Georgia Power

Bin 10230,
241 Ralph McGill Boulevard, NE
Atlanta, GA 30308-3374

PUBLIC DISCLOSURE

February 15, 2024

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

RE: Georgia Power Company's Bi-Annual Hydro Modernization Report; Docket No. 42310 & 44160

Dear Ms. Tanner:

In accordance with the Order Adopting Stipulation as Amended issued by the Georgia Public Service Commission (the "Commission") in the above styled docket, Georgia Power Company hereby files an original and fifteen (15) copies of its Bi-Annual Hydro Modernization Report for the period ending December 31, 2023.

This letter and the accompanying documents are submitted consistent with the Alternative Electronic Filing Procedures established by the Commission on March 17, 2020.

Please contact Ty Story at 404-506-2921 if you have any questions regarding this filing.

Sincerely,

/s/ Kelley Balkcom

Kelley Balkcom
Director, Regulatory Affairs
Georgia Power Company
mmcclosk@southernco.com

BEFORE THE GEORGIA PUBLIC SERVICE COMMISSION

GEORGIA POWER COMPANY
DOCKET NO. 42310 & 44160

BASIS FOR THE ASSERTION THAT THE INFORMATION SUBMITTED IS A TRADE SECRET

In accordance with the Order Adopting Stipulation as Amended issued by the Georgia Public Service Commission ("Commission") in Docket No. 42310 and 44160, Georgia Power Company ("Georgia Power" or the "Company") is providing to the Commission a Bi-Annual Hydro Modernization Report for the period ending December 31, 2023. The report contains proprietary cost data (the "Information") which constitutes trade secret information of Georgia Power, the Southern Company, and its affiliates, and is therefore protected from public disclosure under Commission Rule 515-3-1-.11.

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 confidential budgetary and schedule information related to projects at specific hydro generation facilities. Public dissemination of the Information would allow Georgia Power's potential suppliers and contractors access to such estimated costs and timelines, thereby bestowing insight into the Company's budgeted cost and timing of such expenditures. Such access would grant an unfair advantage to contractors and suppliers of the Company, who could use such information to artificially set bid and proposal prices during contract negotiations. This could lead to the Company having to pay a price higher than that which it would have paid on a level playing field.

The Information is subject to extensive efforts to maintain its confidentiality. Only select Georgia Power and Southern Company personnel and their legal counsel are granted access to the Information. Those personnel receive access only on a "need to know" basis. If a party outside of Georgia Power and Southern Company are granted access to the Information, the party is required to sign a confidentiality agreement with respect to the Information.

Signature Appears on the Following Page

Jeffrey R. Grubb, first being duly sworn, deposes and states that he has reviewed the attached document and that the information included in such document is accurate to the best of his knowledge and that the specific information designated as trade secret constitute trade secrets pursuant to Article 27, Chapter 1, Title 10 of the Georgia Code.

Jeffrey R. Grubb
Resource Policy and Planning Director
Georgia Power Company

Subscribed and sworn to before me this 13 day of February 2024.

Notary Public

My Commission expires:

DANA L MCLEAN
NOTARY
EXPIRES
GEORGIA
APRIL 26, 2026
PUBLIC
COWETA COUNTY

Georgia Power Company's
Bi-Annual Hydro Modernization Update
For the Period Ending December 31, 2023

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 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.

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 BOP systems, such as lubricating oil, service water systems, 480V switchgear, and the plant control system.

Project Status: Units 1 and 2 work is largely complete with only a few punch list items remaining. Unit 1 began generating on 10/10/23, and Unit 2 began generating on 12/7/23. The project is currently proceeding ahead of the previous schedule, with the online dates for Units 1 and 2 advancing from December 2023 and August 2024, respectively. When compared to the overall project cost estimate at the time of the last report, this translates to projected cost savings of approximately $3 million. Unit 3 BOP construction is underway; the turbine and generator are expected onsite in June 2024. Unit 4 major components are expected onsite by the end of 2024. The first set of 3 spillway gates will be commissioned in first quarter 2024.

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: Detailed design work completed. New control room construction completed. The new turbines are being fabricated. Unit 1 headworks refurbishment, including new trash racks, new head gates, and guide repair, is underway. Trash gate replacement is underway. Georgia Power is currently awaiting FERC approval to proceed with installation of the new equipment, as applicable.

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 procurement package has been awarded. Remaining engineering and procurement activities are underway. Site preparation work has been completed, and construction work on the units is expected to begin in late 2024.

Plant Oliver



Plant Oliver Units 1-4 are part of the Chattahoochee hydro group. These units began commercial operation 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: Detailed design work has commenced. The Units 1-3 turbine procurement has been awarded. The Unit 4 turbine procurement has been awarded. The generator procurement package for Units 3 and 4 is in development. The switchgear and GSU transformer procurement has been awarded. The engineering for site preparation, construction laydown, and trailer areas has begun.

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: A scoping kickoff meeting was completed. The procurement of new turbines and generators for Units 1 and 2 have been awarded. Site preparation planning for the project has commenced.

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: A scoping kickoff meeting was completed. Work on the turbine and generator specifications is underway. Site preparation planning for the project has commenced.

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report thru December 31, 2023
Total Project
($1,000s)

