**Georgia Power Company’s**

**Bi-Annual Hydro Modernization Update**

**For the Period Ending June 30, 2025**

This Hydro Modernization Update (“Update”) is provided in accordance with the Order Adopting Stipulation as Amended (the “Order”) issued by the Georgia Public Service Commission (the “Commission”) in the matter of Georgia Power Company’s 2019 Integrated Resource Plan (“IRP”) under Docket No. 42310. As such, it provides information to allow the Commission to monitor Georgia Power Company’s (“Georgia Power” or the “Company”) modernization efforts at Plant Terrora, Plant Tugalo, Plant Bartletts Ferry, Plant Nacoochee, and Plant Oliver.

This report also includes updates on the modernization projects at Plants Burton and Sinclair,   
in accordance with the Order for Georgia Power’s 2022 IRP under Docket No. 44160.

**Summary of Work Performed by Site**

**Plant Tugalo**

Plant Tugalo Units 1-4 are part of the North Georgia hydro group. Plant Tugalo Units 1-2 began commercial operation in 1923. Plant Tugalo Units 3-4 began commercial operation in 1924.

**Summary of Scope of Work:** The scope of work for Plant Tugalo Units 1-4 includes generator replacements, turbine replacements, and replacement of the balance of plant (“BOP”) systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system.

**Project Status**: Work scope complete for all units. Unit 1 began generating on October 10, 2023. Unit 2 began generating on December 7, 2023. Unit 3 began generating on October 8, 2024. Unit 4 began generating on April 17, 2025, and all spillway gates have been commissioned. All punch list items planned to be complete in the 3rd quarter of 2025.

**Plant Bartletts Ferry 1-4**

Plant Bartletts Ferry Units 1-4 are part of the Chattahoochee hydro group. These units began commercial operation at varying times as shown below:

* Bartletts Ferry Units 1-2 in 1926
* Bartletts Ferry Unit 3 in 1928
* Bartletts Ferry Unit 4 in 1951

**Summary of Scope of Work:** The scope of work is limited to Plant Bartletts Ferry Units 1-4. The work on these units includes generator rewinds, turbine replacements, and replacement of the BOP systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system. Plant Bartletts Ferry Units 5-6 are not included in the scope of work at this time.

**Project Status:** Unit 1 began generating on July 14, 2025. Demolition of Unit 3 turbine and BOP is ongoing, and turbine fabrication has begun. Unit 2 turbine fabrication is in progress. Unit 4 BOP and turbine demolition is ongoing. Unit 1, 3, and 4 headworks have been completed and commissioned. Unit 2 headworks is currently in progress.

**Plant Nacoochee**

Plant Nacoochee Units 1-2 are part of the North Georgia hydro group. These units began commercial operation in 1926.

**Summary of Scope of Work:** The scope of work expected for Plant Nacoochee Units 1-2 includes generator replacements, turbine replacement on both units, and replacement of the BOP systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system.

**Project Status**: The generator, turbine, and BOP procurement packages have been awarded. Engineering design is complete. Unit 1 demolition is complete. Unit 1 turbine has been delivered to the site, and installation is in progress. Unit 1 generator is scheduled for delivery in the 3rd quarter of 2025. Manufacturing of Unit 2 generator and turbine is ongoing.

**Plant Oliver**

Plant Oliver Units 1-4 are part of the Chattahoochee hydro group. These units began commercial operations in 1959.

**Summary of Scope of Work:** The scope of work expected for Plant Oliver Units 1-4 includes turbine replacements and replacement of the BOP systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system. Additionally, generator replacements will be performed on Units 3 and 4. Generator rewinds were previously completed for Units 1 and 2 during their maintenance cycles in 2015 and 2016, respectively.

**Project Status:** The turbine, generator, and BOP packages have been awarded. Engineering design is expected to be complete in the 3rd quarter of 2025. Unit 4 turbine and generator demolition is complete. Unit 4 demolition of BOP is in progress. Unit 1 demolition of turbine, generator, and BOP is complete. Unit 1 turbine manufacturing is ongoing.

**Plant Burton**

Plant Burton Units 1-2 are part of the North Georgia hydro group. These units began commercial operation in 1927. 

**Summary of Scope of Work:** The scope of work expected for Plant Burton Units 1-2 includes generator rewinds/replacement, turbine replacements, and replacement of the BOP systems, such as lubricating oil, service water systems, 480V switchgear, the plant control system, and spillway gates.

**Project Status:** Turbine and generator packages have been awarded. Detailed design will be completed in the 3rd quarter of 2025**.** The demolition of Unit 2 turbine and generator is completed. Manufacturing of Unit 2 turbine and generator is ongoing. Unit 1 demolition will start in the 3rd quarter of 2025.

**Plant Sinclair**

Plant Sinclair Units 1-2 are part of the Central Georgia hydro group. These units began commercial operation in 1953.

**Summary of Scope of Work:** The scope of work expected for Plant Sinclair Units 1-2 includes generator rewinds/replacement, turbine replacements, and replacement of the BOP systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system.

**Project Status:** Engineering and procurement activities are underway. The turbine packages have been awarded. Site preparation planning for the project is complete.

**Summary of Sites with Modernization Complete**

**Plant Terrora**

Plant Terrora Units 1-2 are part of the North Georgia hydro group. These units began commercial operation in 1925.

**Summary of Scope of Work:** The scope of work for Plant Terrora Units 1-2 included generator rewinds, turbine replacements, and the replacement of the Balance of Plant (BOP) systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system.

**Project Status:** Modernization work at Plant Terrora is complete. Unit 1 was returned to normal operation on November 19, 2021. Unit 2 was returned to normal operation on December 30, 2020.