McComb 138kV Station 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_N
PJM Proposal ID	431
Project title	McComb 138kV Station Reconfiguration
Project description	Reconfigure McComb 138kV station by installing a third 138/13kV Transformer, 2-138kV breakers in a ring bus configuration and associated 13kV equipment.
Email	jmperez@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	

Project Components

1. McComb 138kV Station Reconfiguration (Transmission Scope)
2. McComb 13kV Station Reconfiguration (Distribution Scope)

Substation Upgrade Component

Component title	McComb 138kV Station Reconfiguration (Transmission Scope)

Project description	Reconfigure McComb 138kV station by installing 2 new 138kV circuit breakers and reconfiguring station into ring bus on the Transmission side.
Substation name	McComb Station
Substation zone	205
Substation upgrade scope	Reconfigure McComb 138kV station by installing 2-138kV circuit breakers in a ring bus configuration.

Transformer Information

None

New equipment description	2-138kV, 3000A, 40kA Circuit Breakers
Substation assumptions	Existing control house has adequate space. Cable entrance to the control house is adequate. Existing switch structures are in good condition including foundations.
Real-estate description	The scope of work can be performed within the existing station footprint and thus no fence expansion will be necessary.
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	$3,234,338.41
Component cost (in-service year)	$3,234,338.41

Substation Upgrade Component

Component title	McComb 13kV Station Reconfiguration (Distribution Scope)
Project description	Install new 138/13kV Transformer #3, 1-13kV Low Side Circuit Breaker for new Transformer and build out 13kV bus.
Substation name	McComb Station
Substation zone	205
Substation upgrade scope	Install new 138/13kV Transformer #3, 1-13kV low side breaker on the low side of the proposed 138/13kV TRF #3 and build out 13kV bus as necessary.

Transformer Information

	Name	Capacity (MVA)
Transformer	McComb TRF#3	50

	High Side	Low Side	Tertiary
Voltage (kV)	138	13	

New equipment description	1-138/13kV, 50 MVA Transformer 1-13kV, 3000A, 25kA Circuit Breaker 13kV Bay and associated bus equipment
Substation assumptions	Existing control house has adequate space. Cable entrance to the control house is adequate. Existing switch structures are in good condition including foundations.
Real-estate description	The scope of work can be performed within the existing station footprint and thus no fence expansion will be necessary.
Construction responsibility	AEP
Benefits/Comments	Distribution work only, so no additional cost to Transmission under this component.

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	$.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
2025W1-N1-ST66	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included
2025W1-N1-ST89	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included
2025W1-N1-WT25	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	Baseline Thermal	Included
2025W1-N1-WT27	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	Baseline Thermal	Included
2025W1-N1-ST56	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included
2025W1-N1-ST90	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included
2025W1-N1-WT28	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	Baseline Thermal	Included
2025W1-N1-ST62	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	N-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-N1-WT23	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	Baseline Thermal	Included
2025W1-N1-WT24	243540	05MCCOMB	246661	05MCCMBEQ1	1	138/1	205/205	Baseline Thermal	Included

New Flowgates

None

Financial Information

Capital spend start date	03/2026
Construction start date	01/2028
Project Duration (In Months)	47

Additional Comments

Note: the overload in this station is on Distribution owned equipment; adding the third bank and reconfiguring the high side will be worked in conjunction with AEP Ohio, but the overloaded facility is considered to be a distribution asset.