

Olive Breaker Replacement

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_A
PJM Proposal ID	384
Project title	Olive Breaker Replacement
Project description	AEP is proposing to replace the overdutied Olive 345kV circuit breaker "D" with a 5000A 63 kA circuit breaker. No steady state ratings or contingency changes are anticipated for this proposal.
Email	nckoehler@aep.com
Project in-service date	09/2027
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. Olive Breaker Replacement

Substation Upgrade Component

Component title	Olive Breaker Replacement
Project description	Replace the overdutied Olive 345kV circuit breaker "D" with a 5000A 63 kA circuit breaker.

Substation name	Olive
Substation zone	205 - AEP
Substation upgrade scope	Replace the overdutied Olive 345kV circuit breaker "D" with a 5000A 63 kA circuit breaker.

Transformer Information

None	
New equipment description	345kV 5000A 63kA circuit breaker
Substation assumptions	1.) Replacement of the existing circuit breaker foundation has been included in the scope and estimate. AEP structural engineering completed their review and recommended foundation replacement be included. 2.) Re-use existing cables and a splice box to support the CB install.
Real-estate description	N/A. Work to be completed 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	\$1,083,701.00
Component cost (in-service year)	\$1,083,701.00

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
2023W1-SC-4	243229	05OLIVE 345.kV	243229	05OLIVE 345.kV	1	345	205	Short Circuit	Included

New Flowgates

None

Financial Information

Capital spend start date 01/2024

Construction start date 01/2027

Project Duration (In Months) 44

Additional Comments

None