		2019 IRP										2022 IRP					
Year	Period Ending	Terrora Actuals	Terrora Project Forecast*	Tugalo Actuals	Tugalo Project Forecast*	Bartletts Ferry Actuals	Bartletts Ferry Project Forecast*	Nacoochee Actuals	Nacoochee Project Forecast*	Oliver Actuals	Oliver Project Forecast*	Sinclair Actuals	Sinclair Project Forecast*	Burton Actuals	Burton Project Forecast*	Total Actuals	Total Project Forecast*
2019	30-Jun	$ 1,042	$ 260	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ 1,042	$ 260
2019	31-Dec	$ 3,430	$ 1,848	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -		$ 3,430	$ 1,848
2020	30-Jun	$ 9,855	$ 10,687	$ 629	$ 624	$ 683	$ 683	$ 34	$ 34	$ 434	$ 434	$ -		$ -		$ 11,635	$ 12,462
2020	31-Dec	$ 15,498	$ 18,624	$ 5,508	$ 5,443	$ 1,734	$ 1,734	$ 6	$ 6	$ 3	$ 3	$ -		$ -		$ 22,749	$ 25,811
2021	30-Jun	$ 8,060	$ 8,181	$ 2,188	$ 2,187	$ 3,405	$ 3,405	$ 345	$ 345	$ 480	$ 480	$ -		$ -		$ 14,479	$ 14,598
2021	31-Dec	$ 8,449	$ 7,694	$ 18,030	$ 17,473	$ 11,287	$ 11,315	$ 1,352	$ 1,352	$ 521	$ 521	$ -		$ -		$ 39,640	$ 38,355
2022	30-Jun	$ 863	$ 750	$ 6,806	$ 13,467	$ 6,375	$ 4,672	$ 677	$ 677	$ 241	$ 241	$ -		$ -		$ 14,962	$ 19,807
2022	31-Dec	$ (166)	$ -	$ 19,111	$ 19,762	$ 13,844	$ 14,461	$ 2,923	$ 2,923	$ 4,954	$ 4,954	$ 683		$ 1,300		$ 42,649	$ 42,100
2023	30-Jun			$ 11,342	$ 11,033	$ 17,429	$ 18,096	$ 2,543	$ 2,293	$ 1,980	$ 1,980	$ 173		$ 152		$ 33,618	$ 33,401
2023	31-Dec			$ 22,510	$ 7,858	$ 20,762	$ 14,532	$ 7,300	$ 10,067	$ 14,253	$ 14,253	$ 131		$ 3,274		$ 68,230	$ 46,710
2024	30-Jun			$ -	$ 11,713	$ -	$ 12,224	$ -	$ 14,051	$ -	$ 11,799	$ -		$ -		$ -	$ 49,786
2024	31-Dec			$ -	$ 7,965	$ -	$ 13,242	$ -	$ 12,806	$ -	$ 19,768	$ -		$ -		$ -	$ 53,781
2025	30-Jun			$ -	$ 10,098	$ -	$ 11,815	$ -	$ 6,515	$ -	$ 25,355	$ -		$ -		$ -	$ 53,783
2025	31-Dec			$ -	$ 7,670	$ -	$ 12,996	$ -	$ 465	$ -	$ 34,224	$ -		$ -		$ -	$ 55,355
2026	30-Jun			$ -	$ 3	$ -	$ 13,695			$ -	$ 17,567	$ -		$ -		$ -	$ 31,266
2026	31-Dec					$ -	$ 11,205			$ -	$ 17,231	$ -		$ -		$ -	$ 28,436
2027	30-Jun									$ -	$ 4,233			$ -		$ -	$ 4,233
2027	31-Dec									$ -	$ -			$ -		$ -	$ -
TOTAL		$ 47,031	$ 48,045	$ 86,124	$ 115,295	$ 75,519	$ 144,075	$ 15,181	$ 51,534	$ 22,865	$ 153,042	$ 987	$ -	$ 4,726	$ -	$ 246,720	$ 511,992

Sums and percentages may not add due to rounding.

Notes on Variances	
A	
B	
C	

*Added once Project Forecast estimates are updated and approved. Currently includes Plant Terrora Project Forecast that was developed 1Q 2021, Plant Tugalo 3Q 2021, Plant Bartletts Ferry 1-4 4Q 2021, Plant Nacoochee 2Q 2023, Plant Oliver Q3 2023.
Measured against Total IRP Budgets from 2019 & 2022 = $592,378. 2019 IRP Budget - $446,618; 2022 IRP Budget - $145,760 (Burton & Sinclair).

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Plant Terrora

Actuals ($1,000s)											
Year	**Period Ending**	**Unit 1**			**Unit 2**			**Actuals**	**Project Forecast*** (Developed 2/26/21)	**% Variance (against Project Forecast)**	**Notes**
		Turbine	**Generator**	**BOP**	**Turbine**	**Generator**	**BOP**				
2019	30-Jun	$ -	$ -	$ -	$ 594	$ 31	$ 417	**$ 1,042**	**$ 260**	**300%**	
2019	31-Dec	$ -	$ -	$ -	$ 1,678	$ 303	$ 1,449	**$ 3,430**	**$ 1,848**	**86%**	
2020	30-Jun	$ 1,778	$ -	$ 12	$ 3,949	$ 1,582	$ 2,534	**$ 9,855**	**$ 10,687**	**-8%**	
2020	31-Dec	$ 972	$ 1,551	$ 802	$ 4,512	$ 2,648	$ 5,012	**$ 15,498**	**$ 18,624**	**-17%**	
2021	30-Jun	$ 3,222	$ 1,277	$ 2,666	$ 498	$ 3	$ 395	**$ 8,060**	**$ 8,181**	**-1%**	
2021	31-Dec	$ 4,970	$ 921	$ 2,070	$ 129	$ -	$ 360	**$ 8,449**	**$ 7,694**	**10%**	
2022	30-Jun	$ 564	$ 28	$ 92	$ 192	$ -	$ (12)	**$ 863**	**$ 750**	**15%**	
2022	31-Dec	$ (151)	$ (19)	$ 3	$ 1	$ -	$ -	**$ (166)**	**$ - **	**N/A**	**B**
TOTAL		**$ 11,355**	**$ 3,757**	**$ 5,646**	**$ 11,552**	**$ 4,567**	**$ 10,155**	**$ 47,031**	**$ 48,045**	**-2%**	**A**

Sums and percentages may not add due to rounding.

Notes on Variances	
A	Variance based on total actuals in this report versus total project forecast
B	Accounting system adjustments during period ending December 31, 2022.
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast developed Q1 2021.
2019 IRP Budget - $58,160
Unit 1 returned to normal operation on November 19, 2021. Unit 2 returned to normal operation on December 30, 2020.
This report reflects actuals for the two semiannual periods following the return to normal operation of the last unit in the project (i.e., Unit 1) to reflect applicable invoiced costs but does not include any ordinary accounting adjustments made to close out the project, as applicable, after December 31, 2022.

