

Mount Vernon Area Line Reconfiguration

General Information

Proposing entity name	AEPSCT
Company proposal ID	AEP_J
PJM Proposal ID	697
Project title	Mount Vernon Area Line Reconfiguration
Project description	AEP proposes to close in the normally open Switch at North Liberty, which is on the Mount Vernon - Howard 69 kV line. Reconfigure Commerce – Kokosing Switch 69 kV line section to connect to Utica via Hunt Switch (new circuit Commerce – Utica 69 kV) and reconfigure Mt. Vernon – Martinsburg switch section to connect to Sharp Road (new circuit Mt. Vernon – Sharp Road 69 kV) by swapping the 69 kV line connections on the double circuit lines (Sharp Road – Utica and Commerce – Mt Vernon). Proposed ratings: 245550 to 247201: 100/100/126/126 246924 to 247788: 100/100/126/126
Project in-service date	06/2025
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	[REDACTED]

Project Components

1. Commerce-Mount Vernon and Sharp Road-Utica 69 kV Line Reconfiguration

Transmission Line Upgrade Component

Component title	Commerce-Mount Vernon and Sharp Road-Utica 69 kV Line Reconfiguration
Impacted transmission line	Commerce-Mount Vernon and Sharp Road-Utica 69 kV Lines

Point A	Commerce
Point B	Mount Vernon
Point C	Sharp Road, Utica
Terrain description	Flat, rural adjacent to a golf course

Existing Line Physical Characteristics

Operating voltage	69
Conductor size and type	556.5 kcm ACSR (18/1) Osprey and 795 kcm ACSS (26/7) Drake/ACSS
Hardware plan description	Hardware to be replaced
Tower line characteristics	Existing structure is guyed steel pole installed in 2012

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	69.000000	69.000000
	Normal ratings	Emergency ratings
Summer (MVA)	100.000000	100.000000
Winter (MVA)	126.000000	126.000000
Conductor size and type	556.5 kcm ACSR (18/1) Osprey and 795 kcm ACSS (26/7) Drake/ACSS	
Shield wire size and type	7#10 Alumoweld	
Rebuild line length	N/A	
Rebuild portion description	Structure #109 on the Mt Vernon - Howard 69 kV Line is presently a two pole guyed structure. This structure will be replaced with a single pole structure and the circuits will be re-arranged on this structure to create the new circuits.	
Right of way	N/A	

Construction responsibility

AEP

Additional 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

\$1,286,030.90

Component cost (in-service year)

\$.00

Congestion Drivers

None

Existing Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type
AEP-T424	245558	05PITTSBUR	245562	05W MT VER	1	69	205	FERC 715 Thermal
AEP-T429	245558	05PITTSBUR	245562	05W MT VER	1	69	205	FERC 715 Thermal
AEP-T430	245558	05PITTSBUR	245562	05W MT VER	1	69	205	FERC 715 Thermal
AEP-T431	245558	05PITTSBUR	245562	05W MT VER	1	69	205	FERC 715 Thermal
AEP-T466	243153	05WMTVER	245562	05W MT VER	1	138/69	205	FERC 715 Thermal

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type
AEP-T467	243153	05WMTVER	245562	05W MT VER	1	138/69	205	FERC 715 Thermal
AEP-T469	243153	05WMTVER	245562	05W MT VER	1	138/69	205	FERC 715 Thermal
AEP-T464	243153	05WMTVER	245562	05W MT VER	1	138/69	205	FERC 715 Thermal

New Flowgates

None

Financial Information

Capital spend start date 09/2023

Construction start date 02/2025

Project Duration (In Months) 21

Additional comments

None