#### Maliszewski-Polaris Rebuild

#### **General Information**

Proposing entity name AEPSCT

Does the entity who is submitting this proposal intend to be the

Designated Entity for this proposed project?

Company proposal ID AEP G

PJM Proposal ID 340

Project title Maliszewski-Polaris Rebuild

Project description Project proposes to rebuild the 2.8 mile 138 kV line between Maliszewski and Polaris stations.

Yes

Email nckoehler@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?

Additional benefits

## **Project Components**

1. Maliszewski-Polaris Rebuild

### **Transmission Line Upgrade Component**

Component title Maliszewski-Polaris Rebuild

Project description Rebuild the 138 kV line between Maliszewski and Polaris stations (2.8 miles).

Impacted transmission line Maliszewski-Polaris 138 kV Line

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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 All existing structures/hardware will be removed as part of this rebuild scope

Designed

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**

Voltage (kV) 138.000000 138

Winter (MVA) 416.000000 416.000000

1590 ACSS (54/19) Falcon Conductor size and type

Shield wire size and type OPGW & 159 ACSR (12/7) Guinea

Rebuild line length 2.8 miles

Rebuild portion description Rebuild 2.8 miles from Maliszewski Station to Polaris Station. Line will be rebuilt structure-for-structure, utilizing existing ROW. Install approximately 36 new steel monopoles, double circuit & single circuit. The 6 poles installed in 2001 will be reused where possible.

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Operating

**Emergency ratings** 

Right of way

No new ROW needed. Existing ROW rights will be used and supplemented if/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 \$8,883,662.80

Component cost (in-service year) \$8,883,662.80

## **Congestion Drivers**

None

## **Existing Flowgates**

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST2	2243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	1243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST2	5 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	7 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included

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FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W2-N2-ST18	3 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST1	3 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST3	2243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	) 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	7243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	3 243537	05MALIS	243553	05POLARS	1	138	205	Summer N-1-1	Included
2023W2-N2-ST4	1243537	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	9243537	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-S13	5243537	05MALIS	243553	05POLARS	1	138	205	Summer Gen Deliv	Included
2023W2-GD-S16	5243537	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-ST1	3 243537	05MALIS	243553	05POLARS	1	138/138	205/205	Summer Base Case	Included
2023W2-N1-ST1	1243537	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 06/2026

Project Duration (In Months) 36

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# **Additional Comments**

None

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