

Olive-University Park Sag Study

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	908
Project title	Olive-University Park Sag Study
Project description	Perform a sag study on the Olive – University Park 345kV line to increase the operating temperature to 225 F. Remediation work includes two tower replacements on the line.
Email	nckoebler@aep.com
Project in-service date	08/2024
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Towers to be replaced are 1950s era towers that are at or near their expected end-of-life. Any remaining needs on this line will be submitted through the M-3 process as a supplemental need.

Project Components

1. Olive-University Park 345 kV Sag Remediation

Transmission Line Upgrade Component

Component title	Olive-University Park 345 kV Sag Remediation
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Project description	Replace two towers along the Olive-University Park 345 kV line to allow the emergency rating of the line to increase.	
Impacted transmission line	Olive-University Park 345 kV	
Point A	Olive	
Point B	University Park	
Point C		
Terrain description	Flat	
Existing Line Physical Characteristics		
Operating voltage	345	
Conductor size and type	ACSR/PE ~ 1414 ~ 62/19	
Hardware plan description	New hardware to be installed on the new towers. Conductor to be re-used.	
Tower line characteristics	Existing towers are 1950s era steel lattice.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	345.000000	345.000000
	Normal ratings	Emergency ratings
Summer (MVA)	971.000000	1079.000000
Winter (MVA)	1234.000000	1310.000000
Conductor size and type	ACSR/PE ~ 1414 ~ 62/19	
Shield wire size and type	N/A. Shield wire will not be replaced	
Rebuild line length	N/A. Sag remediation work only	
Rebuild portion description	N/A - Sag remediation work only. Line will not be rebuilt. Two tower replacements only.	

Right of way

Supplemental right-of-way acquisition is expected to support the tower replacements.

Construction responsibility

AEP

Benefits/Comments

Business proprietary information/practices.

Component Cost Details - In Current Year \$

Engineering & design

Detailed estimates

Permitting / routing / siting

Detailed estimates

ROW / land acquisition

Detailed estimates

Materials & equipment

Detailed estimates

Construction & commissioning

Detailed estimates

Construction management

Detailed estimates

Overheads & miscellaneous costs

Detailed estimates

Contingency

Detailed estimates

Total component cost

\$1,498,978.00

Component cost (in-service year)

\$1,498,978.00

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
MDW1-ME-02	274804	UNIV PK N;RP	243229	05OLIVE	1	345	205/222	Market Efficiency	Included
MDW1-GD-W392	274804	UNIV PK N;RP	243229	05OLIVE	1	345	205/222	Winter Gen Deliv	Included
MDW1-GD-W393	274804	UNIV PK N;RP	243229	05OLIVE	1	345	205/222	Winter Gen Deliv	Included

New Flowgates

None

Financial Information

Capital spend start date 11/2022

Construction start date 12/2023

Project Duration (In Months) 21

Additional Comments

None