

SPP-NTC-210675

**SPP
Notification to Construct**

July 12, 2022

Mr. Tom Christensen
Basin Electric Power Cooperative
1717 E. Interstate Ave.
Bismarck, ND 58503

RE: Notification to Construct Approved Reliability Network Upgrades

Dear Mr. Christensen,

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 ("NTC") directing Basin Electric Power Cooperative ("BEPC"), as the Designated Transmission Owner, to construct the Network Upgrades.

On January 25, 2022, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of 2021 ITP.

New Network Upgrades

Previous NTC Number: 210652

Previous NTC Issue Date: 3/11/2022

Project ID: 92113

Project Name: Line - Kummer Ridge - Round Up 345 kV

Need Date for Project: 1/1/2023

Estimated Cost for Project: \$78,977,357

Network Upgrade ID: 143588

Network Upgrade Name: Kummer Ridge - Round Up 345 kV

Network Upgrade Description: Build 33.2 mile new 345 kV line from Kummer Ridge to Round Up

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

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Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1792/1792/1792/1792 (SN/SE/WN/WE) MVA

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$78,293,357

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 143589

Network Upgrade Name: Kummer Ridge 345 kV Terminal Upgrades

Network Upgrade Description: Install terminal equipment at Kummer Ridge substation 345 kV to support a new 345 kV line from Round Up

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1792/1792/1792/1792 (SN/SE/WN/WE) MVA

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$342,000

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 143590

Network Upgrade Name: Round Up 345 kV Terminal Upgrades

Network Upgrade Description: Install terminal equipment at Round Up substation 345 kV to support a new 345 kV line from Kummer Ridge

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1792/1792/1792/1792 (SN/SE/WN/WE) MVA

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$342,000

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

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Previous NTC Number: 210652
Previous NTC Issue Date: 3/11/2022
Project ID: 92168
Project Name: Multi - Tande - Finstad - Leland Olds 345 kV
Need Date for Project: 1/1/2023
Estimated Cost for Project: \$325,562,264 (this project cost reflects Network Upgrades not included in this NTC)

Network Upgrade ID: 143714
Network Upgrade Name: Finstad - Tande 345 kV New Line
Network Upgrade Description: Build a 48 mile 345 kV line from Finstad to Tande.
Network Upgrade Owner: BEPC
MOPC Representative(s): Jason Doerr
TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1792(SE) MVA
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$67,411,405
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 5/26/2022

Network Upgrade ID: 144227
Network Upgrade Name: Finstad 115 kV Substation
Network Upgrade Description: Build a new 115 kV Substation with terminal equipment to support a line from Vanhook 115 kV substation.
Network Upgrade Owner: BEPC
MOPC Representative(s): Jason Doerr
TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 239/239/239/239
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$4,675,697
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: SPP
Date of Estimated Cost: 5/31/2022

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Network Upgrade ID: 144230

Network Upgrade Name: Finstad 345 kV New Substation

Network Upgrade Description: Build a new 345 kV Substation including 345 kV terminals for lines from Leland Olds 345 kV substation, Tande 345 kV substation and high side terminal equipment for Finstad 345/115 kV Ckt 1 transformer and Finstad 345/115 kV Ckt 2 transformer

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1792/1792/1792/1792 (SN/SE/WN/WE) MVA

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$18,822,018

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144231

Network Upgrade Name: Finstad Switched Shunt

Network Upgrade Description: Install a switched shunt at Finstad.

