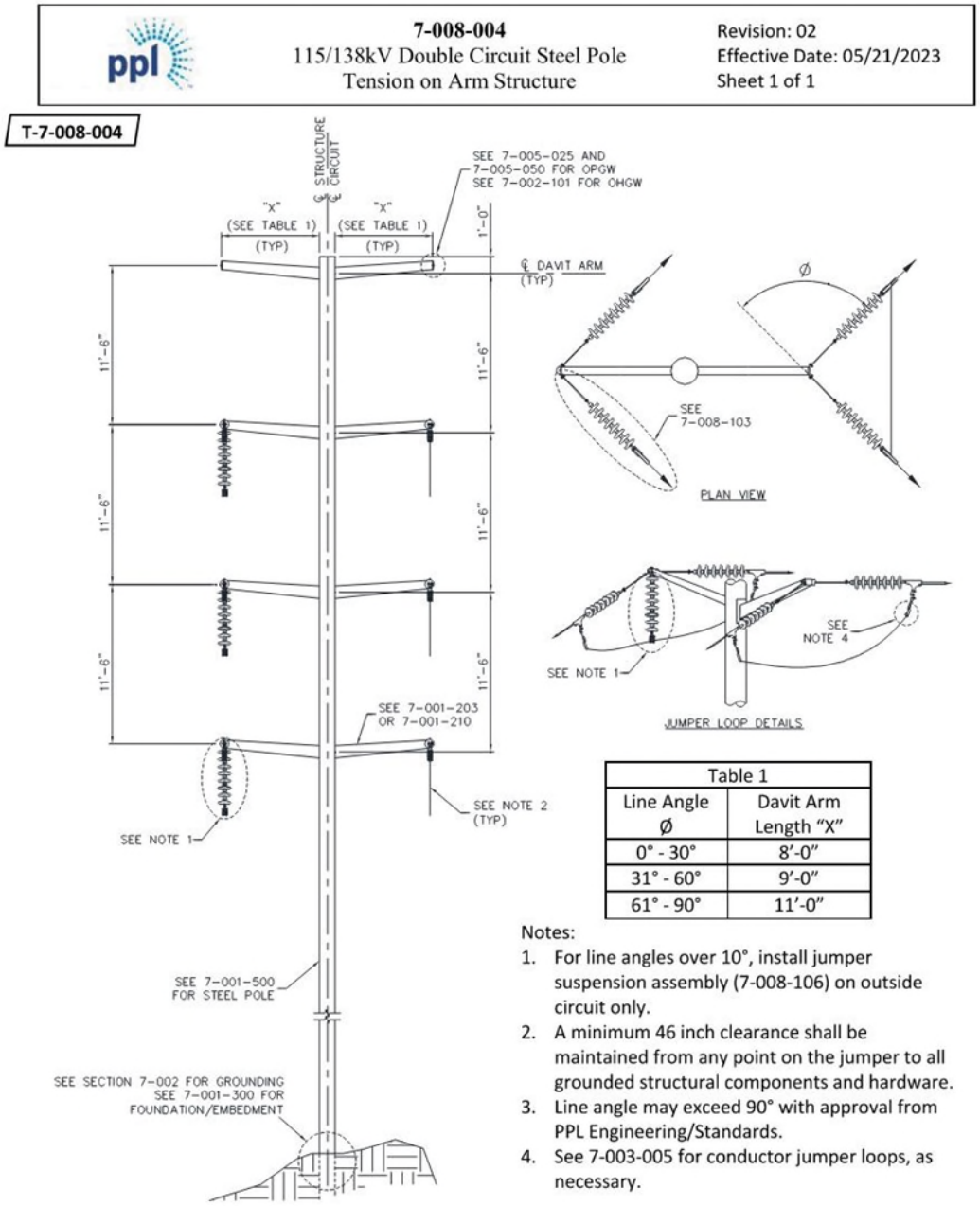


Table 1	
Line Angle Ø	Davit Arm Length "X"
0° - 30°	8'-0"
31° - 60°	9'-0"
61° - 90°	11'-0"

Notes:

1. For line angles over 10°, install jumper suspension assembly (7-008-106) on outside circuit only.
2. A minimum 46 inch clearance shall be maintained from any point on the jumper to all grounded structural components and hardware.
3. Line angle may exceed 90° with approval from PPL Engineering/Standards.
4. See 7-003-005 for conductor jumper loops, as necessary.

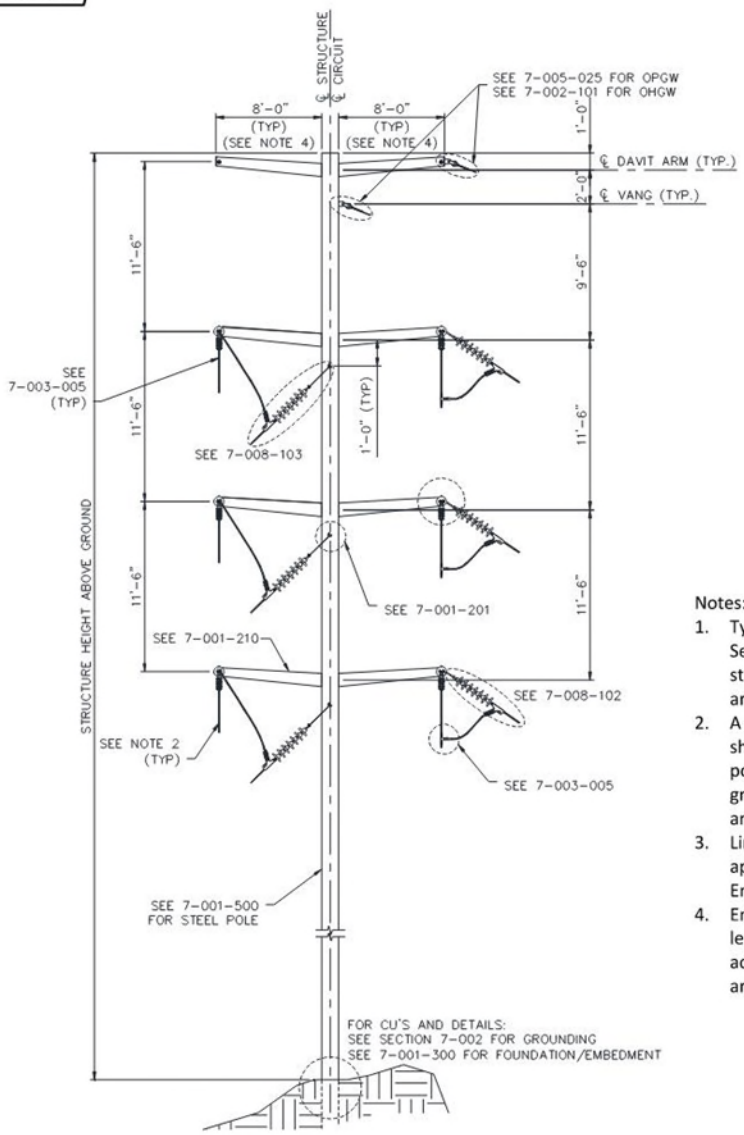
Rev	Date	ECN	Sponsor	Reviewer	Transmission Construction Standards PPL Corporate
00	03/18/2016	ECN-6316	MSD	SDS	
01	03/11/2022	ECN-15806	JAK	KEL	Approved: Kyle Supinski
02	05/21/2023	ECN-16828	JMB	JFK	Manager T&S Standards

Approved: E171459 Pepper, Maxwell Huntington

Figure 2-3: Typical 115/138 kV Double Circuit Steel Pole 0º to 90º Tap Structure

ppl	**7-008-006** 115/138kV Double Circuit Steel Pole 0° to 90° Tap Structure	Revision: 01 Effective Date: 05/21/2023 Sheet 1 of 2

