Platter Creek-Sherwood-Auglaize 69kV Line Rebuild

General Information

Proposing entity name	AEPSCT
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	AEP_Z
PJM Proposal ID	724
Project title	Platter Creek-Sherwood-Auglaize 69kV Line Rebuild
Project description	Rebuild approximately 14.6 miles of the Platter Creek-Sherwood and Sherwood-Auglaize 69kV circuits with single circuit steel poles.
Email	jmperez@aep.com
Project in-service date	02/2030
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Addresses aging infrastructure by rebuilding assets that were installed originally in the 1920's.

Project Components

1. Platter Creek-Sherwood 69kV Circuit
2. Sherwood-Auglaize 69kV Circuit

Transmission Line Upgrade Component

Component title	Platter Creek-Sherwood 69kV Circuit

Project description	Rebuild approximately 3.5 miles of 69kV line from Platter Creek to Sherwood station.
Impacted transmission line	Platter Creek-Sherwood 69kV Circuit
Point A	Platter Creek
Point B	Sherwood
Point C	
Terrain description	Flat/Agricultural with some urban areas.
Existing Line Physical Characteristics	
Operating voltage	69
Conductor size and type	4/0 ACSR 6/1 Penguin
Hardware plan description	Hardware will be replaced under this proposal.
Tower line characteristics	The existing line was originally installed in 1923 and consists of single circuit wood poles and 4/0 ACSR Conductor.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	69.000000	69.000000
	Normal ratings	Emergency ratings
Summer (MVA)	82.000000	90.000000
Winter (MVA)	107.000000	113.000000
Conductor size and type	556 ACSR 26/7 Dove	
Shield wire size and type	7#10 Alumoweld	
Rebuild line length	3.5 miles	

Rebuild portion description	The circuit will be rebuilt from Platter Creek to Sherwood station using steel monopoles and 556 ACSR Dove conductor.
Right of way	Currently, the circuit runs through road right of way. AEP will augment the right of way and remediate any encroachments encountered as needed
Construction responsibility	AEP
Benefits/Comments	
Component Cost Details - In Current Year $	
Engineering & design	Detailed cost breakdown
Permitting / routing / siting	Detailed cost breakdown
ROW / land acquisition	Detailed cost breakdown
Materials & equipment	Detailed cost breakdown
Construction & commissioning	Detailed cost breakdown
Construction management	Detailed cost breakdown
Overheads & miscellaneous costs	Detailed cost breakdown
Contingency	Detailed cost breakdown
Total component cost	$7,169,859.07
Component cost (in-service year)	$7,169,859.07

Transmission Line Upgrade Component

Component title	Sherwood-Auglaize 69kV Circuit
Project description	Rebuild approximately 11.1 miles of 69kV line from Sherwood to Auglaize station.
Impacted transmission line	Auglaize-Sherwood 69kV Circuit
Point A	Sherwood
Point B	Auglaize

Point C

Terrain description	Flat/Agricultural with some urban areas.

Existing Line Physical Characteristics

Operating voltage	69
Conductor size and type	4/0 ACSR 6/1 Penguin
Hardware plan description	Hardware will be replaced under this proposal.
Tower line characteristics	The existing line was originally installed in 1923 and consists of single circuit wood poles and 4/0 ACSR Conductor.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	69.000000	69.000000
	Normal ratings	Emergency ratings
Summer (MVA)	82.000000	90.000000
Winter (MVA)	107.000000	113.000000

Conductor size and type	556 ACSR 26/7 Dove
Shield wire size and type	7#10 Alumoweld
Rebuild line length	11.1 miles
Rebuild portion description	The circuit will be rebuilt from Auglaize to Sherwood station using steel monopoles and 556 ACSR Dove conductor.
Right of way	Currently, the circuit runs through road right of way. AEP will augment the right of way and remediate any encroachments encountered as needed
Construction responsibility	AEP

Benefits/Comments

Component Cost Details - In Current Year $

Engineering & design	Detailed cost breakdown
Permitting / routing / siting	Detailed cost breakdown
ROW / land acquisition	Detailed cost breakdown
Materials & equipment	Detailed cost breakdown
Construction & commissioning	Detailed cost breakdown
Construction management	Detailed cost breakdown
Overheads & miscellaneous costs	Detailed cost breakdown
Contingency	Detailed cost breakdown
Total component cost	$21,509,577.21
Component cost (in-service year)	$21,509,577.21

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-AEP-T1	245864	05AUGLAIZE	245904	05SHERWOOD	1	69	205	FERC 715 Thermal	Included
2025W1-AEP-T5	245904	05SHERWOOD	245864	05AUGLAIZE	1	69	205	FERC 715 Thermal	Included
2025W1-AEP-T4	245904	05SHERWOOD	290390	05PLATTERCRK	1	69	205	FERC 715 Thermal	Included
2025W1-AEP-T3	290390	05PLATTERCRK	245904	05SHERWOOD	1	69	205	FERC 715 Thermal	Included
2025W1-AEP-T2	290390	05PLATTERCRK	245904	05SHERWOOD	1	69	205	FERC 715 Thermal	Included
2025W1-AEP-T6	245904	05SHERWOOD	245864	05AUGLAIZE	1	69	205	FERC 715 Thermal	Included

New Flowgates

None

Financial Information

Capital spend start date	04/2026
Construction start date	11/2028
Project Duration (In Months)	46

Additional Comments

None