

**SPP-NTC-220828**

**SPP**  
**Notification to Construct with Conditions**

December 13, 2024

Mr. John Knofczynski  
East River Electric Power Cooperative  
P.O. Box 227  
Madison, SD 57042

RE: Notification to Construct with Conditions Approved Reliability Network Upgrades

Dear Mr. Knofczynski,

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 East River Electric Power Cooperative ("EREC"), as the Designated Transmission Owner, to construct the Network Upgrades. This NTC is conditioned upon EREC 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:** 94567

**Project Name:** Multi - Marion Area 115 kV Voltage Conversion Reconfig

**Need Date for Project:** 11/12/2027

**Estimated Cost for Project:** \$37,366,333

**Network Upgrade ID:** 159073

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**Network Upgrade Name:** North Marion - Montrose Manual 115 kV Ckt 1  
Voltage Conversion  
**Network Upgrade Description:** Convert 2.5-mile 69kV Ckt 1 line from North  
Marion to Montrose Manual to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed  
139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$0  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159118  
**Network Upgrade Name:** Dolton Manual 115 kV New Switch  
**Network Upgrade Description:** Install 115 kV Switch at Dolton Manual  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV Switch at Dolton Manual  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$152,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 170517  
**Network Upgrade Name:** Dolton Manual – Marion Industrial 115 kV Ckt 1  
Voltage Conversion  
**Network Upgrade Description:** Convert 6.9-mile 69kV Ckt 1 line from Dolton  
Manual to Marion Industrial to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed  
139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$0  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

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**Network Upgrade ID:** 159121  
**Network Upgrade Name:** Marion Industrial 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Marion Industrial  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Marion Industrial  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$4,025,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159123  
**Network Upgrade Name:** Parker City 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Parker City  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Parker City  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$3,525,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159144  
**Network Upgrade Name:** Canistota 69-kV Substation Voltage Conversion  
**Network Upgrade Description:** Convert 69 kV Substation at Canistota to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All substation buses and elements meet or exceed 239 MVA rating. All terminals meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating.  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$275,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

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**Network Upgrade ID:** 159162  
**Network Upgrade Name:** Canistota 115 kV Capacitor  
**Network Upgrade Description:** Install 2.4 MVAR capacitor at Canistota 115 kV substation  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Capacitor Bank must be rated at 2.4 MVAR  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$400,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159166  
**Network Upgrade Name:** Dolton Manual - Canistota 115 kV Ckt 1 Voltage Conversion  
**Network Upgrade Description:** Convert 4-mile 69 kV Ckt 1 line from Dolton Manual to Canistota to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$0  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159176  
**Network Upgrade Name:** VT Hanlon 115 kV Ckt 1 Terminal Upgrade  
**Network Upgrade Description:** Install any necessary terminal equipment at VT Hanlon 115 kV substation to support the voltage conversion from VT Hanlon 115 kV substation to Montrose Manual 115 kV switch with a summer emergency rating of 139 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$1,010,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability

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**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159181  
**Network Upgrade Name:** Marion - Parker City 115 kV Ckt 1 Rebuild  
**Network Upgrade Description:** Rebuild 6.3-mile 69 kV Ckt 1 line from Marion 115 kV substation to Parker City and upgrade any necessary terminal equipment to achieve a summer emergency rating of 139 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$2,480,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159183  
**Network Upgrade Name:** Marion Industrial - Marion 115 kV Ckt 1 Voltage Conversion  
**Network Upgrade Description:** Convert 2.5-mile 69 kV Ckt 1 line from Marion Industrial to Marion to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$0  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159185  
**Network Upgrade Name:** Marion Industrial 115 kV Capacitor Bank  
**Network Upgrade Description:** Install 7.2 MVAR switched shunt at Marion Industrial 115 kV substation  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Capacitor Bank must be rated at 7.2 MVAR  
**Network Upgrade Justification:** 2024 ITP