T-7-008-006

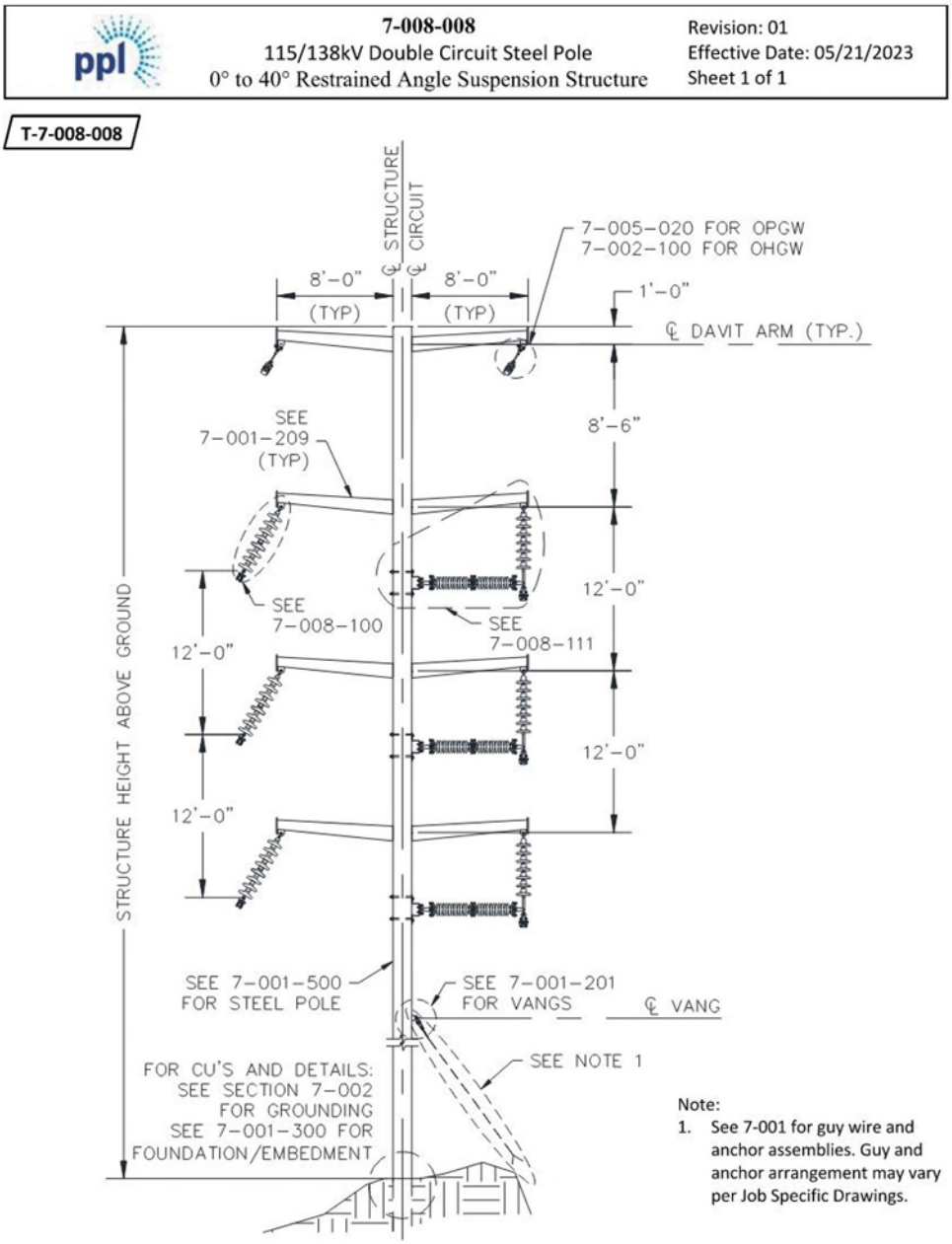


Notes:
1. Typical shield wire layout shown. See Job Specific Instructions for structure specific shield wire arrangement.
2. A minimum 46 inch clearance shall be maintained from any point on the jumper to all grounded structural components and hardware.
3. Line angle may exceed 90° with approval from PPL Engineering/Standards.
4. Engineer may increase arm length as necessary to accommodate specific line arrangement.

Rev	Date	ECN	Sponsor	Reviewer	Transmission Construction Standards PPL Corporate
00	09/30/2020	ECN-XXXX	JAK	MSD	
01	05/21/2023	ECN-16828	JMB	JFK	Approved: Kyle Supinski Manager T&S Standards

~~Approved: E171459 Pepper, Maxwell Huntington~~

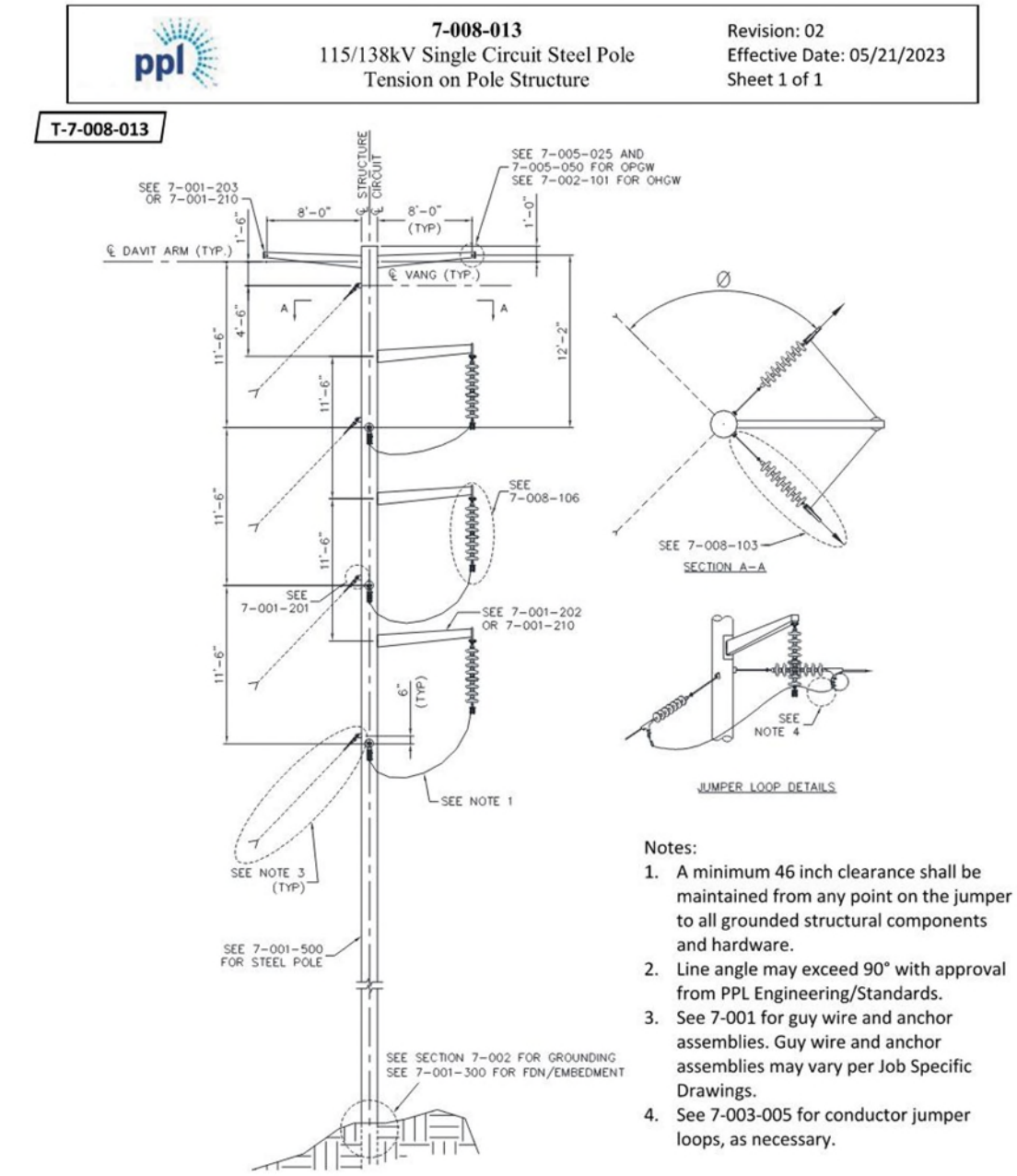
Figure 2-4: Typical 115/138 kV Double Circuit Steel Pole 0º to 40º Restrained Angle Suspension Structure



Rev	Date	ECN	Sponsor	Reviewer	Transmission Construction Standards PPL Corporate
00	09/30/2020	ECN-XXXX	JAK	MSD	
01	05/21/2023	ECN-16828	JMB	JFK	Approved: Kyle Supinski
					Manager T&S Standards

