**STF-DEA-2-2**

Question:

Please refer to the 2025 IRP Main Document, p.113, Table 11.3.

a. For any Strategic Projects not included in Appendix C of the “2024 GA ITS Ten-Year Plan,” provided in Technical Appendix Vol. 3 document titled “2025 IRP Volume 3 PUBLIC DISCLOSURE,” please provide Background and Problem Descriptions, Study Assumptions, Discussion of Alternatives, and Conclusions and Recommendations. This includes, but may not be limited to, the following projects.

b. Butler – Thomaston 230kV Line Conversion

c. Cavender Drive – Tributary 230kV Line

d. North Spa 230kV Area Project

e. Goshen Area 230kV Area Project

Response:

1. For the project details, refer to Section D1.IV, Analysis Results of the 2024 GA ITS Ten-Year Plan and Section H1, Identified Problems and Solutions in Technical Appendix Volume 3.
2. The conversion of the Butler – Thomaston 230kV line aims to address the evolving dynamics within the Georgia Integrated Transmission System (“ITS”), primarily driven by the changes in generation and forecasted load growth. This project involves rebuilding the radial Thomaston - Butler 115kV line to 230kV network operation. Additionally, supplemental projects include the conversion of the Wesley substation from 115kV to 230kV, upgrades and accommodations at Butler and Thomaston substations. The decision to undertake this project stems from the necessity to enhance available transmission capacity that will help with future Georgia Power generation requests for proposals (“RFP”) solicitations. This project provides a **REDACTED** reduction of loading on the Bonaire Primary-Butler 230kV line, provides a new network connection (South to North), and increases the available capacity on this line from **REDACTED** (Summer B rating) to **REDACTED** (Summer B rating).

Refer to Technical Appendix Volume 3 Section H1.A, Thermal Problems and Solutions Report (SHOTD) and Section H2 for load flow files.

1. Please refer to STF-DEA-2-2 Attachment A TRADE SECRET for the Metro West Working Group Study report.
2. The North Spa 230kV Strategic Project, in conjunction with the GTC: Tiger Creek – Rockville – North Spa 230kV project, aims to address the evolving dynamics within the Georgia ITS, primarily driven by the changes in generation and forecasted load growth. This project involves building a new 230kV switching station and looping in the East Social Circle - Oasis (White) 230kV line. Additionally, this project builds a new 230kV line to Cornish Mountain from North Spa and terminates the new 230kV line from Rockville 230kV station to the North Spa station. The decision to undertake this project stems from the necessity to enhance available transmission capacity and mitigate thermal limits resulting from 230 kV contingencies under NERC TPL-001-5. This project will reduce loading and increase available capacity on various circuits, thereby alleviating or reducing thermal constraints on critical circuits under contingency scenarios. In addition, it provides an additional 230kV corridor from the Central region into the Metro East area and minimizes outage impacts to the transmission system. This project reduces loading on the following circuits:

|  |  |  |
| --- | --- | --- |
| **Facility Name​** | **Facility Rating**  **(MVA)** | **Loading Reduction​** |
| Branch – Eatonton #2 230kV | **REDACTED** | **REDACTED** |
| Branch – Oasis 230kV​ | **REDACTED** | **REDACTED** |
| Branch – Glenwood Springs 230kV | **REDACTED** | **REDACTED** |
| Branch – Tiger Creek (White) 230kV | **REDACTED** | **REDACTED** |
| Branch – Tiger Creek (Black) 230kV | **REDACTED** | **REDACTED** |
| East Walton 500/230kV auto-transformer | **REDACTED** | **REDACTED** |
| Bostwick - East Walton 230kV | **REDACTED** | **REDACTED** |
| East Walton – Jack Creek 230kV | **REDACTED** | **REDACTED** |

Refer to Technical Appendix Volume 3 Section H1.A, Thermal Problems and Solutions Report (SHOTD) and Section H2 for load flow files.

1. Please refer to STF-DEA-2-2 Attachment B TRADE SECRET for the Goshen Area Working Group Study report.