

U.S. DEPARTMENT OF ENERGY

## ENVIRONMENTAL QUESTIONNAIRE

### I. INSTRUCTIONS

The proposer shall prepare this Environmental Questionnaire (EQ) as accurately and completely as possible. Supporting information can be provided as attachments. The proposer must identify the location of the project and specifically describe the activities that would occur at that location. The proposer must provide specific information and quantities, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. In addition, the proposer must submit with this EQ a FINAL copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and the U.S Department of Energy (DOE).

### II. QUESTIONNAIRE

#### A. PROJECT SUMMARY

1. Solicitation/Project Number: DE-FOA-0002740 Proposer: PPL Electric Utilities Corporation
2. This Environmental Questionnaire pertains to a: ☒ Recipient or Prime Contractor ☐ Sub-recipient or Subcontractor
3. Principal Investigator: Eric W. Beaver Telephone Number: (b) (6)
4. Project Title: Grid of the Future - AEMS,ADMS,Digital Twin and Asset Hub
5. Expected Project Duration: Five Years
6. Location of Activities covered by this Environmental Questionnaire: (City/Township, County, State):  
Allentown Pennsylvania, Company Headquarters
7. List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire).  
The Company's AEMS, ADMS and Digital Twin solutions establish an electrical connectivity model, asset relationships, and operational capability to utilize the Company's hardware investments listed to their full potential. Additionally, the asset hub allows storage of asset data and adoption of machine learning to allow for optimized investments.
8. List all other locations where work would be performed by the primary contractor of the project and subcontractor(s). Each of the following must have an individual Environmental Questionnaire.

| Subcontractor or sub-recipient | Location of activities for this project |
|--------------------------------|-----------------------------------------|
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |

9. Identify and select the checkbox with the predominant project work activities under Group A, B, or C

#### Group A

- ☒ Routine administrative, procurement, training, and personnel actions. Contract activities/awards for management support, financial assistance, and technical services in support of agency business, programs, projects, and goals. Literature searches and information gathering, material inventories, property surveys; data analysis, computer modeling, analytical reviews, technical summary, conceptual design, feasibility studies, document preparation, data dissemination, and paper studies. Technical assistance including financial planning, assistance, classroom training, public meetings, management training, survey participation, academic contribution, technical consultation, and stakeholders surveys. Workshop and conference planning, preparation, and implementation which may involve promoting energy efficiency, renewable energy, and energy conservation.

***STOP! If all work activities related to this project can be classified and described within categories under Group A, proceed directly to Section III CERTIFICATION BY PROPOSER. No additional information is required.  
If project work activities are described in either Group(s) B or C; then continue filling out questionnaire.***

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## ENVIRONMENTAL QUESTIONNAIRE

### Group B

- ☐ Laboratory Scale Research, Bench Scale Research, Pilot Scale Research, Proof-of-Concept Scale Research, or Field Test Research. Work DOES NOT involve new building/facilities construction and site excavation/groundbreaking activities. This work typically involves routine operation of existing laboratories, commercial buildings/properties, offices and homes, project test facilities, factories/power plants, vehicles test stands and components, refueling facilities, utility systems, or other existing structures/facilities. Work will NOT involve major change in facilities missions and operations, land use planning, new/modified regulatory/operating permit requirements. Includes work specific to routine DOE Site operations and Lab research work activities, but NOT building construction and site preparation. DOE work typically involves laboratory facilities and lab equipment operations, buildings and grounds management activities; and buildings and facilities maintenance, repairs, reconfiguration, remodeling, equipment use and replacement.

### Group C

- ☐ Pilot Test Facilities Construction, Pilot Scale Research, Field Scale Demonstration, or Commercial Scale Application. Work typically involves facility construction, site preparation/excavation/groundbreaking, and/or demolition. This work would include construction, retrofit, replacement, and/or major modifications of laboratories, test facilities, energy system prototypes, and power generation infrastructure. Work may also involve construction and maintenance of utilities system right-of-ways, roads, vehicle test facilities, commercial buildings/properties, fuel refinery/mixing facilities, refueling facility, power plants, underground wells, and pipelines, and other types of energy research related facilities. This work may require new or modified regulatory permits, environmental sampling and monitoring requirements, master planning, public involvement, and environmental impact review. Includes work specific to DOE Site Operations and Lab operation activities involving building and facilities construction, replacement, decommissioning/demolition, site preparation, land use changes, or change in research facilities mission or operations.

### B. PROPOSED PROJECT ALTERNATIVES

1. If applicable, list any project alternatives considered to achieve the project objectives.

### C. PROJECT LOCATION

1. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).

2. Attach a project site location map of the project work area.

### D. ENVIRONMENTAL IMPACTS

NEPA procedures require evaluations of possible effects (including land use, energy resource use, natural, historic and cultural resources, and pollutants) from proposed projects on the environment.

#### 1. Land Use

- a. Characterize present land use where the proposed project would be located.

- |                                   |                                            |                                      |                                              |
|-----------------------------------|--------------------------------------------|--------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Urban    | <input type="checkbox"/> Industrial        | <input type="checkbox"/> Commercial  | <input type="checkbox"/> Agricultural        |
| <input type="checkbox"/> Suburban | <input type="checkbox"/> Rural             | <input type="checkbox"/> Residential | <input type="checkbox"/> Research Facilities |
| <input type="checkbox"/> Forest   | <input type="checkbox"/> University Campus | <input type="checkbox"/> Other:      |                                              |

- b. Identify the total size of the facility, structure, or system and what portion would be used for the proposed project.

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## ENVIRONMENTAL QUESTIONNAIRE

- c. Describe planned construction, installation, and/or demolition activities, i.e., roads, utilities system right-of-ways, parking lots, buildings, laboratories, storage tanks, fueling facilities, underground wells, pipelines, or other structures.

☐ No construction would be anticipated for this project.

- d. Describe how land use would be affected by operational activities associated with the proposed project.

☐ No land areas would be affected.

- e. Describe any plans to reclaim areas that would be affected by the proposed project.

☐ No land areas would be affected.

- f. Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)?

☐ No ☐ Yes (describe)

- g. Would the proposed project be located in or near local, state, or federal parks; forests; monuments; scenic waterways; wilderness; recreation facilities; or tribal lands? ☐ No ☐ Yes (describe)

### 2. Construction Activities and/or Operation

- a. Identify project structure(s), power line(s), pipeline(s), utilities system(s), right-of-way(s) or road(s) that will be constructed and clearly mark them on a project site map or topographic map as appropriate. ☐ None

- b. Would the proposed project require the construction of waste pits or settling ponds?

☐ No ☐ Yes (describe and identify location, and estimate surface area disturbed)

- c. Would the proposed project affect any existing body of water? ☐ No ☐ Yes (describe)

- d. Would the proposed project impact a floodplain or wetland? ☐ No ☐ Yes (describe)

- e. Would the proposed project potentially cause runoff/sedimentation/erosion? ☐ No ☐ Yes (describe)

- f. Would the proposed project include activities located on perma-frost, near fault zones, or involve fracturing, well drilling, geologic stimulation, sequestration, active seismic data collection, and/or deepwater operations?

☐ No ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- g. Would the proposed project involve any of the following: nanotechnology; recombinant DNA or genetic engineering; facility decommissioning or disposition of equipment/materials; or management of radioactive wastes/materials?

☐ No ☐ Yes (describe)

### 3. Biological Resources

- a. Identify any State or Federally listed endangered or threatened plant or animal species potentially affected by the proposed project.

☐ None

- b. Would any designated critical habitat be affected by the proposed project? ☐ No ☐ Yes (describe)

- c. Describe any impacts that construction would have on any other types of sensitive or unique habitats.

☐ No planned construction ☐ No habitats ☐ None ☐ Impact (describe)

- d. Would any foreign substances/materials be introduced into ground or surface waters, soil, or other earth/geologic resource because of project activities? How would these foreign substances/materials affect the water, soil, biota, and geologic resources? ☐ No ☐ Yes (describe)

- e. Would any migratory animal corridors be impacted or disrupted by the proposed project? ☐ No ☐ Yes (describe)

### 4. Socioeconomic and Infrastructure Conditions

- a. Would local socio-economic changes result from the proposed project? ☐ No ☐ Yes (describe)

- b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?

☐ No ☐ Yes (describe)

- c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.

☐ No ☐ Yes (describe)

- d. Would the proposed project create a significant increase in local energy usage? ☐ No ☐ Yes (describe)



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### 5. Historical/Cultural Resources

- a. Describe any historical, archaeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places. ☐ None
- b. Would construction or operational activities planned under the proposed project disturb any historical, archaeological, or cultural sites? ☐ No planned construction ☐ No historic sites ☐ Yes (describe) ☐ No Impact (discuss)
- c. Has the State Historic Preservation Office been contacted with regard to this project? ☐ No ☐ Yes (describe)
- d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape? ☐ No ☐ Yes (describe)
- e. Would the proposed project be located on or adjacent to tribal lands, lands considered to be sacred, or lands used for traditional purposes? Describe any known tribal sensitivities for the proposed project area.

### 6. Atmospheric Conditions/Air Quality

- a. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards (NAAQS). This information is available under the Green Book Non-Attainment Areas for Criteria Pollutants located at <http://www.epa.gov/air/oaqps/greenbk/astate.html>

|                         | Attainment               | Non-Attainment           |
|-------------------------|--------------------------|--------------------------|
| O <sub>3</sub> - 1 Hour | <input type="checkbox"/> | <input type="checkbox"/> |
| O <sub>3</sub> - 8 Hour | <input type="checkbox"/> | <input type="checkbox"/> |
| SO <sub>x</sub>         | <input type="checkbox"/> | <input type="checkbox"/> |
| PM - 2.5                | <input type="checkbox"/> | <input type="checkbox"/> |
| PM - 10                 | <input type="checkbox"/> | <input type="checkbox"/> |
| CO                      | <input type="checkbox"/> | <input type="checkbox"/> |
| NO <sub>2</sub>         | <input type="checkbox"/> | <input type="checkbox"/> |
| Lead                    | <input type="checkbox"/> | <input type="checkbox"/> |

- b. Would proposed project require issuance of new or modified local, state, or federal air permits to perform project related work and activities? ☐ No ☐ Yes (describe)
- c. Would the proposed project be in compliance with local and state air quality requirements? ☐ Yes  
If not, please explain.