Approved: E171459 Pepper, Maxwell Huntington

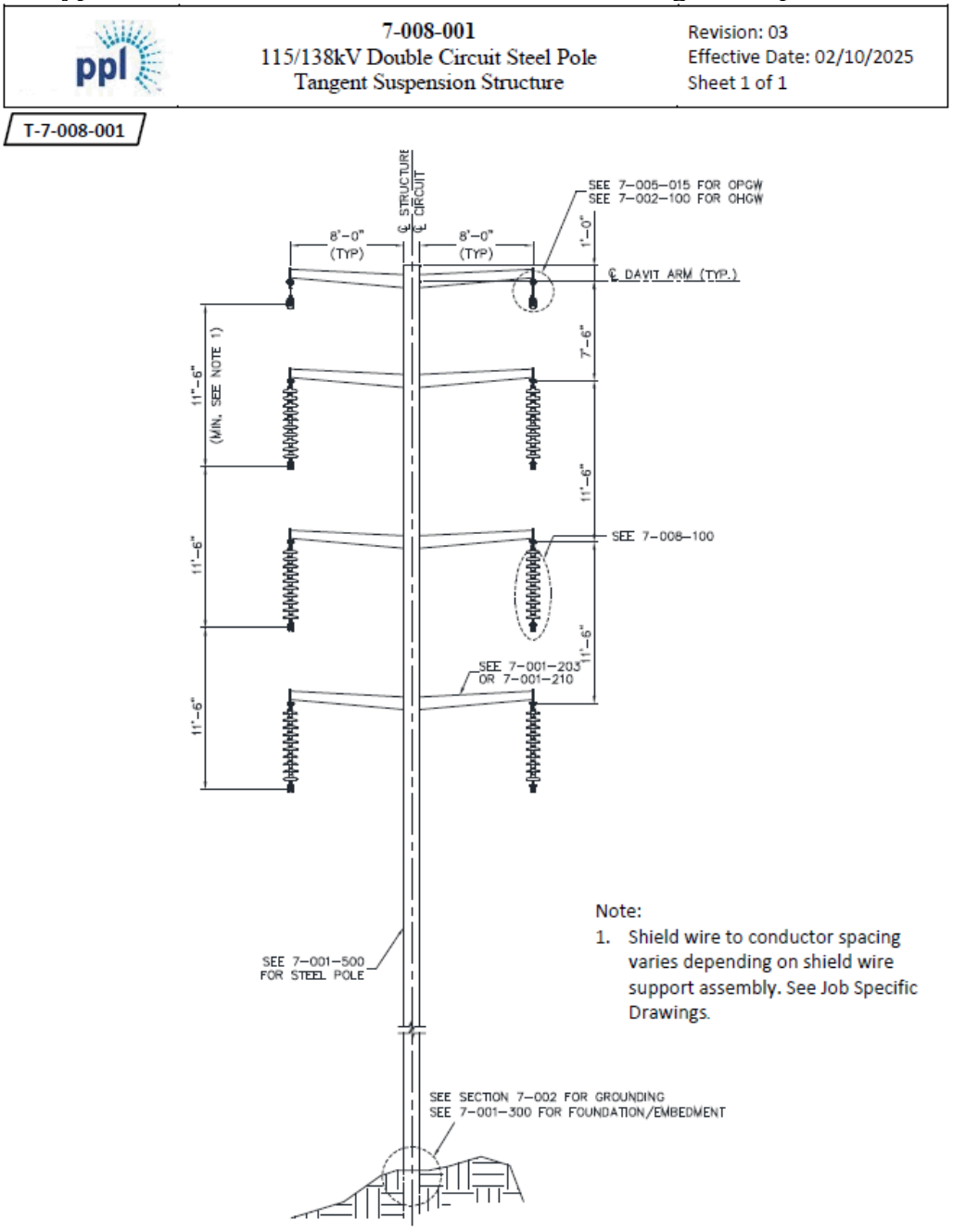
Figure 2-5: Typical 115/138 kV Single Circuit Steel Pole Tension on Pole Structure



Rev	Date	ECN	Sponsor	Reviewer	Transmission Construction Standards PPL Corporate
00	03/18/2016	ECN-6316	MSD	SDS	
01	03/11/2022	ECN-15806	JAK	KEL	Approved: Kyle Supinski
02	5/21/2023	ECN-16828	JMB	JFK	Manager T&S Standards

Approved: E171459 Pepper, Maxwell Huntington

Figure 2-6: Typical 115/138 kV Double Circuit Steel Pole Tangent Suspension Structure



Rev	Date	ECN	Sponsor	Reviewer	Transmission Construction Standards
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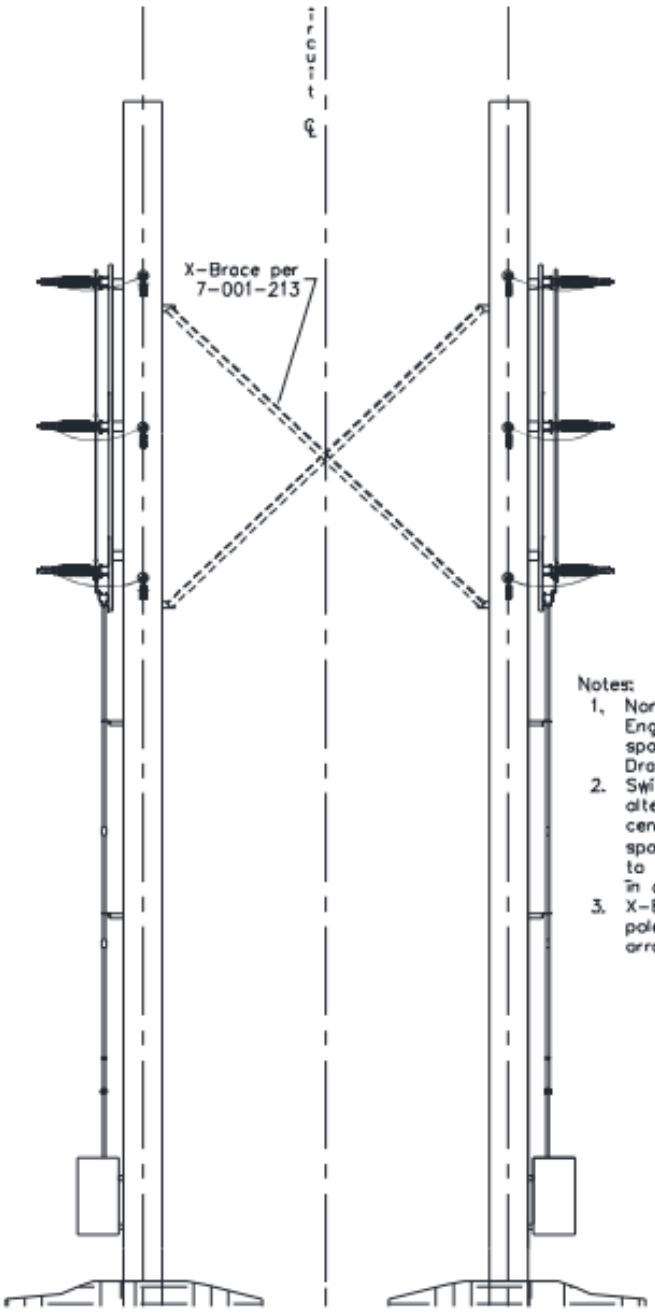
01	02/14/2022	ECN-15222	JAK	KEL	Approved: Maxwell Pepper
02	05/21/2023	ECN-16828	JMB	JFK	Supervisor T&S Standards
03	02/10/2025	ECN-19004	SMS	CMG	

Approved: E171459 Pepper, Maxwell Huntington

Figure 2-7: Typical 138/115 kV Motor Operated Load Break Air Break (MOLBAB)

ppl	**7-006-002** 138/115kV Motor Operated Load Break Air Break (MOLBAB)	Revision: 00 Effective Date: 6/28/2024 Sheet 3 of 12

Double Circuit Arrangement:



Notes:
1. Nominal spacing "D" = 14'-0". Engineer may specify alternate spacing on Job Specific Drawings.
2. Switch orientation may be altered to locate switch on centerline side of pole. Pole spacing "D" shall be increased to account for energized switch in open position.
3. X-Brace to be installed unless pole spacing or switch arrangement does not allow.

Attachment 3

TEK PARK 138/69 KV TAP PROJECT

TABLE OF CONTENTS

List of Figures

1.0 INTRODUCTION

PPL Electric Utilities Corporation ("PPL Electric" or the "Company") seeks Pennsylvania Public Utility Commission ("PUC" or the "Commission") approval for a transmission upgrade needed to reliably serve significant new customer load in Upper Macungie Township, Lehigh County. The TEK Park 138/69 kV Tap Project will extend and reinforce existing transmission facilities to provide a second source of high-voltage service to an existing customer, ensure compliance with PPL Electric's planning standards, and preserve system reliability and operational flexibility as customer demand grows. The Project is more fully described in **Attachment 1 – Necessity Statement**.

The TEK Park 138/69 kV Tap Lines ("TEK Park Tap Lines" or "Tap Lines") will extend west approximately 0.5 miles from the existing AT&T R&D 138/69 kV Tap Transmission Lines to the new customer-owned Tek Park 138/69-13 kV Substation. The Tap Lines are located entirely on customer-owned property.

