

# West Bellaire 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_B
PJM Proposal ID	289
Project title	West Bellaire Reconfiguration
Project description	At West Bellaire 345kV, the M1 breaker will be moved to the N breaker string, becoming N1. The Tidd circuit will connect to the N string, between N1 and N. Jumpers/conductor will be installed in the place of old breaker M1, to complete the M string. Station protection and SCADA updates will be completed. The Tidd 345kV T-Line will need shifted slightly, to connect to the new station bay to the east.
Email	nckoehler@aep.com
Project in-service date	06/2025
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

## Project Components

1. West Bellaire 345 kV Station Reconfiguration

### Substation Upgrade Component

Component title	West Bellaire 345 kV Station Reconfiguration
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Project description	Reconfigure West Bellaire station to eliminate the contingency causing the voltage issues.
Substation name	West Bellaire 345 kV
Substation zone	205 - AEP
Substation upgrade scope	West Bellaire Station: Relocate 345kV breaker M1 and accessories to the N breaker string, becoming breaker N1. The Tidd 345kV circuit will then connect between breakers N and N1. Add conductor/jumpers in place of former breaker M1, to complete M string.

**Transformer Information**

None	
New equipment description	N/A. Existing equipment will be relocated inside the station; no new major equipment required.
Substation assumptions	345kV breaker M1 can be safely relocated and system outages will allow. The existing steel lattice structure can be adapted to connect to the shifted 345kV T-line entrance. All work will occur on AEP property. No station expansion is needed.
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 \$2,531,059.00

Component cost (in-service year) \$2,531,059.00

### 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-N1-LLVD1	244329	05W.BELL_REA	244329	05W.BELL_REA	1	345	205	Light Load Baseline Gen Deliv	Included
2022W1-N1-LLVM1	244329	05W.BELL_REA	244329	05W.BELL_REA	1	345	205	Light Load N-1 Voltage Magnitude	Included
2022W1-N1-LLVM2	242948	05WBELLA	242948	05WBELLA	1	345	205	Light Load N-1 Voltage Magnitude	Included
2022W1-N1-LLVD2	242948	05WBELLA	242948	05WBELLA	1	345	205	Light Load Baseline Gen Deliv	Included

### New Flowgates

None

### Financial Information

Capital spend start date 10/2022

Construction start date 05/2024

Project Duration (In Months) 32

### Additional Comments

None