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**Estimated Cost for Network Upgrade (current day dollars):** \$600,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159192  
**Network Upgrade Name:** Montrose Manual – VT Hanlon 115 kV Ckt 1 Voltage Conversion  
**Network Upgrade Description:** Convert 3.5-mile 69 kV Ckt 1 line from Montrose Manual to VT Hanlon to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$0  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159195  
**Network Upgrade Name:** North Marion - Canistota 115 kV Ckt 1 Voltage Conversion  
**Network Upgrade Description:** Convert 9-mile 69 kV Ckt 1 line from North Marion to Canistota to 115 kV  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$0  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159212  
**Network Upgrade Name:** Turkey Ridge Manual 115 kV New Switch  
**Network Upgrade Description:** Install 115 kV new switch at Turkey Ridge Manual  
**Network Upgrade Owner:** EREC



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**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new switch at Turkey Ridge Manual  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$152,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024

**Network Upgrade ID:** 159214  
**Network Upgrade Name:** Turkey Ridge Manual - Turner County 115 kV Ckt 1 New Line  
**Network Upgrade Description:** Build a 14.5-mile 115 kV Ckt 1 line from Turkey Ridge Manual 115 kV switch to Turner County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 112 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 112/112/112/112 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$5,880,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 6/10/2024

**Network Upgrade ID:** 159216  
**Network Upgrade Name:** Turkey Ridge Manual – Hutchinson County 115 kV Ckt 1 New Line  
**Network Upgrade Description:** Build 8.2-mile 115 kV Ckt 1 line from Turkey Ridge Manual 115 kV switch to Hutchinson County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 112 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 112/112/112/112 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$3,280,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC

**SPP-NTC-220828****Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 159220**Network Upgrade Name:** Parker City - Turner County 115 kV Ckt 1 New Line**Network Upgrade Description:** Build a 12- mile 115 kV Ckt 1 line from Parker City 115 kV substation to Turner County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 139 MVA.**Network Upgrade Owner:** EREC**Categorization:** Zonal Reliability**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$4,675,000**Cost Allocation of the Network Upgrade:** Zonal Reliability**Estimated Cost Source:** EREC**Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 159229**Network Upgrade Name:** Turner County 115 kV New Substation**Network Upgrade Description:** Install 115 kV new substation at Turner County**Network Upgrade Owner:** EREC**Categorization:** Zonal Reliability**Network Upgrade Specification:** Install 115 kV new substation at Turner County**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$5,550,000**Cost Allocation of the Network Upgrade:** Zonal Reliability**Estimated Cost Source:** EREC**Date of Estimated Cost:** 7/5/2024**Network Upgrade ID:** 159230**Network Upgrade Name:** Hutchinson County 115 kV New Substation**Network Upgrade Description:** Install 115 kV new substation at Hutchinson County.**Network Upgrade Owner:** EREC**Categorization:** Zonal Reliability**Network Upgrade Specification:** Install 115 kV new substation at Hutchinson County.**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$4,825,000**Cost Allocation of the Network Upgrade:** Zonal Reliability



**SPP-NTC-220828****Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/5/2024**Project ID:** 94737  
**Project Name:** Multi - Hanson County 115 kV System Reconfig  
**Need Date for Project:** 6/1/2025  
**Estimated Cost for Project:** \$39,576,675**Network Upgrade ID:** 169675  
**Network Upgrade Name:** Mount Vernon - Mitchell 69 kV Ckt 1 New Line  
**Network Upgrade Description:** Build a new 18.4-mile 69 kV Ckt 1 line from Mount Vernon to Mitchell and upgrade any necessary terminal equipment to achieve a summer emergency rating of 84 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 84/84/84/84 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$2,727,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** SPP  
**Date of Estimated Cost:** 7/11/2024**Network Upgrade ID:** 169676  
**Network Upgrade Name:** Mitchell 69 kV New Substation  
**Network Upgrade Description:** Install 69 kV new substation at Mitchell  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 69 kV new substation at Mitchell  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$4,400,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** SPP  
**Date of Estimated Cost:** 7/11/2024**Network Upgrade ID:** 169677  
**Network Upgrade Name:** Letcher - Plano 115 kV Ckt 1 New Line  
**Network Upgrade Description:** Build a new 6.2-mile 115 kV Ckt 1 line from Letcher 115 kV substation to Plano 115 kV motor-operated switch and upgrade