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

Network Upgrade Specification: Switched shunt and supporting elements must be rated for minimum of 25 MVAR

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$385,021

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144233

Network Upgrade Name: Finstad 345/115 kV Ckt 1 Transformer

Network Upgrade Description: Install a 345/115 kV Ckt 1 Transformer at Finstad 345

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

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TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 332/415/332/415 (SN/SE/WN/WE) MVA
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$5,315,254
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144235
Network Upgrade Name: Finstad 345/115 kV Ckt 2 Transformer
Network Upgrade Description: Install a 345/115 kV Ckt 2 transformer at Finstad 115 and upgrade any necessary 115 kV terminal equipment.
Network Upgrade Owner: BEPC
MOPC Representative(s): Jason Doerr
TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 332/415/332/415 (SN/SE/WN/WE) MVA
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$5,315,254
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144236
Network Upgrade Name: Leland Olds - Finstad - 345 kV New Line
Network Upgrade Description: Build a 123 mile 345 kV line from Leland Olds to Finstad.
Network Upgrade Owner: BEPC
MOPC Representative(s): Jason Doerr
TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1195/1195/1195/1195 (SN/SE/WN/WE) MVA
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$200,761,539
Cost Allocation of the Network Upgrade: Base Plan

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Estimated Cost Source: BEPC
Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144237
Network Upgrade Name: Leland Olds 345 kV Substation
Network Upgrade Description: Build a new 345 kV Substation with terminal equipment to support a new line from Finstad 345 kV substation.
Network Upgrade Owner: BEPC
MOPC Representative(s): Jason Doerr
TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1195/1195/1195/1195 (SN/SE/WN/WE) MVA
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$9,277,339
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: SPP
Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144238
Network Upgrade Name: Tande 345 kV Terminal Equipment
Network Upgrade Description: Install new terminal equipment at Tande to support a new 345 kV line from Finstad. Install a series compensation device at Finstad or Tande.
Network Upgrade Owner: BEPC
MOPC Representative(s): Jason Doerr
TWG Representative(s): Phil Westby
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 1195/1195/1195/1195 (SN/SE/WN/WE) MVA
Network Upgrade Justification: 2021 ITP
Estimated Cost for Network Upgrade (current day dollars): \$5,085,047
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: BEPC
Date of Estimated Cost: 5/31/2022

Previous NTC Number: 210652
Previous NTC Issue Date: 3/11/2022

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Project ID: 92211

Project Name: Multi - NE Williston - Folvag 115 kV - Judson - East Fork - Tande 345 kV

Need Date for Project: 1/1/2023

Estimated Cost for Project: \$34,634,441 (this project cost reflects Network Upgrades not included in this NTC)

Network Upgrade ID: 144171

Network Upgrade Name: East Fork 345/115 kV Substation

Network Upgrade Description: Bisect the Judson to Tande 345 kV line approximately 18 miles from Judson and build a new 345 kV Substation.

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

Network Upgrade Specification: All 345 kV elements and conductor must meet seasonal rating criteria of 1792/192/1792/1792 (SN/SE/WN/WE) MVA

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$17,766,381

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

Network Upgrade ID: 144198

Network Upgrade Name: East Fork 345/115 kV Transformer

Network Upgrade Description: Install a 345/115 kV Transformer at the new East Fork 345/115 kV Substation.

Network Upgrade Owner: BEPC

MOPC Representative(s): Jason Doerr

TWG Representative(s): Phil Westby

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor must meet seasonal rating criteria of 332/415/332/415 (SN/SE/WN/WE) MVA

Network Upgrade Justification: 2021 ITP

Estimated Cost for Network Upgrade (current day dollars): \$5,904,650

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: BEPC

Date of Estimated Cost: 5/31/2022

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Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) by October 10, 2022, in addition to providing a construction schedule and an updated -20% to +20% cost estimate, NTC Project Estimate, in the Standardized Cost Estimate Reporting Template for the Network Upgrade(s). 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.

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 blue ink, appearing to read "Antoine Lucas", is written over a light blue horizontal line.

Antoine Lucas

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Vice President, Engineering

Phone: (501) 614-3382 • Fax: (501) 482-2022 • alucas@spp.org

cc: Lanny Nickell - SPP
Casey Cathey - SPP
David Kelley - SPP
Jeremy Severson - BEPC
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