

SPP-NTC-220881

SPP
Notification to Construct with Conditions

January 23, 2025

Mr. Nate Morris
Empire District Electric Company
P.O. Box 127
Joplin, MO 64802

RE: Notification to Construct with Conditions Approved Reliability Network Upgrades

Dear Mr. Morris,

Pursuant to Section 3.3 of the Southwest Power Pool, Inc. ("SPP") Membership Agreement and Attachments O and Y of the SPP Open Access Transmission Tariff ("OATT"), SPP provides this Notification to Construct with conditions ("NTC-C") directing Empire District Electric Company ("EDE"), as the Designated Transmission Owner, to construct the Network Upgrades. This NTC is conditioned upon EDE not ordering materials or beginning construction until:

(1) the DTO submits a refined NTC-C Project Estimate ("CPE") to SPP that has a variance bandwidth of -20% to +20% that does not exceed the Study Estimate variance bandwidth of -30% to +30% as provided for in SPP's Business Practices; or

(2) the SPP Board of Directors considers SPP's re-evaluation of a project that has a refined CPE from the DTO that exceeds the Study Estimate variance bandwidth of -30% to +30% as provided for in SPP's Business Practices.

On December 9, 2024, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of 2024 ITP.

New Network Upgrades

Project ID: 94647

Project Name: Line - Aurora 161 kV - Reeds Spring 161 kV Rebuild

Need Date for Project: 12/01/2025

Estimated Cost for Project: \$37,904,869

Network Upgrade ID: 159430

Network Upgrade Name: Aurora - Reeds Spring 161 kV Ckt 1 Rebuild

Network Upgrade Description: Rebuild 23.7 mile Ckt 1 line from Aurora 161 kV substation to Reeds Spring 161 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 557 MVA.

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Network Upgrade Owner: EDE
Categorization: To Be Finalized
Network Upgrade Specification: All elements and conductor to meet or exceed 557/557/557/557 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$37,387,772
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: EDE
Date of Estimated Cost: 6/10/2024

Network Upgrade ID: 159431
Network Upgrade Name: Aurora 161 kV Terminal Upgrade
Network Upgrade Description: Install any necessary terminal equipment at Aurora 161 kV substation to support the line from Aurora 161 kV substation to Reeds Spring 161 kV substation with a summer emergency rating of 557 MVA.
Network Upgrade Owner: EDE
Categorization: To Be Finalized
Network Upgrade Specification: All elements and conductor to meet or exceed 557/557/557/557 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$391,002
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: EDE
Date of Estimated Cost: 6/10/2024

Network Upgrade ID: 159432
Network Upgrade Name: Reeds Spring 161 kV Terminal Upgrade #1
Network Upgrade Description: Install any necessary terminal equipment at Reeds Spring 161 kV substation to support the line from Reeds Spring 161 kV substation to Aurora 161 kV substation with a summer emergency rating of 557 MVA.
Network Upgrade Owner: EDE
Categorization: To Be Finalized
Network Upgrade Specification: All elements and conductor to meet or exceed 557/557/557/557 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$126,095
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: EDE
Date of Estimated Cost: 6/10/2024

SPP-NTC-220881**Project ID:** 94787**Project Name:** Multi - Compton Ridge - Roark Creek, Table Rock - Nixa, Reeds Spring - Branson Northwest 161 kV Line Taps**Need Date for Project:** 12/1/2025**Estimated Cost for Project:** \$116,033,002 (this project cost reflects Network Upgrades not included in this NTC-C)**Network Upgrade ID:** 169886**Network Upgrade Name:** Reeds Spring - Branson Northwest 161 kV Line Tap**Network Upgrade Description:** Tap the existing Reeds Spring - Branson Northwest 161 kV line where it intersects Compton Ridge - Roark Creek 161 kV line and upgrade any necessary terminal equipment to achieve a summer emergency rating of 170 MVA.**Network Upgrade Owner:** EDE**Categorization:** To Be Finalized**Network Upgrade Specification:** All elements and conductor must achieve 170/170/209/209 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$2,328,339**Cost Allocation of the Network Upgrade:** Base Plan**Estimated Cost Source:** EDE**Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 169887**Network Upgrade Name:** North Branson 161 kV New Substation**Network Upgrade Description:** Build 161 kV Substation at North Branson at intersection of Reeds Spring - Branson Northwest and Compton Ridge - Roark Creek 161 kV lines**Network Upgrade Owner:** EDE**Categorization:** To Be Finalized**Network Upgrade Specification:** Install 161 kV new substation at North Branson**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$34,201,800**Cost Allocation of the Network Upgrade:** Base Plan**Estimated Cost Source:** EDE**Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 169888**Network Upgrade Name:** North Branson 345 kV New Substation