Additionally, the Breinigsville – TEK Park #1 & #2 138/69 kV Lines will extend approximately 0.25 miles from Structure 3/3A on the TEK Park 138/69 kV Tap Lines north to Structure 5-BT before turning northeast and extending 0.5 miles to Breinigsville 500-138-69 kV Substation. This line will be located within five parcels. One of these parcels is owned by PPL Electric and the other four parcels required additional right-of-way ("ROW") for new or expanded easements. The Company has finalized these acquisitions and all necessary ROW has been acquired. Existing access roads or temporary roads will be utilized during the construction of the Tap Lines. Land use in this area is a mix of agricultural and developed land as shown in **Figure 3-1**. Nineteen new structures will be constructed as part of the Project.

2.0 LAND USE

PPL Electric evaluated the existing land uses on the customer owned property within the proposed ROW, and within 0.25 mile (1,320 feet) of the ROW ("Project Area"). This broader Project Area was reviewed to provide a sense of the landscape in which the Project is located. Based on review of 2024 aerial photography, the Project Area consists of approximately 70% agriculture, 20% developed commercial/industrial agriculture and the remaining 10% comprised of forested land.

The Project crosses four public roads: Haas Hill Road, Newtown Road, Long Lane, and Tillage Road. The Project does not cross any, railroads or natural gas pipelines. The Project is located adjacent to other PPL Electric electrical utility ROWs near the West Trexlertown 69-12 kV Substation.

The closest active airport relative to the Project Area is the Allentown Queen City Municipal Airport, which is located approximately 8.25 miles East of the Project. The AT&T Solid State Tech Center Heliport is located approximately 0.3 miles southwest of the western terminus of the Project. PPL Electric does not anticipate any interference with airport operations because the Project is located in an area where there are existing electrical facilities. However, PPL Electric will comply with any applicable requirements of the Federal Aviation Administration and the Pennsylvania Department of Transportation, Bureau of Aviation.

Conserved Lands

The proposed Project will not affect any national parks, state parks, local parks, recreational areas, natural landmarks, or conserved lands, therefore no impact to these resources are anticipated.

3.0 CULTURAL RESOURCES

PPL Electric collected information on previously recorded cultural resources, including National Register of Historic Places ("NRHP")-listed properties, archaeological sites, and architectural and historical resources mapped within a 3.21-kilometer (km) (2-mile [mi]) buffer of the Site. Information was collected through a review of the PA State Historic Preservation Office's ("PA SHPO") Pennsylvania's Historic and Archaeological Resource Exchange ("PA-SHARE"). This review identified eight (8) NRHP eligible above ground individual architectural resources, four (4) NRHP eligible above ground district resources, and five (5) NRHP eligible archaeological resources

The eight previously recorded above ground resources consist of five houses, three farmsteads, two individual farm districts, one historic district, and one rural historic district (**Table 1**). Of these above ground resources, two individual architectural resources are within the Study Area. Resource 1989RE00808 is a late eighteenth-century single-family dwelling located at 9281 Schantz Road. Resource 1990RE00618 is a late eighteenth-century farmstead located at 928 Adams Road. Of the other architectural resources, one (1990RE00919) dates from the late

eighteenth century, three (1990RE01068, 2000RE01133, 2015RE00611) date from the early nineteenth century, and one (1990RE00485) dates from the early twentieth century. Two of the districts are within the Study Area. Resource 1990RE00273, a nineteenth century farm along Newtown Road, was recorded as a district and is completely contained by the Study Area. Resource 2017RE03491 is an expansive eighteenth–twentieth century rural historic district to the west and only partially extends into the Study Area. The other two districts, located to the east (1990RE00832) and the north (2025RE02594), date from the nineteenth–early twentieth century and are outside the Study Area.

Three of the archaeological sites are within the Study Area. Resources 1981RE01138 and 1981RE01429 are precontact period sites containing lithic artifacts located in the middle of the Study Area; although 1981RE01429 is noticeably more extensive and extends southeast outside the Study Area. The other archaeological site extending into the Study Area is Resource 2006RE02717, a historic period farmstead at the north edge of the Study Area. The other two archaeological sites, Resources 1976RE01364 and 1982RE01505, are precontact period lithic scatters outside the Study Area.

Table 1. Previously Recorded Above Ground Resources within a 3.21-km (2-mi) radius of the Project.

Resource ID #	Name	Type	NRHP Status
1989RE00808	Meitzler, Conrad, House	1798	Eligible
1990RE00272	Breinig, Jacob, House	Circa 1800	Eligible
1990RE00485	1906 House	1906	Eligible
1990RE00618	Farmstead No. 928	Circa 1780	Eligible
1990RE00919	Gross, Edwin, House	Circa 1790	Eligible
1990RE01068	Mosser, Charles II, House	Circa 1820	Eligible
2000RE01133	Miller, Jonathan, Farmstead	Circa 1830	Eligible
2015RE00611	Grim Seidel Farm	Circa 1808	Eligible
1990RE00273	Solomon Stettler Farm District	Circa 1800 – circa 1850	Eligible
1990RE00832	Samuel Grim (Farmstead) Historic District	Circa 1800 – circa 1920	Eligible

Resource ID #	Name	Type	NRHP Status
2017RE03491	Richmond-Maxatawny Rural Historic District	1740-1960	Eligible
2025RE02594	Haafsville Historic District	Circa 1855 - circa 1930	Eligible
1976RE01364	36LH0003	Precontact	Eligible
1981RE01138	36LH0039	Precontact	Eligible
1981RE01429	36LH0042	Precontact	Eligible
1982RE01505	36LH0120	Precontact	Eligible
2006RE02717	36LH0311	Historic	Eligible
1989RE00808	Meitzler, Conrad, House	1798	Eligible

4.0 NATURAL FEATURES

Unique Natural Features

No unique geological, scenic, or natural areas are located within the Project Area, according to the Pennsylvania Department of Conservation and Natural Resources ("PADCNR").

Soils

The Project Area consists of gently rolling terrain with minor topography changes. Topography in the area ranges from approximately 480 feet above sea level ("abs") to approximately 580 feet abs at the western terminus of the Project. Soils present within the Project Area consist of mainly silt loams with small pockets of gravely silt loams.

Erosion and Sedimentation ("E&S") control plans will be developed and implemented for the Project to minimize the displacement of soils. These plans will require prior approval from the local county conservation districts. A National Pollutant Discharge Elimination System ("NPDES") permit will also be obtained from the Pennsylvania Department of Environmental Protection ("PADEP") as needed. During construction, PPL Electric will adhere to all conditions specified in the NPDES permit. Impacts to local soil resources are anticipated to be minimal.

Waterways

Review of the United States Geological Survey ("USGS") National Hydrography Dataset mapping indicated that the Project will span Breining Run and an Unnamed Tributary to Breining Run. The Project Area is located within the Little Lehigh Creek watershed (USGS Hydrologic Unit Code ("HUC") 0204010607) This watershed generally flows east toward the Delaware River.

The streams in the Project review Area have a PADEP Chapter 93 Designated Use Stream Classification of High Quality-Cold Water Fishes ("HQ-CWF"). All streams within the Project review Area are also recognized as Wild Trout and Migratory Fish ("MF") waters. No direct impact to these stream features is anticipated by the Project activities.

An E&S control plan will be developed to address stormwater control in all areas of earth disturbance associated with the Project. PPL Electric will obtain all approvals and permits necessary for the construction of the Project and will comply with any conditions placed on those permits.

Wetlands

Based on review of the U.S. Fish and Wildlife Service's ("USFWS") National Wetlands Inventory ("NWI"), the Project does not cross any mapped wetlands.

The NWI only provides a general overview of the potential wetlands that may be located within an area. For federal and state permitting purposes, the wetlands and waterways within the Project will be delineated, surveyed, and illustrated according to regulatory standards. This information is being used to minimize wetland and waterway impacts where feasible. Additionally, PPL Electric will avoid impacts to wetlands and waterways where possible by aerially spanning these features.

100-year Floodplains

The National Flood Hazard Layer for Bucks County, Pennsylvania was obtained through the Federal Emergency Management Agency ("FEMA") Flood Map Service Center website and analyzed for 100-year floodplains within the Project Area and surrounding landscape. Based on review of this data, the Project does not span any FEMA 100-year floodplains, therefore no impacts to floodplain areas are anticipated by the proposed Project activities.

Vegetation

Vegetative cover in the Project Area consists of a mix of forest, agricultural use and developed areas. The existing ROW areas for the tap lines have previously been cleared of woody vegetation. The portion of the Project requiring new ROW will involve minimal tree clearing as part of its construction. If vegetation management is required as part of the Project, PPL Electric will apply its "Specifications for Transmission Vegetation Management LA-79827" to minimize potential impacts.

