



PPL Electric Utilities

Project Proposal

2016_2-G: New line Meadow Lake – Dequine - Eugene

for

2016 RTEP Project Proposal Window 2

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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 five Generator Deliverability violations (Flow Gates # 64, 128, 130, 131, 134) and two N-1 violation (Flow Gates # 101, 102) 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

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

This project proposal spans Vermillion, Tippecanoe and White counties in Indiana within AEP 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-G: New line Meadow Lake – Dequine – Eugene**’ (the “Project”) to resolve aforementioned reliability violations. The Project includes the following components -

- Meadow Lake Substation Modification: Addition of one (1) line position in a new two (2) 345kV breaker bay, each new breaker with associated disconnect switches.
- Dequine Substation Modification: Addition of two (2) line positions in a new three (3) 345 kV breaker bay, each new breaker with associated disconnect switches.
- Eugene Substation Modification: Addition of one (1) line position in a new two (2) 345kV breaker bay, each new breaker with associated disconnect switches.

- Greenfield Transmission Line: New 13.7 mile 345kV double-bundle single circuit transmission line between exiting Meadow Lake 345kV substation and Dequine 345kV using 1590 ACSR type conductor. We estimate that about two-third of this line will be routed adjacent to existing ROW.
- Greenfield Transmission Line: New 48 mile 345kV double-bundle single circuit transmission line between existing Dequine 345kV substation and Eugene 345kV substation using 1590 ACSR type conductors. We estimate that about one-third 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 \$136,993,619 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 3/31/2020 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).