Susquehanna T10 Station Line Reconfiguration

General Information

Proposing entity name Proprietary Information

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

Company proposal ID Proprietary Information

PJM Proposal ID 549

Project title Susquehanna T10 Station Line Reconfiguration

Project description

Break the Glenbrook - Susquehanna 230 kV line and loop it in and out of the Susquehanna T10

Station.

Email Proprietary Information

Project in-service date 12/2028

Tie-line impact No

Interregional project No

Is the proposer offering a binding cap on capital costs?

Additional benefits Proprietary Information

Project Components

1. Susquehanna T10 230 kV Station Reconfiguration

2. Susquehanna - Glen Brook 230 kV line taps

Substation Upgrade Component

Component title Susquehanna T10 230 kV Station Reconfiguration

2024-W1-549

Project description Proprietary Information

Substation name Susquehanna T10 230 kV Station

Substation zone PPL

Substation upgrade scope Add one new bay at the T10 Station with 3 new 230 kV 3,000 A breakers and 6 new 230 kV 3,000

A MODs.

Transformer Information

None

New equipment description 3 new 230 kV 3,000 A breakers 6 new 230 kV 3,000 A MODs

Substation assumptions No Assumptions made. Station is owned by proposer and space is sufficient to accommodate

upgrade.

Real-estate description No station expansion required.

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 \$6,275,000.00

Component cost (in-service year) \$6,834,555.08 **Transmission Line Upgrade Component** Component title Susquehanna - Glen Brook 230 kV line taps Project description **Proprietary Information** Susquehanna - Glen Brook 230 kV line Impacted transmission line Susquehanna Point A Point B Glen Brook Point C Terrain description Rolling hills adjacent to an existing substation. **Existing Line Physical Characteristics** Operating voltage 230 Conductor size and type 1590 ACSR 45/7 Hardware plan description All new hardware will be installed for structures associated with the taps. New structures will be installed for the taps that are similar to the attached drawing (Typ 230kV Tower line characteristics Trans Structure for Tap.pdf). **Proposed Line Characteristics** Designed Operating Voltage (kV) 230.000000 230.000000 Normal ratings **Emergency ratings** Summer (MVA) 647.000000 801.000000 Winter (MVA) 746.000000 903.000000 Conductor size and type 1590 54/19 ACSS

Shield wire size and type dual 144 count OPGW

Rebuild line length 0.2 miles

Rebuild portion description Break the existing Susquehanna - Glen Brook 230 kV line and loop it 0.2 miles in and out of the

Susquehanna T10 230 kV Station.

Right of way Work is anticipated to be completed in existing ROW. No new ROW required.

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 \$3,225,000.00

Component cost (in-service year) \$3,512,580.10

Congestion Drivers

None

Existing Flowgates

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2024W1-GD-S896	207915	GLBR	208120	SU10	1	230	229	Summer Gen Deliv	Included

New Flowgates

Proprietary Information

Financial Information

Capital spend start date 07/2025

Construction start date 07/2028

Project Duration (In Months) 41

Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year) Proprietary Information

Components covered by cost containment

1. Susquehanna T10 230 kV Station Reconfiguration - PPL

2. Susquehanna - Glen Brook 230 kV line taps - PPL

Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting Yes

ROW / land acquisition No

Materials & equipment Yes

Construction & commissioning Yes

Construction management

Yes

Overheads & miscellaneous costs

No

Taxes

No

AFUDC

No

Escalation

No

Additional Information

Proprietary Information

Is the proposer offering a binding cap on ROE?

No

Is the proposer offering a Debt to Equity Ratio cap?

Proprietary Information

Additional Comments

None