

Maliszewski-Polaris 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_F
PJM Proposal ID	188
Project title	Maliszewski-Polaris Reconductor
Project description	Project proposes to reconductor the 2.8 mile 138 kV line between Maliszewski and Polaris stations.
Email	nckoebler@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	The vast majority of the conductor on the line was installed in 1977. The proposed project will replace the conductor that would be about 50 years old at the time the proposed in service date.

Project Components

1. Maliszewski-Polaris Reconductor

Transmission Line Upgrade Component

Component title	Maliszewski-Polaris Reconductor
Project description	Reconductor the 138 kV line between Maliszewski and Polaris stations (2.8 miles).

Impacted transmission line	Maliszewski-Polaris 138 kV Line
Point A	Maliszewski
Point B	Polaris
Point C	
Terrain description	Flat, urban terrain
Existing Line Physical Characteristics	
Operating voltage	138
Conductor size and type	636 KCM ACSR 26/7 Grosbeak & 1590 KCM ACSR 45/7 Lapwing
Hardware plan description	10 existing structures will be replaced. All the remaining structures will be reused. Reused structures are 2001 vintage double circuit steel monopoles and 1976 vintage double circuit steel poles. All conductor hardware will be replaced.
Tower line characteristics	Existing structures are 2001 vintage double circuit steel monopoles; 1976 vintage double circuit wood monopoles; 1976 vintage double circuit steel poles; and 1979 vintage single circuit wood monopoles.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	329.000000	361.000000
Winter (MVA)	416.000000	416.000000
Conductor size and type	1590 ACSS (54/19) Falcon	
Shield wire size and type	OPGW & 159 ACSR (12/7) Guinea	
Rebuild line length	2.8 miles	

Rebuild portion description

N/A - line will be reconducted, not rebuilt. 10 existing structures (5 wood and 5 steel) will be replaced due to strength requirements for the new conductor.

Right of way

No new ROW needed. Existing ROW rights will be used and supplemented if and as needed.

Construction responsibility

AEP

Benefits/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

\$7,230,861.11

Component cost (in-service year)

\$7,230,861.11

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
2023W2-N2-ST22	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST24	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST25	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST17	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST18	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST13	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST32	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST40	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST47	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST43	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST44	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-WT3	243537	05MALIS	243553	05POLARS	1	138	205	Winter N-1-1	Included
2023W2-N2-ST49	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST8	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST5	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST6	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-GD-S135	243537	05MALIS	243553	05POLARS	1	138	205	Summer Gen Deliv	Included
2023W2-GD-S165	243537	05MALIS	243553	05POLARS	1	138	205	Summer Gen Deliv	Included
2023W2-N2-WT5	243537	05MALIS	243553	05POLARS	1	138	205	Winter N-1-1	Included
2023W2-N1-ST13	243537	05MALIS	243553	05POLARS	1	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST14	243537	05MALIS	243553	05POLARS	1	138/138	205/205	Summer Base Case	Included

New Flowgates

None

Financial Information

Capital spend start date

06/2024

Construction start date

08/2026

Project Duration (In Months)

36

Additional Comments

None