5.0 THREATENED AND ENDANGERED SPECIES

Natural Areas Inventory

Based on review of the *Natural Areas Inventory of Lehigh and Northampton Counties, Pennsylvania*, published by The Nature Conservancy in 2013, two Pennsylvania Natural Heritage Program identified natural areas, the Little Lehigh Grasslands Core Habitat and Supporting Landscape, are crossed by the Project. The Nature Conservancy describes these areas as a landscape dominated by active agriculture with row crops, hay fields and some fallow areas.

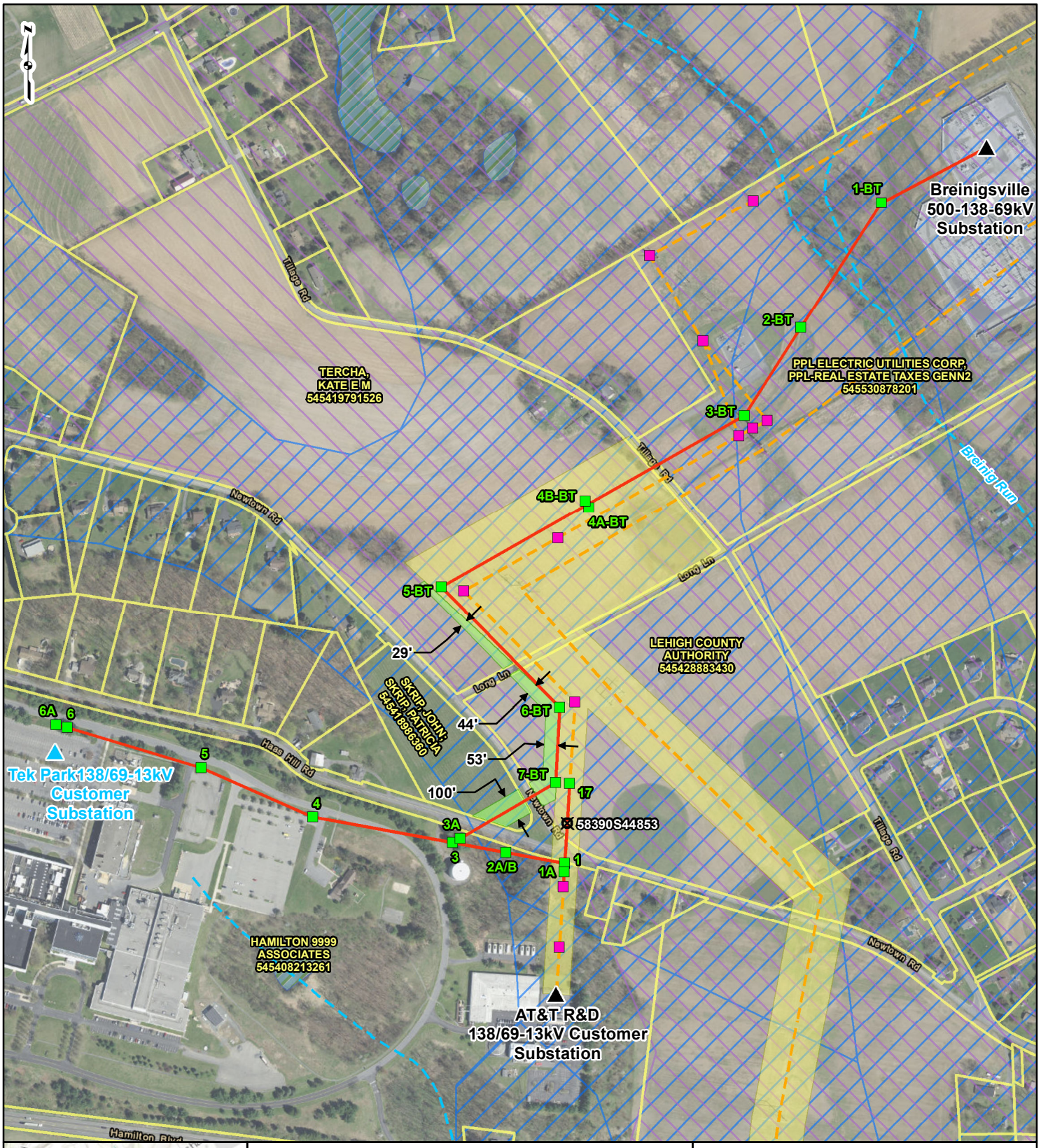
Threatened and Endangered Species

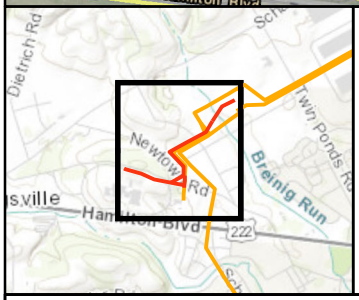
A Pennsylvania Natural Diversity Inventory ("PNDI") review was completed on October 17, 2024 for the Tek Park 138/69 kV Tap, and on January 5, 2026 for the Breinigsville – Tek Park #1 & #2 138/69 kV Lines, to assess the potential presence of threatened and endangered species and/or special concern species in the Project area. The PNDI receipts are provided in **Figure 3-2**. Specific agencies to review the Project through the PNDI process include the following:

- Pennsylvania Game Commission ("PGC");
- Pennsylvania Fish and Boat Commission ("PFBC");
- PDCNR; and
- USFWS.

The PGC, PDCNR, and USFWS all indicated there would be no known impacts to protected species under their jurisdiction. The PFBC indicated the potential for impacts to a "sensitive species" under its jurisdiction and further consultation with the agency is required. PPL Electric will complete all required surveys, obtain all necessary approvals and permits for Project construction, and comply with all conditions placed on those permits.

Figure 3-1: Aerial Map of the Project





LEGEND

- Proposed Substation
- Existing Substation
- Proposed Structure
- Existing Structure To Be Removed
- Existing Structure To Remain
- Proposed New Transmission
- Existing Transmission
- Existing ROW
- Proposed ROW
- NHD Stream
- NWI Wetland
- Parcel Boundary
- Little Lehigh Grasslands
- Potential Karst

0 250 500 1,000 Feet

FIGURE 3-1
AERIAL MAP

TEK PARK
138kV TAP PROJECT
PPL SERVICES CORPORATION

DRAWN BY: MTS DATE: 3/3/2026
CHECKED: KJT APPROVED: NGP

REFERENCE: AERIAL IMAGERY, PENNSYLVANIA EMERGENCY MANAGEMENT AGENCY (PEMA), 2018-2020, ACCESSED 03/2026. WORLD TRANSPORTATION, ESRI, ARCGIS ONLINE, ACCESSED 03/2026. NATIONAL HYDROGRAPHY DATASET (NHD) STREAMS, USGS, 2023. NATIONAL WETLAND INVENTORY (NWI) WETLANDS, USFWS, 2025.

G:_2024\R241075.00 - GIS\MXD\LON\Fig3-1_Aerial_2026_03_03.mxd

Figure 3-2: Pennsylvania Natural Diversity Inventory Receipts

Pennsylvania State Historic Preservation Office
PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

December 4, 2024

Sent Via PA-SHARE

RE: ER Project # 2024PR05574.001, Tek Park 138/69kV New Tap Project, Department of Environmental Protection, Upper Macungie Township, Lehigh County

Dear Submitter,

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources
No Above Ground Concerns - Environmental Review - No Effect - Above Ground

Based on the information received and available within our files, it is our opinion that the proposed project will have No Effect on above ground historic properties, including historic buildings, districts, structures, and/or objects, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact Sara-Ladd Manley at samanley@pa.gov.

Archaeological Resources
No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns regarding archaeological resources, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Casey Hanson at chanson@pa.gov.