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- d. Would the proposed project be classified as either a New Source or a major modification to an existing source?  
☐ No ☐ Yes (describe)

- e. What types of air emissions, including fugitive emissions, would be anticipated from the proposed project, and what would be the maximum annual rate of emissions for the project?

|                                                                                            | Maximum per Year | Total for Project |
|--------------------------------------------------------------------------------------------|------------------|-------------------|
| <input type="checkbox"/> SO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> NO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> PM - 2.5                                                          |                  |                   |
| <input type="checkbox"/> PM - 10                                                           |                  |                   |
| <input type="checkbox"/> CO                                                                |                  |                   |
| <input type="checkbox"/> CO <sub>2</sub>                                                   |                  |                   |
| <input type="checkbox"/> Lead                                                              |                  |                   |
| <input type="checkbox"/> H <sub>2</sub> S                                                  |                  |                   |
| <input type="checkbox"/> Organic solvent vapors or other volatile organic compounds--List: |                  |                   |
| <input type="checkbox"/> Hazardous air pollutants -- List:                                 |                  |                   |
| <input type="checkbox"/> Other -- List:                                                    |                  |                   |
| <input type="checkbox"/> None                                                              |                  |                   |

- f. Would any types of emission control or particulate collection devices be used?  
☐ No ☐ Yes (describe, including collection efficiencies)

- g. How would emissions be vented?

## 7. Hydrologic Conditions/Water Quality

- a. What nearby water bodies may be affected by the proposed project? Provide distance(s) from the project site.

- b. What sources would supply potable and process water for the proposed project?

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# ENVIRONMENTAL QUESTIONNAIRE

c. Quantify the wastewater that would be generated by the proposed project.

|                                                    | Gallons/day | Gallons/year |
|----------------------------------------------------|-------------|--------------|
| <input type="checkbox"/> Non-contact cooling water |             |              |
| <input type="checkbox"/> Process water             |             |              |
| <input type="checkbox"/> Sanitary                  |             |              |
| <input type="checkbox"/> Other -- describe:        |             |              |
| <input type="checkbox"/> None                      |             |              |

d. What would be the major components of each type of wastewater (e.g., coal fines)? ☐ No wastewater produced

e. Identify the local treatment facility that would receive wastewater from the proposed project.

☐ No discharges to local treatment facility

f. Describe how wastewater would be collected and treated. ☐ No wastewater produced

g. Would any run-off or leachates be produced from storage piles or waste disposal sites? ☐ No ☐ Yes (describe source)

h. Would project require issuance of new or modified water permits to perform project work or site development activities?

☐ No ☐ Yes (describe)

i. Where would wastewater effluents from the proposed project be discharged? ☐ No wastewater produced

j. Would the proposed project be permitted to discharge effluents into an existing body of water?

☐ No ☐ Yes (describe water use and effluent impact)

k. Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required?

☐ No ☐ Yes (describe)

l. Would the proposed project adversely affect the quality or movement of groundwater? ☐ No ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- m. Would the proposed project require issuance of an [Underground Injection Control \(UIC\)](#) permit?

☐ No ☐ Yes (describe)

- n. Would the proposed project be located in or near a wellhead protection area, drinking water protection area, or above a sole source aquifer or underground source of drinking water (USDW)?

☐ No ☐ Yes (describe)

### 8. Solid and Hazardous Wastes

- a. Identify and estimate wastes that would be generated from the project. Solid wastes are defined as any solid, liquid, semi-solid, or contained gaseous material that is discarded, has served its intended purpose, or is a manufacturing or mining by-product (See [EPA Municipal Solid Waste](#) and [Municipal Solid Waste by State](#)).

|                                                                             | Annual Quantity |
|-----------------------------------------------------------------------------|-----------------|
| <input type="checkbox"/> Municipal solid waste (e.g., paper, plastic, etc.) |                 |
| <input type="checkbox"/> Coal or coal by-products                           |                 |
| <input type="checkbox"/> Other -- Identify:                                 |                 |
| <input type="checkbox"/> Hazardous waste -- Identify:                       |                 |
| <input type="checkbox"/> None                                               |                 |

- b. Would project require issuance of new or modified solid waste and/or hazardous waste related permits to perform project work activities? ☐ No ☐ Yes (explain)

- c. How and where would solid waste disposal be accomplished?

☐ None generated  
☐ On-site (identify and describe location)  
☐ Off-site (identify location and describe facility and treatment)

- d. How would wastes for disposal be transported?

- e. Describe hazardous wastes that would be generated, treated, handled, or stored under this project. Hazardous waste information can be found at [EPA Hazardous Waste](#) website. ☐ None

- f. How would hazardous or toxic waste be collected and stored? ☐ None used or produced

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## ENVIRONMENTAL QUESTIONNAIRE

- g. If hazardous wastes would require off-site disposal, have arrangements been made with a certified TSD (Treatment, Storage, and Disposal) facility?
- ☐ Not required    ☐ Arrangements not yet made    ☐ Arrangements made with a certified TSD facility (identify)

### 9. Health/Safety Factors

- a. Identify hazardous or toxic materials that would be used in the proposed project.
- ☐ None    ☐ Hazardous or toxic materials that would be used (identify):
- b. Describe the potential impacts of this project's hazardous materials on human health and the environment.
- ☐ None
- c. Would there be any special physical hazards or health risks associated with the project?    ☐ No    ☐ Yes (describe)
- d. Does a worker safety program exist at the location of the proposed project?    ☐ No    ☐ Yes (describe)
- e. Would additional safety training be necessary for any new laboratory, equipment, or processes involved with the project?
- ☐ No    ☐ Yes (describe)
- f. Describe any increases in ambient noise levels to the public from construction and operational activities.
- ☐ None    ☐ Increase in ambient noise level (describe)
- g. Would project construction result in the removal of natural or other barriers that act as noise screens?
- ☐ No construction planned    ☐ No    ☐ Yes (describe)
- h. Would hearing protection be required for workers?    ☐ No    ☐ Yes (describe)
- ### 10. Environmental Restoration and/or Waste Management
- a. Would the proposed project include CERCLA removals or similar actions under RCRA or other authorities?
- ☐ No    ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- b. Would the proposed project include siting, construction, and operation of temporary pilot-scale waste collection and treatment facilities or pilot-scale waste stabilization and containment facilities? ☐ No ☐ Yes (describe)

- c. Would the proposed project involve operations of environmental monitoring and control systems?  
☐ No ☐ Yes (describe)

- d. Would the proposed project involve siting, construction, operation, or decommissioning of a facility for storing packaged hazardous waste for 90 days or less? ☐ No ☐ Yes (describe)

### E. REGULATORY COMPLIANCE

1. For the following laws, describe any existing permits, new or modified permits, manifests, responsible authorities or agencies, contacts, etc., that would be required for the proposed project

- a. Resource Conservation and Recovery Act ([RCRA](#)): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- b. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):  
☐ None ☐ New Required ☐ Modification Required  
Describe:

- c. Toxic Substance Control Act (TSCA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- d. Clean Water Act (CWA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- e. Underground Storage Tank Control Program (UST): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- f. Underground Injection Control Program (UIC): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- g. Clean Air Act (CAA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

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- h. Endangered Species Act (ESA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- i. [Floodplains and Wetlands Regulations](#): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- j. Fish and Wildlife Coordination Act (FWCA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- k. National Historic Preservation Act (NHPA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

- l. Coastal Zone Management Act (CZMA): ☐ None ☐ New Required ☐ Modification Required  
Describe:

2. Identify any other environmental laws and regulations (Federal, state, and local) for which compliance would be necessary for this project, and describe the permits, manifests, and contacts that would be required.

- F. DESCRIBE ANY ISSUES THAT WOULD GENERATE PUBLIC CONTROVERSY REGARDING THE PROPOSED PROJECT. ☐ None

- G. WOULD THE PROPOSED PROJECT PRODUCE ADDITIONAL DEVELOPMENT, OR ARE OTHER MAJOR DEVELOPMENTS PLANNED OR UNDERWAY, IN THE PROJECT AREA?

☐ No ☐ Yes (describe)

- H. SUMMARIZE THE SIGNIFICANT IMPACTS THAT WOULD RESULT FROM THE PROPOSED PROJECT.

☐ None (provide supporting detail) ☐ Significant impacts (describe)


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## ENVIRONMENTAL QUESTIONNAIRE

**I. PROVIDE A DESCRIPTION OF HOW THE PROJECT WOULD BE DECOMMISSIONED, INCLUDING THE DISPOSITION OF EQUIPMENT AND MATERIALS.**

**III. CERTIFICATION BY PROPOSER**

I hereby certify that the information provided herein is current, accurate, and complete as of the date shown immediately below.

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)


Title: Project Manager

Organization: PPL Electric Utilities Corporation

**IV. REVIEW AND APPROVAL BY DOE**

I hereby certify that I have reviewed the information provided in this questionnaire, have determined that all questions have been appropriately answered, and judge the responses to be consistent with the efforts proposed.

**DOE Project Manager**

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)



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# ENVIRONMENTAL QUESTIONNAIRE

## I. INSTRUCTIONS

The proposer shall prepare this Environmental Questionnaire (EQ) as accurately and completely as possible. Supporting information can be provided as attachments. The proposer must identify the location of the project and specifically describe the activities that would occur at that location. The proposer must provide specific information and quantities, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. In addition, the proposer must submit with this EQ a FINAL copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and the U.S Department of Energy (DOE).

