

Beatty-White Road Terminal Equipment Upgrades

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	2026_AEP_E
PJM Proposal ID	454
Project title	Beatty-White Road Terminal Equipment Upgrades
Project description	Replace overloaded terminal equipment at Beatty and White Road stations.
Email	jmperez@aep.com,nckoebler@aep.com
Project in-service date	02/2030
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Minimal physical construction necessary to mitigate criteria violations.

Project Components

1. Beatty Road 138kV Station
2. White Road 138kV Station

Substation Upgrade Component

Component title	Beatty Road 138kV Station
Project description	Replace wave trap, bus conductor/jumpers at Beatty station on the White Road line terminal

Substation name	Beatty Road 138kV
Substation zone	205
Substation upgrade scope	Replace wave trap bus conductor/jumpers at Beatty station on the White Road line terminal
Transformer Information	
None	
New equipment description	636 KCM Bus Conductors to be replaced with dual 1272 KCM
Substation assumptions	Assumes outages to complete the work are able to be obtained. Reusing switch mountain plate for insulator installations.
Real-estate description	No expansion required.
Construction responsibility	PROPOSER
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	\$259,576.00
Component cost (in-service year)	\$259,576.00

Substation Upgrade Component

Component title	White Road 138kV Station
Project description	Replace 1590 and 2000 KCM Alum bus conductors with dual 1272 KCM
Substation name	White Road 138kV
Substation zone	205
Substation upgrade scope	Replace 1590 and 2000 KCM Alum bus conductors with dual 1272 KCM
Transformer Information	
None	
New equipment description	All 1590 and 2000 KCM Bus Conductors to be replaced with dual 1272 KCM
Substation assumptions	Assumes outages along the ring bus to complete the work are able to be obtained.
Real-estate description	No expansion required.
Construction responsibility	PROPOSER
Benefits/Comments	Addresses flow gate with minimal scope
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 \$374,097.00

Component cost (in-service year) \$374,097.00

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
2026W1-N1-ST14	243469	05BEATTY	243586	05WHITER	1	138/138	205/205	Summer Baseline	Included
2026W1-N11-ST74	243469	05BEATTY	243586	05WHITER	1	138	205	Summer N-1-1	Included
2026W1-N11-ST75	243469	05BEATTY	243586	05WHITER	1	138	205	Summer N-1-1	Included
2026W1-GD-S642	243469	05BEATTY	243586	05WHITER	1	138	205	Summer Gen Deliv	Included

New Flowgates

None

Financial Information

Capital spend start date 01/2027

Construction start date 06/2029

Project Duration (In Months) 37

Additional Comments

None