Sincerely,

Barbara Frederick
Environmental Review Division Manager

Figure 3-3: Pennsylvania State Historic Preservation Office Clearance Letter

1. PROJECT INFORMATION

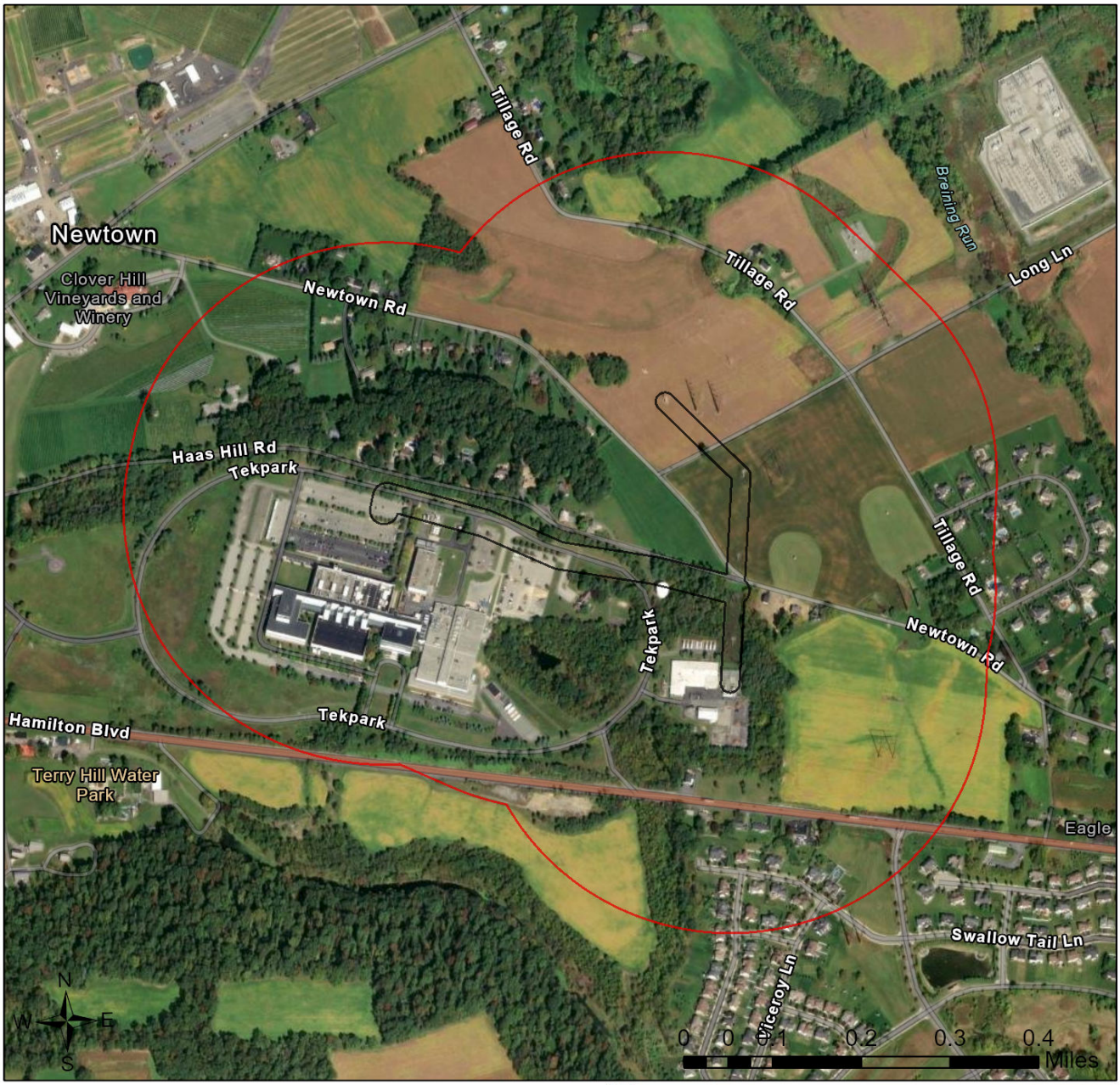
Project Name: **Tek Park 138-69kV Tap Project**
Date of Review: **10/17/2024 10:16:57 AM**
Project Category: **Energy Storage, Production, and Transfer, Energy Transfer, Power/electric line - New (new location for above/under-ground line)**
Project Area: **11.13 acres**
County(s): **Lehigh**
Township/Municipality(s): **UPPER MACUNGIE TOWNSHIP**
ZIP Code:
Quadrangle Name(s): **TOPTON**
Watersheds HUC 8: **Lehigh**
Watersheds HUC 12: **Spring Creek**
Decimal Degrees: **40.545684, -75.652095**
Degrees Minutes Seconds: **40° 32' 44.4626" N, 75° 39' 7.5434" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Tek Park 138-69kV Tap Project

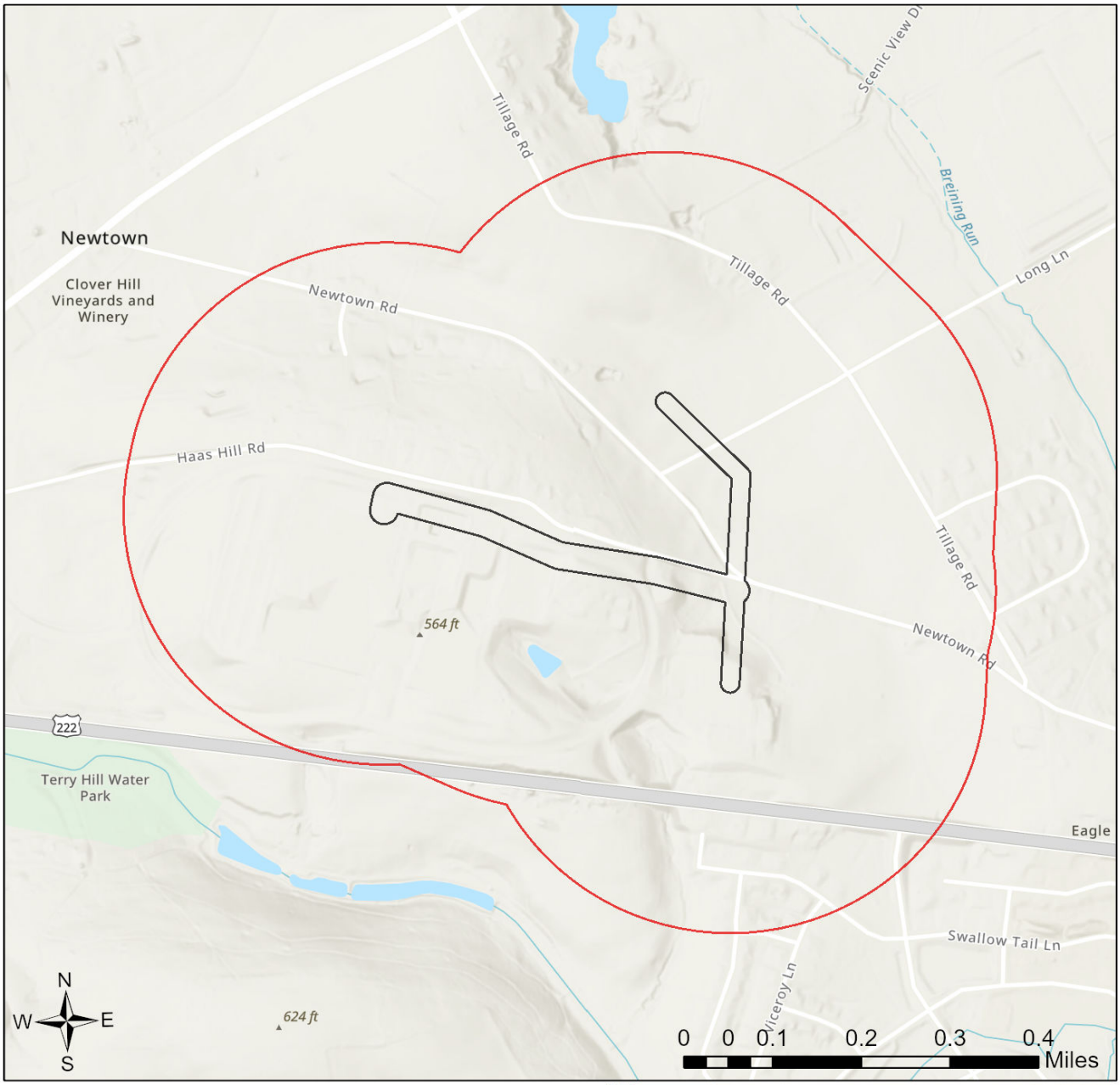


Buffered Project Boundary

Project Boundary

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

Tek Park 138-69kV Tap Project



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.
Your answer is: Someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience) has investigated the site, and determined that NO wetlands are located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

Q2: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).
Your answer is: The project will affect 1 to 39 acres of forests, woodlots and trees.

