



# Southwest Power Pool Notification to Construct 220893

**Tekamah 161 kV Terminal Upgrade  
Cooper – Olive Creek/Moore 345 kV Line Tap**

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NPPD Board of Directors Meeting &  
Operations Committee  
June 2025

Scott Walz, Vice President Energy Delivery

# Background

SPP and NPPD Transmission Planning concluded that network upgrades are required on the NPPD system to effect SPP – MISO Approved 2024 Joint Targeted Interconnection Queue projects.

These network upgrades are considered as SPP JTIQ projects under the SPP tariff:

- Project costs are recovered through SPP and MISO JTIQ transmission rates:
  - 90% of these costs recovered from SPP and MISO generation interconnection customers.
  - NPPD customers are responsible for 10% of this JTIQ cost.

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

JTIQ = Joint Targeted Interconnection Queue

MISO = Midcontinent Independent System Operator

# Scope

## **Notification to Construct (SPP-NTC-220893) Reliability Network Upgrade: Tekamah 161 kV Terminal Upgrades**

- Install necessary terminal equipment at Tekamah 161 kV substation to support upgrade of the existing line from Raun 161 kV substation to NPPD's Tekamah 161 kV substation to OPPD's S1226 161 kV substation with minimum summer emergency rating of 558 MVA
  - Terminal upgrade Tekamah Substation
  - Estimated cost is \$2,570,308
  - Funding from the 2027 budget, with an in-service of January 15, 2032

MVA = Mega Volt Amp



# Map (Tekamah Substation)



# Scope

## **Notification to Construct (SPP-NTC-220893)**

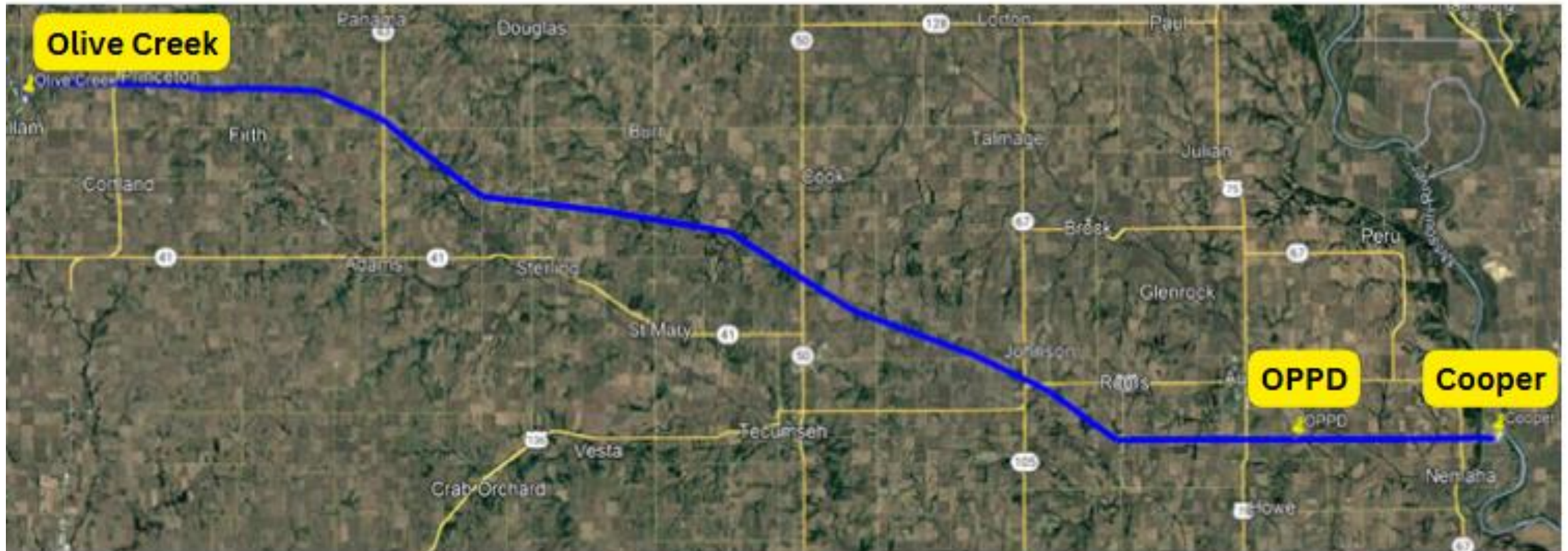
### **Reliability Network Upgrade: Cooper to Olive Creek / Moore 345 kV Line Tap, Terminal Upgrades, Fiber buildout and Line Upgrade**

- Upgrade existing 345 kV line from the Cooper Substation to the Olive Creek / Moore Substation.
  - Line terminal equipment at Cooper Substation
  - Upgrade and refurbish TL3501 to an operating temperature of 80°C
  - Install approximately 70 miles of underground fiber
  - Estimated cost is \$13,717,595
  - Funding from the 2027 budget, with an in-service of October 15, 2032



# Map

(Olive Creek / Moore 345 kV to Cooper 345 kV Transmission Line 3501)



# Recommendation

- Accept the Notification to Construct and authorize management to proceed with the commitment to implement upgrades as noted in SPP-NTC-220893
  - Install new 161 kV terminal upgrades for Tekamah Substation for an estimated \$2,570,308
  - Tap and upgrade 345 kV line from Cooper to Olive Creek / Moore Substation for an estimated \$13,717,595
  - Total NTC Cost – \$16,287,903



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## Questions

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