

# Dumont-Stillwell 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_A
PJM Proposal ID	165
Project title	Dumont-Stillwell Sag Study
Project description	Perform sag study mitigation work on the Dumont – Stillwell 345 kV line to increase the operating temperature to 225 F. Work is to remove a center-pivot irrigation system from under the line, allowing for the normal and emergency ratings of the line to increase. Final ratings will be 1367/1367/1685/1727 MVA.
Email	nckoehler@aep.com
Project in-service date	12/2023
Tie-line impact	Yes
Interregional project	Yes
Interregional RTO name	MISO
Interregional cost allocation evaluation	No
Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions	No
Specify analysis and applicable Tariff or Operating Agreement provisions	
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

# Project Components

## 1. Dumont-Stillwell Sag Mitigation

### Transmission Line Upgrade Component

Component title	Dumont-Stillwell Sag Mitigation
Project description	Perform a sag study on the Dumont – Stillwell 345 kV line to increase the operating temperature to 225 F. The area under the line that requires remediation to keep the CPI from encroaching is between structures 20 & 21. No physical line construction is required for this remediation.
Impacted transmission line	Dumont-Stillwell 345 kV
Point A	Dumont
Point B	Stillwell
Point C	
Terrain description	The Terrain in the area on under the line is flat and used for agricultural purposes of growing (Corn, Soybeans).

### Existing Line Physical Characteristics

Operating voltage	345
Conductor size and type	954 ACSR Rail - 2 bundled
Hardware plan description	N/A - no additional hardware required
Tower line characteristics	Steel lattice towers, 1960s vintage.

### 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)	1367.000000	1367.000000
Winter (MVA)	1685.000000	1727.000000
Conductor size and type	954 ACSR Rail - 2 bundled	
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 between structure 20 and 21 on the AEP-owned portion of the Dumont-Stillwell 345 kV line.	
Right of way	The width of the Right of Way is 170ft, 85ft from centerline to each side of the line. The distance between Smilax Road and structure 20 is approximately 840ft. Area of ROW (840ft x 170ft). This is an existing Right of Way and will not need expanded.	
Construction responsibility	AEP	
Benefits/Comments		
<b>Component Cost Details - In Current Year \$</b>		
Engineering & design	Detailed cost estimate.	
Permitting / routing / siting	Detailed cost estimate.	
ROW / land acquisition	Detailed cost estimate.	
Materials & equipment	Detailed cost estimate.	
Construction & commissioning	Detailed cost estimate.	
Construction management	Detailed cost estimate.	
Overheads & miscellaneous costs	Detailed cost estimate.	
Contingency	Detailed cost estimate.	
Total component cost	\$215,710.00	
Component cost (in-service year)	\$215,710.00	

## 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-GD-S1620	255113	17STILLWELL	243219	05DUMONT	1	345	205/217	Summer Gen Deliv	Included
MDW1-ME-01	255113	17STILLWELL	243219	05DUMONT	1	345	205/217	Market Efficiency	Included

## New Flowgates

None

## Financial Information

Capital spend start date 11/2022

Construction start date 12/2023

Project Duration (In Months) 13

## Additional Comments

None