

Newcomerstown-Salt Fork Switch 69 kV Rebuild

General Information

Proposing entity name	AEPSCT
Company proposal ID	AEP_B
PJM Proposal ID	182
Project title	Newcomerstown-Salt Fork Switch 69 kV Rebuild
Project description	AEP is proposing to rebuild approximately 8.9 miles of 69 kV line between Newcomerstown and Salt Fork Switch with 556 ACSR conductor. Anticipated SN/SE rating for two branch sections to be addressed (245253 to 245450 & 245450 to 245493) by the project is 73/73/91/91 MVA, set by 336 ACSR on the line not included in the rebuild.
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. Newcomerstown-Salt Fork Partial Rebuild

Transmission Line Upgrade Component

Component title	Newcomerstown-Salt Fork Partial Rebuild
Impacted transmission line	Newcomerstown-Salt Fork 69 kV Line

Point A	Newcomerstown
Point B	Kimbalton
Point C	Salt Fork
Terrain description	Rural with gently rolling hills

Existing Line Physical Characteristics

Operating voltage	69 kV
Conductor size and type	Sections of 3/0 copper and sections of 336.4 kcm ACSR (18/1)
Hardware plan description	All sections of 69 kV transmission line containing 3/0 copper conductor will be reconducted and rebuilt. All sections of 69 kV transmission line containing 335.4 kcm ACSR (18/1) will remain as is.
Tower line characteristics	Existing structures are either single or H-Frame wood poles. Due to routine various pole replacement projects over the years, the structures have various ages. The 3/0 copper conductor was installed in the 1920's when the line was originally constructed. The 336.4 kcm (18/1) conductor was installed in the late 1960's as part of the construction of I-77 which crosses or parallels this line in several areas.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	69.000000	69.000000
	Normal ratings	Emergency ratings
Summer (MVA)	102.000000	142.000000
Winter (MVA)	129.000000	160.000000
Conductor size and type	556.5 kcm ACSR (26/7) Dove	
Shield wire size and type	7#10 Alumoweld	
Rebuild line length	8.9 miles	

Rebuild portion description	Sections of line with 3/0 copper conductor and #1 copper overhead shield wire will be completely rebuilt and/or reconducted, approximately 8.9 miles. Sections of line with 336.4 kcm ACSR (18/1) conductor and 7#10 alumoweld overhead shield wire will remain as is, approximately 5.7 miles.
Right of way	This project addressed the rebuild of the existing Newcomerstown – Salt Fork 69kV transmission line. Supplemental right-of-way acquisition is expected to support the centerline rebuild solution in order to provide the most efficient solution for this project. The project rebuild will begin at the existing Newcomerstown Station site, and run in a general southern direction to the existing Salt Fork Switch. Aside from anticipated labor and easement consideration associated with completing all necessary right-of-way acquisition support and non-environmental permitting work, no additional action is anticipated as part of this project at this time. This existing transmission line traverses land located in Tuscarawas County and Guernsey County, in northeast Ohio. A review of existing easements held does indicate a need to supplement existing easements in order to alleviate specific restrictions that will allow for a more effective project solution. Right-of-way acquisition efforts will focus on approximately seventy-nine (79) parcels. A tabletop analysis found there are at least eight (8) publicly-owned parcels crossed as part of this project, covering both this component and Component 3. This does not include Ohio Department of Transportation road rights-of-way or lands bounding U.S. Interstate Highway 77. At this time, the presumption is that our existing easements with the State of Ohio for this line will need to be supplemented and further defined. Land use types within the project footprint are predominantly agricultural and residential properties identified through Tuscarawas County and Guernsey County online property information listings.
Construction responsibility	AEP
Additional comments	Business confidential information
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 \$15,884,201.49

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-T366	245253	05NEWCOMTW	245450	05KIMBLTN	1	69	205	FERC 715 Thermal
AEP-T367	245253	05NEWCOMTW	245450	05KIMBLTN	1	69	205	FERC 715 Thermal
AEP-T368	245450	05KIMBLTN	245493	05SALTFRKZ	1	69	205	FERC 715 Thermal
AEP-T373	245450	05KIMBLTN	245493	05SALTFRKZ	1	69	205	FERC 715 Thermal

New Flowgates

None

Financial Information

Capital spend start date 09/2022

Construction start date 03/2024

Project Duration (In Months) 33

Additional comments

None