**STF-DEA-2-14**

Question:

Please refer to p. 180 of the “2024 GA ITS Ten-Year Plan” within “2025 IRP Volume 3 TRADE SECRET,” regarding the Bonaire Primary - Eastman Primary 115kV Line Rebuild and respond to the following questions:

1. How will the proposed rebuild of the Bonaire Primary - Eastman Primary 115kV Line address identified NERC reliability concerns.
2. What impact will this project have on system congestion during peak demand conditions?
3. What are the primary contingency scenarios modeled for the reliability of the rebuilt transmission line?
4. How will the project support additional renewable energy penetration, particularly in solar-heavy regions?
5. What are the projected losses and efficiency improvements compared to the existing infrastructure?

Response:

1. GTC: Bonaire Primary - Eastman Primary 115kV Line Rebuild addresses thermal constraints as defined in the Steady State Transmission Planning Criteria of the NERC Reliability Standard (TPL-001-5) under P6-Multiple Contingency event. Refer to Section III.A, Table 6 (p 29) of the 2024 GA ITS Ten-Year Plan and Section B2, R3 (p 18) of the ITS Planning Procedure #9, in Technical Appendix Volume 3.
2. Please refer to response STF-DEA-2-14 (a).
3. Please refer to response STF-DEA-2-14 (a).
4. The Bonaire Primary - Eastman Primary 115kV Line Rebuild will increase the capacity of the line from **REDACTED** **(REDACTED-**Summer Rate B) to **REDACTED** **(REDACTED-**Summer Rate B) upon completion of the project. Increasing the capacity of the transmission line will allow for more power flow under normal and contingency conditions, and the project will permit additional renewable integration.
5. System losses were not evaluated in the development of this project.