## II. QUESTIONNAIRE

### A. PROJECT SUMMARY

1. Solicitation/Project Number: DE-FOA-0002740 Proposer: PPL Electric Utilities Corporation
2. This Environmental Questionnaire pertains to a: ☒ Recipient or Prime Contractor ☐ Sub-recipient or Subcontractor
3. Principal Investigator: Eric W. Beaver Telephone Number: (b) (6)
4. Project Title: Grid of the Future - LTN Automation
5. Expected Project Duration: Five Years
6. Location of Activities covered by this Environmental Questionnaire: (City/Township, County, State):  
Allentown, Scranton, Wilkes-Barre, Williamsport, Harrisburg, and Lancaster Pennsylvania.
7. List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire).  
PPL Electric Utilities Corporation plans to install new assets, fiber communication network, sensors/monitors, and relays on the underground cable network at 483 locations within the LTN network.
8. List all other locations where work would be performed by the primary contractor of the project and subcontractor(s). Each of the following must have an individual Environmental Questionnaire.

| Subcontractor or sub-recipient | Location of activities for this project |
|--------------------------------|-----------------------------------------|
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |

9. Identify and select the checkbox with the predominant project work activities under Group A, B, or C

#### Group A

- ☐ Routine administrative, procurement, training, and personnel actions. Contract activities/awards for management support, financial assistance, and technical services in support of agency business, programs, projects, and goals. Literature searches and information gathering, material inventories, property surveys; data analysis, computer modeling, analytical reviews, technical summary, conceptual design, feasibility studies, document preparation, data dissemination, and paper studies. Technical assistance including financial planning, assistance, classroom training, public meetings, management training, survey participation, academic contribution, technical consultation, and stakeholders surveys. Workshop and conference planning, preparation, and implementation which may involve promoting energy efficiency, renewable energy, and energy conservation.

**STOP! If all work activities related to this project can be classified and described within categories under Group A, proceed directly to Section III CERTIFICATION BY PROPOSER. No additional information is required.**  
**If project work activities are described in either Group(s) B or C; then continue filling out questionnaire.**

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## ENVIRONMENTAL QUESTIONNAIRE

### Group B

- ☐ Laboratory Scale Research, Bench Scale Research, Pilot Scale Research, Proof-of-Concept Scale Research, or Field Test Research. Work DOES NOT involve new building/facilities construction and site excavation/groundbreaking activities. This work typically involves routine operation of existing laboratories, commercial buildings/properties, offices and homes, project test facilities, factories/power plants, vehicles test stands and components, refueling facilities, utility systems, or other existing structures/facilities. Work will NOT involve major change in facilities missions and operations, land use planning, new/modified regulatory/operating permit requirements. Includes work specific to routine DOE Site operations and Lab research work activities, but NOT building construction and site preparation. DOE work typically involves laboratory facilities and lab equipment operations, buildings and grounds management activities; and buildings and facilities maintenance, repairs, reconfiguration, remodeling, equipment use and replacement.

### Group C

- ☒ Pilot Test Facilities Construction, Pilot Scale Research, Field Scale Demonstration, or Commercial Scale Application. Work typically involves facility construction, site preparation/excavation/groundbreaking, and/or demolition. This work would include construction, retrofit, replacement, and/or major modifications of laboratories, test facilities, energy system prototypes, and power generation infrastructure. Work may also involve construction and maintenance of utilities system right-of-ways, roads, vehicle test facilities, commercial buildings/properties, fuel refinery/mixing facilities, refueling facility, power plants, underground wells, and pipelines, and other types of energy research related facilities. This work may require new or modified regulatory permits, environmental sampling and monitoring requirements, master planning, public involvement, and environmental impact review. Includes work specific to DOE Site Operations and Lab operation activities involving building and facilities construction, replacement, decommissioning/demolition, site preparation, land use changes, or change in research facilities mission or operations.

### B. PROPOSED PROJECT ALTERNATIVES

1. If applicable, list any project alternatives considered to achieve the project objectives.  
No feasible alternatives that will achieve the project objectives.

### C. PROJECT LOCATION

1. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).  
PPL Electric Utilities Corporation's LTN networks exist in 6 major Pennsylvania cities including Allentown, Scranton, Wilkes-Barre, Williamsport, Harrisburg, and Lancaster.
2. Attach a project site location map of the project work area.  
Attachment A: PPL Electric Utility Service Territory Map

### D. ENVIRONMENTAL IMPACTS

NEPA procedures require evaluations of possible effects (including land use, energy resource use, natural, historic and cultural resources, and pollutants) from proposed projects on the environment.

#### 1. Land Use

- a. Characterize present land use where the proposed project would be located.

|                                           |                                                       |                                      |                                              |
|-------------------------------------------|-------------------------------------------------------|--------------------------------------|----------------------------------------------|
| <input checked="" type="checkbox"/> Urban | <input type="checkbox"/> Industrial                   | <input type="checkbox"/> Commercial  | <input type="checkbox"/> Agricultural        |
| <input type="checkbox"/> Suburban         | <input type="checkbox"/> Rural                        | <input type="checkbox"/> Residential | <input type="checkbox"/> Research Facilities |
| <input type="checkbox"/> Forest           | <input checked="" type="checkbox"/> University Campus | <input type="checkbox"/> Other:      |                                              |

- b. Identify the total size of the facility, structure, or system and what portion would be used for the proposed project.

PPL Electric Utilities Corporation's LTN networks exist in 6 major Pennsylvania cities including Allentown, Scranton, Wilkes-Barre, Williamsport, Harrisburg, and Lancaster.

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- c. Describe planned construction, installation, and/or demolition activities, i.e., roads, utilities system right-of-ways, parking lots, buildings, laboratories, storage tanks, fueling facilities, underground wells, pipelines, or other structures.

☐ No construction would be anticipated for this project.

Construction will be completed on existing facilities within existing LTN vaults.  
Construction could include the building or repairs to existing vaults for the upgrade.

- d. Describe how land use would be affected by operational activities associated with the proposed project.

☒ No land areas would be affected.

Current land use would not be affected.

- e. Describe any plans to reclaim areas that would be affected by the proposed project.

☒ No land areas would be affected.

Current land use would not be affected.

- f. Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)?

☒ No ☐ Yes (describe)

- g. Would the proposed project be located in or near local, state, or federal parks; forests; monuments; scenic waterways; wilderness; recreation facilities; or tribal lands? ☐ No ☒ Yes (describe)

The LTN vaults for which the automations are to be installed may be located in or near areas as categorized above, but no adverse effects are anticipated.

### 2. Construction Activities and/or Operation

- a. Identify project structure(s), power line(s), pipeline(s), utilities system(s), right-of-way(s) or road(s) that will be constructed and clearly mark them on a project site map or topographic map as appropriate. ☐ None

PPL Electric Utilities Corporation's LTN networks exist in 6 major Pennsylvania cities including Allentown, Scranton, Wilkes-Barre, Williamsport, Harrisburg, and Lancaster.

- b. Would the proposed project require the construction of waste pits or settling ponds?

☒ No ☐ Yes (describe and identify location, and estimate surface area disturbed)

- c. Would the proposed project affect any existing body of water? ☒ No ☐ Yes (describe)

- d. Would the proposed project impact a floodplain or wetland? ☒ No ☐ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- e. Would the proposed project potentially cause runoff/sedimentation/erosion? ☐ No ☒ Yes (describe)

Although no significant impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- f. Would the proposed project include activities located on perma-frost, near fault zones, or involve fracturing, well drilling, geologic stimulation, sequestration, active seismic data collection, and/or deepwater operations?

☒ No ☐ Yes (describe)

U.S. DEPARTMENT OF ENERGY

## ENVIRONMENTAL QUESTIONNAIRE

- g. Would the proposed project involve any of the following: nanotechnology; recombinant DNA or genetic engineering; facility decommissioning or disposition of equipment/materials; or management of radioactive wastes/materials?

☒ No ☐ Yes (describe)

### 3. Biological Resources

- a. Identify any State or Federally listed endangered or threatened plant or animal species potentially affected by the proposed project.

☒ None

Any State or Federally listed endangered or threatened plant or animal species will be avoided during the proposed project.

- b. Would any designated critical habitat be affected by the proposed project? ☐ No ☒ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- c. Describe any impacts that construction would have on any other types of sensitive or unique habitats.

☐ No planned construction ☐ No habitats ☒ None ☐ Impact (describe)

- d. Would any foreign substances/materials be introduced into ground or surface waters, soil, or other earth/geologic resource because of project activities? How would these foreign substances/materials affect the water, soil, biota, and geologic resources? ☒ No ☐ Yes (describe)

- e. Would any migratory animal corridors be impacted or disrupted by the proposed project? ☒ No ☐ Yes (describe)

### 4. Socioeconomic and Infrastructure Conditions

- a. Would local socio-economic changes result from the proposed project? ☐ No ☒ Yes (describe)

There will be no negative socio-economic impacts due to the project. However, there will be positive socio-economic impacts that are detailed in the attached community benefits plan.

- b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?

☒ No ☐ Yes (describe)

- c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.

☒ No ☐ Yes (describe)

- d. Would the proposed project create a significant increase in local energy usage? ☒ No ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

### 5. Historical/Cultural Resources

- a. Describe any historical, archaeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places. ☒ None

- b. Would construction or operational activities planned under the proposed project disturb any historical, archaeological, or cultural sites? ☐ No planned construction ☐ No historic sites ☐ Yes (describe) ☒ No Impact (discuss)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- c. Has the State Historic Preservation Office been contacted with regard to this project? ☒ No ☐ Yes (describe)

- d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape? ☒ No ☐ Yes (describe)

- e. Would the proposed project be located on or adjacent to tribal lands, lands considered to be sacred, or lands used for traditional purposes? Describe any known tribal sensitivities for the proposed project area.

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

### 6. Atmospheric Conditions/Air Quality

- a. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards (NAAQS). This information is available under the Green Book Non-Attainment Areas for Criteria Pollutants located at <http://www.epa.gov/air/oaqps/greenbk/astate.html>

|                         | Attainment                          | Non-Attainment                      |
|-------------------------|-------------------------------------|-------------------------------------|
| O <sub>3</sub> - 1 Hour | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| O <sub>3</sub> - 8 Hour | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| SO <sub>x</sub>         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PM - 2.5                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PM - 10                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| CO                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| NO <sub>2</sub>         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Lead                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

- b. Would proposed project require issuance of new or modified local, state, or federal air permits to perform project related work and activities? ☒ No ☐ Yes (describe)

- c. Would the proposed project be in compliance with local and state air quality requirements? ☒ Yes  
If not, please explain.

