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Southwest Power Pool Notification to Construct with Conditions 220818
Ainsworth Wind 115 kV - Bassett 115 kV New Line with Terminal Upgrades

and

Notification to Construct 220810
Hoskins 115 kV - Stanton North 115 kV Rebuild and Aurora - Central City 115 kV New Line with Terminal Upgrades

NPPD Board of Directors Meeting & Operations Committee
February 2025

Scott Walz, Vice President Energy Delivery



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 NPPD transmission rates
 - 1/3 of these costs recovered regionally (All SPP transmission customers)
 - 2/3 of these costs recovered zonally (NPPD transmission customers)

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

Scope

Notification to Construct with Conditions (SPP-NTC-220818) Reliability Network Upgrade: **Ainsworth Wind 115 kV-Bassett 115 kV New Line with Terminal Upgrades**

- Construct a new 115 kV line from the existing Ainsworth Wind Substation to the existing Bassett Substation. New line with minimum summer emergency rating of 228 MVA.
 - Line terminal equipment at Ainsworth Wind
 - Line terminal equipment at the Bassett Substation
 - Estimated cost is \$33,882,782
 - Funding from the 2026 budget, with an in-service of June 1, 2029

MVA = Mega Volt Amp

Map (Ainsworth Wind 115 kV to Bassett 115 kV)



Scope (cont.)

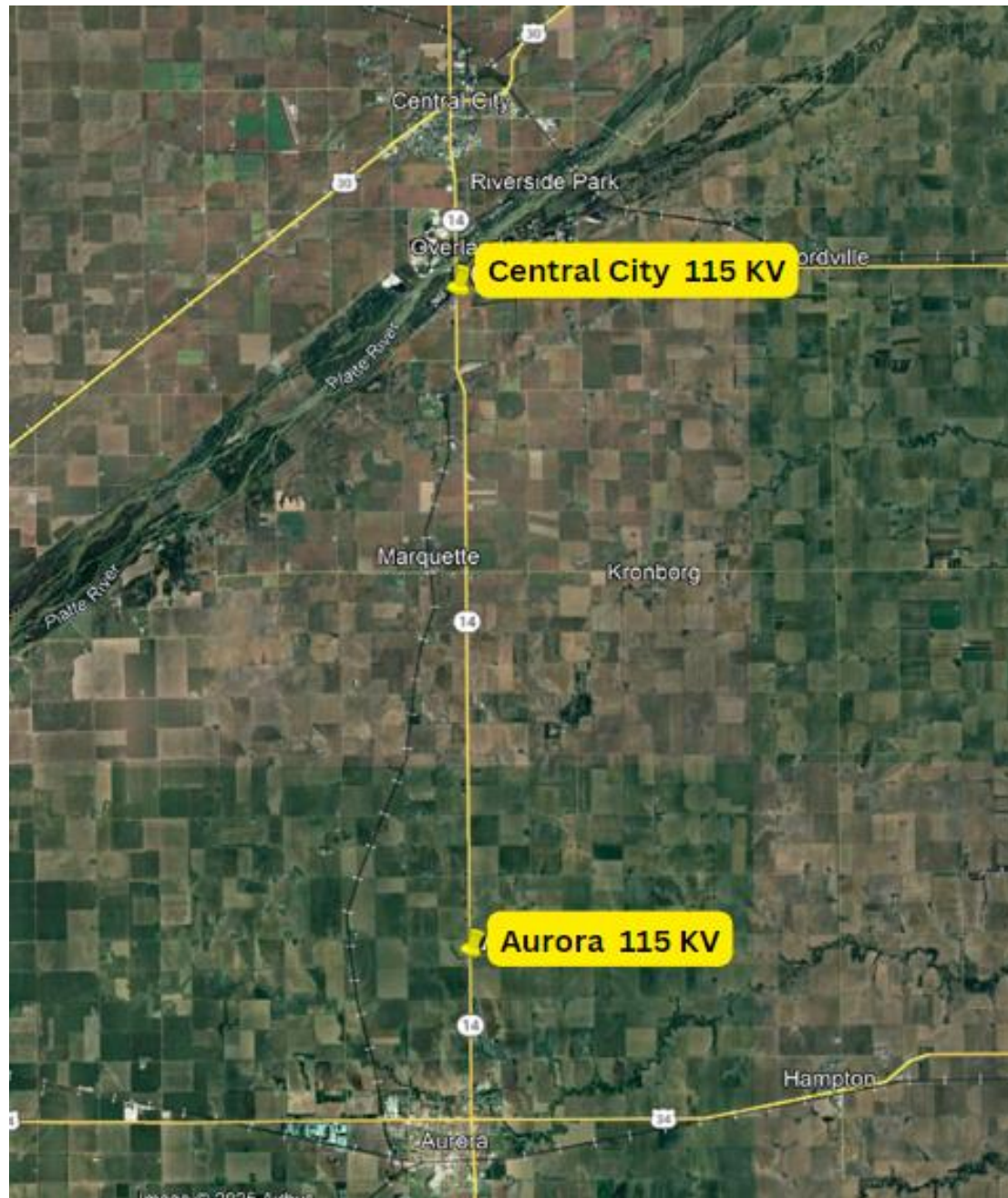
Notification to Construct (SPP-NTC-220810) Approved Reliability / Economic Network Upgrade: **Aurora 115 kV to Central City 115 kV New Line with Terminal Upgrades**

- Construct a new 115 kV line from the existing Aurora Substation to the existing Central City Substation. New line with minimum summer emergency rating of 228 MVA.
 - Line terminal equipment at the Aurora Substation
 - Line terminal equipment at the Central City Substation
 - Estimated cost is \$25,937,933
 - Funding from the 2026 budget, with an in-service of December 31, 2028

MVA = Mega Volt Amp

Map

(Aurora 115 kV to
Central City 115 kV)



Scope (cont.)

