

PUBLIC DISCLOSURE

January 19, 2024

Ms. Sallie Tanner
Executive Secretary
Georgia Public Service Commission
244 Washington Street, SW
Atlanta, GA 30334-5701

**RE: Georgia Power Company's 2023 Integrated Resource Plan Update;
Docket No. 55378**

Dear Ms. Tanner:

In accordance with O.C.G.A. § 46-3A-1, et seq., and Georgia Public Service Commission (the "Commission") Rules 515-3-4-.06 through 515-3-4-.10, as applicable, Georgia Power Company ("Georgia Power" or "Company") filed its 2023 Integrated Resource Plan ("IRP") Update on October 27, 2023. Included in the Technical Appendix to the 2023 IRP Update was a summary of the Company's Transmission Screening Analyses supporting the Company's request in this case. Georgia Power now files its Transmission Supplemental Filing, which provides additional details and confirms the results of the prior screening analyses.

This filing is covered under the trade secret rules of the Commission as explained in the enclosed document regarding the basis for the assertion. Therefore, in addition to the trade secret document and per the Commission Staff's instructions, 16 copies and an electronic version of the redacted Application is enclosed for public disclosure.

Please contact Cheryl Johnson at 404-506-6837 if you have any questions regarding this filing.

Sincerely,

/s/ Kelley M. Balkcom
Kelley M. Balkcom
Director, Regulatory Affairs

Encl.

BEFORE THE GEORGIA PUBLIC SERVICE COMMISSION

**GEORGIA POWER COMPANY
DOCKET NO. 55378**

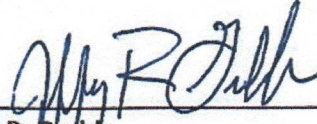
**AFFIDAVIT AND BASIS FOR THE ASSERTION THAT PORTIONS OF THE
INFORMATION SUBMITTED ARE PROTECTED TRADE SECRETS**

As part of the Technical Appendix to Georgia Power Company's ("Georgia Power" or the "Company") 2023 Integrated Resource Plan Update ("2023 IRP Update"), filed in Docket No. 55378 on October 27, 2023, Georgia Power submitted to the Georgia Public Service Commission (the "Commission") the results of its Transmission Screening Analyses relating to the transmission upgrades and investments required to support the resource request in the 2023 IRP Update. Georgia Power now submits the Transmission Supplemental Filing, which contains confidential details regarding current and future transmission projects (the "Information") that is a trade secret of Georgia Power and Southern Company and their affiliates.

The Information derives economic value from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use. Specifically, the Information contains competitively sensitive cost information related to the prices Georgia Power has estimated for transmission equipment and specific details related to the Company's transmission infrastructure. Public dissemination of the Information would allow Georgia Power's competitors and suppliers to have access to the costs paid by the Company and insight into the Company's transmission planning process. Access to the Information would also allow competitors to gain specific insight into the Company's technical analysis regarding planned projects. Competitors would obtain an unfair advantage because they are not required to reveal similar information and can structure the pricing for competing products based on the Information. In the event the Information was released, it is quite likely that suppliers would use the Information to set the floor in establishing their own prices, thus artificially and inefficiently setting a market price that may not be representative of the best cost that the market could offer. Competitors would also unfairly benefit in having access and insight into the Company's planning processes and methodologies. This competitive advantage for the Company's suppliers and competitors would mean that Georgia Power will potentially pay higher prices to suppliers, ultimately harming Georgia Power. Finally, the Information includes details concerning Georgia Power's transmission infrastructure that may be used to pin-point vulnerabilities in the transmission system. Such portions of the Information contain Critical Energy Infrastructure Information ("CEII"), the distribution of which is subject to regulation under the Code of Federal Regulations Section 388.113.

Additionally, the Information is subject to substantial procedures to maintain its secrecy. Only select Georgia Power and Southern Company affiliate personnel are granted access to the Information. Those personnel receive access on a "need to know" basis only. Any parties outside the Company who would be granted access to the Information would be required to sign confidentiality agreements.

Jeffrey R. Grubb, first being duly sworn, deposes and states that he has reviewed the Transmission Supplemental Filing to Georgia Power's 2023 IRP Update and that to the best of his knowledge the specific information designated as trade secret constitute trade secrets in accordance with O.C.G.A. § 10-1-761 (2021).



Jeffrey R. Grubb
Director, Resource Policy & Planning
Georgia Power Company

Subscribed and sworn to before me this 19th day of January, 2024.



Notary Public

My Commission expires:



Georgia Power Company's 2023 Integrated Resource Plan Update
Transmission Supplemental Filing
January 19, 2024
Docket No. 55378

I. Executive Summary

The Transmission Supplemental Filing supports the Company's request for approval of the transmission improvements necessary to accommodate the resources proposed in the 2023 Integrated Resource Plan ("IRP") Update, filed on October 27, 2023. This filing validates the generation portfolio proposed in the 2023 IRP Update, as shown in Table 1 below, along with assessing the generation portfolio with higher load levels to match the 2023 IRP Update Load Forecast.