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## ENVIRONMENTAL QUESTIONNAIRE

- d. Would the proposed project be classified as either a New Source or a major modification to an existing source?  
☒ No ☐ Yes (describe)

- e. What types of air emissions, including fugitive emissions, would be anticipated from the proposed project, and what would be the maximum annual rate of emissions for the project?

|                                                                                            | Maximum per Year | Total for Project |
|--------------------------------------------------------------------------------------------|------------------|-------------------|
| <input type="checkbox"/> SO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> NO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> PM - 2.5                                                          |                  |                   |
| <input type="checkbox"/> PM - 10                                                           |                  |                   |
| <input type="checkbox"/> CO                                                                |                  |                   |
| <input type="checkbox"/> CO <sub>2</sub>                                                   |                  |                   |
| <input type="checkbox"/> Lead                                                              |                  |                   |
| <input type="checkbox"/> H <sub>2</sub> S                                                  |                  |                   |
| <input type="checkbox"/> Organic solvent vapors or other volatile organic compounds--List: |                  |                   |
| <input type="checkbox"/> Hazardous air pollutants -- List:                                 |                  |                   |
| <input type="checkbox"/> Other -- List:                                                    |                  |                   |
| <input checked="" type="checkbox"/> None                                                   |                  |                   |

- f. Would any types of emission control or particulate collection devices be used?  
☒ No ☐ Yes (describe, including collection efficiencies)

- g. How would emissions be vented?

No new emissions will be generated.

### 7. Hydrologic Conditions/Water Quality

- a. What nearby water bodies may be affected by the proposed project? Provide distance(s) from the project site.

No water bodies will be affected by the proposed projects.

- b. What sources would supply potable and process water for the proposed project?

No water supplies will be needed for the projects.

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# ENVIRONMENTAL QUESTIONNAIRE

c. Quantify the wastewater that would be generated by the proposed project.

|                                                    | Gallons/day | Gallons/year |
|----------------------------------------------------|-------------|--------------|
| <input type="checkbox"/> Non-contact cooling water |             |              |
| <input type="checkbox"/> Process water             |             |              |
| <input type="checkbox"/> Sanitary                  |             |              |
| <input type="checkbox"/> Other -- describe:        |             |              |
| <input checked="" type="checkbox"/> None           |             |              |

d. What would be the major components of each type of wastewater (e.g., coal fines)? ☒ No wastewater produced

e. Identify the local treatment facility that would receive wastewater from the proposed project.

☒ No discharges to local treatment facility

f. Describe how wastewater would be collected and treated. ☒ No wastewater produced

g. Would any run-off or leachates be produced from storage piles or waste disposal sites? ☒ No ☐ Yes (describe source)

h. Would project require issuance of new or modified water permits to perform project work or site development activities?

☒ No ☐ Yes (describe)

i. Where would wastewater effluents from the proposed project be discharged? ☒ No wastewater produced

j. Would the proposed project be permitted to discharge effluents into an existing body of water?

☒ No ☐ Yes (describe water use and effluent impact)

k. Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required?

☒ No ☐ Yes (describe)

l. Would the proposed project adversely affect the quality or movement of groundwater? ☒ No ☐ Yes (describe)

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ENVIRONMENTAL QUESTIONNAIRE

- m. Would the proposed project require issuance of an [Underground Injection Control \(UIC\)](#) permit?

☒ No ☐ Yes (describe)

- n. Would the proposed project be located in or near a wellhead protection area, drinking water protection area, or above a sole source aquifer or underground source of drinking water (USDW)?

☒ No ☐ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

8. Solid and Hazardous Wastes

- a. Identify and estimate wastes that would be generated from the project. Solid wastes are defined as any solid, liquid, semi-solid, or contained gaseous material that is discarded, has served its intended purpose, or is a manufacturing or mining by-product (See [EPA Municipal Solid Waste](#) and [Municipal Solid Waste by State](#)).

|                                                                             | Annual Quantity |
|-----------------------------------------------------------------------------|-----------------|
| <input type="checkbox"/> Municipal solid waste (e.g., paper, plastic, etc.) |                 |
| <input type="checkbox"/> Coal or coal by-products                           |                 |
| <input type="checkbox"/> Other -- Identify:                                 |                 |
| <input type="checkbox"/> Hazardous waste -- Identify:                       |                 |
| <input checked="" type="checkbox"/> None                                    |                 |

- b. Would project require issuance of new or modified solid waste and/or hazardous waste related permits to perform project work activities? ☒ No ☐ Yes (explain)

- c. How and where would solid waste disposal be accomplished?

- ☒ None generated  
☐ On-site (identify and describe location)  
☐ Off-site (identify location and describe facility and treatment)

- d. How would wastes for disposal be transported?

N/A

- e. Describe hazardous wastes that would be generated, treated, handled, or stored under this project. Hazardous waste information can be found at [EPA Hazardous Waste](#) website. ☒ None

- f. How would hazardous or toxic waste be collected and stored? ☒ None used or produced



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## ENVIRONMENTAL QUESTIONNAIRE

- g. If hazardous wastes would require off-site disposal, have arrangements been made with a certified TSD (Treatment, Storage, and Disposal) facility?
- ☒ Not required    ☐ Arrangements not yet made    ☐ Arrangements made with a certified TSD facility (identify)

### 9. Health/Safety Factors

- a. Identify hazardous or toxic materials that would be used in the proposed project.
- ☒ None    ☐ Hazardous or toxic materials that would be used (identify):
- b. Describe the potential impacts of this project's hazardous materials on human health and the environment.
- ☒ None
- c. Would there be any special physical hazards or health risks associated with the project?    ☒ No    ☐ Yes (describe)
- d. Does a worker safety program exist at the location of the proposed project?    ☐ No    ☒ Yes (describe)
- Current worker safety programs exist for PPL Electric Utilities Corporation and will be followed for this project.
- e. Would additional safety training be necessary for any new laboratory, equipment, or processes involved with the project?
- ☐ No    ☒ Yes (describe)
- LTN Automation may require troubleshooting training for installation and maintenance, i.e. procedure or installation demonstration.
- f. Describe any increases in ambient noise levels to the public from construction and operational activities.
- ☐ None    ☒ Increase in ambient noise level (describe)
- Minimal for LTN Automation upgrades during construction due to location assets, i.e. within manholes in streets and sidewalks within city limits. Post installation, there will be no increase in ambient noise levels.
- g. Would project construction result in the removal of natural or other barriers that act as noise screens?
- ☐ No construction planned    ☒ No    ☐ Yes (describe)
- h. Would hearing protection be required for workers?    ☐ No    ☒ Yes (describe)
- At times during construction, but not for the majority of the construction.

### 10. Environmental Restoration and/or Waste Management

- a. Would the proposed project include CERCLA removals or similar actions under RCRA or other authorities?
- ☒ No    ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- b. Would the proposed project include siting, construction, and operation of temporary pilot-scale waste collection and treatment facilities or pilot-scale waste stabilization and containment facilities? ☒ No ☐ Yes (describe)

- c. Would the proposed project involve operations of environmental monitoring and control systems?  
☒ No ☐ Yes (describe)

- d. Would the proposed project involve siting, construction, operation, or decommissioning of a facility for storing packaged hazardous waste for 90 days or less? ☒ No ☐ Yes (describe)

### E. REGULATORY COMPLIANCE

1. For the following laws, describe any existing permits, new or modified permits, manifests, responsible authorities or agencies, contacts, etc., that would be required for the proposed project

- a. Resource Conservation and Recovery Act ([RCRA](#)): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- b. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):  
☒ None ☐ New Required ☐ Modification Required  
Describe:

- c. Toxic Substance Control Act (TSCA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- d. Clean Water Act (CWA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- e. Underground Storage Tank Control Program (UST): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- f. Underground Injection Control Program (UIC): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- g. Clean Air Act (CAA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

U.S. DEPARTMENT OF ENERGY

ENVIRONMENTAL QUESTIONNAIRE

- h. Endangered Species Act (ESA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- i. [Floodplains and Wetlands Regulations](#): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- j. Fish and Wildlife Coordination Act (FWCA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- k. National Historic Preservation Act (NHPA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- l. Coastal Zone Management Act (CZMA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

2. Identify any other environmental laws and regulations (Federal, state, and local) for which compliance would be necessary for this project, and describe the permits, manifests, and contacts that would be required.

N/A

- F. DESCRIBE ANY ISSUES THAT WOULD GENERATE PUBLIC CONTROVERSY REGARDING THE PROPOSED PROJECT. ☒ None

- G. WOULD THE PROPOSED PROJECT PRODUCE ADDITIONAL DEVELOPMENT, OR ARE OTHER MAJOR DEVELOPMENTS PLANNED OR UNDERWAY, IN THE PROJECT AREA?

☒ No ☐ Yes (describe)

- H. SUMMARIZE THE SIGNIFICANT IMPACTS THAT WOULD RESULT FROM THE PROPOSED PROJECT.

☒ None (provide supporting detail) ☐ Significant impacts (describe)

There are no significant impacts anticipated as a result of this project.

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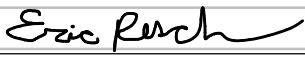
## ENVIRONMENTAL QUESTIONNAIRE

**I. PROVIDE A DESCRIPTION OF HOW THE PROJECT WOULD BE DECOMMISSIONED, INCLUDING THE DISPOSITION OF EQUIPMENT AND MATERIALS.**

Upon decommissioning, hardware would be returned to our facility for re-use, reclamation, or disposal at a licensed waste facility.

**III. CERTIFICATION BY PROPOSER**

I hereby certify that the information provided herein is current, accurate, and complete as of the date shown immediately below.

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)

Title: Project Manager

Organization: PPL Electric Utilities Corporation

**IV. REVIEW AND APPROVAL BY DOE**

I hereby certify that I have reviewed the information provided in this questionnaire, have determined that all questions have been appropriately answered, and judge the responses to be consistent with the efforts proposed.

**DOE Project Manager**

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)

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# ENVIRONMENTAL QUESTIONNAIRE

## I. INSTRUCTIONS

The proposer shall prepare this Environmental Questionnaire (EQ) as accurately and completely as possible. Supporting information can be provided as attachments. The proposer must identify the location of the project and specifically describe the activities that would occur at that location. The proposer must provide specific information and quantities, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. In addition, the proposer must submit with this EQ a FINAL copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and the U.S Department of Energy (DOE).

