SPP-NTC-220737

SPP
Notification to Construct

December 15, 2023

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

RE: Notification to Construct Approved Reliability and Economic 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 31, 2023, the SPP Board of Directors approved the Network Upgrade(s) listed below to be constructed as part of 2023 ITP.

New Network Upgrades
Project ID: 92974
Project Name: Line - Flournoy - Oak Pan-Harr - Longwood 138 kV
Need Date for Project: 6/1/2028
Estimated Cost for Project: $19,480,000

Network Upgrade ID: 157263
Network Upgrade Name: Longwood - Oak Pan-Harr 138 kV Ckt 1 Rebuild
Network Upgrade Description: Rebuild 1.8 miles of 138 kV line from Longwood 138 kV to Oak Pan-Harr 138 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 324 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor to meet or exceed 239/324/239/324 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $4,070,000
Cost Allocation of the Network Upgrade: Base Plan

Estimated Cost Source: AEP
Date of Estimated Cost: 6/14/2023

Network Upgrade ID: 157264
Network Upgrade Name: Longwood 138 kV Terminal Upgrade
Network Upgrade Description: Upgrade any necessary terminal equipment at Longwood 138 kV substation on the Longwood to Oak Pan-Harr 138 kV line to achieve a summer emergency rating of 324 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor to meet or exceed 239/324/239/324 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $150,000
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 6/14/2023

Network Upgrade ID: 157266
Network Upgrade Name: Flournoy - Oak Pan-Harr 138 kV Ckt 1 Rebuild
Network Upgrade Description: Rebuild 10.4 miles of 138 kV line from Flournoy 138 kV substation to Oak Pan-Harr 138 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 287 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor to meet or exceed 239/287/239/287 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $15,260,000
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 6/14/2023

Project ID: 92976
Project Name: XFR - Turk 138/115 kV
Need Date for Project: 6/1/2024
Estimated Cost for Project: $5,250,000

Network Upgrade ID: 157268
Network Upgrade Name: Turk 138/115 kV Transformer Ckt 1 (138 kV)
Network Upgrade Description: Replace current 138/115 transformer Ckt 1 at Turk 138 kV substation to achieve a summer emergency rating of 250 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Regional Reliability
Network Upgrade Specification: All elements and conductor to meet or exceed 250/250/250/250 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $5,250,000
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 6/14/2023

Project ID: 93019
Project Name: Line - Pine & Peoria Tap - 46th Street Tap - Tulsa North 138 kV Rebuild
Need Date for Project: 1/1/2025
Estimated Cost for Project: $16,346,806

Network Upgrade ID: 157475
Network Upgrade Name: Pine & Peoria Tap - 46Th Street Tap 138 kV Ckt 1 Rebuild
Network Upgrade Description: Rebuild 0.5 miles of 138 kV Ckt 1 line from Pine & Peoria Tap 138 kV substation to 46Th Street Tap 138 kV substation and upgrade any necessary terminal equipment to achieve a summer emergency rating of 347 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Economic
Network Upgrade Specification: All line elements and conductor to meet or exceed 239/347/239/347 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $1,481,809
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 6/29/2023

Network Upgrade ID: 157517

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Network Upgrade Name: Tulsa North - 46Th Street Tap 138 kV Ckt 1 Rebuild
Network Upgrade Description: Rebuild 5.2 miles of 138 kV Ckt 1 line from Tulsa North 138 kV substation to 46th Street Tap138 kV substation to achieve a summer emergency rating of 278 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Economic
Network Upgrade Specification: All line elements and conductor to meet or exceed 216/278/216/278 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $14,714,997
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 6/29/2023

Network Upgrade ID: 157518
Network Upgrade Name: Tulsa North 138 kV Terminal Upgrade
Network Upgrade Description: Upgrade any necessary terminal equipment at Tulsa North 138 kV substation on the 46th Street Tap to Tulsa North 138 kV line to achieve a summer emergency rating of 278 MVA.
Network Upgrade Owner: AEP
MOPC Representative(s): Brian Johnson, Richard Ross, Jim Jacoby
TWG Representative(s): Matthew McGee
Categorization: Economic
Network Upgrade Specification: All station elements and conductor to meet or exceed 216/278/216/278 (SN/SE/WN/WE) MVA rating
Network Upgrade Justification: 2023 ITP
Estimated Cost for Network Upgrade (current day dollars): $150,000
Cost Allocation of the Network Upgrade: Base Plan
Estimated Cost Source: AEP
Date of Estimated Cost: 6/29/2023

Commitment to Construct

Please provide to SPP a written commitment to construct the Network Upgrade(s) by March 14, 2024, 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 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 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,

David Kelley
Vice President, Engineering
Phone: (501) 688-1671 • Fax: (501) 482-2022 • dkelley@spp.org

cc: Lanny Nickell - SPP
Casey Cathey - SPP
Natasha Henderson - SPP
Tony Green - SPP
David Ball - AEP
Scott Rainbolt - AEP
Daniel Rogier - AEP
Jeff Ellis - AEP
Kamran Ali - AEP
Matthew McGee - AEP