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any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$3,010,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** SPP

**Date of Estimated Cost:** 7/11/2024

**Network Upgrade ID:** 169678

**Network Upgrade Name:** Letcher 115 kV Ckt 1 Terminal Upgrade

**Network Upgrade Description:** Install any necessary terminal equipment at Letcher 115 kV substation for the line from Letcher 115 kV substation to Plano 115 kV substation with a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$1,025,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/11/2024

**Network Upgrade ID:** 169686

**Network Upgrade Name:** Mitchell - Hanson County 69 kV Ckt 1 New Line

**Network Upgrade Description:** Build a new 18.3-mile 69 kV Ckt 1 line from Mitchell 69 kV substation to Hanson County 69 kV substation with a summer emergency rating of 84 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 84/84/84/84 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$5,086,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/11/2024

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**Network Upgrade ID:** 169692

**Network Upgrade Name:** Plano - Hanson County 115 kV Ckt 1 New Line

**Network Upgrade Description:** Build a new 18.6-mile 115 kV Ckt 1 line from Plano 115 kV substation to Hanson County 115 kV substation with a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$8,805,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169694

**Network Upgrade Name:** Plano 115 kV New Motor Operated Switch (MOS)

**Network Upgrade Description:** Install new three-way motor-operated switch and any necessary terminal equipment at Plano 115 kV MOS for the lines from Plano 115 kV MOS to Letcher 115 kV substation and from Plano 115 kV MOS to Hanson County 115 kV substation with a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and terminal equipment to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating.

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$170,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169695

**Network Upgrade Name:** Letcher-Miner County 115 kV line extension

**Network Upgrade Description:** Extend the 115 kV line from Letcher to Miner County 3.25 miles to reroute around the new lines to Letcher.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

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**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$1,310,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169696  
**Network Upgrade Name:** Hanson County 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Hanson County.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Hanson County.  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$2,200,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169697  
**Network Upgrade Name:** Hanson County 69 kV New Substation  
**Network Upgrade Description:** Install 69 kV new Substation at Hanson County.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 69 kV new Substation at Hanson County.  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$5,850,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169698  
**Network Upgrade Name:** Hanson County 69 kV Capacitor  
**Network Upgrade Description:** Install 9.6 MVAR Capacitor at Hanson County 69 kV substation  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Capacitor Bank must be rated at 9.6 MVAR

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**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$1,070,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169699  
**Network Upgrade Name:** Hanson County 115/69 kV Transformer Ckt 1 (69 kV)  
**Network Upgrade Description:** Install new 115/69 transformer at Hanson County 69 kV substation  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 56/67/56/67 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$3,075,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169701  
**Network Upgrade Name:** Mount Vernon 69 kV Ckt 1 Terminal Upgrade 3  
**Network Upgrade Description:** Install any necessary terminal equipment at Mount Vernon 69 kV substation for the line from Mount Vernon 69 kV substation to Mitchell 69 kV substation with a summer emergency rating of 84 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 84/84/84/84 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$800,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Project ID:** 94782  
**Project Name:** Multi - Madison, SD Area 115 kV System Voltage Conversion  
**Need Date for Project:** 12/31/2026

**SPP-NTC-220828****Estimated Cost for Project:** \$35,070,333**Network Upgrade ID:** 169933**Network Upgrade Name:** Madison - Lake County 115 kV Ckt 1 New Line**Network Upgrade Description:** Build a 3-mile 115 kV Ckt 1 line from Madison SE 115 kV substation to Lake County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 139 MVA.**Network Upgrade Owner:** EREC**Categorization:** Zonal Reliability**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$1,330,000**Cost Allocation of the Network Upgrade:** Zonal Reliability**Estimated Cost Source:** EREC**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 169935**Network Upgrade Name:** Madison SE - Lakeview 115 kV Ckt 1 Voltage Conversion**Network Upgrade Description:** Convert the 0.9-mile Ckt 1 69kV line from Madison SE to Lakeview to 115 kV**Network Upgrade Owner:** EREC**Categorization:** Zonal Reliability**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$400,000**Cost Allocation of the Network Upgrade:** Zonal Reliability**Estimated Cost Source:** EREC**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 169937**Network Upgrade Name:** Lake County - Howard 115 kV Ckt 1 New Line**Network Upgrade Description:** Build a 22.2-mile 115 kV Ckt 1 line from Lake County 115 kV substation to Howard 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 139 MVA.**Network Upgrade Owner:** EREC**Categorization:** Zonal Reliability



