Montour - Glen Brook 230 kV 1 & 2 DCT line reconductor or rebuild

General Information

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
Company proposal ID	Proprietary Information
PJM Proposal ID	958
Project title	Montour - Glen Brook 230 kV 1 & 2 DCT line reconductor or rebuild
Project description	The Montour - Glen Brook 230 kV 1 & 2 DCT line is 24.9 miles long. For this project, the Developer will reconduct 0.70 miles of this route with ACCC 1036/87/392 (2045 kcmil) conductor. Another 5.2 miles of the route will be rebuilt with new steel pole structures and double-bundle 1590 ACSR conductor. The remaining 19 miles of the route is being rebuilt and reconductored as part of Supplemental Project s2373 to address End of Life for CORTEN structures.
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. Montour - Glen Brook 230 kV 1 & 2 DCT line reconductor or rebuild
2. Glen Brook 230/69 kV Substation MOD upgrades

Transmission Line Upgrade Component

Component title	Montour - Glen Brook 230 kV 1 & 2 DCT line reconductor or rebuild
Project description	Proprietary Information
Impacted transmission line	Montour - Glen Brook 230 kV 1 & 2 DCT line
Point A	Montour
Point B	Glen Brook
Point C	
Terrain description	Existing transmission corridor traverses farm field, mountainous terrain, and rural environment.
Existing Line Physical Characteristics	
Operating voltage	230
Conductor size and type	1590 ACSR 45/7 conductor
Hardware plan description	All hardware associated with the existing line will be replaced for both the reconductor and rebuild segments of the proposed project.
Tower line characteristics	The Montour - Glen Brook 230 kV 1 & 2 DCT line is 24.9 miles long. For this project, the Developer will reconduct 0.70 miles of this route with ACCC 1036/87/392 (2045 kcmil) conductor. Another 5.2 miles of the route will be rebuilt with new steel pole structures and double-bundle 1590 ACSR conductor. The remaining 19 miles of the route is being rebuilt and reconductored as part of Supplemental Project s2373 to address End of Life for CORTEN structures.
Proposed Line Characteristics	

	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	1196.000000	1352.000000
Winter (MVA)	1269.000000	1425.000000

Conductor size and type	ACCC 1036/87/392 (2045 kcmil) conductor for reconductor, Double-bundle 1590 ACSR for rebuild
Shield wire size and type	OPGW
Rebuild line length	5.2 miles
Rebuild portion description	5.2 miles of the route will be rebuilt with new steel pole structures and double-bundle 1590 ACSR conductor.
Right of way	Existing ROW will not be altered.
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	$37,154,130.74
Component cost (in-service year)	$41,780,700.50

Substation Upgrade Component

Component title	Glen Brook 230/69 kV Substation MOD upgrades
Project description	Proprietary Information

Substation name	Glen Brook 230/69 kV Substation
Substation zone	PPL EU
Substation upgrade scope	At Glen Brook 230/69 kV Substation, replace ten 230 kV 2,000 amp MODs with 230 kV 3,000 amp MODs.

Transformer Information

None

New equipment description	Ten 230 kV 3,000 amp MODs
Substation assumptions	Replacement of existing equipment in kind with higher rated equipment.
Real-estate description	No new real estate is required for this project.
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	$2,496,814.00
Component cost (in-service year)	$2,807,726.51

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
2025W1-32GD-S141	208040	MONT	207915	GLBR	2	230	229	2032 Generation Deliverability	Included
2025W1-32GD-S160	208040	MONT	207915	GLBR	1	230	229	2032 Generation Deliverability	Included
2025W1-32GD-S140	208040	MONT	207915	GLBR	1	230	229	2032 Generation Deliverability	Included
2025W1-32GD-S139	208040	MONT	207915	GLBR	1	230	229	2032 Generation Deliverability	Included
2025W1-32GD-S136	208040	MONT	207915	GLBR	1	230	229	2032 Generation Deliverability	Included
2025W1-32GD-S137	208040	MONT	207915	GLBR	2	230	229	2032 Generation Deliverability	Included

New Flowgates

Proprietary Information

Financial Information

Capital spend start date	02/2026
Construction start date	08/2028
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. Montour - Glen Brook 230 kV 1 & 2 DCT line reconductor or rebuild - PPL

2. Glen Brook 230/69 kV Substation MOD upgrades - 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	No
Escalation	Yes
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