

SPP-NTC-220865

SPP
Notification to Construct with Conditions

December 13, 2024

Mr. Jeremy Severson
Basin Electric Power Cooperative
1717 E. Interstate Ave.
Bismarck, ND 58503

RE: Notification to Construct with Conditions Approved Reliability Network Upgrades

Dear Mr. Severson,

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 Basin Electric Power Cooperative ("BEPC"), as the Designated Transmission Owner, to construct the Network Upgrades. This NTC is conditioned upon BEPC 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 October 29, 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: 94723

Project Name: Multi - Logan 345 kV - Leland Olds 345 kV Voltage Conv and Logan 345 kV - Crane Creek 345 kV New Line

Need Date for Project: 12/1/2032

Estimated Cost for Project: \$313,662,135

Network Upgrade ID: 169628

Network Upgrade Name: Logan - Leland Olds 345 kV Ckt 1 Voltage Conversion

Network Upgrade Description: Convert 65-mile 230 kV Ckt 1 line from Logan 345 kV substation to Leland Olds 345 kV substation to 345 kV and upgrade any necessary terminal equipment to achieve a summer emergency rating of 1792 MVA.

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 1792/1792/1792/1792 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$93,000,000

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169632

Network Upgrade Name: Logan 345 kV Ckt 1 Terminal Addition

Network Upgrade Description: Install any necessary terminal equipment at the new Logan 345 kV substation for the addition of the line from Leland Olds 345 kV substation for the voltage conversion from 230 kV with a summer emergency rating of 1792 MVA.

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 1792/1792/1792/1792 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$4,273,533

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169633

Network Upgrade Name: Leland Olds 345 kV Ckt 1 Terminal Upgrade

Network Upgrade Description: Install any necessary terminal equipment at Leland Olds 345 kV substation for the line from Leland Olds 345 kV substation to Logan 345 kV substation for the voltage conversion from 230 kV with a summer emergency rating of 1792 MVA.

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 1792/1792/1792/1792 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$8,071,964

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169634

Network Upgrade Name: Logan - Crane Creek 345 kV Ckt 1 New Line

Network Upgrade Description: Build a new 53-mile 345 kV Ckt 1 line from Logan 345 kV substation to Finstad 345 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 1792 MVA.

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 1792/1792/1792/1792 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$127,000,000

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169635

Network Upgrade Name: Logan 345 kV Ckt 1 Terminal Addition

Network Upgrade Description: Install any necessary terminal equipment at Logan 345 kV substation for the addition of the line from Logan 345 kV substation to Crane Creek 345 kV substation with a summer emergency rating of 1792 MVA.

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 1792/1792/1792/1792 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$7,396,289

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169636

Network Upgrade Name: Crane Creek 345 kV Terminal Addition

Network Upgrade Description: Install any necessary terminal equipment at the Crane Creek 345 kV substation for the addition of the line from the Logan 345 kV substation with a summer emergency rating of 1792 MVA.

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 1792/1792/1792/1792 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$8,071,964
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169637
Network Upgrade Name: Logan 345 kV New Substation
Network Upgrade Description: Install a new 345 kV substation at or near Logan.
Network Upgrade Owner: BEPC
Categorization: Regional Reliability
Network Upgrade Specification: Install new 345 kV substation at Logan
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$25,693,407
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169638
Network Upgrade Name: Logan 345/230 kV Transformer Ckt 1 (230 kV)
Network Upgrade Description: Install new 345/230 transformer Ckt 1 at the new Logan 345 kV substation
Network Upgrade Owner: BEPC
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor to meet or exceed 600/717/600/717 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$13,488,166
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169639
Network Upgrade Name: Logan 345 kV Terminal Equipment Ckt 1 (345 kV)
Network Upgrade Description: Install 345 kV terminal equipment to support 345/230 Ckt 1 transformer at the new Logan 345 kV substation
Network Upgrade Owner: BEPC
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor to meet or exceed 600/717/600/717 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2024 ITP
Estimated Cost for Network Upgrade (current day dollars): \$6,467,163

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169640

Network Upgrade Name: Logan 345/230 kV Transformer Ckt 2 (230 kV)

Network Upgrade Description: Install new 345/230 Ckt 2 transformer at the new Logan 345 kV substation

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 600/717/600/717 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$13,712,271

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 169641

Network Upgrade Name: Logan 345 kV Terminal Equipment Ckt 2 (345 kV)

Network Upgrade Description: Install 345 kV terminal equipment to support 345/230 Ckt 2 transformer at the new Logan 345 kV substation

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor to meet or exceed 600/717/600/717 (SN/SE/WN/WE) MVA rating

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$6,487,378

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 6/24/2024

Network Upgrade ID: 170516

Network Upgrade Name: Logan 230 kV Terminal Upgrade

Network Upgrade Description: Install 230 kV terminal equipment at the Logan 230 kV substation to accommodate the two terminals for the 345/230 kV transformers. This also includes the line or bus segments to connect the 345/230 kV transformers from the new Logan 345 to the existing Logan 230 kV substation

Network Upgrade Owner: BEPC

Categorization: Regional Reliability

Network Upgrade Specification: Install new 230 kV equipment at Logan 2330

Network Upgrade Justification: 2024 ITP

Estimated Cost for Network Upgrade (current day dollars): \$0

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: SPP

Date of Estimated Cost: 6/24/2024

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) by March 13, 2025. Failure to provide 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) June 11, 2025, as described in SPP's Business Practice No. 7060 regarding Notification to Construct with Conditions. Please also include a construction schedule with your CPE. BEPC 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 BEPC's part to complete the approved Network Upgrade(s). For project tracking, SPP requires BEPC's to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors

meetings. However, BEPC 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

Vice President, Engineering

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

cc: Lanny Nickell - SPP
Natasha Henderson - SPP
Tony Green - SPP
Sunny Raheem - SPP
Jason Mazigian - BEPC
Phil Westby - BEPC
Gavin McCollam - BEPC
Matt Ehrman - BEPC
Boyd Trester - BEPC
SPPprojecttracking