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Network Upgrade Description: Build 345 kV Substation at North Branson at intersection of Reeds Spring - Branson Northwest and Compton Ridge - Roark Creek 161 kV lines

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: Install 345 kV new substation at North Branson

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$39,574,341

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 7/11/2024

Network Upgrade ID: 169890

Network Upgrade Name: North Branson 345/161 kV Transformer Ckt 1 (161 kV)

Network Upgrade Description: Install new 345/161 kV transformer at North Branson 161 kV substation

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 400/440/400/440 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$22,295,000

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 7/5/2024

Network Upgrade ID: 169891

Network Upgrade Name: North Branson 345/161 kV Transformer Ckt 1 (345 kV)

Network Upgrade Description: Install 345 kV terminal equipment to support 345/161 transformer at North Branson 345 kV substation

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 400/440/400/440 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$2,328,339

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 7/5/2024

Project ID: 94832**Project Name:** Line - Aurora H.T. 161 kV - Monett 161 kV Rebuild**Need Date for Project:** 1/23/2025**Estimated Cost for Project:** \$22,835,547**Network Upgrade ID:** 170133**Network Upgrade Name:** Aurora H.T. - Monett 161 kV Ckt 1 Rebuild**Network Upgrade Description:** Rebuild 11.5 mile Ckt 1 line from Aurora H.T. 161 kV substation to Monett 161 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 557 MVA.**Network Upgrade Owner:** EDE**Categorization:** To Be Finalized**Network Upgrade Specification:** All elements and conductor to meet or exceed 557/557/557/557 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$21,553,353**Cost Allocation of the Network Upgrade:** Base Plan**Estimated Cost Source:** EDE**Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 170134**Network Upgrade Name:** Aurora H.T. 161 kV Terminal Upgrade**Network Upgrade Description:** Install any necessary terminal equipment at Aurora H.T. 161 kV substation to support the line from Aurora H.T. 161 kV substation to Monett 161 kV substation with a summer emergency rating of 557 MVA.**Network Upgrade Owner:** EDE**Categorization:** To Be Finalized**Network Upgrade Specification:** All elements and conductor to meet or exceed 557/557/557/557 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$538,096**Cost Allocation of the Network Upgrade:** Base Plan**Estimated Cost Source:** EDE**Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 170141**Network Upgrade Name:** Monett 161 kV Terminal Upgrade #1

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Network Upgrade Description: Install any necessary terminal equipment at Monett 161 kV substation to support the line from Monett 161 kV substation to Aurora H.T. 161 kV substation with a summer emergency rating of 557 MVA.

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 557/557/557/557 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$744,098

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 7/5/2024

Project ID: 94881

Project Name: Multi - Ozark Dam 161 kV - Forsythe North 161 kV - Ozark South 161 kV Voltage Conversion

Need Date for Project: 12/1/2025

Estimated Cost for Project: \$61,411,383

Network Upgrade ID: 170356

Network Upgrade Name: Ozark Dam - Forsythe North 161 kV Ckt 1 Voltage Conversion

Network Upgrade Description: Convert the 69 kV 3.8 mile Ckt 1 line from Ozark Dam 161 kV substation to Forsythe North 161 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 446 MVA.

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 446/446/446/446 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$5,641,326

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 9/16/2024

Network Upgrade ID: 170357

Network Upgrade Name: Forsythe North 161 kV Terminal Upgrade

Network Upgrade Description: Install any necessary terminal equipment at Forsythe North 69 kV substation to convert to 161 kV for the line from Forsythe

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North 161 kV substation to Ozark Dam substation to 161 kV with a summer emergency rating of 446 MVA.

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 446/446/446/446 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$15,925,965

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 9/25/2024

Network Upgrade ID: 170358

Network Upgrade Name: Forsythe North - Ozark South 161 kV Ckt 1 Voltage Conversion

Network Upgrade Description: Convert the 69 kV 24.4 mile Ckt 1 line from Forsythe North substation to Ozark South substation to 161 kV and upgrade any necessary terminal equipment to achieve a summer emergency rating of 446 MVA.

