Georgia Power

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

PUBLIC DISCLOSURE

February 29, 2024

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

RE: Georgia Power Company Annual Transmission Update Report; Docket No. 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 its Annual Transmission Update Report with the status of each transmission project in the Company's Selected Supporting Information contained within Technical Appendix Volume 1 and the Unit Retirement Study contained within Technical Appendix Volume 2 of the 2022 IRP.

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 Cheryl Johnson at 404-506-6837 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. 44160

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

Pursuant to the Order Adopting Stipulation as Amended in the 2022 Integrated Resource Plan ("2022 IRP"), Docket No. 44160, Georgia Power Company ("Georgia Power" or the "Company") hereby submits to the Georgia Public Service Commission its Annual Transmission Update Report, 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 sensitive details concerning Georgia Power's transmission infrastructure that must be protected from public disclosure in the interests of system security and reliability. Such portions of the Information contain Critical Energy Infrastructure Information as defined by the Code of Federal Regulations Section 388.113.

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 and 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.

Michael B. Robinson, first being duly sworn, deposes and states that he has reviewed the Company's Annual Transmission Update Report 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 (2018).

Michael B. Robinson
Vice President, Grid Transformation
Georgia Power Company

Subscribed and sworn to before me this 27 day of Feb., 2024.

Notary Public

My Commission expires:



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Georgia Projects

(Includes ITS & Savannah Projects)

2024 – 2033

Transmission Planning

Southern Company Services

FALL 2023

Southern Company

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I. GA ITS EXECUTIVE SUMMARY

The results of the studies performed on the GA ITS portion demonstrate that required performance criteria are met or a project or operating guide have been developed to address any identified system deficiencies.

A Summary of Georgia ITS Transmission additions starts on the next page, followed by the List of the Georgia ITS 10 Year Expansion Plan Projects.

This group of projects and operating guides, found in Section IV – ANALYSIS RESULTS, is reassessed each year to confirm continued need, timing, and scope for previously identified projects until projects have transitioned from planning to a committed project. These reassessments also investigate potential need for additional projects or modification to projects currently included. Any operating guides identified to address constraints are reviewed by Georgia Power Transmission Operations. The transmission improvements are submitted to ITS Participants for ITS parity inclusion.

The following information is included for each project:

1) project justification,
2) schedule for implementation (start date), and
3) expected required in-service date.

For transmission improvements, lead times necessary to implement plans are considered to ensure the expected required in-service date can be met.

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Summary of Georgia ITS Transmission Additions

Table 1 Summary of Georgia ITS Transmission Additions

	First 5 Years		Total 10 Years	
New Transmission Lines Requiring New Right of Way				
Voltage (kV)	Lines	Miles	Lines	Miles
500	2	47.8	3	122.8
230	18	147.1	20	181.7
115	5	43.6	5	43.6
Total	**25**	**238.5**	**28**	**348.1**
Transmission Lines to be Rebuilt / Reconductored on Existing Right-of Way				
Voltage (kV)	Lines	Miles	Lines	Miles
500	0	0	0	0
230	6	102.81	13	163.8
115	29	224.15	42	338.3
Total	**35**	**326.96**	**55**	**502.1**
Transmission Lines Upgraded on Existing Right-of Way				
Voltage (kV)	Lines	Miles	Lines	Miles
500	0	0	0	0
230	1	25.2	0	0
115	0	0	0	0
Total	**1**	**25.2**	**0**	**0**
Transformers to be installed (low side ≥ 115kV)				
	Units		Units	
New	6		10	
Upgrade	2		4	
New Capacitor Banks to be Installed				
Voltage (kV)	Units	MVAR	Units	MVAR
230	2	60	2	60
115	4	105	7	195
Total	**6**	**165**	**9**	**255**

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	First 5 Years		Total 10 Years	
New Series Reactors to be Installed				
Voltage (kV)	Units		Units	
230	4		4	
115	0		0	
New Static VAR Systems to be Installed				
Voltage (kV)	Units		Units	
230	3		3	
115	0		0	

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A. Georgia ITS 10 Year Expansion Plan Projects List

Table 2 Ga ITS 10 Year Plan Project List below briefly lists projects in the 10 Year Expansion Plan (details for each project are in later sections).