## II. QUESTIONNAIRE

### A. PROJECT SUMMARY

1. Solicitation/Project Number: DE-FOA-0002740 Proposer: PPL Electric Utilities Corporation
2. This Environmental Questionnaire pertains to a: ☒ Recipient or Prime Contractor ☐ Sub-recipient or Subcontractor
3. Principal Investigator: Eric W. Beaver Telephone Number: (b) (6)
4. Project Title: Grid of the Future - Predictive Failure Monitoring
5. Expected Project Duration: Five Years
6. Location of Activities covered by this Environmental Questionnaire: (City/Township, County, State):  
29 counties within the PPL Electric service territory in eastern and central Pennsylvania
7. List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire).  
Install multiple types of sensors on 12kV distribution circuits to monitor system conditions and detect failing equipment in order to repair or replace equipment before it impacts customer reliability.
8. List all other locations where work would be performed by the primary contractor of the project and subcontractor(s). Each of the following must have an individual Environmental Questionnaire.

| Subcontractor or sub-recipient | Location of activities for this project |
|--------------------------------|-----------------------------------------|
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |

9. Identify and select the checkbox with the predominant project work activities under Group A, B, or C

#### Group A

- ☐ Routine administrative, procurement, training, and personnel actions. Contract activities/awards for management support, financial assistance, and technical services in support of agency business, programs, projects, and goals. Literature searches and information gathering, material inventories, property surveys; data analysis, computer modeling, analytical reviews, technical summary, conceptual design, feasibility studies, document preparation, data dissemination, and paper studies. Technical assistance including financial planning, assistance, classroom training, public meetings, management training, survey participation, academic contribution, technical consultation, and stakeholders surveys. Workshop and conference planning, preparation, and implementation which may involve promoting energy efficiency, renewable energy, and energy conservation.

**STOP! If all work activities related to this project can be classified and described within categories under Group A, proceed directly to Section III CERTIFICATION BY PROPOSER. No additional information is required.**  
**If project work activities are described in either Group(s) B or C; then continue filling out questionnaire.**

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## ENVIRONMENTAL QUESTIONNAIRE

### Group B

- ☐ Laboratory Scale Research, Bench Scale Research, Pilot Scale Research, Proof-of-Concept Scale Research, or Field Test Research. Work DOES NOT involve new building/facilities construction and site excavation/groundbreaking activities. This work typically involves routine operation of existing laboratories, commercial buildings/properties, offices and homes, project test facilities, factories/power plants, vehicles test stands and components, refueling facilities, utility systems, or other existing structures/facilities. Work will NOT involve major change in facilities missions and operations, land use planning, new/modified regulatory/operating permit requirements. Includes work specific to routine DOE Site operations and Lab research work activities, but NOT building construction and site preparation. DOE work typically involves laboratory facilities and lab equipment operations, buildings and grounds management activities; and buildings and facilities maintenance, repairs, reconfiguration, remodeling, equipment use and replacement.

### Group C

- ☒ Pilot Test Facilities Construction, Pilot Scale Research, Field Scale Demonstration, or Commercial Scale Application. Work typically involves facility construction, site preparation/excavation/groundbreaking, and/or demolition. This work would include construction, retrofit, replacement, and/or major modifications of laboratories, test facilities, energy system prototypes, and power generation infrastructure. Work may also involve construction and maintenance of utilities system right-of-ways, roads, vehicle test facilities, commercial buildings/properties, fuel refinery/mixing facilities, refueling facility, power plants, underground wells, and pipelines, and other types of energy research related facilities. This work may require new or modified regulatory permits, environmental sampling and monitoring requirements, master planning, public involvement, and environmental impact review. Includes work specific to DOE Site Operations and Lab operation activities involving building and facilities construction, replacement, decommissioning/demolition, site preparation, land use changes, or change in research facilities mission or operations.

### B. PROPOSED PROJECT ALTERNATIVES

1. If applicable, list any project alternatives considered to achieve the project objectives.  
No feasible alternatives that will achieve the project objectives.

### C. PROJECT LOCATION

1. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).  
29 counties within the PPL Electric service territory in eastern and central Pennsylvania
2. Attach a project site location map of the project work area.  
Attachment A: PPL Electric Utility Service Territory Map

### D. ENVIRONMENTAL IMPACTS

NEPA procedures require evaluations of possible effects (including land use, energy resource use, natural, historic and cultural resources, and pollutants) from proposed projects on the environment.

#### 1. Land Use

- a. Characterize present land use where the proposed project would be located.

|                                              |                                                       |                                                 |                                                  |
|----------------------------------------------|-------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| <input checked="" type="checkbox"/> Urban    | <input checked="" type="checkbox"/> Industrial        | <input checked="" type="checkbox"/> Commercial  | <input checked="" type="checkbox"/> Agricultural |
| <input checked="" type="checkbox"/> Suburban | <input checked="" type="checkbox"/> Rural             | <input checked="" type="checkbox"/> Residential | <input type="checkbox"/> Research Facilities     |
| <input checked="" type="checkbox"/> Forest   | <input checked="" type="checkbox"/> University Campus | <input type="checkbox"/> Other:                 |                                                  |

- b. Identify the total size of the facility, structure, or system and what portion would be used for the proposed project.

PPL Electric Utility's system encompasses 29 counties in eastern and central Pennsylvania and accounts for fifty thousand miles of power lines, with 1.5 million customers. The project area encompasses the entire PPL Electric service territory within Pennsylvania.

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## ENVIRONMENTAL QUESTIONNAIRE

- c. Describe planned construction, installation, and/or demolition activities, i.e., roads, utilities system right-of-ways, parking lots, buildings, laboratories, storage tanks, fueling facilities, underground wells, pipelines, or other structures.

☐ No construction would be anticipated for this project.

Construction will be completed on existing facilities within existing right-of-ways (i.e. poles and equipment) with the possibility of installing new poles to accommodate upgrades.

- d. Describe how land use would be affected by operational activities associated with the proposed project.

☒ No land areas would be affected.

Current land use would not be affected.

- e. Describe any plans to reclaim areas that would be affected by the proposed project.

☒ No land areas would be affected.

Current land use would not be affected.

- f. Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)?

☒ No ☐ Yes (describe)

- g. Would the proposed project be located in or near local, state, or federal parks; forests; monuments; scenic waterways; wilderness; recreation facilities; or tribal lands? ☐ No ☒ Yes (describe)

The infrastructure upon which the monitors are to be installed may be located in or near areas as categorized above, but no adverse effects are anticipated.

### 2. Construction Activities and/or Operation

- a. Identify project structure(s), power line(s), pipeline(s), utilities system(s), right-of-way(s) or road(s) that will be constructed and clearly mark them on a project site map or topographic map as appropriate. ☒ None

The project will involve the installation of equipment on existing facilities located within our 29 county PPL Electric Utilities service territory.

- b. Would the proposed project require the construction of waste pits or settling ponds?

☒ No ☐ Yes (describe and identify location, and estimate surface area disturbed)

- c. Would the proposed project affect any existing body of water? ☒ No ☐ Yes (describe)

- d. Would the proposed project impact a floodplain or wetland? ☒ No ☐ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- e. Would the proposed project potentially cause runoff/sedimentation/erosion? ☐ No ☒ Yes (describe)

Although no significant impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- f. Would the proposed project include activities located on perma-frost, near fault zones, or involve fracturing, well drilling, geologic stimulation, sequestration, active seismic data collection, and/or deepwater operations?

☒ No ☐ Yes (describe)

U.S. DEPARTMENT OF ENERGY

## ENVIRONMENTAL QUESTIONNAIRE

- g. Would the proposed project involve any of the following: nanotechnology; recombinant DNA or genetic engineering; facility decommissioning or disposition of equipment/materials; or management of radioactive wastes/materials?

☒ No ☐ Yes (describe)

### 3. Biological Resources

- a. Identify any State or Federally listed endangered or threatened plant or animal species potentially affected by the proposed project.

☒ None

Any State or Federally listed endangered or threatened plant or animal species will be avoided during the proposed project.

- b. Would any designated critical habitat be affected by the proposed project? ☐ No ☒ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- c. Describe any impacts that construction would have on any other types of sensitive or unique habitats.

☐ No planned construction ☐ No habitats ☒ None ☐ Impact (describe)

- d. Would any foreign substances/materials be introduced into ground or surface waters, soil, or other earth/geologic resource because of project activities? How would these foreign substances/materials affect the water, soil, biota, and geologic resources? ☒ No ☐ Yes (describe)

- e. Would any migratory animal corridors be impacted or disrupted by the proposed project? ☒ No ☐ Yes (describe)

### 4. Socioeconomic and Infrastructure Conditions

- a. Would local socio-economic changes result from the proposed project? ☐ No ☒ Yes (describe)

There will be no negative socio-economic impacts due to the project. However, there will be positive socio-economic impacts that are detailed in the attached community benefits plan.

- b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?

☒ No ☐ Yes (describe)

- c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.

☒ No ☐ Yes (describe)

- d. Would the proposed project create a significant increase in local energy usage? ☒ No ☐ Yes (describe)



U.S. DEPARTMENT OF ENERGY

## ENVIRONMENTAL QUESTIONNAIRE

### 5. Historical/Cultural Resources

- a. Describe any historical, archaeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places. ☒ None

- b. Would construction or operational activities planned under the proposed project disturb any historical, archaeological, or cultural sites? ☐ No planned construction ☐ No historic sites ☐ Yes (describe) ☒ No Impact (discuss)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- c. Has the State Historic Preservation Office been contacted with regard to this project? ☒ No ☐ Yes (describe)

- d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape? ☒ No ☐ Yes (describe)

- e. Would the proposed project be located on or adjacent to tribal lands, lands considered to be sacred, or lands used for traditional purposes? Describe any known tribal sensitivities for the proposed project area.

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

### 6. Atmospheric Conditions/Air Quality

- a. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards (NAAQS). This information is available under the Green Book Non-Attainment Areas for Criteria Pollutants located at <http://www.epa.gov/air/oaqps/greenbk/astate.html>

|                         | Attainment                          | Non-Attainment                      |
|-------------------------|-------------------------------------|-------------------------------------|
| O <sub>3</sub> - 1 Hour | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| O <sub>3</sub> - 8 Hour | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| SO <sub>x</sub>         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PM - 2.5                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PM - 10                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| CO                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| NO <sub>2</sub>         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Lead                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

- b. Would proposed project require issuance of new or modified local, state, or federal air permits to perform project related work and activities? ☒ No ☐ Yes (describe)

- c. Would the proposed project be in compliance with local and state air quality requirements? ☒ Yes  
If not, please explain.

