Clinton-St Clair 138kV UG Line

General Information

Company proposal ID

Proposing entity name AEPSCT

Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?

AEP L

PJM Proposal ID 757

Project title Clinton-St Clair 138kV UG Line

Project description Rebuild 4.07 miles of the Clinton-St Clair UG Line138kV Line with XLPE conductor.

Yes

Email jmperez@aep.com

Project in-service date 04/2030

Tie-line impact No

Interregional project No

Is the proposer offering a binding cap on capital costs?

Additional benefits

Project Components

1. Clinton-St. Clair 138kV Line

2. St. Clair Ave Station

3. Clinton Station

Transmission Line Upgrade Component

Component title Clinton-St. Clair 138kV Line

2025-W1-757

Project description Rebuild 4.07 miles of the Clinton-St Clair 138kV underground line Impacted transmission line Clinton-St. Clair 138kV Line Clinton Station Point A Point B St. Clair Station Point C Flat/urban. Underground Line. Terrain description **Existing Line Physical Characteristics** Operating voltage 138 Conductor size and type 600 MCM Oil Pipe Tyle Cable Hardware/conduit will be removed. New manholes will be installed. Hardware plan description Tower line characteristics N/A **Proposed Line Characteristics** Designed Operating 138.000000 Voltage (kV) 138.000000 Normal ratings **Emergency ratings** Summer (MVA) 195.000000 220.000000 Winter (MVA) 216.000000 239.000000 Conductor size and type Single 5000 KCM XLPE per Phase Shield wire size and type N/A Rebuild line length 4.07 miles Rebuild portion description The full length of the UG line is expected to be rebuilt.

Right of way Public ROW will be utilized for this rebuild.

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 \$63,019,043.96

Component cost (in-service year) \$63,019,043.96

Substation Upgrade Component

Component title St. Clair Ave Station

Project description Issue new line settings and new relay cabinet for housing fiber terminal equipment.

Substation name St Clair Ave Station

Substation zone 205

Substation upgrade scope Issue new line settings and new relay cabinet for housing fiber terminal equipment. Only PCE scope

no physical station scope.

Transformer Information

None

New equipment description Relay Cabinet

Substation assumptions Control house has enough space.

Real-estate description N/A

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 \$80,635.38

Component cost (in-service year) \$80,635.38

Substation Upgrade Component

Component title Clinton Station

Project description Issue new line settings, and install new DTS analyzer and relay cabinet for housing fiber terminal

equipment.

Substation name Clinton Station

Substation zone 205

Substation upgrade scope

Issue new line settings, and install new DTS analyzer and relay cabinet for housing fiber terminal equipment. Only PCE equipment no physical scope.

Transformer Information

None

New equipment description DTS analyzer Relay Cabinet

Substation assumptions Control house has enough space.

Real-estate description N/A

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 \$100,652.40

Component cost (in-service year) \$100,652.40

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
2025W1-N11-WT48	243485	05CLINTO	243576	05ST.CLX	1	138	205	N-1-1 Thermal	Included
2025W1-N11-WT43	243485	05CLINTO	243576	05ST.CLX	1	138	205	N-1-1 Thermal	Included
2025W1-N11-ST123	243485	05CLINTO	243576	05ST.CLX	1	138	205	N-1-1 Thermal	Included
2025W1-N11-ST122	243485	05CLINTO	243576	05ST.CLX	1	138	205	N-1-1 Thermal	Included

New Flowgates

None

Financial Information

Capital spend start date 03/2026

Construction start date 04/2028

Project Duration (In Months) 49

Additional Comments

None