Table 2 Ga ITS 10 Year Plan Project List

Zone	Year	TEAMS Number	Project Name	Need Date 2023	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Estimated Cost – ITS Assigned	Totals
214	2024	12016	ARKWRIGHT - LLOYD SHOALS 115KV LINE RECONDUCTOR	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2024	20017	ARKWRIGHT - SOUTH MACON (BLACK) 115KV LINE REBUILD	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**$2,653,000.00**
213	2024	18671	CORN CRIB - LAGRANGE 115KV LINE REBUILD	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2024	19340	GTC: MIDDLE FORK STATCOM SYSTEM	6/1/2024	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2024	19622	GTC: RIDDLEVILLE BUS REPLACEMENT	6/1/2024	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
218	2024	19028	KINGSLAND BANK C REPLACEMENT	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2024	18104	KLONDIKE SWITCH REPLACEMENT	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2024	19305	MCGRAU FORD STATCOM SYSTEM	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
202	2024	20006	NORCROSS 230KV BUS 2-3 SERIES BUS TIE BREAKER INSTALLATION	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2024	19019	PINE GROVE PRIMARY BANK B REPLACEMENT	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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Zone	Year	TEAMS Number	Project Name	Need Date 2023	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Estimated Cost – ITS Assigned	Totals
215	2024	14271	THOMSON PRI - WARRENTON PRI 115KV WHITE LINE REBUILD	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2024	19625	WARRENTON PRIMARY 230KV SWITCHES AND JUMPER REPLACEMENT	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2024	19341	GTC: JUDY MOUNTAIN SHUNT REACTOR	12/1/2024	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2024	20021	GTC: UNION CITY 230KV BUS TIE	12/1/2024	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
213	2024	18774	GTC: HEARD COUNTY - TENASKA 500KV (SECOND LINE)	12/31/2024	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2024	18736	CC - MICROSOFT - SHUGART	12/31/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2024	20150	QCELLS HILL VIEW 230KV & GRASSY HOLLOW SWITCHING STATIONS	12/31/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2025	19676	ADAMSVILLE - JACK MCDONOUGH 230KV LINE REBUILD	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2025	18670	BANKS CROSSING - POND FORK 115KV	6/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	18153	BONAIRE PRI-ECHECONNEE 115KV (BONAIRE-RUSSELL PKWY) REBUILD	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2025	19187	BREMEN - CROOKED CREEK (APC) 115KV	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
218	2025	20067	DEPTFORD - MAGNOLIA 115KV REBUILD	6/1/2025	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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211	2025	20430	EAST DALTON JUMPER REPLACEMENT	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	18800	ECHECONNEE-WELLSTON 115KV REBUILD	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
201	2025	20243	GARRETT ROAD SWITCHING STATION - TRAE LANE NETWORK UPGRADES	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
218	2025	20342	GTC: CAMDEN INDUSTRIAL PARK 230/115KV	6/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	20590	GTC: EATONTON PRIMARY - LICK CREEK 115KV LINE SWITCH REPLACEMENT	6/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2025	18691	GTC: LIZARD LOPE - WESTOVER 115KV	6/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
218	2025	11821	JESUP - LUDOWICI PRIMARY 115KV REBUILD	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2025	17075	LITTLE OGEECHEE REDUNDANT RELAY PROJECT	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2025	13753	MEAG: ALCOVY ROAD - SKC 115KV RECONDUCTOR	6/1/2025	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	13787	MEAG: AULTMAN ROAD - BONAIRE PRIMARY 115KV REBUILD	6/1/2025	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2025	19629	MEAG: BRUMBLEY CREEK - SOUTH BAINBRIDGE 115KV REBUILD	6/1/2025	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
213	2025	18832	MEAG: FORSTON 230KV REDUNDANT RELAY	6/1/2025	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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216	2025	18492	MITCHELL - NORTH TIFTON 230KV RECONDUCTOR	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
