

**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'.

Antoine Lucas



**SPP-NTC-210675**

Vice President, Engineering

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