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**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$9,000,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169940

**Network Upgrade Name:** Howard - Howard City 115 kV Ckt 1 New Line

**Network Upgrade Description:** Build a 6.0-mile 115 kV Ckt 1 line from Howard 115kV substation to Howard City 115kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$2,025,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169951

**Network Upgrade Name:** Howard City - Miner County 115 kV Ckt 1 New Line

**Network Upgrade Description:** Build a 12.4-mile 115 kV Ckt 1 line from Howard City 115 kV MOS to Miner County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$4,895,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

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**Network Upgrade ID:** 169953

**Network Upgrade Name:** Miner County 115 kV Ckt 1 Terminal Upgrade #2

**Network Upgrade Description:** Install any necessary terminal equipment at Miner County 115 kV substation to support the new line from Miner County 115 kV substation to Howard City 115 kV MOS to achieve a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$760,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169969

**Network Upgrade Name:** VT Hanlon - Lakeview 115 kV Ckt 1 Voltage Conversion

**Network Upgrade Description:** Convert the 24-mile Ckt 1 69 kV line from Hanlon to Lakeview to 115 kV

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

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

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** SPP

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169970

**Network Upgrade Name:** VT Hanlon 115 kV Ckt 1 Terminal Upgrade #1

**Network Upgrade Description:** Install any necessary terminal equipment at Hanlon 115 kV substation to support the voltage conversion from VT Hanlon 115 kV substation to Lakeview 115 kV MOS to achieve a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

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**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$485,333  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** SPP  
**Date of Estimated Cost:** 6/7/2024

**Network Upgrade ID:** 169972  
**Network Upgrade Name:** Lake County 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Lake County  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Lake County  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$3,370,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169973  
**Network Upgrade Name:** Madison SE 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Madison SE  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Madison SE  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$4,570,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169974  
**Network Upgrade Name:** Howard 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Howard  
**Network Upgrade Owner:** EREC  
**Categorization:** Zonal Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Howard  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$3,795,000  
**Cost Allocation of the Network Upgrade:** Zonal Reliability  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

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**Network Upgrade ID:** 169975

**Network Upgrade Name:** Howard City 115 kV New Motor Operated Switch (MOS)

**Network Upgrade Description:** Install new three-way motor-operated switch and any necessary terminal equipment at Howard City MOS for the lines from Howard City MOS to Miner County substation and from the Howard City MOS to the Howard substation with a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and terminal equipment to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating.

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$165,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169977

**Network Upgrade Name:** Lakeview 115 kV New Motor Operated Switch (MOS)

**Network Upgrade Description:** Install new three-way motor-operated switch and any necessary terminal equipment at Lakeview 115 kV MOS for the lines from Lakeview 115 kV MOS to Madison SE substation and from Lakeview 115 kV MOS to VT Hanlon substation with a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and terminal equipment to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating.

