

# Allen-RP Mone Sag Mitigations

## 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_H
PJM Proposal ID	683
Project title	Allen-RP Mone Sag Mitigations
Project description	Project will mitigate three clearance issues on Allen - RP Mone 345 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	This work is in conjunction with the work being performed under n8169.1 to eliminate the remaining identified sag clearance limitations not addressed with the network upgrade. n8169.1 is assumed to be in service to allow this work to reach the required thermal ratings.

## Project Components

1. Allen-RP Mone Sag Mitigations

### Transmission Line Upgrade Component

Component title	Allen-RP Mone Sag Mitigations
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Project description	Mitigate clearance issues on Allen - RP Mone 345 kV line to allow line to operate to conductor's designed rating. Mitigation includes removing or adjusting three distribution crossings that pass under the line to allow for the rating to be increased.
Impacted transmission line	Allen-RP Mone
Point A	Allen
Point B	RP Mone
Point C	
Terrain description	flat terrain with a mix of urban and rural areas

**Existing Line Physical Characteristics**

Operating voltage	345
Conductor size and type	2303.5 ACAR 54/37, 1275 ACSR/PE 54/19, 1414 ACSR/PE 62/19
Hardware plan description	Existing hardware will be reused. No changes to the existing conductor or towers are proposed.
Tower line characteristics	About ~12.2 miles of the circuit is on 1955 constructed double circuit lattice towers with porcelain suspension insulators. The remaining ~6.4 miles of the circuit is on a 1968 double circuit lattice tower.

**Proposed Line Characteristics**

	<b>Designed</b>	<b>Operating</b>
Voltage (kV)	345.000000	345.000000
	<b>Normal ratings</b>	<b>Emergency ratings</b>
Summer (MVA)	897.000000	1301.000000
Winter (MVA)	1138.000000	1450.000000
Conductor size and type	No changes proposed	
Shield wire size and type	No changes proposed	

Rebuild line length	N/A - line is not proposed to be rebuilt.
Rebuild portion description	N/A. Line is not proposed to be rebuilt under this proposal. The existing conductors will be re-rated to Maximum Operating Temperature. In order to re-rate this line 3 distribution undercrossings will need to be mitigated. In order to mitigate the project scope will move/bury the distribution.
Right of way	N/A. Supplemental easements may be needed to allow for distribution crossings to be moved.
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	\$449,638.50
Component cost (in-service year)	\$449,638.50

**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-GD-W12	243211	05ALLEN	242933	05RPMONE	1	345	205	Winter Gen Deliv	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