

West Kingsport Line Cut In

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_K
PJM Proposal ID	19
Project title	West Kingsport Line Cut In
Project description	Install two (2) 138 KV circuit breakers in the M and N strings in the breaker-and-a half configuration in West Kingsport station 138 KV yard to allow the Clinch River – Moreland Dr. 138 KV to cut in the West Kingsport station. The existing Clinch River-Moreland Drive line physically passes through the West Kingsport station but does not electrically connect. This project will establish the electrical connection to that line.
Email	nckoehler@aep.com
Project in-service date	11/2025
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. West Kingsport Breaker Addition
2. Riverport Station Remote End Relaying

Substation Upgrade Component

Component title	West Kingsport Breaker Addition
Project description	Install two (2) 138 KV circuit breakers in the M and N strings in the breaker-and-a half configuration in West Kingsport station 138 KV yard to allow the Clinch River – Moreland Dr. 138 KV to cut in the West Kingsport station. Remove structures for the bypass within the station fence.
Substation name	West Kingsport
Substation zone	205 - AEP
Substation upgrade scope	Install two (2) 138 KV circuit breakers in the M and N strings in the breaker-and-a half configuration in West Kingsport station 138 KV yard to allow the Clinch River – Moreland Dr. 138 KV to cut in the West Kingsport station. Remove structures for the bus-tie bypass within the station fence.

Transformer Information

None	
New equipment description	(2) 138 KV 3000A 40 kA breakers, (2) 138kV 3000A switches, (3) 138kV CCVT's and 2000A line trap. Miscellaneous bus conductor and tubing rated at 3000A. 16'x12' control building expansion, (2) transmission line relay panels, (2) breaker control plates on (1) relay panel
Substation assumptions	The breaker and a half yard at West Kingsport is designed to accommodate this line cut in. Minimal work will be required. No yard expansion necessary.
Real-estate description	N/A
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	\$1,845,399.00
Component cost (in-service year)	\$.00

Substation Upgrade Component

Component title	Riverport Station Remote End Relaying
Project description	Upgrade remote end relaying at Riverport station due to the line cut in at West Kingsport station.
Substation name	Riverport
Substation zone	205 - AEP
Substation upgrade scope	Retire line trap. Replace existing line relaying panel with new fiber optic based line relay panel

Transformer Information

None	
New equipment description	(1) line relay panel
Substation assumptions	N/A. Relaying update only.
Real-estate description	
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	\$251,278.00
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 -T3	244219	05WKINGSP	244218	05WKINGSEQ	1	35/999	205	FERC 715 Thermal	Included
AEP -T4	244219	05WKINGSP	244218	05WKINGSEQ	1	35/999	205	FERC 715 Thermal	Included
AEP -T5	244219	05WKINGSP	244218	05WKINGSEQ	1	35/999	205	FERC 715 Thermal	Included
AEP -T1	244200	05LOVEDALE	244213	05SEWAGEPL	1	35	205	FERC 715 Thermal	Included
AEP -T2	244213	05SEWAGEPL	244219	05WKINGSP	1	35	205	FERC 715 Thermal	Included

New Flowgates

None

Financial Information

Capital spend start date 07/2023

Construction start date

10/2025

Project Duration (In Months)

28

Additional Comments

None