

# Mountaineer and Belmont Station 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	AEP_P
PJM Proposal ID	459
Project title	Mountaineer and Belmont Station Upgrades
Project description	AEP will replace two 765 kV breakers at Mountaineer station with 5000A breakers. FirstEnergy will replace 765 kV switch at Belmont station with 5000A switch and upgrade relaying.
Email	nckoebler@aep.com
Project in-service date	06/2029
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

## Project Components

1. Mountaineer Breaker Replacements
2. Belmont Station Upgrades

### Substation Upgrade Component

Component title	Mountaineer Breaker Replacements
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Project description	Replace two 765 kV breakers at Mountaineer station with 5000A breakers.
Substation name	Mountaineer
Substation zone	205
Substation upgrade scope	Replace two 765 kV breakers B1 and B2 at Mountaineer station with 5000A breakers.
<b>Transformer Information</b>	
None	
New equipment description	2-5000A 765 kV 50 kA breakers.
Substation assumptions	Assumes existing space in the station can accommodate larger breakers.
Real-estate description	N/A. All work to be completed on 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	\$6,676,626.00
Component cost (in-service year)	\$6,676,627.00

## Substation Upgrade Component

Component title	Belmont Station Upgrades
Project description	Replace the disconnect switch and upgrade relaying at Belmont station.
Substation name	Belmont
Substation zone	201
Substation upgrade scope	Replace (1) 3000 A Disconnect Switch with (1) 5000 A Disconnect Switch. Replace Relaying

## Transformer Information

None	
New equipment description	5000A disconnect switch
Substation assumptions	Assumes all work will be done in existing footprint by FE.
Real-estate description	N/A
Construction responsibility	FirstEnergy
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 \$3,843,752.00

Component cost (in-service year) \$4,129,341.00

### 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
2024W1-32GD-S43	242516	05MOUNTN	242920	05BELMON	1	765	205	2032 Summer Gen Deliv	Included
2024W1-32GD-S44	242516	05MOUNTN	242920	05BELMON	1	765	205	2032 Summer Gen Deliv	Included
2024W1-GD-S447	242516	05MOUNTN	242920	05BELMON	1	765	205	Summer Gen Deliv	Excluded
2024W1-GD-S453	242516	05MOUNTN	242920	05BELMON	1	765	205	Summer Gen Deliv	Excluded

### New Flowgates

None

### Financial Information

Capital spend start date 01/2025

Construction start date 07/2028

Project Duration (In Months) 53

### Additional Comments

None