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Plant Tugalo

Actuals ($1,000s)																		
Year	Period Ending	Unit 1			Unit 2			Unit 3			Unit 4			Actuals	Project Forecast*	% Variance (against Project Forecast)	Notes
		Turbine	Generator	BOP	Turbine	Generator	BOP	Turbine	Generator	BOP	Turbine	Generator	BOP				
2020	30-Jun	$ 624	$ -	$ 5	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 629**	**$ 624**	**1%**	
2020	31-Dec	$ 1,871	$ 54	$ 91	$ 1,165	$ -	$ -	$ 1,165	$ -	$ -	$ 1,161	$ -	$ -	**$ 5,508**	**$ 5,443**	**1%**	
2021	30-Jun	$ 1,109	$ 165	$ 551	$ 132	$ -	$ 3	$ 111	$ -	$ 3	$ 109	$ -	$ 3	**$ 2,188**	**$ 2,187**	**0%**	
2021	31-Dec	$ 4,497	$ 1,727	$ 7,002	$ 1,231	$ -	$ 118	$ 1,270	$ -	$ 731	$ 1,330	$ -	$ 122	**$ 18,030**	**$ 17,473**	**3%**	
2022	30-Jun	$ 3,263	$ 160	$ 3,052	$ 121	$ -	$ 27	$ 115	$ -	$ (11)	$ 118	$ -	$ (41)	**$ 6,806**	**$ 13,467**	**-49%**	
2022	31-Dec	$ 3,126	$ 2,789	$ 6,589	$ 1,309	$ 1,702	$ 96	$ 1,040	$ 156	$ 2,124	$ 156	$ 9	$ 16	**$ 19,111**	**$ 19,762**	**-3%**	
2023	30-Jun	$ 3,354	$ 721	$ 3,446	$ 874	$ 134	$ 56	$ 446	$ 1,628	$ 352	$ 223	$ 61	$ 49	**$ 11,342**	**$ 11,033**	**3%**	
2023	31-Dec	$ 3,532	$ 898	$ 6,957	$ 1,177	$ 3,796	$ 1,234	$ 930	$ 182	$ 756	$ 1,555	$ 1,185	$ 307	**$ 22,510**	**$ 7,858**	**186%**	**B**
2024	30-Jun													**$ -**	**$ 11,713**		
2024	31-Dec													**$ -**	**$ 7,965**		
2025	30-Jun													**$ -**	**$ 10,098**		
2025	31-Dec													**$ -**	**$ 7,670**		
2026	30-Jun													**$ -**	**$ 3**		
2026	31-Dec																
2027	30-Jun																
2027	31-Dec																
TOTAL		**$ 21,375**	**$ 6,513**	**$ 27,695**	**$ 6,009**	**$ 5,632**	**$ 1,535**	**$ 5,077**	**$ 1,966**	**$ 3,956**	**$ 4,654**	**$ 1,255**	**$ 457**	**$ 86,124**	**$ 115,295**	**1%**	**A**
													Current Estimate at Completion		**$ 116,459**		

Sums and percentages may not add due to rounding.

Notes on Variances	
A	Increase from IRP submittal to current forecast driven by turbine pricing, generator replacement, GSU pricing, and trash racks scope.
B	Project is proceeding ahead of the previous schedule, with the actual online dates advancing for Unit 1 to October 2023 from projected December 2023 and for Unit 2 to December 2023 from projected August 2024. Therefore, more costs occurred during the period ending December 31, 2023, than the project forecast due to project proceeding ahead of schedule, which translates to a decrease in the Current Estimate at Completion of around $3 million from the June 2023 report to the December 2023 report.
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast developed Q3 2021.
2019 IRP Budget - $109,736

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Bartletts Ferry

Actuals ($1,000s)																			
Year	Period Ending	Unit 1			Unit 2			Unit 3			Unit 4			Actuals	Project Forecast*	% Variance (against Project Forecast)	Notes
		Turbine	Generator	BOP	Turbine	Generator	BOP	Turbine	Generator	BOP	Turbine	Generator	BOP				
2020	30-Jun	$ 683	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 683**	**$ 683**	**0%**	
2020	31-Dec	$ 1,734	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 1,734**	**$ 1,734**	**0%**	
2021	30-Jun	$ 2,886	$ -	$ 1	$ -	$ -	$ -	$ 519	$ -	$ -	$ -	$ -	$ -	**$ 3,405**	**$ 3,405**	**0%**	
2021	31-Dec	$ 1,931	$ 175	$ 3,398	$ 1,995	$ 43	$ 633	$ 817	$ 44	$ 598	$ 905	$ 60	$ 687	**$ 11,287**	**$ 11,315**	**-0.25%**	
2022	30-Jun	$ 2,216	$ 239	$ 3,220	$ 205	$ 39	$ 59	$ 176	$ 36	$ 62	$ 89	$ 3	$ 32	**$ 6,375**	**$ 4,672**	**36.46%**	**B**
2022	31-Dec	$ 3,350	$ 939	$ 6,973	$ 23	$ 662	$ 163	$ 0	$ 675	$ 161	$ 42	$ 726	$ 131	**$ 13,844**	**$ 14,461**	**-4.26%**	
2023	30-Jun	$ 5,826	$ 3,174	$ 6,581	$ 196	$ 38	$ 241	$ 730	$ 38	$ 254	$ 43	$ 40	$ 269	**$ 17,429**	**$ 18,096**	**-3.69%**	
2023	31-Dec	$ 4,899	$ 1,819	$ 9,683	$ 104	$ 27	$ 388	$ 945	$ 89	$ 194	$ 2,235	$ 28	$ 351	**$ 20,762**	**$ 14,532**	**42.86%**	
2024	30-Jun													**$ -**	**$ 12,224**		
2024	31-Dec													**$ -**	**$ 13,242**		
2025	30-Jun													**$ -**	**$ 11,815**		
2025	31-Dec													**$ -**	**$ 12,996**		
2026	30-Jun													**$ -**	**$ 13,695**		
2026	31-Dec													**$ -**	**$ 11,205**		
2027	30-Jun																
2027	31-Dec																
TOTAL		**$ 23,525**	**$ 6,346**	**$ 29,855**	**$ 2,524**	**$ 808**	**$ 1,484**	**$ 3,188**	**$ 882**	**$ 1,269**	**$ 3,312**	**$ 857**	**$ 1,470**	**$ 75,519**	**$ 144,075**	**18%**	A
														Current Estimate at Completion	**$ 170,522**		

Sums and percentages may not add due to rounding.

Variances	
A	Increase from IRP submittal to current forecast driven by turbine, generator, GSU, and electrical equipment pricing.
B	Accounting system adjustments during period ending December 31, 2022.
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast developed Q4 2021.
2019 IRP Budget - $114,763