202	2025	20464	NORCROSS 230KV BUS 1-3 SERIES BUS TIE BREAKER INSTALLATION	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2025	18690	PALMYRA REACTOR REMOVAL	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2025	19631	PINE GROVE PRIMARY 115KV DUAL STAGE CAPACITOR BANK	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	20466	SMART VALVE INSTALLATION	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	19999	GTC: ROBINS SPRING BUS REPLACEMENT	12/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2025	20001	GTC: ROBINS SPRING CAPACITOR BANK INSTALLATION	12/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2025	18889	JEFFERSON STREET#3 - NORTHWEST (WHITE) 115KV RECONDUCTOR	12/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2025	20326	ANTHONY SHOALS STATCOM SYSTEM	12/31/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2025	20175	CC - PROJECT CHRONOS-SK/HYUNDAI	12/31/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2025	20010	GTC: ANTHONY SHOALS - WASHINGTON 115KV LINE REBUILD	12/31/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2026	20018	CC - QTS FAYETTEVILLE TRANSMISSION NEEDS	4/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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208	2026	17900	UNION CITY - YATES 230KV WHITE LINE REBUILD	4/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2026	19966	BIG OGEECHEE 500/230KV	6/1/2026	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
201	2026	18960	BLANKETS CK.-WOODSTOCK 115KV LN REBUILD, (WOODSTK-LITTLE RVR)	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2026	20066	BOULEVARD - DEPTFORD 115KV REBUILD	6/1/2026	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2026	20216	CC - TA REALTY UNION CITY	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2026	18679	DU: EAST DALTON-OOSTANAULA 115KV RECONDUCTOR	6/1/2026	DU	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2026	20491	EAST POINT RELAY MODERNIZATION	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2026	16007	FENWICK STREET - SAND BAR FERRY 115KV (RECONDUCTOR)	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
213	2026	20516	GOAT ROCK 230KV SWITCH, JUMPER, & LINE TRAP REPLACEMENT	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2026	20002	GORDON - SANDERSVILLE #1 115KV LINE REBUILD	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2026	19618	GORDON-N DUBLIN 115KV (GORDON-ENGL MCI J) REBUILD	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2026	20474	GRADY 230/115KV NEW BREAKER AND RELAY MODERNIZATION	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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Zone	Year	TEAMS Number	Project Name	Need Date 2023	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Estimated Cost – ITS Assigned	Totals
213	2026	19334	GTC: LAGRANGE PRIMARY - NORTH OPELIKA 230KV	6/1/2026	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2026	20015	GTC: MORNING HORNET 2ND 230/115KV BANK & THUMBS UP 115KV TL	6/1/2026	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2026	20512	GTC: SR ROBINS-TRANSMISSION IMPROVEMENTS	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2026	19636	HAMMOND - WEISS DAM 115KV LINE REBUILD	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2026	20490	KLONDIKE RELAY MODERNIZATION	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2026	20277	MCINTOSH - PURRYSBURG 230KV REACTORS	6/1/2026	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
213	2026	19598	MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS	6/1/2026	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2026	20270	MEAG: RAY PLACE RD - WASHINGTON	6/1/2026	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2026	20271	MEAG: RAY PLACE RD - WASHINGTON (WASHINGTON - WASHINGTON 3)	6/1/2026	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2026	20300	MORROW 115KV RELAY UPGRADE	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2026	20489	SCOTTDALE RELAY MODERNIZATION	6/1/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2026	20273	GTC: DRESDEN 500KV BUS EXPANSION	12/1/2026	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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212	2026	17977	ATHENA - EAST WATKINSVILLE 115KV	12/31/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2026	19287	GRADY-WEST END 115KV REBUILD	12/31/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2026	19363	MORROW - MOUNTAIN VIEW 115KV REBUILD	12/31/2026	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2027	19597	ADAMSVILLE - BUZZARD ROOST 230KV REBUILD AND JUMPER UPGRADE	6/1/2027	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2027	20234	DOYLE - LG&E MONROE 230KV - JACKS CREEK LOOP IN	6/1/2027	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2027	20065	GOSHEN (SAV) - MCINTOSH 115KV	6/1/2027	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2027	19358	GTC: EAST MOULTRIE - HIGHWAY 112 230KV LINE	6/1/2027	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2027	09662	GTC: EAST WALTON 500/230KV PROJECT	6/1/2027	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
206	2027	19606	GTC: SKC REPLACE 115KV BUS AND JUMPERS	6/1/2027	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2027	20020	GTC: SOUTH HAZLEHURST - NEW LACY 230KV LINE	6/1/2027	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
201	2027	20506	GTC: SWITCH WAY - THORNTON ROAD 230KV LINE RECONDUCTOR	6/1/2027	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