Q3: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?
Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission
RESPONSE:
Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
_X_Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
_X_A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
_X_**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
_X_Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
_X_Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Eric W. Beaver
Company/Business Name: PPL Electric Utilities Corporation
Address: 1639 Church Road
City, State, Zip: Allentown, PA 18104-9342
Phone:(570-) 368-5215 Fax:( )
Email: EWBeaver@pplweb.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

_____ _____
applicant/project proponent signature date

pennsylvania
FISH AND BOAT COMMISSION

November 8, 2024

IN REPLY REFER TO
SIR# 60510

Woodland Design Associates, Inc.
Emily Wood
119 Lincoln Street
Honesdale, Pennsylvania 18431

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 822634_1
Tek Park 138-69kV Tap Project
Upper Macungie Township: LEHIGH County

Dear Emily Wood:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish and Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish and Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Kathy Gipe at 814-359-5186 or c-kgipe@pa.gov and refer to the SIR # 60510. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Christopher A. Urban, Chief
Natural Diversity Section

CAU//KDG/dn

1. PROJECT INFORMATION

Project Name: **Breinigsville-Tek Park New 138/69kV Line Project**
Date of Review: **1/5/2026 02:35:24 PM**
Project Category: **Energy Storage, Production, and Transfer, Energy Transfer, Power/electric line - New (new location for above/under-ground line)**
Project Area: **17.66 acres**
County(s): **Lehigh**
Township/Municipality(s): **Upper Macungie Township**
ZIP Code:
Quadrangle Name(s): **TOPTON**
Watersheds HUC 8: **Lehigh**
Watersheds HUC 12: **Spring Creek**
Decimal Degrees: **40.549257, -75.647116**
Degrees Minutes Seconds: **40° 32' 57.3238" N, 75° 38' 49.6180" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	**Conservation Measure**	**No Further Review Required, See Agency Comments**
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

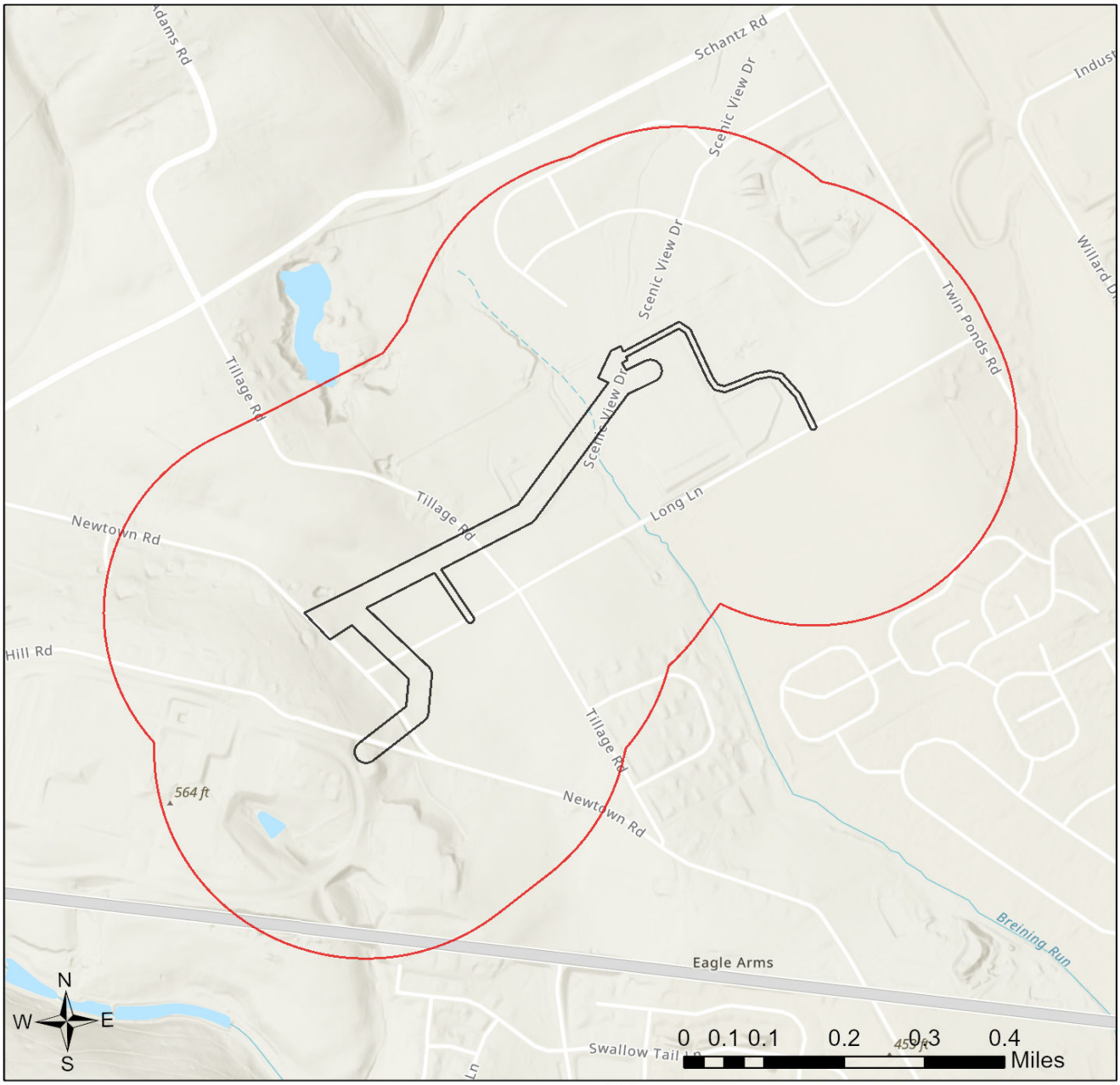
Breinigsville-Tek Park New 138/69kV Line Project

Buffered Project Boundary

Project Boundary

Sources: Esri, Vantor, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

Breinigsville-Tek Park New 138/69kV Line Project



Buffered Project Boundary

Project Boundary

Sources: Esri, Vantor, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

RESPONSE TO QUESTION(S) ASKED

Q1: Will the action include disturbance to trees such as tree cutting (or other means of knocking down, or bringing down trees, tree topping. or tree trimming), pesticide/herbicide application or prescribed fire?
Your answer is: No

Q2: Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, culverts, or tunnels that could provide habitat for hibernating bats?
Your answer is: No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE:

Conservation Measure: Potential impacts to state and federally listed species which are under the jurisdiction of both the Pennsylvania Game Commission (PGC) and the U.S. Fish and Wildlife Service may occur as a result of this project. As a result, the PGC defers comments on potential impacts to federally listed species to the U.S. Fish and Wildlife Service. No further coordination with the Pennsylvania Game Commission is required at this time.

PA Department of Conservation and Natural Resources
RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission
RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must submit their project using IPaC, following the USFWS Project Submission Instructions. USFWS will not accept or review project materials uploaded via the Conservation Explorer.

Check-list of Minimum Materials to be submitted:
____Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
____A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
____Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Eric W. Beaver
Company/Business Name: PPL Electric Utilities Corporation
Address: 1639 Church Road
City, State, Zip: Allentown, PA 18104-9342
Phone: (570) 368-5215 Fax: ( )
Email: EWBeaver@pplweb.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

_____ _____
applicant/project proponent signature date

Attachment 4

TEK PARK 138/69 KV TAP PROJECT

TABLE OF CONTENTS

List of Tables

1.0 DESIGN CONSIDERATIONS

PPL Electric Utilities Corporation's ("PPL Electric") new and rebuilt transmission lines are designed according to, and generally exceed, all National Electric Safety Code ("NESC") minimum standards. The NESC is a set of rules guiding safety standards during the installation, operation, and maintenance of electric power lines. The NESC contains the basic provisions considered necessary for the safety of employees and the public. Although it is not intended as a design specification, its provisions establish minimum design requirements. PPL Electric has developed design specifications and safety rules which meet or surpass all requirements specified by the NESC.

The NESC includes loading requirements and clearances for the design, construction, and operation of power lines. The "loads" on conductors and supporting structures are the mechanical forces that develop from the weight of the conductors, the weight of ice on the conductors, plus wind pressure on the conductors and supporting structures. Loading requirements are the loads on the conductors and structures that are anticipated assuming certain ice and wind conditions. Loading requirements always contain "safety factors" to allow for unknown or unanticipated contingencies. The clearances and loading requirements contained in the NESC are designed to maintain public safety.

The NESC specifies strength and loading rules based on three different "grades of construction" for conductors and supporting structures:

- Grade B – This grade of construction provides the highest margin of safety and is required when the pole supports spans that cross limited access highways, railroads, and waterways.
- Grade C – This grade of construction is most common and provides a basic margin of safety. It is often utilized for the typical power and joint-use distribution pole.
- Grade N – This is the lowest grade of construction and is most often used for emergency and temporary construction.

PPL Electric designs all its transmission lines for Grade B construction. The use of Grade B design and construction translates to higher levels of structural reliability and safety to withstand the environmental conditions of ice and/or wind loading.

PPL Electric's rigorous design standards are further incorporated into the parameters utilized to account for ice and wind loadings on the wires and structure. Structure loading and line designs

must accommodate a variety of operating conditions as different ice and wind combinations can impact the conductor sags and tensions of the line. PPL Electric's transmission lines are designed to exceed NESC requirements by accounting for additional load cases due to various ice and wind loading conditions beyond what is required by NESC. This means that PPL Electric lines are designed to operate safely and reliably during extreme inclement weather. In addition, PPL Electric design standards include a clearance to ground buffer in excess of NESC required clearances to account for construction and design tolerances and the filling or grading of land within the right-of-way by property owners. This buffer also significantly reduces the risk of a property owner inadvertently contacting a transmission line. This has occurred on PPL Electric's system in the past and higher clearances minimize the likelihood of future occurrences.