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Plant Nacoochee

Actuals ($1,000s)											
Year	Period Ending	Unit 1			Unit 2			Actuals	Project Forecast*	% Variance (against Project Forecast)	Notes
		Turbine	Generator	BOP	Turbine	Generator	BOP				
2020	30-Jun	$ -	$ -	$ -	$ 34	$ -	$ -	**$ 34**	**$ 34**	**0%**	
2020	31-Dec	$ -	$ -	$ -	$ 6	$ -	$ -	**$ 6**	**$ 6**	**0%**	
2021	30-Jun	$ -	$ -	$ -	$ 345	$ -	$ -	**$ 345**	**$ 345**	**0%**	
2021	31-Dec	$ -	$ -	$ 628	$ 724	$ -	$ -	**$ 1,352**	**$ 1,352**	**0%**	
2022	30-Jun	$ -	$ -	$ 269	$ 408	$ -	$ -	**$ 677**	**$ 677**	**0%**	
2022	31-Dec	$ -	$ -	$ 1,716	$ 1,062	$ -	$ 145	**$ 2,923**	**$ 2,923**	**0%**	
2023	30-Jun	$ -	$ -	$ 377	$ 2,149	$ -	$ 17	**$ 2,543**	**$ 2,293**	**11%**	
2023	31-Dec	$ 1,054	$ 1,000	$ 2,244	$ 2,731	$ 260	$ 11	**$ 7,300**	**$ 10,067**	**-27%**	
2024	30-Jun							**$ -**	**$ 14,051**		
2024	31-Dec							**$ -**	**$ 12,806**		
2025	30-Jun							**$ -**	**$ 6,515**		
2025	31-Dec							**$ -**	**$ 465**		
2026	30-Jun										
2026	31-Dec										
2027	30-Jun										
2027	31-Dec										
TOTAL		**$ 1,054**	**$ 1,000**	**$ 5,235**	**$ 7,460**	**$ 260**	**$ 172**	**$ 15,181**	**$ 51,534**	**0%**	**A**
							Current Estimate at Completion		**$ 51,534**		

Sums and percentages may not add due to rounding.

Notes on Variances	
A	Increase from IRP submittal to current forecast driven by GSU, trash racks, and labor costs.
B	
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast developed Q2 2023.
2019 IRP Budget - $44,117

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Plant Oliver

Actuals ($1,000s)																		
Year	Period Ending	Unit 1			Unit 2			Unit 3			Unit 4			Actuals	Project Forecast*	% Variance (against Project Forecast)	Notes
		Turbine	Generator	BOP	Turbine	Generator	BOP	Turbine	Generator	BOP	Turbine	Generator	BOP				
2020	30-Jun	$ 434	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 434**	**$ 434**	**0%**	
2020	31-Dec	$ 3	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 3**	**$ 3**	**0%**	
2021	30-Jun	$ 480	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 480**	**$ 480**	**0%**	
2021	31-Dec	$ 521	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 521**	**$ 521**	**0%**	
2022	30-Jun	$ 241	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 241**	**$ 241**	**0%**	
2022	31-Dec	$ 4,017	$ -	$ 455	$ -	$ -	$ 154	$ -	$ -	$ 161	$ -	$ -	$ 166	**$ 4,954**	**$ 4,954**	**0%**	
2023	30-Jun	$ 1,440	$ -	$ 443	$ 2	$ -	$ 35	$ -	$ -	$ 29	$ -	$ -	$ 30	**$ 1,980**	**$ 1,980**	**0%**	
2023	31-Dec	$ 2,861	$ 0	$ 5,439	$ 2,401	$ 0	$ 51	$ 2,474	$ -	$ 47	$ 924	$ -	$ 56	**$ 14,253**	**$ 14,253**	**0%**	
2024	30-Jun													**$ -**	**$ 11,799**		
2024	31-Dec													**$ -**	**$ 19,768**		
2025	30-Jun													**$ -**	**$ 25,355**		
2025	31-Dec													**$ -**	**$ 34,224**		
2026	30-Jun													**$ -**	**$ 17,567**		
2026	31-Dec													**$ -**	**$ 17,231**		
2027	30-Jun													**$ -**	**$ 4,233**		
2027	31-Dec																
TOTAL		**$ 9,997**	**$ 0**	**$ 6,337**	**$ 2,403**	**$ 0**	**$ 241**	**$ 2,474**	**$ -**	**$ 237**	**$ 924**	**$ -**	**$ 252**	**$ 22,865**	**$ 153,042**	**0%**	**A**
														Current Estimate at Completion	**$ 153,042**		

Sums and percentages may not add due to rounding.

Notes on Variances	
A	Increase from IRP submittal to current forecast driven by labor and material costs.
B	
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast expected Q3 2023.
2019 IRP Budget - $119,842

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Plant Sinclair

Actuals ($1,000s)											
Year	**Period Ending**	**Unit 1**			**Unit 2**			**Actuals**	**Project Forecast***	**% Variance (against Project Forecast)**	**Notes**
		Turbine	**Generator**	**BOP**	**Turbine**	**Generator**	**BOP**				
2020	30-Jun	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2020	31-Dec	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2021	30-Jun	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2021	31-Dec	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2022	30-Jun	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2022	31-Dec	$ 151	$ -	$ 379	$ -	$ -	$ 153	**$ 683**	**$ -**		
2023	30-Jun	$ 59	$ -	$ 105	$ -	$ -	$ 9	**$ 173**	**$ -**		
2023	31-Dec	$ 24	$ -	$ 102	$ -	$ -	$ 6	**$ 131**	**$ -**		
2024	30-Jun							**$ -**	**$ -**		
2024	31-Dec							**$ -**	**$ -**		
2025	30-Jun							**$ -**	**$ -**		
2025	31-Dec							**$ -**	**$ -**		
2026	30-Jun							**$ -**	**$ -**		
2026	31-Dec							**$ -**	**$ -**		
2027	30-Jun										
2027	31-Dec										
TOTAL		**$ 234**	**$ -**	**$ 586**	**$ -**	**$ -**	**$ 167**	**$ 987**	**$ -**		

Sums and percentages may not add due to rounding.

Notes on Variances	
A	
B	
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast expected Q4 2024.
Measured against 2022 IRP Budget - $85,405

PUBLIC DISCLOSURE
Hydro Modernization Cost Report
Project Monitoring Report - December 31, 2023
Plant Burton

Actuals ($1,000s)											
Year	**Period Ending**	**Unit 1**			**Unit 2**			**Actuals**	**Project Forecast***	**% Variance (against Project Forecast)**	**Notes**
		Turbine	**Generator**	**BOP**	**Turbine**	**Generator**	**BOP**				
2020	30-Jun	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2020	31-Dec	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2021	30-Jun	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2021	31-Dec	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2022	30-Jun	$ -	$ -	$ -	$ -	$ -	$ -	**$ -**	**$ -**		
2022	31-Dec	$ 424	$ -	$ 723	$ -	$ -	$ 153	**$ 1,300**	**$ -**		
2023	30-Jun	$ 29	$ -	$ 117	$ -	$ -	$ 6	**$ 152**	**$ -**		
2023	31-Dec	$ 2,411	$ -	$ 858	$ -	$ -	$ 5	**$ 3,274**	**$ -**		
2024	30-Jun							**$ -**	**$ -**		
2024	31-Dec							**$ -**	**$ -**		
2025	30-Jun							**$ -**	**$ -**		
2025	31-Dec							**$ -**	**$ -**		
2026	30-Jun							**$ -**	**$ -**		
2026	31-Dec							**$ -**	**$ -**		
2027	30-Jun							**$ -**	**$ -**		
2027	31-Dec							**$ -**	**$ -**		
TOTAL		**$ 2,864**	**$ -**	**$ 1,697**	**$ -**	**$ -**	**$ 165**	**$ 4,726**	**$ -**		

Sums and percentages may not add due to rounding.

