**STF-DEA-2-21**

Question:

Please refer to p. 168 of the “2024 GA ITS Ten-Year Plan,” within the “2025 IRP Volume 3 TRADE SECRET,” regarding the Union City - Yates 230kV Black Line Rebuild and respond to the following questions:

a. What measures will be taken to minimize disruptions to existing grid operations during the rebuild of the Union City - Yates 230kV Black Line, and how will the new bundled 200C 1351 ACSS Martin conductor enhance system performance?

b. What technical improvements will the new conductor provide in terms of thermal limits and voltage stability?

c. What contingency plans exist for temporary rerouting of power during construction?

d. How does this project fit into broader grid modernization efforts in the region?

Response:

1. The Company performs N-1 contingency analysis and prepares contingency plans for all Transmission projects that require Bulk Electric System outages under NERC standards. The Company’s contingency plans ensure operators can proactively address potential issues and maintain stable operations even during unexpected outages, ultimately improving system reliability and preventing cascading failures by identifying vulnerabilities in the Bulk Electric System before they cause disruptions. Outages are coordinated to reduce system exposure by selecting outages windows to minimize system risk and developing construction schedules to reduce outage duration. The Union City - Yates 230kV Black Line bundled 200C 1251ACSS conductor enhances system performance over the current conductor by improving thermal capacity, power transfer capability, and system reliability.
2. The bundled 200C 1351 ACSS Martin conductor increases the existing thermal capacity for the Union City – Yates 230kV Black line, from **REDACTED** (Summer B Rating) to **REDACTED** **REDACTED** (Summer B Rating).
3. Refer to Section A.6 of Technical Appendix Volume 3 of the 2025 IRP for planning process description. Refer to the Company’s response to subpart (a).
4. Union City - Yates 230kV Black Line Rebuild addresses thermal constraints as defined in the Steady State Transmission Planning Criteria of the NERC Reliability Standard (TPL-001-5) under the **REDACTED REDACTED** line contingency. Refer to Section III.A, Table 6 of the 2024 GA ITS Ten-Year Plan in Technical Appendix Volume 3 of the 2025 IRP.