



Southwest Power Pool Notification to Construct with Conditions 220896

Holt County 345 kV – Antelope 345 kV

New Transmission Line with Terminal Upgrade

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NPPD Board of Directors Meeting &
Operations Committee
June 2025

Scott Walz, Vice President Energy Delivery



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Background

SPP and NPPD Transmission Planning concluded that network upgrades are required on the NPPD system to fulfill Approved Reliability Network Upgrades as detailed in SPP 2024 ITP.

These network upgrades are considered as SPP Base Plan under the SPP tariff:

- Project costs are recovered through transmission rates:
 - 100% of these costs recovered regionally (all SPP transmission customers).
 - NPPD customers are responsible for approximately 5% of the regional cost.

NPPD will continue to own all the transmission facilities associated with these upgrades.

ITP = Integrated Transmission Plan
SPP = Southwest Power Pool

Scope

Notification to Construct with Conditions (SPP-NTC-220896) Reliability Network Upgrade: Holt County – Antelope 345 kV New Transmission Line with Terminal Upgrades

- Construct a new 345 kV transmission line from the existing Holt County Substation to the existing Antelope Substation with minimum summer emergency rating of 1792 MVA
 - Line terminal equipment at Holt County Substation
 - Line terminal equipment at the Antelope Substation
 - Estimated cost is \$78,445,357
 - Funding from the 2027 budget, with an in-service of December 31, 2029

MVA = Mega Volt Amp

Map (Holt County 345 kV to Antelope 345 kV)



Recommendation

- Accept the Notification to Construct with conditions and authorize management to proceed with the commitment to implement upgrades as noted in SPP-NTC-220896, Holt County to Antelope 345 kV line and terminal upgrades for the estimated cost of \$78,445,357



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Questions

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