

Racine-Ripley 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	2026_AEP_A
PJM Proposal ID	92
Project title	Racine-Ripley Station Upgrades
Project description	Replace terminal equipment at Racine, Ravenswood, and Ripley 69 kV stations to eliminate the identified overloads.
Email	jmperez@aep.com,nckoebler@aep.com
Project in-service date	12/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	N/A

Project Components

1. Ripley Station Upgrades
2. Ravenswood Station Upgrades
3. Racine Station Upgrades

Substation Upgrade Component

Component title	Ripley Station Upgrades
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Project description	Replace 4/0 CU bus and replace MOAB-Y with a new 69 kV circuit breaker at Ripley 69 kV Station
Substation name	Ripley 69kV
Substation zone	205
Substation upgrade scope	Replace 4/0 CU bus and replace MOAB-Y with a new 69 kV circuit breaker at Ripley 69 kV Station
Transformer Information	
None	
New equipment description	4/0 CU Bus to be replaced with higher capacity bus conductor MOAB Y to be replaced with a 40kA, 3000A 69kV Circuit Breaker
Substation assumptions	All modifications and upgrades to the station can be made within the existing substation.
Real-estate description	No fence expansion or additional property is expected to be necessary.
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	\$1,492,051.00
Component cost (in-service year)	\$1,492,051.00

Substation Upgrade Component

Component title	Ravenswood Station Upgrades
Project description	Replace three-phase CT at Ravenswood 69 kV Station
Substation name	Ravenswood 69kV
Substation zone	205
Substation upgrade scope	Replace three-phase CT at Ravenswood 69 kV Station
Transformer Information	
None	
New equipment description	Replace three-phase CT at Ravenswood 69 kV Station
Substation assumptions	All modifications and upgrades to the station can be made within the existing substation.
Real-estate description	No fence expansion or additional property is expected to be necessary.
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	\$264,293.00
Component cost (in-service year)	\$264,293.00
Substation Upgrade Component	
Component title	Racine Station Upgrades
Project description	Relay setting changes at Racine on the Ravenswood line
Substation name	Racine 69kV
Substation zone	205
Substation upgrade scope	Setting changes only
Transformer Information	
None	
New equipment description	N/A - Settings changes only
Substation assumptions	N/A
Real-estate description	No fence expansion or additional property is expected to be necessary.
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	\$6,000.00
Component cost (in-service year)	\$6,000.00

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-AEP-T11	244761	05RACINE	247014	05SARAH LNSS	1	69	205	FERC 715	Included
2026W1-AEP-T12	244762	05RAVENSWD	247014	05SARAH LNSS	1	69	205	FERC 715	Included
2026W1-AEP-T13	244762	05RAVENSWD	244763	05RIPLEY	1	69	205	FERC 715	Included
2026W1-AEP-T14	244762	05RAVENSWD	247014	05SARAH LNSS	1	69	205	FERC 715	Included
2026W1-AEP-T15	244762	05RAVENSWD	247014	05SARAH LNSS	1	69	205	FERC 715	Included
2026W1-AEP-T16	244762	05RAVENSWD	244763	05RIPLEY	1	69	205	FERC 715	Included
2026W1-AEP-T17	244762	05RAVENSWD	244763	05RIPLEY	1	69	205	FERC 715	Included
2026W1-AEP-T18	244763	05RIPLEY	247572	05RIPLEY 3EQ	3	69	205	FERC 715	Included

New Flowgates

None

Financial Information

Capital spend start date	01/2027
Construction start date	10/2028
Project Duration (In Months)	23

Additional Comments

None