TABLE 4-1: 69 kV Vertical Clearance to Ground

Surface Underneath Conductors	NESC Standard Clearance	PPL Conductor Clearances
Roads, streets, and other areas subject to truck traffic	19.2 Ft.	22.2 Ft.
Other land traversed by vehicles such as cultivated grazing, forest, orchards, etc.	19.2 Ft.	22.2 Ft.
Spaces and ways subject to pedestrians or restricted traffic only	15.2 Ft.	22.2 Ft.
Track rails of railroads (except electrified railroads using overhead trolley conductors)	27.2 Ft.	30.2 Ft.

TABLE 4-2: 138 kV Vertical Clearance to Ground

Surface Underneath Conductors	NESC Standard Clearance	PPL Conductor Clearances
Roads, streets, and other areas subject to truck traffic	20.6 Ft.	23.6 Ft.
Other land traversed by vehicles such as cultivated grazing, forest, orchards, etc.	20.6 Ft.	23.6 Ft.
Spaces and ways subject to pedestrians or restricted traffic only	16.6 Ft.	23.6 Ft.
Track rails of railroads (except electrified railroads using overhead trolley conductors)	28.6 Ft.	31.6 Ft.

TABLE 4-3: 230 kV Vertical Clearance to Ground

Surface Underneath Conductors	NESC Standard Clearance	PPL Conductor Clearances
Roads, streets, and other areas subject to truck traffic	22.5 Ft.	25.5 Ft.
Other land traversed by vehicles such as cultivated grazing, forest, orchards, etc.	22.5 Ft.	25.5 Ft.
Spaces and ways subject to pedestrians or restricted traffic only	18.5 Ft.	25.5 Ft.
Track rails of railroads (except electrified railroads using overhead trolley conductors)	30.5 Ft.	33.5 Ft.

TABLE 4-4: 500 kV Vertical Clearance to Ground

Surface Underneath Conductors	NESC Standard Clearance	PPL Conductor Clearances
Roads, streets, and other areas subject to truck traffic	28.4 Ft.	31.4 Ft.
Other land traversed by vehicles such as cultivated grazing, forest, orchards, etc.	28.4 Ft.	31.4 Ft.
Spaces and ways subject to pedestrians or restricted traffic only	24.4 Ft.	31.4 Ft.
Track rails of railroads (except electrified railroads using overhead trolley conductors)	36.4 Ft.	39.4 Ft.

A relay protection system is also used on PPL Electric's transmission lines to protect public safety, as well as the equipment on the transmission system. The purpose of relay protection is to automatically de-energize the line in the unlikely event that the line or supporting structure fails and the line contacts the ground.

2.0 PERIODIC MAINTENANCE PROGRAM ON ALL TRANSMISSION LINES

To ensure continued public safety and integrity of service, a periodic maintenance and inspection program is implemented for every transmission line. The program is administered using helicopter patrols, with supplemental foot patrols as needed. Helicopter patrols are performed on all lines on a predetermined frequency, depending on voltage level. The two-man helicopter crew flies parallel to and above the line so that the observer can look for signs of line damage or deterioration and observe clearances between vegetation and conductors. The observations are included in a report that is forwarded to the appropriate department for corrective action.

3.0 PERSONNEL SAFETY RULES

Overall, PPL Electric designs and constructs projects with high regard to both public and employee safety and follows or exceeds all codes and requirements. The following are a few examples of PPL Electric's safety rules that demonstrate its dedication to employee and contractor safety:

- Procedures have been developed to allow work to be performed on energized facilities in a safe manner. When lines or apparatus are removed from service to be worked on, the Energy Control Process system is applied. This system provides that a red tag must be physically placed on the control handle of the de-energized equipment.
- The red tag may be removed only after proper authorization to energize the equipment has been received.
- Various other tags are used for limited operations and informational purposes.
- Employees or contractors will not apply or remove a tag or change the status of tagged equipment unless authorized.
- Temporary safety grounds are used on de-energized facilities for employee lineman safety during maintenance, construction, or reconstruction work. Safety grounds are wires connecting the de-energized facility to an electrical ground. If the facility should be

energized, the safety grounds will divert the current directly to ground and reduce the likelihood of personal injury.

- Before applying grounds, a voltage test is performed to confirm that the line is de-energized. The voltage test device is checked before and after use to assure reliability.
- Poles or structures are inspected and examined for structural integrity before climbing. If there is any reason to believe that a pole is unsafe, it is stabilized before work is performed. Appropriate safety gear in the form of body belts, safety straps, hard hats, gloves, etc., is worn by linemen during line work activity.

4.0 MAGNETIC FIELD MANAGEMENT PLAN

PPL Electric's Magnetic Field Management Program is applied to new and reconstructed transmission line projects. Although there is no current scientific evidence demonstrating that magnetic fields cause any adverse health effects or pose a health or safety threat to the public, PPL Electric has established a policy to design its new and rebuilt transmission lines to reduce magnetic fields. To lower magnetic field exposures, the program generally prescribes the use of a line design that provides ground clearances higher than the required minimum NESC ground clearance and reverse phasing of new double circuit lines where it is feasible to do so at low or no cost. The implementation of additional modifications to reduce magnetic field levels is considered, provided those modifications can be made at low or no cost and will not interfere with the operation of the line.

The Company's Magnetic Field Management Program will be applied to this Project and the Project will be designed with clearances that are at least three feet higher than NESC standards.

Attachment 5

TEK PARK 138/69 kV TAP PROJECT

STATE AGENCIES

Pennsylvania Bureau of Investigation and Enforcement
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
2nd Floor, Room-N201
Harrisburg, Pennsylvania 17120
Attn: Allison Kaster, Director and Chief Prosecutor

Pennsylvania Department of Environmental Protection
400 Market Street
10th Floor Rachel Carson State Office Building
Harrisburg, Pennsylvania 17101
Attn: Regional Permit Coordination Office

Pennsylvania Department of Transportation
Keystone Building
400 North Street, Fifth Floor
Harrisburg, Pennsylvania 17120
Attn: Jeffrey M. Spotts, Chief Counsel

Pennsylvania Historical and Museum Commission
Bureau for Historic Preservation
Commonwealth Keystone Building, Second Floor
400 North Street
Harrisburg, Pennsylvania 17120-0053
Attn: Ms. Andrea MacDonald, Bureau Director / Deputy State Historic Preservation Officer

Pennsylvania Department of Conservation and Natural Resources
Rachel Carson State Office Building
400 Market Street
Harrisburg, Pennsylvania 17105-8767
Attn: Rebecca Bowen, Ecological Services Section Chief

Pennsylvania Game Commission
2001 Elmerton Avenue
Harrisburg, Pennsylvania 17110-9797
Attn: Dr. Matthew Schnupp, Director, Bureau of Wildlife Management

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

Pennsylvania Office of Consumer Advocate
555 Walnut Street
5th Floor Forum Place
Harrisburg, Pennsylvania 17101-1923
Attn: Darryl A. Lawrence, Consumer Advocate

Pennsylvania Office of Small Business Advocate
555 Walnut Street
1st Floor Forum Place
Harrisburg, Pennsylvania 17101
Attn: NazAarah Sabree, Small Business Advocate

FEDERAL AGENCIES

U.S. Army Corps of Engineers
Philadelphia District Corporate Communication Office
1650 Arch Street
Philadelphia, PA 19103-2004
Attn: Planning Division

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

COUNTY AGENCIES

Lehigh Valley Planning Commission
615 Waterfront Drive, Suite 201
Allentown, PA 18102

Lehigh County Conservation District
4184 Dorney Park Road
Allentown, PA 18104

MUNICIPALITIES

Upper Macungie Township
8330 Schantz Road
Breinigsville, Pennsylvania 18031
Attn: Jeff Fleischaker, Chairman

LANDOWNERS

HAMILTON 9999 ASSOCIATES 8220 21ST AVENUE BROOKLYN, NY 11214-2561	LEHIGH COUNTY AUTHORITY PO BOX 3348 ALLENTOWN, PA 18106-0348
KATE E M TERCHA 2048 TERCHA ROAD FOGELSVILLE, PA 18051-2030	JOHN AND PATRICIA SKRIP 9850 NEWTON ROAD BREINIGSVILLE, PA 18031-1808
PPL ELECTRIC UTILITIES CORPORATION TWO NORTH NINTH STREET ALLENTOWN, PA 18101-1179	

VERIFICATION

I, JOSEPH B. LOOKUP, being the Vice President – Transmission & Distribution Planning and Asset Management at PPL Services 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 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: May 1, 2026

Joseph B. Lookup