

SPP-NTC-210544

**SPP
Notification to Construct**

November 18, 2019

Mr. Wayman Smith
American Electric Power
212 E. 6th St.
Tulsa, OK 74119

RE: Notification to Construct Approved Reliability Network Upgrades

Dear Mr. Smith,

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 American Electric Power ("AEP"), as the Designated Transmission Owner, to construct the Network Upgrade(s).

On October 29, 2019, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of the 2019 Integrated Transmission Planning ("ITP") Assessment.

New Network Upgrades

Project ID: 81500

Project Name: Sub - Riverside Station 138 kV

Need Date for Project: 6/1/2021

Estimated Cost for Project: \$16,288,000

Network Upgrade ID: 112360

Network Upgrade Name: Riverside Station 138 kV Breakers

Network Upgrade Description: Replace 21 breakers at Riverside Station 138 kV with 80 kA breakers

Network Upgrade Owner: AEP

MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby

TWG Representative: Matthew McGee

Categorization: Regional Reliability

Network Upgrade Specification: Breaker(s) must be rated at least 80 kA

Network Upgrade Justification: Project identified in 2019 ITP Assessment

Estimated Cost for Network Upgrade (current day dollars): \$16,288,000

Cost Allocation of the Network Upgrade: Base Plan

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Date of Estimated Cost: 5/8/2019**Project ID:** 81501
Project Name: Sub - Southwestern Station 138 kV
Need Date for Project: 6/1/2021
Estimated Cost for Project: \$4,421,345**Network Upgrade ID:** 112361
Network Upgrade Name: Southwestern Station 138 kV Breakers
Network Upgrade Description: Replace 8 breakers at Southwestern Station 138 kV with 63 kA breakers
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby
TWG Representative: Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: Breaker(s) must be rated at least 63 kA
Network Upgrade Justification: Project identified in 2019 ITP Assessment
Estimated Cost for Network Upgrade (current day dollars): \$4,421,345
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 5/8/2019**Project ID:** 81520
Project Name: Line - Tulsa SE - S Hudson 138 kV Ckt 1
Need Date for Project: 6/1/2021
Estimated Cost for Project: \$6,724,237**Network Upgrade ID:** 112389
Network Upgrade Name: Tulsa SE - S Hudson 138 kV Ckt 1 Rebuild
Network Upgrade Description: Rebuild 1.97 miles of 138 kV line from Tulsa SE to S Hudson and upgrade any necessary terminal equipment at Tulsa SE and/or S Hudson to increase the summer emergency rating to 286 MVA
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby
TWG Representative: Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 286 MVA, but are not limited to that amount.
Network Upgrade Justification: Project identified in 2019 ITP Assessment
Estimated Cost for Network Upgrade (current day dollars): \$6,724,237

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Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 4/15/2019

Project ID: 81523
Project Name: Line - Tulsa SE - 21st Street Tap 138 kV Ckt 1
Need Date for Project: 6/1/2021
Estimated Cost for Project: \$1,307,802

Network Upgrade ID: 112393
Network Upgrade Name: Tulsa SE - 21st Street Tap 138 kV Ckt 1
Network Upgrade Description: Reconductor 1.48 miles of 138 kV from Tulsa SE to 21st Street Tap and upgrade any necessary terminal equipment at Tulsa SE and/or 21st Street Tap to increase the summer emergency rating to 345 MVA
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby
TWG Representative: Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 345 MVA, but are not limited to that amount.
Network Upgrade Justification: Project identified in 2019 ITP Assessment
Estimated Cost for Network Upgrade (current day dollars): \$1,307,802
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 5/8/2019

Project ID: 81561
Project Name: Multi - Sooner - Wekiwa 345 kV and Sand Springs - Sheffield 138 kV
Need Date for Project: 1/1/2026
Estimated Cost for Project: \$85,948,123 (this project cost contains Network Upgrades not included in this NTC)

Network Upgrade ID: 112460
Network Upgrade Name: Sand Springs - Sheffield Steel 138 kV Terminal Upgrades
Network Upgrade Description: Upgrade any necessary terminal equipment at Sand Springs and/or Sheffield Steel to increase the summer rating to 278 MVA
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby
TWG Representative: Matthew McGee
Categorization: Economic
Network Upgrade Specification: All elements and conductor must have at least an

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emergency rating of 278 MVA, but are not limited to that amount.

Network Upgrade Justification: Project identified in 2019 ITP Assessment

Estimated Cost for Network Upgrade (current day dollars): \$733,520

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: AEP

Date of Estimated Cost: 5/8/2019

Network Upgrade ID: 112502

Network Upgrade Name: Sooner - Wekiwa 345 kV Terminal Upgrades (AEP)

Network Upgrade Description: Install terminal equipment at Wekiwa to support a 345 kV line from Sooner to Wekiwa rated at summer emergency of 1792 MVA

Network Upgrade Owner: AEP

MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby

TWG Representative: Matthew McGee

Categorization: Economic

Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 1792 MVA, but are not limited to that amount.

Network Upgrade Justification: Project identified in 2019 ITP Assessment

Estimated Cost for Network Upgrade (current day dollars): \$5,383,105

Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: AEP

Date of Estimated Cost: 5/8/2019

Project ID: 81571

Project Name: XFR - Pryor Junction 138/115

Need Date for Project: 6/1/2021

Estimated Cost for Project: \$9,155,167

Network Upgrade ID: 112488

Network Upgrade Name: Pryor Junction 138/115 kV Transformer

Network Upgrade Description: Replace the existing 115/69 kV transformer with a new 138/115 kV transformer and upgrade any necessary terminal equipment at Pryor Junction to increase the summer emergency rating to 167 MVA

Network Upgrade Owner: AEP

MOPC Representative(s): Brian Johnson, Chad Heitmeyer, Richard Ross, Jim Jacoby

TWG Representative: Matthew McGee

Categorization: Regional Reliability

Network Upgrade Specification: All elements and conductor must have at least an emergency rating of 167 MVA, but are not limited to that amount.

Network Upgrade Justification: Project identified in 2019 ITP Assessment

Estimated Cost for Network Upgrade (current day dollars): \$9,155,167

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Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 5/8/2019

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) within 90 days of the date of this NTC, in addition to providing a construction schedule and an updated $\pm 20\%$ 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 AEP's part to complete the approved Network Upgrade(s). For project tracking, SPP requires AEP to submit status updates of the Network Upgrade(s) quarterly in conjunction with the SPP Board of Directors meetings. However, AEP 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, and nothing in this NTC shall vary such terms and conditions.

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

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Sincerely,



Lanny Nickell

Sr. Vice President, Engineering

Phone: (501) 614-3232 • Fax: (501) 482-2022 • lnickell@spp.org

cc: Carl Monroe - SPP
Antoine Lucas - SPP
Jay Caspary - SPP
Bob Bradish - AEP
Paul Johnson - AEP
Richard Ross - AEP
Brian Johnson - AEP
Scott Rainbolt - AEP
Matthew McGee - AEP
Daniel Rogier - AEP
Chad Heitmeyer - AEP
Jim Jacoby - AEP