Table 1: Generation Portfolio

Resource	Description
Mississippi Power PPA	750 MW through 2028
Santa Rosa PPA	215 MW through 2028
Yates Combustion Turbines ("CTs")	1,350 MW <ul style="list-style-type: none"> Two Units 12/1/2026 (900 MW) One Unit 4/1/2027 (450 MW)
REDACTED BESS & Solar	415 MW

The results of the supplemental filing analysis confirm the plan proposed in the 2023 IRP Update filed on October 27, 2023. The Power Purchase Agreements ("PPAs") with Mississippi Power and the Santa Rosa Energy Center can be accommodated without any transmission projects. The Yates CTs will be designated at 1,350 MW and will remain limited to 600 MW of firm output until the required transmission improvements, totaling \$59,870,000, are in service by the summer of 2028. Additionally, the **REDACTED** BESS & Solar facility will remain limited to 200 MW of firm output until summer 2029, when all prior planned transmission projects are in service.

II. Overall Analysis

As noted in the Executive Summary, the Transmission Supplemental Filing evaluated the portfolio of generation resources shown in Table 1 and confirmed the recommendations filed in the 2023 IRP Update filing made on October 27, 2023. The PPAs with Mississippi Power and the Santa Rosa Energy Center can be accommodated without any transmission projects. The **REDACTED** BESS & Solar facility will remain limited to 200 MW of firm output until the summer of 2029 when all prior planned transmission projects are in service.

The Transmission Supplemental Analysis noted a \$19,334,000 reduction in the transmission improvement costs that would be attributable to the Yates CTs, resulting in a decrease from \$79,204,000 to \$59,870,000. Table 2 below provides the list of transmission projects attributable to the Yates CTs.

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Transmission Supplemental Filing
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Table 2: Yates Attributable Transmission Projects

Project	Planning Grade Estimate	Lead – Time (months)	Need Date	2023 TYP Need Date
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Total =	\$59,870,000			

The Yates CTs will be designated at 1,350MW and will remain limited to 600 MW of firm output until the required transmission improvements shown in Table 2 are in service by the summer of 2028.

III. Study Assumptions

- Load Flow Cases: Series 2023, Version 2 base cases
- Study years: 2024 – 2033
- Case Seasons: Summer Peak (S), Off-Peak (O), Daylight Shoulder (D)
- Load Levels:
 - Base Load Level – includes version 2 committed customer choice loads (REDACTED REDACTED)
 - 2023 IRP Update Load Forecast – includes committed and potential customer choice loads (REDACTED REDACTED)
- Unit Extensions (through planning horizon):
 - Bowen Units 1 – 4
 - Scherer Unit 3
 - Gaston Units 1 – 4

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CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

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- Unit Off/Area Max Scenarios:

[illegible]

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IV. Trade Secret Files

The table below identifies and describes the Trade Secret files developed in support of the Transmission Supplemental Filing. These files are redacted in their entirety for the Public Disclosure version of the Transmission Supplemental Filing.

Main Folder	Subfolder	Description
Transmission Load Flow Cases	Base Load Level	2023 version 2 load flow base cases with generation portfolio, prior queued items, and base committed loads.
	2023 IRP Update Load Forecast Level	2023 version 2 load flow base cases with generation portfolio, prior queued items, and additional load modifications.
Case Modification Files	Prior Queued Table	Contains all prior queued items as of 10/10/2023 added to version 2 load flow base cases.
	Load and Project Idevs	Contains all scripts used to modify 2023 version 2 load flow base cases.
	Sub, Mon, Con files	Contains all files used in Unit Off and no unit off scenarios.
Load Flow Results Table	Overall Results Table	Contains worst loading results comparison to 2023 Ten Year Plan v2 cases, base load level cases, and 2023 IRP Update Load Forecast level cases.
	Yates at 600MW Results Table	Contains reduced loading results in area with Yates at 600MW until 2028.
2023 Ten Year Plan Comparison	---	Final 2023 GA ITS Ten Year Plan spreadsheet that notes any new and/or advanced projects due to higher loads.

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CERTIFICATE OF SERVICE

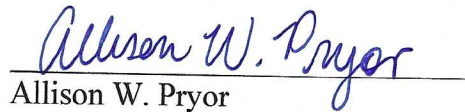
I hereby certify that I have this day served a copy of the within and foregoing GEORGIA POWER COMPANY'S TRANSMISSION SUPPLEMENTAL FILING IN DOCKET NO. 55378 upon all parties listed below via electronic service or by hand delivery and addressed as follows:

Sallie Tanner Executive Secretary Georgia Public Service Commission 244 Washington Street, SW Atlanta, GA 30334 stanner@psc.ga.gov	Preston Thomas Ginny Davis Georgia Public Service Commission 244 Washington Street, SW Atlanta, GA 30334 pthomas@psc.ga.gov gdavis@psc.ga.gov mailto:jeffreys@psc.state.ga.us
Charles B. Jones, III Lloyd Avram Georgia Association of Manufacturers The Hurt Building 50 Hurt Plaza, Suite 1620 Atlanta, Georgia 30303 (404) 688-0555 cjones@gamfg.org lavram@gamfg.org	Jeffry C. Pollock J. Pollock Incorporated 14323 South Outer 40 Road, Suite 206N Town and Country, Missouri 63017-5734 (314) 878-5814 (314) 878-7339 (fax) jcp@jpollockinc.com
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Kimberly ("Kasey") A. Sturm Weissman PC One Alliance Center, Fourth Floor 3500 Lenox Road Atlanta, Georgia 30326 kaseys@weissman.law	Peter J. Andrews Metropolitan Atlanta Rapid Transit Authority 2424 Piedmont Road, NE Atlanta, GA 30324 pandrews@itsmarta.com

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This 19th day of January 2024.


Allison W. Pryor

Attorney for Georgia Power Company

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