Notes on Variances	
A	
B	
C	

Notes:
*Added once Project Forecast estimates are updated and approved. Final Project Forecast expected Q2 2024.
Measured against 2022 IRP Budget - $60,355

PUBLIC DISCLOSURE
Major Contracts
Project Monitoring Report - December 31, 2023

Major Contracts	Type	PO [1]	Estimated Amount (1000$)[2]	Initial Contract Amount (1000$)	Current Contract Amount (1000$)[3]	% Variance[4]	Notes
Terrora							
Turbine	Supply, remove and install	GPC10980282 / GPC6429-0009	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A, B, P
Generator	Supply, remove and install	GPC65084-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A, C
General Contractor Unit 2	Install	GPC65147-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A, D
General Contractor Unit 1	Install	GPC69749-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A, G
Trash Racks	Supply, remove and install	GPC67622-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A
Governor HPU Skids	Supply	GPC10982009	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A
Station Service Transformers	Supply	GPC10977336	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A
Switchgear	Supply	GPC11053203	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A
Lube Oil Skids	Supply	GPC10982036	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A, E
Batteries	Supply	GPC11020730	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A
Generator Step Up Transformer	N/A	N/A	**REDACTED**	**REDACTED**	**REDACTED**		
DCS	Supply	GPC10990070	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	A, F
Totals			**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Tugalo							
Turbine/Generator LNTP	Supply, remove and install	GPC69300-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	H, I
Turbine/Generator U1	Supply, remove and install	GPC69300-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	I,J
Turbine/Generator U2	Supply, remove and install	GPC69300-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	I,J
Turbine/Generator U3	Supply, remove and install	GPC69300-0003 / GPC69300-0013	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	I,J
Turbine/Generator U4	Supply, remove and install	GPC69300-0004 / GPC69300-0012	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	I,J
General Contractor U1	Install	GPC83925-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
General Contractor U2	Install	GPC83925-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Trash Racks	Supply, remove and install	GPC64556-0007	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	N
Governor HPU Skids U1	Supply	~~GPC69389-0007 /~~	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids U2	Supply	~~GPC18391-0388 /~~	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids U3	Supply	~~GPC18391-0389 /~~	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids U4	Supply	~~GPC18391-0386 /~~	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Station Service Transformers	Supply	GPC68066-0007	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Switchgear	Supply	GPC63594-0009	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Lube Oil Skids	N/A	N/A	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Batteries	Supply	GPC72032-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator Step Up Transformers	Supply	GPC70844-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	L
DCS Unit 1	Supply	GPC11121719	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	O
DCS Unit 2	Supply	GPC18391-0383	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 3	Supply	GPC18391-0419	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 4	Supply	GPC18391-0421	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Spillway Gates	Supply	GPC64556-0007	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	K
Totals			**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	

Sums and percentages may not add due to rounding.

Bartletts Ferry 1-4							
Turbine Common	Supply and install	GPC69087-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	H
Turbine Unit 1	Supply and install	GPC68064-0005	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	M
Turbine Unit 2	Supply and install	GPC68064-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	M
Turbine Unit 3	Supply and install	GPC68064-0003	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	M
Turbine Unit 4	Supply and install	GPC68064-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	M
Generator Unit 1	Supply and install	GPC74379-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	H

Generator Unit 2	Supply and install	GPC74379-0005	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	H
Generator Unit 3	Supply and install	GPC74379-0003	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	H
Generator Unit 4	Supply and install	GPC74379-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	H
General Contractor	Install	GPC86827-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Trash Racks	Supply Only	GPC64556-0008	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	N
Governor HPU Skids Unit 1	Supply	GPC73295-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 2	Supply	GPC73295-0003	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 3	Supply	GPC73295-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 4	Supply	GPC73295-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Station Service Transformers	Supply	GPC68066-0012	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Switchgear	Supply	GPC67910-0006	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Lube Oil Skids	Supply	GPC66641-0008	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	O
Batteries	Supply		**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator Step Up Transformer U1	Supply	GPC70844-0003	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator Step Up Transformer U2	Supply	GPC70844-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator Step Up Transformer U3	Supply	GPC70844-0005	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator Step Up Transformer U4	Supply	GPC70844-0006	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS U1	Supply	GPC71804-0001	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS U2	Supply	GPC18391-0422	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS U3	Supply	GPC18391-0413	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS U4	Supply	GPC18391-0420	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Spillway Gate Hoists	Supply and install						
Totals			**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	

Sums and percentages may not add due to rounding.

Nacoochee							
Turbine Unit 2	Supply and install	GPC69300-0008	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator Unit 2	Supply and install	GPC69300-0014	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Turbine and Generator Unit 1	Supply and install	GPC69300-0015	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
General Contractor	Install						
Trash Racks	Supply and install						
Governor HPU Skids Unit 1	Supply	GPC73295-0011	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 2	Supply	GPC73295-0008	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Station Service Transformers	Supply						
Switchgear	Supply						
Lube Oil Skids	Supply						
Batteries	Supply						
Generator Step Up Transformer	Supply	GPC70844-0014	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 1	Supply	GPC18391-0362	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 2	Supply	GPC18391-0363	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Bulk Heads	Supply	GPC64556-0010	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Trash Racks	Supply Only	GPC64556-0018	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Head Gates	Supply and install	GPC64556-0018	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
			REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	

Sums and percentages may not add due to rounding.

Oliver							
Turbine Unit 1	Supply and install	GPC64290-0016	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Turbine Unit 2	Supply and install	GPC64290-0014	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Turbine Unit 3	Supply and install	GPC64290-0015	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Turbine Unit 4	Supply and install						
Generator	Supply and install						
General Contractor	Install						
Trash Racks	Supply	GPC89056-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 1	Supply	GPC73295-0009	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 2	Supply	GPC73295-0005	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 3	Supply	GPC73295-0006	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 4	Supply	GPC73295-0007	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Station Service Transformers	Supply	GPC83584-0008	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Switchgear Buses	Supply	GPC67910-0035	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Lube Oil Skids	Supply						
Batteries	Supply						
Generator Step Up Transformer	Supply						
DCS Unit 1	Supply	GPC71804-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 2	Supply	GPC71804-0003	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 3	Supply	GPC71804-0004	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 4	Supply	GPC71804-0005	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Spillway Gate Hoists	Supply						
Depressing Air Compressor	Supply						
Headgates	Supply	GPC89056-0002	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
			REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	

Sums and percentages may not add due to rounding.