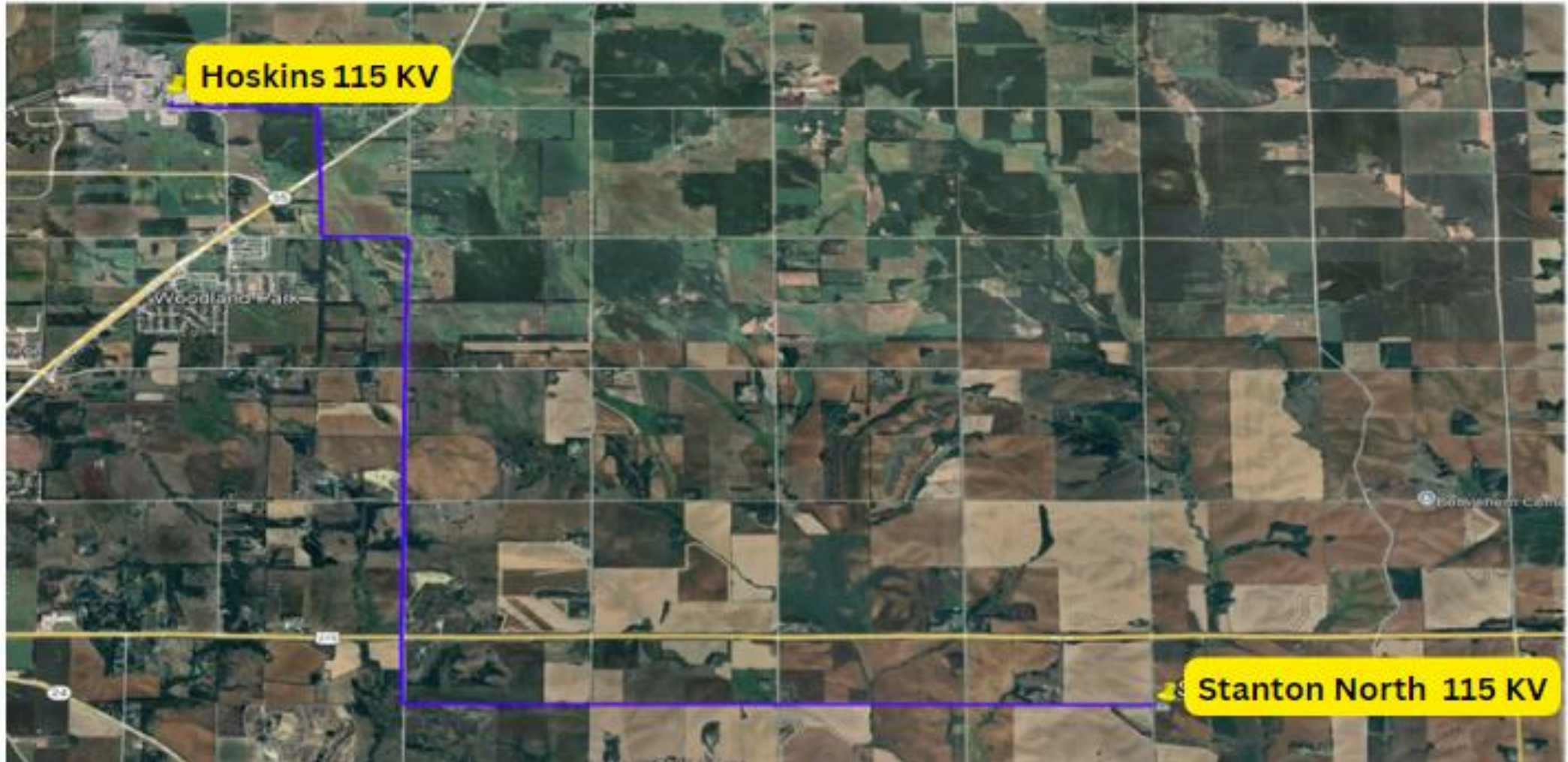
Notification to Construct (SPP-NTC-220810)

Approve Reliability/Economic Network Upgrade:

Hoskins 115 kV - Stanton North 115 kV Rebuild

- Rebuild 115 kV line from the existing Hoskins Substation to the existing Stanton North Substation. Rebuild line with minimum summer emergency rating of 239 MVA.
 - Line terminal equipment at the Hoskins Substation
 - Line terminal equipment at the Stanton North Substation
 - Estimated cost is \$4,639,865
 - Funding from the 2026 budget, with an in-service of June 1, 2027

Map (Hoskins 115 kV to Stanton North 115 kV)



Recommendation

- Accept the Notification to Construct and authorize management to proceed with the commitment to implement the network upgrades outlined in SPP-NTC-220810, Hoskins to Stanton North and Aurora to Central City, for the following cost estimates:
 - Rebuild 115 kV line from the existing Hoskins Substation to the existing Stanton North Substation for an estimated \$4,639,865
 - Construct new 115 kV line from the Aurora Substation to Central City Substation for an estimated \$25,937,933

Recommendation (cont.)

- Accept the Notification to Construct and authorize management to proceed with the commitment to implement upgrades as noted in SPP-NTC-C 220818, Ainsworth Wind to Bassett, for the following cost estimates:
 - Construct new 115 kV line from Ainsworth Wind to Bassett Substation for an estimated \$33,882,782



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Questions

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