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 446/446/446/446 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$36,223,000

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE

Date of Estimated Cost: 9/25/2024

Network Upgrade ID: 170359

Network Upgrade Name: Ozark Dam 161 kV Terminal Upgrade #1

Network Upgrade Description: Install any necessary terminal equipment at Ozark Dam 69 kV substation to convert to 161 kV for the line from Ozark Dam 161 kV substation to Forsythe North 161 kV substation with a summer emergency rating of 446 MVA.

Network Upgrade Owner: EDE

Categorization: To Be Finalized

Network Upgrade Specification: All elements and conductor to meet or exceed 446/446/446/446 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$979,195

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: EDE
Date of Estimated Cost: 9/25/2024

Network Upgrade ID: 170360
Network Upgrade Name: Ozark South 161 kV Terminal Upgrade
Network Upgrade Description: Install any necessary terminal equipment at Ozark South 69 kV substation to convert to 161 kV for the line from Ozark South 161 kV substation to Forsythe North 161 kV substation with a summer emergency rating of 446 MVA.
Network Upgrade Owner: EDE
Categorization: To Be Finalized
Network Upgrade Specification: All elements and conductor to meet or exceed 446/446/446/446 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$1,855,446
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: EDE
Date of Estimated Cost: 9/25/2024

Network Upgrade ID: 170391
Network Upgrade Name: Forsythe North 161 kV Terminal Upgrade #1
Network Upgrade Description: Install any necessary terminal equipment at Forsythe North 69 kV substation for the line to Ozark South 161 kV substation with a summer emergency rating of 446 MVA.
Network Upgrade Owner: EDE
Categorization: To Be Finalized
Network Upgrade Specification: All elements and conductor to meet or exceed 446/446/446/446 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$786,451
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: EDE
Date of Estimated Cost: 8/16/2024

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) by April 23, 2025. Failure to provide a sufficient written commitment to construct as required by the SPP OATT could result in the Network Upgrade(s) being assigned to another entity.

CPE

Please provide SPP a CPE by the earlier of 1) four months in advance of the start of the next Integrated Transmission Plan Assessment (ITP) or 2) July 22, 2025, as described in SPP's

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Business Practice No. 7060 regarding Notification to Construct with Conditions. Please also include a construction schedule with your CPE. EDE shall advise SPP of any inability to provide the CPE by the date specified, as soon as the inability becomes apparent. This due date may change as a result of the final outcome of the FERC docket related to the Tariff changes to implement the revised ITP process.

Removal of Conditions

Upon notice by SPP of removal of the conditions contained in this NTC, SPP will issue the DTO a new NTC and the following will be applicable:

Mitigation Plan

The Need Date represents the timing required for the Network Upgrade(s) to address the identified need. Your prompt attention is required for formulation and approval of any necessary mitigation plans for the Network Upgrade(s) included in the Network Upgrade(s) if the Need Date is not feasible. Additionally, if it is anticipated that the completion of any Network Upgrade will be delayed past the Need Date, SPP requires a mitigation plan be filed within 60 days of the determination of expected delays.

Notification of Commercial Operation

Please submit a notification of commercial operation for each listed Network Upgrade to SPP as soon as the Network Upgrade is complete and in-service. Please provide SPP with the actual costs of these Network Upgrades as soon as possible after completion of construction. This will facilitate the timely billing by SPP based on actual costs.

Notification of Progress

On an ongoing basis, please keep SPP advised of any inability on EDE's part to complete the approved Network Upgrade(s). For project tracking, SPP requires EDE's to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, EDE shall also advise SPP of any inability to comply with the Project Schedule as soon as the inability becomes apparent.

All terms and conditions of the SPP OATT and the SPP Membership Agreement shall apply to this project(s), and nothing in this letter shall vary such terms and conditions.

Don't hesitate to contact me if you have questions or comments about these requests. Thank you for the important role that you play in maintaining the reliability of our electric grid.

Sincerely,

A handwritten signature in black ink that reads "Casey Cathey". The signature is written in a cursive, flowing style.

Casey Cathey

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Vice President, Engineering

Phone: (501) 614-3267 • Fax: (501) 482-2022 • ccathey@spp.org

cc: Lanny Nickell - SPP
Sunny Raheem - SPP
Natasha Henderson - SPP
Tony Green - SPP
Aaron Doll - EDE
SPPprojecttracking