

**SPP-NTC-220804**

**SPP**  
**Notification to Construct**

December 13, 2024

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 Upgrades.

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:** 94815

**Project Name:** XFR - Catoosa 161/138 kV

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

**Estimated Cost for Project:** \$12,792,197

**Network Upgrade ID:** 170415

**Network Upgrade Name:** Catoosa 161/138 kV Transformer (AEP)

**Network Upgrade Description:**

Install any necessary terminal equipment to support connecting GRDA's third 161/138 kV transformer at Catoosa 138 kV substation with a summer emergency rating of 188 MVA

**Network Upgrade Owner:** AEP

**MOPC Representative(s):** Richard Ross

**TWG Representative(s):** Matthew McGee

**Categorization:** Economic

**Network Upgrade Specification:** All elements and conductor to meet or exceed 150/188/150/188 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

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**Estimated Cost for Network Upgrade (current day dollars):** \$4,765,714  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPP  
**Date of Estimated Cost:** 10/22/2024

**Project ID:** 94913

**Project Name:** Line - Cherokee Data Center East 138 kV - Tulsa North 138 kV Rebuild

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

**Estimated Cost for Project:** \$5,859,399

**Network Upgrade ID:** 170389

**Network Upgrade Name:** Cherokee Data Center East - Tulsa North 138 kV Ckt 1 Rebuild

**Network Upgrade Description:** Rebuild 4.6-mile Ckt 1 line from Tulsa North 138 kV substation to Cherokee Data Center East 138 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 300 MVA.

**Network Upgrade Owner:** AEP

**MOPC Representative(s):** Richard Ross

**TWG Representative(s):** Matthew McGee

**Categorization:** Economic

**Network Upgrade Specification:** All elements and conductor to meet or exceed 200/300/200/300 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$5,008,393

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

**Estimated Cost Source:** SPP

**Date of Estimated Cost:** 8/16/2024

**Network Upgrade ID:** 170390

**Network Upgrade Name:** Cherokee Data Center East 138 kV Ckt 1 Terminal Upgrade

**Network Upgrade Description:** Install any necessary terminal equipment at Cherokee Data Center East 138 kV substation to support the line from Cherokee Data Center East 138 kV substation to Tulsa North 138 kV substation with a summer emergency rating of 300 MVA.

**Network Upgrade Owner:** AEP

**MOPC Representative(s):** Richard Ross

**TWG Representative(s):** Matthew McGee

**Categorization:** Economic

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**Network Upgrade Specification:** All elements and conductor to meet or exceed 200/300/200/300 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$425,503

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

**Estimated Cost Source:** SPP

**Date of Estimated Cost:** 8/16/2024

**Network Upgrade ID:** 170405

**Network Upgrade Name:** Tulsa North 138 kV Ckt 1 Terminal Upgrade #3

**Network Upgrade Description:** Install any necessary terminal equipment at Tulsa North 138 kV substation to support the line from Tulsa North 138 kV substation to Cherokee Data Center East 138 kV substation with a summer emergency rating of 300 MVA.

**Network Upgrade Owner:** AEP

**MOPC Representative(s):** Richard Ross

**TWG Representative(s):** Matthew McGee

**Categorization:** Economic

**Network Upgrade Specification:** All elements and conductor to meet or exceed 200/300/200/300 (SN/SE/WN/WE) MVA rating

**Network Upgrade Justification:** 2024 ITP

**Estimated Cost for Network Upgrade (current day dollars):** \$425,503

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

**Estimated Cost Source:** SPP

**Date of Estimated Cost:** 8/16/2024

**Project ID:** 94916

**Project Name:** XFR - Tulsa North 345/138 kV

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

**Estimated Cost for Project:** \$13,022,086

**Network Upgrade ID:** 170384

**Network Upgrade Name:** Tulsa North 345/138 kV Transformer Ckt 2 (138 kV)

**Network Upgrade Description:** Install new 345/138 transformer at Tulsa North 138 kV substation

**Network Upgrade Owner:** AEP

**MOPC Representative(s):** Richard Ross

**TWG Representative(s):** Matthew McGee

**Categorization:** Economic

**Network Upgrade Specification:** All elements and conductor to meet or exceed 675/675/675/675 (SN/SE/WN/WE) MVA rating

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**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$11,484,217  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPP  
**Date of Estimated Cost:** 8/16/2024

**Network Upgrade ID:** 170385  
**Network Upgrade Name:** Tulsa North 345/138 kV Transformer Ckt 2 (345 kV)  
**Network Upgrade Description:** Install 345 kV terminal equipment to support 345/138 transformer at Tulsa North 345 kV substation with a summer emergency rating of 675 MVA.  
**Network Upgrade Owner:** AEP  
**MOPC Representative(s):** Richard Ross  
**TWG Representative(s):** Matthew McGee  
**Categorization:** Economic  
**Network Upgrade Specification:** All elements and conductor to meet or exceed 675/675/675/675 (SN/SE/WN/WE) MVA rating  
**Network Upgrade Justification:** 2024 ITP  
**Estimated Cost for Network Upgrade (current day dollars):** \$1,537,869  
**Cost Allocation of the Network Upgrade:** Base Plan  
**Estimated Cost Source:** SPP  
**Date of Estimated Cost:** 8/16/2024

**Commitment to Construct**

Please provide to SPP a written commitment to construct the Network Upgrade(s) by March 13, 2025. 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.

**Project Schedule and In Service Date**

In addition to a written commitment to construct, please provide a detailed project schedule, updated  $\pm 20\%$  NTC Project Estimate, and an Estimated In-Service Date in the Standardized Cost Estimate Reporting Template for the Network Upgrade(s).

**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

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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's 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 In-Service Date as soon as the inability becomes apparent, and no later than 45 days before the First Reported In-Service Date agreed to upon acceptance of the NTC.

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

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cc: Lanny Nickell - SPP  
Natasha Henderson - SPP  
Tony Green - SPP  
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Scott Rainbolt - AEP  
Brad Myers - AEP  
Kamran Ali - AEP  
Matthew McGee - AEP  
Crystal Watts - AEP  
Richard Ross - AEP  
Ryan Houk - AEP  
SPPprojecttracking