Tanners Creek 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_C
PJM Proposal ID	27
Project title	Tanners Creek Reconfiguration
Project description	AEP is proposing to install at Tanners Creek a 345 kV 5000 A 63 kA circuit breaker "R" and move the Tanners Creek - East Bend 345 kV circuit from the "T" and "T1" line position to the "R and "R1" line position, thus mitigating the College Corner - Collinsville 138 kV overload by eliminating the contingency causing the issue.
Email	nckoehler@aep.com
Project in-service date	09/2024
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. Tanners Creek 345 kV Reconfiguration

Substation Upgrade Component

Component title	Tanners Creek 345 kV Reconfiguration

Project description	Reconfigure the Tanners Creek 345 kV station to eliminate the breaker failure contingency that causes the overload of the College Corner-Collinsville 138 kV line.
Substation name	Tanners Creek 345 kV
Substation zone	205 - AEP
Substation upgrade scope	At Tanners Creek station, install a 345 kV 5000 A 63 kA circuit breaker "R" and move the Tanners Creek - East Bend 345 kV circuit from the "T" and "T1" line position to the "R and "R1" line position. Extend the existing Tanners Creek - East Bend line to connect to the new bay position by installing 2 Custom steel Dead end structures with concrete foundations on the south side of Tanners Creek station and extend 1000 feet of (2) Bundled 954,000 CM ACSR 45/7 (Rail) overhead conductor (to match existing conductor on the line) and 7#8 Shield Wire to the new line position.

Transformer Information

None

New equipment description	One 345 kV, 5000A, 63 kA circuit breaker.
Substation assumptions	All work will be performed on existing AEP property. No station expansion or fence expansion needed to perform the work.
Real-estate description	N/A. All work to be performed on AEP owned property.
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	$3,071,229.00
Component cost (in-service year)	$3,071,229.00

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
2022W1-GD-S58	243262	05COLLEGE C	250001	08COLINV	1	138	205/212	Summer Gen Deliv	Included
2022W1-GD-W37	243262	05COLLEGE C	250001	08COLINV	1	138	205/212	Winter Gen Deliv	Included

New Flowgates

None

Financial Information

Capital spend start date	09/2022
Construction start date	10/2023
Project Duration (In Months)	24

Additional Comments

None