



**PPL Electric Utilities**

**Project Proposal  
2016\_2-J: New line Nickel - Warren  
for  
2016 RTEP Project Proposal Window 2**

**Submitted Aug 15, 2016**

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## **A Executive Summary**

### **A.1 Name of proposing entity**

This proposal is submitted by PPL Electric Utilities (PPL EU)

### **A.2 Proposal Window and associated violation/issue being addressed**

2016 RTEP Proposal Window 2

#### **A.2.1 Reliability Violations addressed by project**

The proposed solution relieves one Generator Deliverability violations (Flow Gate # 907) as identified in PJM's 2016 RTEP Proposal Window 2 Violations study results.

#### **A.2.2 Violations caused by proposal/nearby violations not addressed by your proposal**

No new violations were caused by this project proposal. The project doesn't address one nearby N-1-1 Thermal violation (Flow Gate # N2-T6)

### **A.3 Project interaction with TO zones and neighboring Balancing Authority**

This project proposal is in Warren county of Ohio within DEOK zone and doesn't cross over to any neighboring TO zone or Balancing Authority.

### **A.4 Description of the proposed solution**

PPL EU is proposing '2016\_2-J: New line Nickel - Warren' (the "Project") to resolve aforementioned reliability violations. The Project includes the following components:

- Greenfield Nickel Substation: New substation with three (3) line positions, three (3) 138kV breakers and associated disconnect switches. Route the two existing lines into the new substation.
- Warren Substation Modification: Addition of one (1) line position, one (1) 138kV breaker and associated disconnect switches.
- Greenfield Transmission Line: New 1.5 miles 138kV double bundle single circuit transmission line between Greenfield Nickel 138kV substation and Warren 138kV substation using 795 ACSR type conductors. We estimate that about 80% length of this line will be routed adjacent to existing ROW.

**A.5 Description of how the project should be considered**

This project should be considered as whole.

**A.6 High Level overview of cost and cost commitment**

This Project has estimated cost of \$14,274,800 in 2016\$.

**A.7 Additional benefits of your proposal above solving the identified violation/constrains**

As mentioned above, the project causes no new violations. In addition, we estimate that we can deliver this project as early as 12/31/2018 thus exceeding PJM’s target date for resolving the violations.

**A.8 Affirmation of Pre-Qualification Information**

PPL EU’s pre-qualification information on record with PJM and as posted on PJM’s website, submitted on June 28, 2013 through the Office of the Interconnection prior to the opening of the Market Efficiency project proposal window, reflects the company’s current qualifications to be eligible for Designated Entity status as defined in the PJM Amended and Restated Operating Agreement (“PJM OA”) in Section 1.5.8(a) (PJM Designation 13-12).