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## ENVIRONMENTAL QUESTIONNAIRE

- d. Would the proposed project be classified as either a New Source or a major modification to an existing source?  
☒ No ☐ Yes (describe)

- e. What types of air emissions, including fugitive emissions, would be anticipated from the proposed project, and what would be the maximum annual rate of emissions for the project?

|                                                                                            | Maximum per Year | Total for Project |
|--------------------------------------------------------------------------------------------|------------------|-------------------|
| <input type="checkbox"/> SO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> NO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> PM - 2.5                                                          |                  |                   |
| <input type="checkbox"/> PM - 10                                                           |                  |                   |
| <input type="checkbox"/> CO                                                                |                  |                   |
| <input type="checkbox"/> CO <sub>2</sub>                                                   |                  |                   |
| <input type="checkbox"/> Lead                                                              |                  |                   |
| <input type="checkbox"/> H <sub>2</sub> S                                                  |                  |                   |
| <input type="checkbox"/> Organic solvent vapors or other volatile organic compounds--List: |                  |                   |
| <input type="checkbox"/> Hazardous air pollutants -- List:                                 |                  |                   |
| <input type="checkbox"/> Other -- List:                                                    |                  |                   |
| <input checked="" type="checkbox"/> None                                                   |                  |                   |

- f. Would any types of emission control or particulate collection devices be used?  
☒ No ☐ Yes (describe, including collection efficiencies)

- g. How would emissions be vented?

No new emissions will be generated.

### 7. Hydrologic Conditions/Water Quality

- a. What nearby water bodies may be affected by the proposed project? Provide distance(s) from the project site.

No water bodies will be affected by the proposed projects.

- b. What sources would supply potable and process water for the proposed project?

No water supplies will be needed for the projects.

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# ENVIRONMENTAL QUESTIONNAIRE

c. Quantify the wastewater that would be generated by the proposed project.

|                                                    | Gallons/day | Gallons/year |
|----------------------------------------------------|-------------|--------------|
| <input type="checkbox"/> Non-contact cooling water |             |              |
| <input type="checkbox"/> Process water             |             |              |
| <input type="checkbox"/> Sanitary                  |             |              |
| <input type="checkbox"/> Other -- describe:        |             |              |
| <input checked="" type="checkbox"/> None           |             |              |

d. What would be the major components of each type of wastewater (e.g., coal fines)? ☒ No wastewater produced

e. Identify the local treatment facility that would receive wastewater from the proposed project.

☒ No discharges to local treatment facility

f. Describe how wastewater would be collected and treated. ☒ No wastewater produced

g. Would any run-off or leachates be produced from storage piles or waste disposal sites? ☒ No ☐ Yes (describe source)

h. Would project require issuance of new or modified water permits to perform project work or site development activities?

☒ No ☐ Yes (describe)

i. Where would wastewater effluents from the proposed project be discharged? ☒ No wastewater produced

j. Would the proposed project be permitted to discharge effluents into an existing body of water?

☒ No ☐ Yes (describe water use and effluent impact)

k. Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required?

☒ No ☐ Yes (describe)

l. Would the proposed project adversely affect the quality or movement of groundwater? ☒ No ☐ Yes (describe)

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ENVIRONMENTAL QUESTIONNAIRE

- m. Would the proposed project require issuance of an [Underground Injection Control \(UIC\)](#) permit?

☒ No ☐ Yes (describe)

- n. Would the proposed project be located in or near a wellhead protection area, drinking water protection area, or above a sole source aquifer or underground source of drinking water (USDW)?

☒ No ☐ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

8. Solid and Hazardous Wastes

- a. Identify and estimate wastes that would be generated from the project. Solid wastes are defined as any solid, liquid, semi-solid, or contained gaseous material that is discarded, has served its intended purpose, or is a manufacturing or mining by-product (See [EPA Municipal Solid Waste](#) and [Municipal Solid Waste by State](#)).

|                                                                             | Annual Quantity |
|-----------------------------------------------------------------------------|-----------------|
| <input type="checkbox"/> Municipal solid waste (e.g., paper, plastic, etc.) |                 |
| <input type="checkbox"/> Coal or coal by-products                           |                 |
| <input checked="" type="checkbox"/> Other -- Identify:                      | ~100 wood poles |
| <input type="checkbox"/> Hazardous waste -- Identify:                       |                 |
| <input type="checkbox"/> None                                               |                 |

- b. Would project require issuance of new or modified solid waste and/or hazardous waste related permits to perform project work activities? ☒ No ☐ Yes (explain)

- c. How and where would solid waste disposal be accomplished?

☐ None generated  
☐ On-site (identify and describe location)  
☒ Off-site (identify location and describe facility and treatment)

Replaced poles will be returned to the nearest PPL Electric Utilities Corporation building to be sent for beneficial reuse through an outside vendor.

- d. How would wastes for disposal be transported?

Wood Poles are transported from work sites to PPL Electric facilities by PPL vehicles / trailers. Wood poles are transported from PPL Electric Facilities by salvage vendors.

- e. Describe hazardous wastes that would be generated, treated, handled, or stored under this project. Hazardous waste information can be found at [EPA Hazardous Waste](#) website. ☒ None

- f. How would hazardous or toxic waste be collected and stored? ☒ None used or produced

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## ENVIRONMENTAL QUESTIONNAIRE

- g. If hazardous wastes would require off-site disposal, have arrangements been made with a certified TSD (Treatment, Storage, and Disposal) facility?
- ☒ Not required    ☐ Arrangements not yet made    ☐ Arrangements made with a certified TSD facility (identify)

### 9. Health/Safety Factors

- a. Identify hazardous or toxic materials that would be used in the proposed project.
- ☒ None    ☐ Hazardous or toxic materials that would be used (identify):
- b. Describe the potential impacts of this project's hazardous materials on human health and the environment.
- ☒ None
- c. Would there be any special physical hazards or health risks associated with the project?    ☒ No    ☐ Yes (describe)
- d. Does a worker safety program exist at the location of the proposed project?    ☐ No    ☒ Yes (describe)
- Current worker safety programs exist for PPL Electric Utilities Corporation and will be followed for this project.
- e. Would additional safety training be necessary for any new laboratory, equipment, or processes involved with the project?
- ☐ No    ☒ Yes (describe)
- May require training for the installation and maintenance, i.e. procedure or installation demonstrations.
- f. Describe any increases in ambient noise levels to the public from construction and operational activities.
- ☐ None    ☒ Increase in ambient noise level (describe)
- Limited increase in ambient noise levels would occur if pole replacement is required.
- g. Would project construction result in the removal of natural or other barriers that act as noise screens?
- ☐ No construction planned    ☒ No    ☐ Yes (describe)
- h. Would hearing protection be required for workers?    ☐ No    ☒ Yes (describe)
- At times during construction, but not for the majority of the construction.

### 10. Environmental Restoration and/or Waste Management

- a. Would the proposed project include CERCLA removals or similar actions under RCRA or other authorities?
- ☒ No    ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- b. Would the proposed project include siting, construction, and operation of temporary pilot-scale waste collection and treatment facilities or pilot-scale waste stabilization and containment facilities? ☒ No ☐ Yes (describe)

- c. Would the proposed project involve operations of environmental monitoring and control systems?  
☒ No ☐ Yes (describe)

- d. Would the proposed project involve siting, construction, operation, or decommissioning of a facility for storing packaged hazardous waste for 90 days or less? ☒ No ☐ Yes (describe)

### E. REGULATORY COMPLIANCE

1. For the following laws, describe any existing permits, new or modified permits, manifests, responsible authorities or agencies, contacts, etc., that would be required for the proposed project

- a. Resource Conservation and Recovery Act ([RCRA](#)): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- b. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):  
☒ None ☐ New Required ☐ Modification Required  
Describe:

- c. Toxic Substance Control Act (TSCA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- d. Clean Water Act (CWA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- e. Underground Storage Tank Control Program (UST): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- f. Underground Injection Control Program (UIC): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- g. Clean Air Act (CAA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

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ENVIRONMENTAL QUESTIONNAIRE

- h. Endangered Species Act (ESA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- i. [Floodplains and Wetlands Regulations](#): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- j. Fish and Wildlife Coordination Act (FWCA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- k. National Historic Preservation Act (NHPA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- l. Coastal Zone Management Act (CZMA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

2. Identify any other environmental laws and regulations (Federal, state, and local) for which compliance would be necessary for this project, and describe the permits, manifests, and contacts that would be required.

N/A

- F. DESCRIBE ANY ISSUES THAT WOULD GENERATE PUBLIC CONTROVERSY REGARDING THE PROPOSED PROJECT. ☒ None

- G. WOULD THE PROPOSED PROJECT PRODUCE ADDITIONAL DEVELOPMENT, OR ARE OTHER MAJOR DEVELOPMENTS PLANNED OR UNDERWAY, IN THE PROJECT AREA?

☒ No ☐ Yes (describe)

- H. SUMMARIZE THE SIGNIFICANT IMPACTS THAT WOULD RESULT FROM THE PROPOSED PROJECT.

☒ None (provide supporting detail) ☐ Significant impacts (describe)

There are no significant impacts anticipated as a result of this project.

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## ENVIRONMENTAL QUESTIONNAIRE

**I. PROVIDE A DESCRIPTION OF HOW THE PROJECT WOULD BE DECOMMISSIONED, INCLUDING THE DISPOSITION OF EQUIPMENT AND MATERIALS.**

Upon decommissioning, hardware and utility poles would be returned to our facility for re-use, reclamation, or disposal at a licensed waste facility.

**III. CERTIFICATION BY PROPOSER**

I hereby certify that the information provided herein is current, accurate, and complete as of the date shown immediately below.

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)

Title: Project Manager

Organization: PPL Electric Utilities Corporation

**IV. REVIEW AND APPROVAL BY DOE**

I hereby certify that I have reviewed the information provided in this questionnaire, have determined that all questions have been appropriately answered, and judge the responses to be consistent with the efforts proposed.

**DOE Project Manager**

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)



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# ENVIRONMENTAL QUESTIONNAIRE

## I. INSTRUCTIONS

The proposer shall prepare this Environmental Questionnaire (EQ) as accurately and completely as possible. Supporting information can be provided as attachments. The proposer must identify the location of the project and specifically describe the activities that would occur at that location. The proposer must provide specific information and quantities, regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. In addition, the proposer must submit with this EQ a FINAL copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and the U.S Department of Energy (DOE).