Sinclair							
Turbine	Supply and install						
Generator	Supply and install						
General Contractor	Install						
Trash Racks	Supply and install						
Governor HPU Skids Unit 1	Supply	GPC73295-0013	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Governor HPU Skids Unit 2	Supply	GPC73295-0012	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Station Service Transformers	Supply						
Switchgear	Supply						
Lube Oil Skids	Supply						
Batteries	Supply						
Generator Step Up Transformer	Supply						
DCS Unit 1	Supply	GPC18391-0359	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 2	Supply	GPC18391-0361	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Bulk Heads	Supply						
Trash Racks	Supply Only						
Head Gates	Supply and install						
			REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	

Sums and percentages may not add due to rounding.

Burton							
Turbine LNTP	Supply and install	GPC69300-0016	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Generator	Supply and install						
General Contractor	Install						
Trash Racks	Supply and install						
Governor HPU Skids	Supply	GPC73295-0010	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Station Service Transformers	Supply						
Switchgear	Supply						
Lube Oil Skids	Supply						
Batteries	Supply						
Generator Step Up Transformer	Supply	GPC70844-0015	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	O
DCS Unit 1	Supply	GPC18391-0358	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
DCS Unit 2	Supply	GPC18391-0360	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Bulk Heads	Supply						
Trash Racks	Supply Only						
Head Gates	Supply and install						
			REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	

Sums and percentages may not add due to rounding.

[1] PO's included when contract value exceeds $100k following award of contract and issuance of PO.
[2] Estimated amount from Project Estimate
[3] This reflects change orders to the contract/purchase order
[4] From Initial Contract Amount to Current Amount

Notes on Variances	
A	Variances between the Estimated Amount and the Initial Contract Amount are the result of the differences between the screening level Estimated Amount compared to the actual contract that was procured and is reflected as the Initial Contract Amount.
B	Additional work related to rehabilitation and replacement of components not included in base scope.
C	Additional rotor stability frame due to safety concerns. Additional cleaning and handling of the generator rotor.
D	Documents issued for bid vs documents issued for construction.
E	Additional valve, differential pressure transmitters, and lifting frame modification.
F	Power and water cybersecurity suite equipment, operation station, and additional start up support.
G	"Estimated Amount" included in General Contractor Unit 2 value. Shown in Cell E9.
H	Limited Notice to Proceed - contract negotiations completed
I	Turbine and Generator scope issued a single contract due to an alternate bid
J	Transferred braking/jacking and vibration monitoring scope to vendor, added scope for online brush removal and terminal blocks.
K	Estimate includes supply and install. Originally estimated as Obermeyers, current strategy is replace in kind.
L	Includes U1 and U3 transformers
M	Steel indices
N	Storage Fees
O	Part associated with completing the final design.
P	Accounting system adjustments during period ending December 31, 2022.

PUBLIC DISCLOSURE
Project Change Orders
Project Monitoring Report - December 31, 2023
Material Change Orders (>$100k)

Terrora

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved
1/30/2020	Controls	**REDACTED**	5/13/2020
1/30/2020	Penstock manholes/platforms, turb/gen platform, air reciever tank, control room access	**REDACTED**	5/13/2020
5/14/2020	Unit 1/2 Turbine Increases.	**REDACTED**	5/14/2020
5/14/2020	Night Shift Coordinator	**REDACTED**	5/18/2020
6/23/2020	Terrora Isolation Valves	**REDACTED**	7/23/2020
10/19/2020	Terrora Overhead Crane uprate	**REDACTED**	10/19/2020
11/10/2020	Equipment and Startup support	**REDACTED**	11/24/2020
11/24/2020	Operations Procedures	**REDACTED**	11/24/2020
3/29/2021	Emerson Phase 2 Startup Support	**REDACTED**	4/12/2021
9/9/2021	Terrora Unit 1 & 2– New Lower Generator Guide Bearing Oil Basin Cover Proposal for American Hydro	**REDACTED**	9/9/2021
9/9/2021	Terrora Unit 1– LGGB Housing and Bridge Fit Reconditioning for American Hydro	**REDACTED**	10/8/2021
	34 Other Change Orders (<$100k)	$ 936	Multiple
	Total	$ 6,157	

Tugalo

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved
10/14/2021	Online Brush Removal, Vibration Sensors, Braking/Jack System, and Terminal Blocks	**REDACTED**	11/30/2021
3/24/2022	Additional Electrical Hours Required	**REDACTED**	3/24/2022
3/24/2022	Tugalo Unit 1 sole plate, draft tube, and wheel pit repairs	**REDACTED**	3/24/2022
3/17/2022	By-Pass for the Temperature Control Valves	**REDACTED**	9/29/2022
7/8/2022	Tugalo Trash Rack and Structural Steel temporary Storage	**REDACTED**	9/29/2022
11/21/2022	Siemens GSU PO Reconciliation	**REDACTED**	11/21/2022
1/25/2023	GSU Concrete Pad install	**REDACTED**	6/29/2023
3/15/2023	Sheave Wheel Bracket Modifications (28 Sheave Wheel Brackets)	**REDACTED**	6/29/2023
3/31/2023	Turbine Unit 2&3 Draft Tube Repairs	**REDACTED**	6/29/2023
5/26/2023	Turbine Unit 2 Expedited delivery	**REDACTED**	8/25/2023
	19 Other Change Orders (<$100k)	$ 649	Multiple
	Total	$ 3,720	

