# **RP Mone-Maddox Creek Reconductor**

## **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_C
PJM Proposal ID	561
Project title	RP Mone-Maddox Creek Reconductor
Project description	Project will reconductor the 9.4 mile 345 kV line between RP Mone and Maddox Creek stations.
Email	nckoehler@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. RP Mone-Maddox Creek 345 kV Reconductor	
Transmission Line Upgrade Component	
Component title	RP Mone-Maddox Creek 345 kV Reconductor
Project description	Reconductor 345 kV line between RP Mone and Maddox Creek stations (9.4 miles).
Impacted transmission line	RP Mone-Maddox Creek 345 kV

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Point A	RP Mone					
Point B	Maddox Creek					
Point C						
Terrain description	Flat and rural terrain.					
Existing Line Physical Characteristics						
Operating voltage	345					
Conductor size and type	1275 ACSR/PE					
Hardware plan description	All existing structures and shield wire will be reused. All other hardware will be replaced.					
Tower line characteristics	Existing structures are type SJ1 lattice tower, vintage 1955, single circuit, alternating phases on opposite sides of the towers.					
Proposed Line Characteristics						
	Designed	Operating				
Voltage (kV)	345.000000	345.000000				
	Normal ratings	Emergency ratings				
Summer (MVA)	1676.000000	1868.000000				
Winter (MVA)	2022.000000	2219.000000				
Conductor size and type	2-ACSS PHEASANT 1272 (54/19)					
Shield wire size and type	N/A					
Rebuild line length	9.4 miles					
Rebuild portion description	All 9.4 miles of the line will be reconductored, not rebuilt. Existing towers have been determined adequate to handle larger conductor.					
Right of way	N/A - existing ROW easements are sufficient. Any supplemental ROW will be obtained if/as needed on existing route.					

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#### Construction responsibility

Benefits/Comments

#### AEP

Project will address 9+ miles of Paper Expanded (PE) conductor that have become an asset renewal concern for AEP across our footprint. AEP has concerns of increased core corrosion on PE conductors based upon review of conductor samples following storm recovery events. AEP shared additional details on the PE conductor concerns with stakeholders during the May 9th 2023 TEAC meeting.

#### 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	\$16,718,576.40
Component cost (in-service year)	\$16,718,576.40

### **Congestion Drivers**

None

### **Existing Flowgates**

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-GD-W58	3 242933	05RPMONE	246929	05MADDOX	1	345	205	Winter Gen Deliv	Included
2023W2-GD-W21	<b>32</b> 42933	05RPMONE	246929	05MADDOX	1	345	205	Winter Gen Deliv	Included
2023W2-GD-S17	0242933	05RPMONE	246929	05MADDOX	1	345	205	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-GD-S14	2242933	05RPMONE	246929	05MADDOX	1	345	205	Summer Gen Deliv	Included

## New Flowgates

None

## **Financial Information**

Additional Comments	
Project Duration (In Months)	36
Construction start date	08/2026
Capital spend start date	06/2024

### None