## II. QUESTIONNAIRE

### A. PROJECT SUMMARY

1. Solicitation/Project Number: DE-FOA-0002740 Proposer: PPL Electric Utilities Corporation
2. This Environmental Questionnaire pertains to a: ☒ Recipient or Prime Contractor ☐ Sub-recipient or Subcontractor
3. Principal Investigator: Eric W. Beaver Telephone Number: (b) (6)
4. Project Title: Grid of Future - Single Phase Reclosers
5. Expected Project Duration: Five Years
6. Location of Activities covered by this Environmental Questionnaire: (City/Township, County, State):  
29 counties within the PPL Electric service territory in eastern and central Pennsylvania
7. List the full scope of activities planned (only for the location that is the subject of this Environmental Questionnaire).  
Install up to 250 recloser protective devices on single-phase taps to isolate the end of line outages from the rest of the distribution network (self-healing) and provide telemetry to operations, ultimately improving reliability.
8. List all other locations where work would be performed by the primary contractor of the project and subcontractor(s). Each of the following must have an individual Environmental Questionnaire.

| Subcontractor or sub-recipient | Location of activities for this project |
|--------------------------------|-----------------------------------------|
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |
|                                |                                         |

9. Identify and select the checkbox with the predominant project work activities under Group A, B, or C

#### Group A

- ☐ Routine administrative, procurement, training, and personnel actions. Contract activities/awards for management support, financial assistance, and technical services in support of agency business, programs, projects, and goals. Literature searches and information gathering, material inventories, property surveys; data analysis, computer modeling, analytical reviews, technical summary, conceptual design, feasibility studies, document preparation, data dissemination, and paper studies. Technical assistance including financial planning, assistance, classroom training, public meetings, management training, survey participation, academic contribution, technical consultation, and stakeholders surveys. Workshop and conference planning, preparation, and implementation which may involve promoting energy efficiency, renewable energy, and energy conservation.

**STOP! If all work activities related to this project can be classified and described within categories under Group A, proceed directly to Section III CERTIFICATION BY PROPOSER. No additional information is required.**  
**If project work activities are described in either Group(s) B or C; then continue filling out questionnaire.**

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## ENVIRONMENTAL QUESTIONNAIRE

### Group B

- ☐ Laboratory Scale Research, Bench Scale Research, Pilot Scale Research, Proof-of-Concept Scale Research, or Field Test Research. Work DOES NOT involve new building/facilities construction and site excavation/groundbreaking activities. This work typically involves routine operation of existing laboratories, commercial buildings/properties, offices and homes, project test facilities, factories/power plants, vehicles test stands and components, refueling facilities, utility systems, or other existing structures/facilities. Work will NOT involve major change in facilities missions and operations, land use planning, new/modified regulatory/operating permit requirements. Includes work specific to routine DOE Site operations and Lab research work activities, but NOT building construction and site preparation. DOE work typically involves laboratory facilities and lab equipment operations, buildings and grounds management activities; and buildings and facilities maintenance, repairs, reconfiguration, remodeling, equipment use and replacement.

### Group C

- ☒ Pilot Test Facilities Construction, Pilot Scale Research, Field Scale Demonstration, or Commercial Scale Application. Work typically involves facility construction, site preparation/excavation/groundbreaking, and/or demolition. This work would include construction, retrofit, replacement, and/or major modifications of laboratories, test facilities, energy system prototypes, and power generation infrastructure. Work may also involve construction and maintenance of utilities system right-of-ways, roads, vehicle test facilities, commercial buildings/properties, fuel refinery/mixing facilities, refueling facility, power plants, underground wells, and pipelines, and other types of energy research related facilities. This work may require new or modified regulatory permits, environmental sampling and monitoring requirements, master planning, public involvement, and environmental impact review. Includes work specific to DOE Site Operations and Lab operation activities involving building and facilities construction, replacement, decommissioning/demolition, site preparation, land use changes, or change in research facilities mission or operations.

### B. PROPOSED PROJECT ALTERNATIVES

1. If applicable, list any project alternatives considered to achieve the project objectives.  
No feasible alternatives that will achieve the project objectives.

### C. PROJECT LOCATION

1. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).  
29 counties within the PPL Electric service territory in eastern and central Pennsylvania
2. Attach a project site location map of the project work area.  
Attachment A: PPL Electric Utility Service Territory Map

### D. ENVIRONMENTAL IMPACTS

NEPA procedures require evaluations of possible effects (including land use, energy resource use, natural, historic and cultural resources, and pollutants) from proposed projects on the environment.

#### 1. Land Use

- a. Characterize present land use where the proposed project would be located.

|                                              |                                                       |                                                 |                                                  |
|----------------------------------------------|-------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| <input checked="" type="checkbox"/> Urban    | <input checked="" type="checkbox"/> Industrial        | <input checked="" type="checkbox"/> Commercial  | <input checked="" type="checkbox"/> Agricultural |
| <input checked="" type="checkbox"/> Suburban | <input checked="" type="checkbox"/> Rural             | <input checked="" type="checkbox"/> Residential | <input type="checkbox"/> Research Facilities     |
| <input checked="" type="checkbox"/> Forest   | <input checked="" type="checkbox"/> University Campus | <input type="checkbox"/> Other:                 |                                                  |

- b. Identify the total size of the facility, structure, or system and what portion would be used for the proposed project.

PPL Electric Utility's system encompasses 29 counties in eastern and central Pennsylvania and accounts for fifty thousand miles of power lines, with 1.5 million customers. The project will be on 250 individual locations throughout the territory.

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## ENVIRONMENTAL QUESTIONNAIRE

- c. Describe planned construction, installation, and/or demolition activities, i.e., roads, utilities system right-of-ways, parking lots, buildings, laboratories, storage tanks, fueling facilities, underground wells, pipelines, or other structures.

☐ No construction would be anticipated for this project.

Construction will be completed on existing facilities within existing right-of-ways (i.e. poles and equipment) with the possibility of installing new poles to accommodate upgrades.

- d. Describe how land use would be affected by operational activities associated with the proposed project.

☒ No land areas would be affected.

Current land use would not be affected.

- e. Describe any plans to reclaim areas that would be affected by the proposed project.

☒ No land areas would be affected.

Current land use would not be affected.

- f. Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)?

☒ No ☐ Yes (describe)

- g. Would the proposed project be located in or near local, state, or federal parks; forests; monuments; scenic waterways; wilderness; recreation facilities; or tribal lands? ☐ No ☒ Yes (describe)

The infrastructure upon which the reclosers are to be installed may be located in or near areas as categorized above, but no adverse effects are anticipated.

### 2. Construction Activities and/or Operation

- a. Identify project structure(s), power line(s), pipeline(s), utilities system(s), right-of-way(s) or road(s) that will be constructed and clearly mark them on a project site map or topographic map as appropriate. ☐ None

See attached map.

- b. Would the proposed project require the construction of waste pits or settling ponds?

☒ No ☐ Yes (describe and identify location, and estimate surface area disturbed)

- c. Would the proposed project affect any existing body of water? ☒ No ☐ Yes (describe)

- d. Would the proposed project impact a floodplain or wetland? ☒ No ☐ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- e. Would the proposed project potentially cause runoff/sedimentation/erosion? ☐ No ☒ Yes (describe)

Although no significant impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- f. Would the proposed project include activities located on perma-frost, near fault zones, or involve fracturing, well drilling, geologic stimulation, sequestration, active seismic data collection, and/or deepwater operations?

☒ No ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- g. Would the proposed project involve any of the following: nanotechnology; recombinant DNA or genetic engineering; facility decommissioning or disposition of equipment/materials; or management of radioactive wastes/materials?

☒ No ☐ Yes (describe)

### 3. Biological Resources

- a. Identify any State or Federally listed endangered or threatened plant or animal species potentially affected by the proposed project.

☒ None

Any State or Federally listed endangered or threatened plant or animal species will be avoided during the proposed project.

- b. Would any designated critical habitat be affected by the proposed project? ☐ No ☒ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- c. Describe any impacts that construction would have on any other types of sensitive or unique habitats.

☐ No planned construction ☐ No habitats ☒ None ☐ Impact (describe)

- d. Would any foreign substances/materials be introduced into ground or surface waters, soil, or other earth/geologic resource because of project activities? How would these foreign substances/materials affect the water, soil, biota, and geologic resources? ☒ No ☐ Yes (describe)

- e. Would any migratory animal corridors be impacted or disrupted by the proposed project? ☒ No ☐ Yes (describe)

### 4. Socioeconomic and Infrastructure Conditions

- a. Would local socio-economic changes result from the proposed project? ☐ No ☒ Yes (describe)

There will be no negative socio-economic impacts due to the project. However, there will be positive socio-economic impacts that are detailed in the attached community benefits plan.

- b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?

☒ No ☐ Yes (describe)

- c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.

☒ No ☐ Yes (describe)

- d. Would the proposed project create a significant increase in local energy usage? ☒ No ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

### 5. Historical/Cultural Resources

- a. Describe any historical, archaeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places. ☒ None

- b. Would construction or operational activities planned under the proposed project disturb any historical, archaeological, or cultural sites? ☐ No planned construction ☐ No historic sites ☐ Yes (describe) ☒ No Impact (discuss)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

- c. Has the State Historic Preservation Office been contacted with regard to this project? ☒ No ☐ Yes (describe)

- d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape? ☒ No ☐ Yes (describe)

- e. Would the proposed project be located on or adjacent to tribal lands, lands considered to be sacred, or lands used for traditional purposes? Describe any known tribal sensitivities for the proposed project area.

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

### 6. Atmospheric Conditions/Air Quality

- a. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards (NAAQS). This information is available under the Green Book Non-Attainment Areas for Criteria Pollutants located at <http://www.epa.gov/air/oaqps/greenbk/astate.html>

|                         | Attainment                          | Non-Attainment                      |
|-------------------------|-------------------------------------|-------------------------------------|
| O <sub>3</sub> - 1 Hour | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| O <sub>3</sub> - 8 Hour | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| SO <sub>x</sub>         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PM - 2.5                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PM - 10                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| CO                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| NO <sub>2</sub>         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Lead                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

- b. Would proposed project require issuance of new or modified local, state, or federal air permits to perform project related work and activities? ☒ No ☐ Yes (describe)

- c. Would the proposed project be in compliance with local and state air quality requirements? ☒ Yes  
If not, please explain.