Bartletts Ferry

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved
8/31/2021	Additional Options and Engineering Studies	**REDACTED**	9/7/2021
2/5/2022	CPI increase in raw steel Price vs the Post-adjustment price for Headcover	**REDACTED**	4/5/2022
2/5/2022	CPI increase in raw steel Price vs the Post-adjustment price for Runner	**REDACTED**	4/5/2022
3/8/2022	Bartletts U1-4 Powerhouse Crane Cost Change	**REDACTED**	4/21/2022
7/6/2022	Lifting and Handling Devices for Unit dis-assembly and re-assembly	**REDACTED**	8/30/2022
4/15/2022	Trash Gate Actuator Variance Post-Control	**REDACTED**	8/30/2022
8/18/2022	Additional Hours Needed to complete Mechanical Design	**REDACTED**	8/30/2022
5/16/2022	I&C Variance for years 2023 thru 2026	**REDACTED**	10/6/2022
9/2/2022	Generator Bearings	**REDACTED**	11/22/2022
11/17/2022	U1 and U2 Baffling in Thrust Tub	**REDACTED**	12/14/2022
8/30/2022	Log Powerhouse Crane – LCP (Lead Containing Paint) Removal and Storage	**REDACTED**	12/2/2022
2/8/2023	GSU PO Reconciliation - Pricing Index Increase	**REDACTED**	2/16/2023
1/11/2023	Bartletts Shear Pin Monitoring Panel Unit 3	**REDACTED**	4/18/2023
3/3/2023	Replacement Stem Nuts for Head Gate Actuators	**REDACTED**	4/18/2023
4/27/2023	Switchyard Relocation - Install of New GSU's (U1 &U3)	**REDACTED**	4/27/2023
5/12/2023	Vertical Generator Shaft Bearing Journals Replacement	**REDACTED**	5/25/2023
7/6/2022	Headcover Sump and Piping Removal	**REDACTED**	5/25/2023
8/18/2022	Tail Race Stop Log	**REDACTED**	5/25/2023
3/8/2023	Spillway Gantry Cranes Upgrade from 575v to 480v	**REDACTED**	5/25/2023

5/24/2023	Turbine Thrust Runner Repair	**REDACTED**	6/14/2023
6/20/2023	Turbine Steel Price Adjustment	**REDACTED**	6/20/2023
6/23/2023	Draft Tube Installation and Wheel Pit Blasting	**REDACTED**	6/23/2023
6/13/2023	New turbine operating rings at Bartletts Units 1 & 2	**REDACTED**	6/28/2023
6/21/2023	Fans and Louvers	**REDACTED**	7/27/2023
8/25/2023	Stator Rewind, Restack, Rotor Pole Refurbishment U1 Frame Modifications	**REDACTED**	8/25/2023
8/3/2023	IPS Finger Flanges Change Order for the Stator Rewind, Restack, Rotor Pole Refurbishment	**REDACTED**	8/22/2023
4/14/2022	Bartlett's Head Gates Drive System Change from Manual Actuator	**REDACTED**	9/29/2023
11/15/2023	Replacement of upper and lower generator guide bearings	**REDACTED**	11/16/2023
7/14/2023	Rotor cleaning and Abatement Removal	**REDACTED**	11/16/2023
11/15/2023	Replacement of Operating Ring	**REDACTED**	11/16/2023
	23 Other Change Orders (<$100k)	$ 734	Multiple
	Total	$ 26,517	

Nacoochee

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved

Oliver

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved

Sinclair

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved

Burton

Date CO Submitted	Description of Change Order Request	Dollar Amount Requested (1000$)	Date Approved

PUBLIC DISCLOSURE
Procurement Status of Significant Components -- All Received
Project Monitoring Report - December 31, 2023

Total Project Estimate	Unit	Purchase Order Date	Required Delivery Date	Scheduled Delivery Date
Terrora				
Turbine	1&2	Actual 8/20/2019	Actual 9/28/2020	Actual 9/28/2020
Generator	1&2	Actual 11/25/2019	Actual 7/20/2020	Actual 7/20/2020
General Contractor	2	Actual 2/28/2020	Actual 3/19/2019	Actual 3/19/2020
General Contractor	1	Actual 3/22/2021	Actual 12/31/2021	Actual 2/15/2021
Trash Racks	1&2	Actual 7/24/2020	Actual 10/30/2020	Actual 9/1/2020
Governor HPU Skids	1&2	Actual 8/27/2019	Actual 4/15/2020	Actual 8/12/2020
Station Service Transformers	1&2	Actual 8/9/2019	Actual 1/15/2020	Actual 4/10/2020
Switchgear	1&2	Actual 5/20/2020	Actual 11/2/2020	Actual 3/30/2020
Lube Oil Skids	1&2	Actual 8/27/2019	Actual 2/28/2020	Actual 7/21/2020
Batteries	1&2	Actual 1/16/2020	Actual 6/1/2020	Actual 7/6/2020
Generator Step Up Transformer	NA	NA	NA	NA
DCS	1&2	Actual 9/25/2019	Actual 3/31/2020	Actual 7/21/2020

Required Delivery Date reflects contractual requirement for vendor, but not delivery date required to meet commercial operation.

Total Project Estimate	Unit	Purchase Order Date	Required Delivery Date	Scheduled Delivery Date
Tugalo				
Turbine/Generator	1	Actual 12/28/2020	Actual 12/31/2020	Actual 3/15/2023
Turbine/Generator	2	Actual 9/16/2021	4/30/2026	Actual 9/13/2023
Turbine/Generator	3	Actual 9/16/2021	4/30/2026	6/13/2024
Turbine/Generator	4	Actual 9/16/2021	4/30/2026	12/12/2024
General Contractor	1	Actual 1/25/2023	Actual 3/27/2023	Actual 4/17/2023
General Contractor	2	Actual 9/15/2023	Actual 9/14/2023	Actual 9/5/2023
General Contractor	3-4			
Trash Racks	1-4	Actual 11/11/2021	Actual 6/1/2022	Actual 4/19/2023
Governor HPU Skids	1-4	Actual 9/27/2021	Actual 7/31/2022	8/1/2024
Station Service Transformers	1-4	Actual 4/21/2021	Actual 6/1/2022	Actual 6/8/2022
Switchgear	1-4	Actual 4/7/2021	Actual 2/14/2022	Actual 6/8/2022
Lube Oil Skids	NA	NA	NA	NA
Batteries	1-4	Actual 10/4/2021	Actual 8/10/2022	Actual 8/16/2023
Generator Step Up Transformer		Actual 8/26/2021	Actual 8/1/2022	Actual 11/8/2022
DCS Unit 1	1	Actual 3/10/2021	Actual 12/31/2022	Actual 10/28/2022
DCS Unit 2	2	Actual 5/30/2023	Actual 10/31/2023	Actual 10/20/2023
DCS Unit 3	3	Actual 11/27/2023	Actual 11/30/2023	7/30/2024
DCS Unit 4	4	Actual 11/27/2023	Actual 11/22/2023	8/20/2024
Spillway Gates	1-4	Actual 11/11/2021	Actual 6/1/2022	Actual 6/5/2023

Required Delivery Date reflects contractual requirement for vendor, but not delivery date required to meet commercial operation.

