Juniata - Sunbury 500 kV line EOL SCT rebuild

General Information

Company proposal ID

PJM Proposal ID

Proposing entity name Proprietary Information

Does the entity who is submitting this proposal intend to be the

Designated Entity for this proposed project?

Proprietary Information

16

Proprietary Information

Project title Juniata - Sunbury 500 kV line EOL SCT rebuild

Project description Address End of Life concerns by rebuilding the existing 38-mile Juniata - Sunbury 500 kV line using

single circuit design.

Email Proprietary Information

Project in-service date 05/2030

Tie-line impact No

Interregional project No

Is the proposer offering a binding cap on capital costs?

Yes

Additional benefits Proprietary Information

Project Components

1. Juniata - Sunbury 500 kV line EOL rebuild

Transmission Line Upgrade Component

Component title Juniata - Sunbury 500 kV line EOL rebuild

Project description Proprietary Information

2025-W1-16

Impacted transmission line Juniata - Sunbury 500 kV line Point A Juniata Sunbury Point B Point C Terrain description Existing transmission corridor with established access points to structures, generally composed of rural farm field areas with rolling hills. **Existing Line Physical Characteristics** Operating voltage 500 Conductor size and type Double Bundle 2493 ACAR 54/37 conductor Hardware plan description All infrastructure associated with the line will be removed and replaced with new 500 kV hardware and assemblies. Tower line characteristics Existing structures will be completely removed and replaced with new 500 kV steel monopole structures on concrete foundations. **Proposed Line Characteristics** Designed Operating Voltage (kV) 500.000000 500.000000 Normal ratings **Emergency ratings** Summer (MVA) 2707.000000 3112.000000 Winter (MVA) 3207.000000 3566.000000 Conductor size and type Triple bundle 1113 54/19 ACSS conductor Shield wire size and type 19n9 OHGW Rebuild line length 38 miles

Rebuild portion description Developer proposes to rebuild the entire line between Juniata and Sunbury, offset from center line

to mitigate long-duration 500 kV outages for the rebuild.

Right of way Developer plans to leverage existing brownfield ROW for the rebuild.

Construction responsibility Proprietary Information

Benefits/Comments Proprietary Information

Component Cost Details - In Current Year \$

Engineering & design Proprietary Information

Permitting / routing / siting Proprietary Information

ROW / land acquisition Proprietary Information

Materials & equipment Proprietary Information

Construction & commissioning Proprietary Information

Construction management Proprietary Information

Overheads & miscellaneous costs Proprietary Information

Contingency Proprietary Information

Total component cost \$162,887,106.07

Component cost (in-service year) \$191,480,569.77

Congestion Drivers

None

Existing Flowgates

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-PPL-EOL1	N/A	N/A	N/A	N/A	N/A	500	229	End of Life	Included

New Flowgates

Proprietary Information

Financial Information

Capital spend start date 02/2026

Construction start date 03/2028

Project Duration (In Months) 51

Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year) Proprietary Information

Components covered by cost containment

1. Juniata - Sunbury 500 kV line EOL rebuild - PPL

Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting Yes

ROW / land acquisition Yes

Materials & equipment Yes

Construction & commissioning Yes

Construction management Yes

Overheads & miscellaneous costs Yes

Taxes No

AFUDC

Escalation Yes

Additional Information Proprietary Information

No

Is the proposer offering a binding cap on ROE?

Is the proposer offering a Debt to Equity Ratio cap?

Proprietary Information

Additional Comments

None