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
SPP-NTC-210544

Estimated Cost Source: AEP  
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
SPP-NTC-210544

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: Reconduct 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
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 ±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.
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