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## ENVIRONMENTAL QUESTIONNAIRE

- d. Would the proposed project be classified as either a New Source or a major modification to an existing source?  
☒ No ☐ Yes (describe)

- e. What types of air emissions, including fugitive emissions, would be anticipated from the proposed project, and what would be the maximum annual rate of emissions for the project?

|                                                                                            | Maximum per Year | Total for Project |
|--------------------------------------------------------------------------------------------|------------------|-------------------|
| <input type="checkbox"/> SO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> NO <sub>x</sub>                                                   |                  |                   |
| <input type="checkbox"/> PM - 2.5                                                          |                  |                   |
| <input type="checkbox"/> PM - 10                                                           |                  |                   |
| <input type="checkbox"/> CO                                                                |                  |                   |
| <input type="checkbox"/> CO <sub>2</sub>                                                   |                  |                   |
| <input type="checkbox"/> Lead                                                              |                  |                   |
| <input type="checkbox"/> H <sub>2</sub> S                                                  |                  |                   |
| <input type="checkbox"/> Organic solvent vapors or other volatile organic compounds--List: |                  |                   |
| <input type="checkbox"/> Hazardous air pollutants -- List:                                 |                  |                   |
| <input type="checkbox"/> Other -- List:                                                    |                  |                   |
| <input checked="" type="checkbox"/> None                                                   |                  |                   |

- f. Would any types of emission control or particulate collection devices be used?  
☒ No ☐ Yes (describe, including collection efficiencies)

- g. How would emissions be vented?

No new emissions will be generated.

### 7. Hydrologic Conditions/Water Quality

- a. What nearby water bodies may be affected by the proposed project? Provide distance(s) from the project site.

No water bodies will be affected by the proposed projects.

- b. What sources would supply potable and process water for the proposed project?

No water supplies will be needed for the projects.

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# ENVIRONMENTAL QUESTIONNAIRE

c. Quantify the wastewater that would be generated by the proposed project.

|                                                    | Gallons/day | Gallons/year |
|----------------------------------------------------|-------------|--------------|
| <input type="checkbox"/> Non-contact cooling water |             |              |
| <input type="checkbox"/> Process water             |             |              |
| <input type="checkbox"/> Sanitary                  |             |              |
| <input type="checkbox"/> Other -- describe:        |             |              |
| <input checked="" type="checkbox"/> None           |             |              |

d. What would be the major components of each type of wastewater (e.g., coal fines)? ☒ No wastewater produced

e. Identify the local treatment facility that would receive wastewater from the proposed project.

☒ No discharges to local treatment facility

f. Describe how wastewater would be collected and treated. ☒ No wastewater produced

g. Would any run-off or leachates be produced from storage piles or waste disposal sites? ☒ No ☐ Yes (describe source)

h. Would project require issuance of new or modified water permits to perform project work or site development activities?

☒ No ☐ Yes (describe)

i. Where would wastewater effluents from the proposed project be discharged? ☒ No wastewater produced

j. Would the proposed project be permitted to discharge effluents into an existing body of water?

☒ No ☐ Yes (describe water use and effluent impact)

k. Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required?

☒ No ☐ Yes (describe)

l. Would the proposed project adversely affect the quality or movement of groundwater? ☒ No ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- m. Would the proposed project require issuance of an [Underground Injection Control \(UIC\)](#) permit?

☒ No ☐ Yes (describe)

- n. Would the proposed project be located in or near a wellhead protection area, drinking water protection area, or above a sole source aquifer or underground source of drinking water (USDW)?

☒ No ☐ Yes (describe)

Although no impacts are anticipated, internal environmental reviews will be conducted to ensure compliance with all local/state/federal regulations.

### 8. Solid and Hazardous Wastes

- a. Identify and estimate wastes that would be generated from the project. Solid wastes are defined as any solid, liquid, semi-solid, or contained gaseous material that is discarded, has served its intended purpose, or is a manufacturing or mining by-product (See [EPA Municipal Solid Waste](#) and [Municipal Solid Waste by State](#)).

|                                                                             | Annual Quantity |
|-----------------------------------------------------------------------------|-----------------|
| <input type="checkbox"/> Municipal solid waste (e.g., paper, plastic, etc.) |                 |
| <input type="checkbox"/> Coal or coal by-products                           |                 |
| <input checked="" type="checkbox"/> Other -- Identify:                      | 250 Wood poles  |
| <input type="checkbox"/> Hazardous waste -- Identify:                       |                 |
| <input type="checkbox"/> None                                               |                 |

- b. Would project require issuance of new or modified solid waste and/or hazardous waste related permits to perform project work activities? ☒ No ☐ Yes (explain)

- c. How and where would solid waste disposal be accomplished?

☐ None generated  
☐ On-site (identify and describe location)  
☒ Off-site (identify location and describe facility and treatment)

Replaced poles will be returned to the nearest PPL Electric Utilities Corporation building to be sent for beneficial reuse through an outside vendor.

- d. How would wastes for disposal be transported?

Wood Poles are transported from work sites to PPL Electric facilities by PPL vehicles / trailers. Wood poles are transported from PPL Electric Facilities by salvage vendors.

- e. Describe hazardous wastes that would be generated, treated, handled, or stored under this project. Hazardous waste information can be found at [EPA Hazardous Waste](#) website. ☒ None

- f. How would hazardous or toxic waste be collected and stored? ☒ None used or produced



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- g. If hazardous wastes would require off-site disposal, have arrangements been made with a certified TSD (Treatment, Storage, and Disposal) facility?
- ☒ Not required    ☐ Arrangements not yet made    ☐ Arrangements made with a certified TSD facility (identify)

### 9. Health/Safety Factors

- a. Identify hazardous or toxic materials that would be used in the proposed project.
- ☒ None    ☐ Hazardous or toxic materials that would be used (identify):
- b. Describe the potential impacts of this project's hazardous materials on human health and the environment.
- ☒ None
- c. Would there be any special physical hazards or health risks associated with the project?    ☒ No    ☐ Yes (describe)
- d. Does a worker safety program exist at the location of the proposed project?    ☐ No    ☒ Yes (describe)
- Current worker safety programs exist for PPL Electric Utilities Corporation and will be followed for this project.
- e. Would additional safety training be necessary for any new laboratory, equipment, or processes involved with the project?
- ☒ No    ☐ Yes (describe)
- f. Describe any increases in ambient noise levels to the public from construction and operational activities.
- ☐ None    ☒ Increase in ambient noise level (describe)
- Limited increase in ambient noise levels would occur if pole replacement is required.
- g. Would project construction result in the removal of natural or other barriers that act as noise screens?
- ☐ No construction planned    ☒ No    ☐ Yes (describe)
- h. Would hearing protection be required for workers?    ☐ No    ☒ Yes (describe)
- At times during construction, but not for the majority of the construction.

### 10. Environmental Restoration and/or Waste Management

- a. Would the proposed project include CERCLA removals or similar actions under RCRA or other authorities?
- ☒ No    ☐ Yes (describe)

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## ENVIRONMENTAL QUESTIONNAIRE

- b. Would the proposed project include siting, construction, and operation of temporary pilot-scale waste collection and treatment facilities or pilot-scale waste stabilization and containment facilities? ☒ No ☐ Yes (describe)

- c. Would the proposed project involve operations of environmental monitoring and control systems?  
☒ No ☐ Yes (describe)

- d. Would the proposed project involve siting, construction, operation, or decommissioning of a facility for storing packaged hazardous waste for 90 days or less? ☒ No ☐ Yes (describe)

### E. REGULATORY COMPLIANCE

1. For the following laws, describe any existing permits, new or modified permits, manifests, responsible authorities or agencies, contacts, etc., that would be required for the proposed project

- a. Resource Conservation and Recovery Act ([RCRA](#)): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- b. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):  
☒ None ☐ New Required ☐ Modification Required  
Describe:

- c. Toxic Substance Control Act (TSCA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- d. Clean Water Act (CWA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- e. Underground Storage Tank Control Program (UST): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- f. Underground Injection Control Program (UIC): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- g. Clean Air Act (CAA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

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- h. Endangered Species Act (ESA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- i. [Floodplains and Wetlands Regulations](#): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- j. Fish and Wildlife Coordination Act (FWCA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- k. National Historic Preservation Act (NHPA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

- l. Coastal Zone Management Act (CZMA): ☒ None ☐ New Required ☐ Modification Required  
Describe:

2. Identify any other environmental laws and regulations (Federal, state, and local) for which compliance would be necessary for this project, and describe the permits, manifests, and contacts that would be required.

N/A

- F. DESCRIBE ANY ISSUES THAT WOULD GENERATE PUBLIC CONTROVERSY REGARDING THE PROPOSED PROJECT. ☒ None

- G. WOULD THE PROPOSED PROJECT PRODUCE ADDITIONAL DEVELOPMENT, OR ARE OTHER MAJOR DEVELOPMENTS PLANNED OR UNDERWAY, IN THE PROJECT AREA?

☒ No ☐ Yes (describe)

- H. SUMMARIZE THE SIGNIFICANT IMPACTS THAT WOULD RESULT FROM THE PROPOSED PROJECT.

☒ None (provide supporting detail) ☐ Significant impacts (describe)

There are no significant impacts anticipated as a result of this project.

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## ENVIRONMENTAL QUESTIONNAIRE

**I. PROVIDE A DESCRIPTION OF HOW THE PROJECT WOULD BE DECOMMISSIONED, INCLUDING THE DISPOSITION OF EQUIPMENT AND MATERIALS.**

Upon decommissioning, hardware and utility poles would be returned to our facility for re-use, reclamation, or disposal at a licensed waste facility.

**III. CERTIFICATION BY PROPOSER**

I hereby certify that the information provided herein is current, accurate, and complete as of the date shown immediately below.

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)

Title: Project Manager

Organization: PPL Electric Utilities Corporation

**IV. REVIEW AND APPROVAL BY DOE**

I hereby certify that I have reviewed the information provided in this questionnaire, have determined that all questions have been appropriately answered, and judge the responses to be consistent with the efforts proposed.

**DOE Project Manager**

Signature: 

Date (mm/dd/yyyy): 03/13/2023

Typed Name: Eric Resch (Mar 13, 2023 17:21 EDT)

**Attachment A: PPL Electric Utilities Service Territory Map**

