

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_B
PJM Proposal ID	596
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	nckoebler@aep.com
Project in-service date	06/2027
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
2023W2-N2-WT4	243513	05GENOA	243590	05WESTAR	1	138	205	Winter N-1-1	Included
2023W2-N2-ST1	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST2	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST7	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST28	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST30	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST31	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST37	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST39	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST46	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-ST48	243513	05GENOA	243590	05WESTAR	1	138	205	Summer N-1-1	Included
2023W2-N2-WT1	243513	05GENOA	243590	05WESTAR	1	138	205	Winter N-1-1	Included
2023W2-GD-S186	243590	05WESTAR	243513	05GENOA	1	138	205	Summer Gen Deliv	Included
2023W2-GD-S141	243590	05WESTAR	243513	05GENOA	1	138	205	Summer Gen Deliv	Included
2023W2-N1-ST15	243590	05WESTAR	243513	05GENOA	1	138/138	205/205	Summer Base Case	Included

New Flowgates

None

Financial Information

Capital spend start date 06/2024

Construction start date 08/2026

Project Duration (In Months) 36

Additional Comments

None