Total Project Estimate	Unit	Purchase Order Date	Required Delivery Date	Scheduled Delivery Date
Bartletts Ferry 1-4				
Turbine Common	1	Actual 1/4/2021	Actual 3/15/2021	Actual 4/14/2023
Turbine Unit 1	1	Actual 6/25/2021	Actual 1/2/2023	Actual 4/14/2023
Turbine Unit 2	2	Actual 6/25/2021	1/2/2026	6/17/2025
Turbine Unit 3	3	Actual 6/25/2021	1/2/2024	2/1/2024
Turbine Unit 4	4	Actual 6/25/2021	1/2/2025	11/19/2024
Generator Unit 1	1	Actual 8/11/2022	Actual 1/31/2022	Actual 05/18/2023
Generator Unit 2	2	Actual 12/20/2022	Actual 2/1/2023	2/24/2026
Generator Unit 3	3	Actual 12/20/2022	Actual 2/6/2023	2/22/2024
Generator Unit 4	4	Actual 12/20/2022	Actual 2/13/2023	2/26/2025
General Contractor				Actual 7/17/2023
Trash Racks	1	Actual 11/11/2021	Actual 2/1/2022	Actual 8/12/2022
Governor HPU Skid Unit 1	1	Actual 7/27/2022	Actual 3/16/2023	Actual 8/14/2023
Governor HPU Skid Unit 2	2	Actual 7/27/2022	3/9/2026	3/3/2026
Governor HPU Skid Unit 3	3	Actual 7/27/2022	3/17/2024	5/3/2024
Governor HPU Skid Unit 4	4	Actual 7/27/2022	3/11/2025	4/16/2025
Station Service Transformers		Actual 9/10/2021	Actual 1/11/2023	Actual 5/17/2023
Switchgear	1	Actual 5/25/2021	Actual 1/18/2023	Actual 6/9/2023
Lube Oil Skids	1	Actual 5/21/2022	Actual 7/31/2023	Actual 09/25/2023
Lube Oil Skids	2,4	Actual 5/21/2022	7/31/2026	6/11/2026
Lube Oil Skids	3	Actual 5/21/2022	7/31/2024	7/25/2024
Batteries				4/17/2025
Generator Step Up Transformer U1	1	Actual 10/22/2021	Actual 3/1/2023	Actual 6/7/2023
Generator Step Up Transformer U2	2	Actual 10/22/2021	3/2/2026	3/25/2026
Generator Step Up Transformer U3	3	Actual 10/22/2021	3/1/2024	3/15/2024
Generator Step Up Transformer U4	4	Actual 10/22/2021	3/3/2025	3/20/2025
DCS	1-4	Actual 10/25/2021	Actual 6/16/2023	Actual 06/29/2023
Spillway Gate Hoists				
Head Gates & Trash Gates	1	Actual 4/27/2022	Actual 8/31/2022	Actual 11/13/2023
Actuators	1	Actual 3/18/2022	Actual 1/19/2023	1/31/2024
Powerhouse Crane		Actual 3/18/2022	Actual 1/2/2023	Actual 1/9/2023

Required Delivery Date reflects contractual requirement for vendor, but not delivery date required to meet commercial operation.

Total Project Estimate	Unit	Purchase Order Date	Required Delivery Date	Scheduled Delivery Date
Nacoochee				
Turbine/Generator	1	Actual 12/22/2023	Actual 12/7/2023	8/28/2024
Turbine/Generator	2	Actual 1/20/2023	Actual 7/21/2023	3/12/2025
General Contractor				10/14/2024
Governor HPU Skids Unit 1	1	Actual 9/23/2022	8/8/2024	2/5/2024
Governor HPU Skids Unit 2	2	Actual 9/14/2022	8/8/2025	10/14/2024
Station Service Transformers				10/14/2024
Switchgear	1,2			3/22/2024
Lube Oil Skids				10/14/2024
Batteries				9/3/2024
Generator Step Up Transformer	1,2	Actual 9/8/2022	Actual 11/30/2023	Actual 11/27/2023
DCS	1,2	Actual 12/5/2022	4/30/2024	11/19/2024
Bulk Heads		Actual 12/13/2021	Actual 12/31/2022	Actual 1/12/2023
Trash Racks		Actual 9/23/2022	Actual 5/1/2023	Actual 7/25/2023
Head Gates		Actual 9/23/2022	Actual 5/1/2023	Actual 9/5/2023

Required Delivery Date reflects contractual requirement for vendor, but not delivery date required to meet commercial operation.

Total Project Estimate	Unit	Purchase Order Date	Required Delivery Date	Scheduled Delivery Date
Oliver				
Turbine/Generator	1	Actual 1/18/2023	12/31/2025	1/13/2025
Turbine/Generator	2	Actual 11/15/2022	12/31/2026	3/3/2025
Turbine/Generator	3	Actual 1/18/2023	12/31/2027	12/30/2025
Turbine/Generator	4			2/14/2026
General Contractor				12/9/2024
Governor HPU Skids Unit 1	1	Actual 9/5/2022	8/9/2024	12/9/2024
Governor HPU Skids Unit 2	2	Actual 9/13/2022	8/8/2025	11/11/2024
Governor HPU Skids Unit 3	3	Actual 9/14/2022	8/7/2026	11/11/2025
Governor HPU Skids Unit 4	4	Actual 9/14/2022	8/6/2027	11/11/2025
Station Service Transformers		Actual 12/14/2023	12/5/2024	1/23/2025
Switchgear	1,2,3,4	Actual 10/6/2023	1/14/2025	12/9/2024
Lube Oil Skids				12/9/2024
Batteries				4/25/2025
Generator Step Up Transformer	1,2,3,4			7/15/2026
DCS	1,2,3,4	Actual 11/30/2022	7/31/2025	6/10/2025
Bulk Heads				
Trash Racks		Actual 11/28/2023	10/31/2024	8/2/2024
Head Gates		Actual 10/30/2023	10/25/2024	8/16/2024

Required Delivery Date reflects contractual requirement for vendor, but not delivery date required to meet commercial operation.

Trade Secret Bartletts Ferry U1-4 Schedule 12-31-23 has been redacted in its entirety.

Trade Secret Burton-Sinclair Schedule 12-31-23 has been redacted in its entirety.

Trade Secret Nacoochee Schedule 12-31-23 has been redacted in its entirety.

Trade Secret Oliver Schedule 12-31-23 has been redacted in its entirety.

Trade Secret Tugalo Schedule 12-31-23 has been redacted in its entirety.