**STF-DEA-2-37**

Question:

Please refer to p. 79 of the “2024 GA ITS Ten-Year Plan,” within the “2025 IRP Volume 3 TRADE SECRET,” regarding the Heard County - Tenaska 500kV New Line and respond to the following questions:

1. How will this project improve interstate transmission connectivity between Georgia and neighboring systems?
2. What additional grid protections are needed to prevent congestion and overloads?
3. What is the projected impact on wholesale power markets in the region?
4. Please provide details of the load in MW that will be catered after the line completion.

Response:

1. The Georgia Transmission Corporation (“GTC”): Heard County - Tenaska 500kV line addresses multiple thermal overloads resulting from Category P1 – Single Contingency events identified as part of the Georgia Integrated Transmission System (“ITS”) transmission planning processes in compliance with NERC TPL-001-5. Refer to Section III.A, Table 6 (p 29) of the 2024 GA ITS Ten-Year Plan and (p 1) of the ITS Planning Procedure #9, in Technical Appendix Volume 3. The new 500kV line supports Georgia Power generation unit retirements as noted in Appendix D of the 2024 Georgia ITS Ten Year Plan in Technical Appendix Volume 3 along with providing additional support for West to East flows between Alabama Power and Georgia Power.
2. Refer to the Company’s response to subpart (a).
3. This is a GTC sponsored project. GTC: Heard County - Tenaska 500kV line will function alongside the proposed transmission assets to facilitate firm delivery of generation to load. This supports the dispatch of the ITS to provide a cost-effective and reliable electric supply to all customers.
4. The new line rating will be **REDACTED** (Summer B), below 50% loading for the planning horizon.