Cloverdale Breaker Reconfiguration

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	410
Project title	Cloverdale Breaker Reconfiguration
Project description	AEP proposes to establish a new 500 kV breaker position for the low-side of the existing 765/500 kV transformer at Cloverdale Station. The new position will be between two new 500 kV circuit breakers located in a new breaker string, electrically converting the 500 kV yard to "double-bus double-breaker" configuration.
Email	nckoehler@aep.com
Project in-service date	10/2026
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. Cloverdale 500 kV Breaker Reconfiguration

Substation Upgrade Component

Component title	Cloverdale 500 kV Breaker Reconfiguration

Project description	AEP proposes to establish a new 500 kV breaker position for the low-side of the existing 765/500 kV transformer at Cloverdale Station. The new position will be between two new 500 kV circuit breakers located in a new breaker string, electrically converting the 500 kV yard to "double-bus double-breaker" configuration. Work includes a tower replacement outside the station fence on AEP property to move the transformer lead to the new breaker position.
Substation name	Cloverdale
Substation zone	205 - AEP
Substation upgrade scope	Build new 2 breaker string in Cloverdale East 500kV yard and re-terminate 765/500kV XF#14 in this new position

Transformer Information

None

New equipment description	2-500kV CIRCUIT BREAKERS (SN-4168A/ SE-4168A/ WN-5166A/ WE-5166A), 12-5000kV Single Phase Disconnect Switches (SN-4586A/ SE-5032A/ WN-5955A/ WE-6321A), 6" Tubular Bus (SN-5764A/ SE-6914A/ WN-7361A/ WE-8228A), 3-2500AAC CONDUCTOR (SN-5423A/ SE-6381A/ WN-6870A/ WE-7594A
Substation assumptions	N/A. All work will be performed on AEP-owned land. No station expansion work is required.
Real-estate description	N/A. Work to be completed on AEP-owned land. No fence expansion required.
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	$11,590,271.00
Component cost (in-service year)	$.00

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
2022W3-GD_L330	242524	05CLOVRD	242519	05CLOVRD	16	345/500	205/205	Light Load Gen Deliv	Included
2022W3-N1-LLT61	242524	05CLOVRD	242519	05CLOVRD	16	345/500	205/205	Light Load N-1	Included

New Flowgates

None

Financial Information

Capital spend start date	01/2024
Construction start date	02/2026
Project Duration (In Months)	33

Additional Comments

None