Line 578 (Septa-Surry) Terminal Equipment Upgrade

General Information

Proposing entity name

Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?

Company proposal ID

PJM Proposal ID

Project title

Email

Project description

Tie-line impact

Interregional project

Project in-service date

Is the proposer offering a binding cap on capital costs?

Additional benefits

Project Components

Surry Substation Line Terminal Upgrade

2. Septa Substation Line Terminal Upgrade (993591)

Substation Upgrade Component

Component title

Project description

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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311

Line 578 (Septa-Surry) Terminal Equipment Upgrade

Upgrade all terminal equipment supporting Line #578.

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06/2032

No

No

Yes

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Surry Substation Line Terminal Upgrade

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2025-W1-311

Substation name
Substation zone

Substation upgrade scope

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Surry

500

Purchase & Install Substation Material: 1. Five (5), 500kV, 5000A, Double End Break Switches 2. Three (3), 396kV MO (S), 318kV MCOV Station Class Surge Arresters 3. Three (3), 500kV, Coupling Capacitor Voltage Transformers 4. One (1), 500kV, 5000A, 90-200kHz, Wave Trap 5. Approximately 1000 FT of 6 in. Sch. 80 tube bus 6. Conductor, connectors, conduit, control cable, foundations, steel structures and grounding material as necessary per engineering standards Remove Substation Material: 1. Five (5), 500kV, 3000A, Double End Break Switches 2. Three (3), 500kV, Coupling Capacitor Voltage Transformers 3. One (1), 500kV, 3000A, 90-200kHz, Wave Trap 4. Approximately 50 FT of 6 in. Sch. 40 tube bus 5. Approximately 550 FT of 5 in. Sch. 40 tube bus 6. Approximately 400 FT of 31/2 in. Sch. 40 tube bus 7. Conductor, connectors, conduit, control cable, foundations, steel structures and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 4506 – 3Ø CCVT Potential Makeup Box Remove Relay Material: 1. Five (5), 500kV, 3000A, Double End Break Switches 2. Three (3), 500kV, Coupling Capacitor Voltage Transformers 3. One (1), 500kV, 3000A, 90-200kHz, Wave Trap 4. Approximately 50 FT of 6 in. Sch. 40 tube bus 5. Approximately 550 FT of 5 in. Sch. 40 tube bus 6. Approximately 400 FT of 3½ in. Sch. 40 tube bus 7. Conductor, connectors, conduit, control cable, foundations, steel structures and grounding material as necessary per engineering standards

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- 1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. 4-hole pad connections must be replaced with 6-hole pad connections to maintain 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 4. Alternative 1 is a Substation upgrade only. No transmission line rebuild. The existing transmission line conductor will become the most limiting element for Line #578.

Substation is not being expanded.

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Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

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\$3,384,430.00

\$3,624,725.00

Septa Substation Line Terminal Upgrade (993591)

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Septa

500

Purchase & Install Substation Material: 1. Three (3), 500kV, Coupling Capacitor Voltage Transformers 2. One (1), 500kV, 5000A, 90-200kHz, Wave Trap 3. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Remove Substation Material: 1. Three (3), 500kV, Coupling Capacitor Voltage Transformers 2. One (1), 500kV, 3000A, 90-200kHz, Wave Trap 3. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 4506 – 3Ø CCVT Potential Makeup Box

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Congestion Drivers

None

1. Three (3), 500kV, Coupling Capacitor Voltage Transformers 2. One (1), 500kV, 5000A, 90-200kHz, Wave Trap 3. One (1), 4506 – 3Ø CCVT Potential Makeup Box

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\$511,853.60

\$548,195.00

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Existing Flowgates

None

New Flowgates

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Financial Information

Capital spend start date 01/2026

Construction start date 06/2029

Project Duration (In Months) 77

Cost Containment Commitment

Cost cap (in current year)

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Cost cap (in-service year)

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Components covered by cost containment

1. Surry Substation Line Terminal Upgrade - Dominion

2. Septa Substation Line Terminal Upgrade (993591) - Dominion

Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting No

ROW / land acquisition No

Materials & equipment No

Construction & commissioning No

Construction management	No
Overheads & miscellaneous costs	No
Taxes	No
AFUDC	No
Escalation	No
Additional Information	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	Yes
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	No
Is the proposer offering a Debt to Equity Ratio cap?	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Additional Comments

None