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$165,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169978

**Network Upgrade Name:** Miner County 115 kV Ckt 1 Terminal Upgrade #1

**Network Upgrade Description:** Install any necessary terminal equipment at Miner County 115 kV substation to support the new line from Miner County 115

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kV substation to Fedora 115 kV substation to achieve a summer emergency rating of 139 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 139/139/139/139 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$760,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 169979

**Network Upgrade Name:** Lake County 115/69 kV Transformer Ckt 1 (69 kV)

**Network Upgrade Description:** Install new 115/69 transformer at Lake County 69 kV substation

**Network Upgrade Owner:** EREC

**Categorization:** Zonal Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 56/67/56/67 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$3,350,000

**Cost Allocation of the Network Upgrade:** Zonal Reliability

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Project ID:** 94951

**Project Name:** Multi - Kingsbury County 115 Voltage Conversion

**Need Date for Project:** 6/1/2025

**Estimated Cost for Project:** \$84,007,000

**Network Upgrade ID:** 170455

**Network Upgrade Name:** Oldham - Lake County 115 kV Ckt 1 New Line

**Network Upgrade Description:** Build a 23-mile 115 kV Ckt 1 line from Oldham 115 kV MOS to Lake County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

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**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$9,440,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170457

**Network Upgrade Name:** Lake County 115 kV Ckt 1 Terminal Upgrade #2

**Network Upgrade Description:** Install any necessary terminal equipment at Lake County 115 kV substation to support the new line from Lake County 115 kV substation to Oldham 115 kV MOS to achieve a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$750,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170458

**Network Upgrade Name:** Oldham 115 kV New Motor Operated Switch (MOS)

**Network Upgrade Description:** Install new 115-kV three-way motor operated switch and any necessary terminal equipment at Oldham 115 kV MOS for the lines from Oldham 115 kV MOS to Lake County 115 kV substation and from Oldham 115 kV MOS to Kingsbury County 115 kV substation with a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$165,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024



**SPP-NTC-220828****Network Upgrade ID:** 170459**Network Upgrade Name:** Oldham - Kingsbury County 115 kV Ckt 1 New Line**Network Upgrade Description:** Build a 18-mile 115 kV Ckt 1 line from Oldham 115 kV MOS to Kingsbury County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.**Network Upgrade Owner:** EREC**Categorization:** Regional Reliability**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$7,152,000**Cost Allocation of the Network Upgrade:** Base Plan**Estimated Cost Source:** EREC**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 170467**Network Upgrade Name:** Kingsbury County 115 kV New Substation**Network Upgrade Description:** Install 115 kV new substation at Kingsbury County.**Network Upgrade Owner:** EREC**Categorization:** Regional Reliability**Network Upgrade Specification:** Install 115 kV new substation at Kingsbury County.**Network Upgrade Justification:** 2024 ITP**Estimated Cost for Network Upgrade (current day dollars):** \$9,100,000**Cost Allocation of the Network Upgrade:** Base Plan**Estimated Cost Source:** EREC**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 170468**Network Upgrade Name:** Lake Preston - Kingsbury County 115 kV Ckt 1 New Line**Network Upgrade Description:** Build a 5-mile 115 kV Ckt 1 line from Lake Preston 115 kV MOS to Kingsbury County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.**Network Upgrade Owner:** EREC**Categorization:** Regional Reliability**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

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**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$2,460,000  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170470  
**Network Upgrade Name:** Lake Preston 115 kV New Motor Operated Switch (MOS)  
**Network Upgrade Description:** Install new 115 kV three-way motor-operated switch and necessary terminal equipment at Lake Preston 115 kV MOS for the lines from Lake Preston 115 kV MOS to Kingsbury County 115 kV substation and from Lake Preston 115 kV MOS to DeSmet 115 kV MOS with a summer emergency rating of at least 193 MVA. All line terminal elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Owner:** EREC  
**Categorization:** Regional Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$165,000  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170474  
**Network Upgrade Name:** Lake Preston - DeSmet 115 kV Ckt 1 New Line  
**Network Upgrade Description:** Build a 16-mile 115 kV Ckt 1 line from Lake Preston 115 kV MOS to DeSmet 115 kV MOS and upgrade any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Regional Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$6,360,000  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170478

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**Network Upgrade Name:** DeSmet 115 kV New Motor Operated Switch (MOS)

**Network Upgrade Description:** Install new 115 kV three-way motor-operated switch and necessary terminal equipment at DeSmet 115 kV MOS for the lines from DeSmet 115 kV MOS to Lake Preston 115 kV and from DeSmet 115 kV MOS to Manchester 115 kV substation with a summer emergency rating of at least 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All line terminal elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$165,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170479

