Genoa-Westar Sag Remediation

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_J
PJM Proposal ID	464
Project title	Genoa-Westar Sag Remediation
Project description	Project will mitigate clearance issues on Westar - Genoa 138 kV line to allow line to operate to conductor's designed rating
Email	nckoehler@aep.com
Project in-service date	02/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. Genoa-Westar 138 kV Sag Study

Transmission Line Upgrade Component

Component title	Genoa-Westar 138 kV Sag Study
Project description	Mitigate clearance issues on Westar - Genoa 138 kV line to allow line to operate to conductor's designed rating. Scope includes 3 structure modifications and 12 structure replacements.

Impacted transmission line	Genoa-Westar 138 kV
Point A	Genoa
Point B	Westar
Point C	
Terrain description	Flat terrain, through urban areas.
Existing Line Physical Characteristics	
Operating voltage	138
Conductor size and type	636 ACSR Grosbeak
Hardware plan description	Majority of existing hardware will be reused, hardware to be removed and new hardware installed at locations of structure replacements/modifications shown in the KMZ.
Tower line characteristics	Structures are majority 1999 & 1979 vintage wood monopoles, single and double circuit sections. Sag study was based on an existing PLS-CADD model. The Westar - Genoa 138kV circuit would be able to operate at a full MOT of 302 degrees F, once the scoped mitigations are completed.
Proposed Line Characteristics	

	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	223.000000	310.000000
Winter (MVA)	281.000000	349.000000

Conductor size and type	636 ACSR Grosbeak
Shield wire size and type	N/A
Rebuild line length	N/A

Rebuild portion description	N/A. Line is not proposed to be rebuilt under this proposal. Only includes 3 structure modifications and 12 structure replacements.
Right of way	Supplemental ROW will be acquired if/as needed to accommodate new structures.
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	$2,814,629.60
Component cost (in-service year)	$2,814,629.60

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
2024W1-N11-ST39	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1 Thermal	Included
2024W1-N11-ST33	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1 Thermal	Included

New Flowgates

None

Financial Information

Capital spend start date	01/2025
Construction start date	05/2027
Project Duration (In Months)	37

Additional Comments

None