

Haviland Sectionalizing Addition

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_G
PJM Proposal ID	786
Project title	Haviland Sectionalizing Addition
Project description	AEP is proposing the installation of high side and low side sectionalizing equipment on the existing 138/69 kV transformer #4 at Haviland station. The rating on the Haviland transformer #4 will be increased as a part of the proposed due to a 600A switch being replaced. Anticipated SN/SE/WN/WE rating: 106/114/119/119 set by the transformer ratings. NOTE: This proposal also requires DP&L project s2389 to be converted to baseline and in service prior to 6/1/2026 in order to alleviate all flowgates identified. S2389 was included in the 2021 DPL Local Plan at a total cost of \$65.35M.
Email	nckoebler@aep.com
Project in-service date	05/2025
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. Haviland Sectionalizing Addition

Substation Upgrade Component

Component title	Haviland Sectionalizing Addition
Project description	Install high side circuit switcher and low side 3000A 40 kA breaker on the 138/69 kV transformer #4 at Haviland station
Substation name	Haviland
Substation zone	205 - AEP
Substation upgrade scope	Install Auto Sectionalizing for Transformer# 4 at brown field Haviland Station. Install 1-138kV circuit switcher and a low side 1-69kV circuit breaker.

Transformer Information

None

New equipment description	<p>o Install (1) 69kV, 3000A, 40kA low side circuit breaker. Include 3000A rated jumpers, control cables approximately 600ft, grounding, and slab foundation. Use existing trench nearby to run control cables. o Install (3) 69kV post insulators and 4" AL tubing o Install (2) 69kV, 2000A, 40KA air- break disconnect switches. Switches to be mounted on existing box bay structure. Include corresponding jumpers that will be on the bus side and line side of the switch. Use existing trench nearby to run control cables. o Install (1) 3Ø, 69kV, 3000A, strain buss assembly (approximately 28ft). Include all corresponding strain insulators, main bus conductors & jumpers. o Install (1) 3Ø, 69kV bus CCVTs (bus potential). Include corresponding structure, foundation, enclosure, control cable (approximately 600ft), jumpers and grounding. o Install (1) 3Ø, 13kV potential transformers on the tertiary winding station service structure. Mount PTs onto existing structure. o Install (1) 138kV, 3000A, 40kA circuit switcher with corresponding. Include corresponding pier foundations, jumpers that will be on the switch side and XF#4 side.</p>
Substation assumptions	Station property will be available Wetland mitigation is not needed Any and all necessary permitting will be available. All necessary outages will be available
Real-estate description	N/A. Work to be done in existing station footprint.
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	\$1,309,062.00
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	Status
AEP -T53	245871	05DELPHOS	245902	05S DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T54	245871	05DELPHOS	245902	05S DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T55	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T56	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T57	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T58	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T22	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T23	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T24	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T25	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T26	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
AEP -T27	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T28	245874	05E DELPHO	247376	05ELIDA ROAD	1	69	205	FERC 715 Thermal	Included
AEP -T15	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T16	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T17	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T18	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T19	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T20	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T21	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T47	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T48	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T49	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T50	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T51	243175	05N DELPHO	245902	05S DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T52	243175	05N DELPHO	245902	05S DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T73	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T74	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T75	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included
AEP -T76	243175	05N DELPHO	245874	05E DELPHO	1	69	205	FERC 715 Thermal	Included

New Flowgates

None

Financial Information

Capital spend start date 09/2023

Construction start date 11/2024

Project Duration (In Months) 20

Additional Comments

None