**Network Upgrade Name:** Manchester - DeSmet 115 kV Ckt 1 New Line

**Network Upgrade Description:** Build a 12.5-mile 115 kV Ckt 1 line from Manchester 115 kV substation to DeSmet 115 kV MOS and upgrade any necessary terminal equipment to achieve a summer emergency rating of 239 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$5,750,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170482

**Network Upgrade Name:** Manchester 115 kV New Substation

**Network Upgrade Description:** Install 115 kV new substation at Manchester

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** Install 115 kV new substation at Manchester

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$4,900,000

**Cost Allocation of the Network Upgrade:** Base Plan

**SPP-NTC-220828****Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 170483  
**Network Upgrade Name:** Carpenter 115 kV New Substation  
**Network Upgrade Description:** Install 115 kV new substation at Carpenter  
**Network Upgrade Owner:** EREC  
**Categorization:** Regional Reliability  
**Network Upgrade Specification:** Install 115 kV new substation at Carpenter  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$2,353,000  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 170484  
**Network Upgrade Name:** Manchester - Carpenter 115 kV Ckt 1 New Line  
**Network Upgrade Description:** Build a 31.8-mile 115 kV Ckt 1 line from Manchester 115 kV substation to Carpenter 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Regional Reliability  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$12,680,000  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** EREC  
**Date of Estimated Cost:** 7/18/2024**Network Upgrade ID:** 170487  
**Network Upgrade Name:** Arlington - Kingsbury County 115 kV Ckt 1 New Line  
**Network Upgrade Description:** Build a 25-mile 115 kV Ckt 1 line from Arlington 115 kV substation to Kingsbury County 115 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 193 MVA.  
**Network Upgrade Owner:** EREC  
**Categorization:** Regional Reliability

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**Network Upgrade Specification:** All elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$10,120,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170488

**Network Upgrade Name:** Arlington 115 kV Breakers

**Network Upgrade Description:** Install circuit breakers at the Arlington 115 kV substation and install any necessary terminal equipment at Arlington 115 kV substation to support the new line from Arlington 115 kV substation to Kingsbury County 115 kV substation to achieve a summer emergency rating of 193 MVA.

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All line terminal elements and conductor to meet or exceed 193/193/193/193 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$4,200,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170489

**Network Upgrade Name:** Kingsbury County 115 kV Capacitor Bank

**Network Upgrade Description:** Install 15 MVAR capacitor bank at Kingsbury County 115 kV substation

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** Capacitor Bank must be rated at 15 MVAR

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$900,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170490

**Network Upgrade Name:** Carpenter 230/115 kV Transformer Ckt 1 (115 kV)

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**Network Upgrade Description:** Install new 230/115 transformer at Carpenter 115 kV substation

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 107/134/107/134 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$4,317,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**Network Upgrade ID:** 170491

**Network Upgrade Name:** Carpenter 230/115 kV Transformer Ckt 1 (230 kV)

**Network Upgrade Description:** Install 230 kV terminal equipment to support 230/115 kV transformer at Carpenter 230 kV substation

**Network Upgrade Owner:** EREC

**Categorization:** Regional Reliability

**Network Upgrade Specification:** All elements and conductor to meet or exceed 150/150/150/150 (SN/SE/WN/WE) MVA rating.

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$3,030,000

**Cost Allocation of the Network Upgrade:** Base Plan

**Estimated Cost Source:** EREC

**Date of Estimated Cost:** 7/18/2024

**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. EREC 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.



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**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 EREC's part to complete the approved Network Upgrade(s). For project tracking, SPP requires EREC's to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, EREC 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".

Casey Cathey  
Vice President, Engineering  
Phone: (501) 614-3267 • Fax: (501) 482-2022 • [ccathey@spp.org](mailto:ccathey@spp.org)

cc: Lanny Nickell - SPP  
Natasha Henderson - SPP  
Tony Green - SPP

**SPP-NTC-220828**

Sunny Raheem - SPP  
Mark Hoffman - EREC  
SPPprojecttracking