218	2027	18668	JESUP - OFFERMAN 115KV RECONDUCTOR	6/1/2027	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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202	2027	10143	LAWRENCEVILLE - WINDER 115KV LINE RECONDUCTOR	6/1/2027	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2027	19248	SANDERSVILLE #1 - WADLEY PRIMARY 115KV REBUILD	6/1/2027	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2027	20591	GTC: EATONTON PRIMARY - LICK CREEK 115KV LINE REBUILD	12/1/2027	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2028	20503	GTC: BARNEYVILLE - EAST MOULTRIE 115KV LINE	6/1/2028	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2028	20407	MAGNOLIA - TRUMAN PARKWAY 115KV RECONDUCTOR	6/1/2028	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2028	20274	UNION CITY - YATES 230KV BLACK LINE REBUILD	6/1/2028	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2028	20586	GTC: NORTH DUBLIN 230/115KV TRANSFORMERS AND BUS-TIE BREAKER	12/1/2028	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2029	19628	ARLINGTON PRIMARY - LIZARD LOPE 115KV RECONDUCTOR	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2029	20477	BANKS CROSSING - CENTER PRIMARY (BLACK) 230KV LINE	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
201	2029	12063	DOUGLASVILLE - POST RD 115KV REBUILD	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2029	19623	GTC: AUGUSTA CORPORATE PARK - VOGTLE 230KV REBUILD	6/1/2029	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
202	2029	10814	GTC: BAY CREEK 230/115KV 2ND TRANSFORMER	6/1/2029	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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214	2029	20513	GTC: BIG GROCERY-WESTLAKE ROAD 230KV LINE (NEW LINE)	6/1/2029	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
213	2029	19950	GTC: DRESDEN - TALBOT 500KV LINE	6/1/2029	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	2029	19635	GTC: HICKORY LEVEL - VILLA RICA 230KV LINE REBUILD	6/1/2029	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
201	2029	20505	GTC: VILLA RICA - GARRETT ROAD 230KV LINE RECONDUCTOR	6/1/2029	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2029	20284	KETTLE CREEK PRIMARY - PINE GROVE PRIMARY 115KV REBUILD	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
219	2029	15228	KRAFT 230/115KV TRANSFORMER RATING INCREASE	6/1/2029	SAV	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
202	2029	10481	LAWRENCEVILLE - WINDER 230KV LINE REBUILD	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2029	19621	MCEVER ROAD-SHOAL CREEK 115KV REBUILD (COLLEGE SQ-LAKESIDE)	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
218	2029	20346	MCMANUS - WEST BRUNSWICK 115KV RECONDUCTOR	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2029	11051	MEAG: PALMYRA - SLAPPEY DRIVE 115KV LINE RECONDUCTOR	6/1/2029	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2029	19630	MEAG: THOMASVILLE 230/115KV AUTOBANK REPLACEMENT	6/1/2029	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2029	20000	YATES 6 AND 7 230KV SWITCH REPLACEMENTS	6/1/2029	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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215	2030	19996	GOLDENS CREEK - WARRENTON PRIMARY 230KV REBUILD	6/1/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2030	20428	GORDON-SANDERSVILLE #1 115KV LINE REBUILD (DEEPSTEP-SAND #6)	6/1/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2030	19992	GTC: BOSTWICK - EAST SOCIAL CIRCLE 230KV RECONDUCTOR	6/1/2030	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2030	20285	LOWER RIVER - WEBB (APC) 115KV RECONDUCTOR	6/1/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2030	20264	MEAG: RAY PLACE RD - WARRENTON PRIMARY	6/1/2030	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2030	19995	TALLULAH LODGE - TOCCOA 115KV REBUILD	6/1/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
216	2030	18848	BAINBRIDGE AREA TRANSMISSION IMPROVEMENTS	12/31/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
202	2031	19632	AVERY - HOPEWELL 115KV RECONDUCTOR	6/1/2031	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	2031	20480	EAST POINT - UNION CITY 230KV BLACK LINE RECONDUCTOR	6/1/2031	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	2031	19626	EATONTON PRIMARY 115KV CAP BANK	6/1/2031	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
215	2031	20266	GTC: GOSHEN - VOGTLE 230KV REBUILD	6/1/2031	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
213	2031	20482	PITTMAN ROAD - WEST POINT DAM (USA) 115KV REBUILD	6/1/2031	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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Zone	Year	TEAMS Number	Project Name	Need Date 2023	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Estimated Cost – ITS Assigned	Totals
215	2031	14222	THOMSON PRIMARY 230/115KV SECOND TRANSFORMER	6/1/2031	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	2033	20298	EATONTON PRIMARY - LAKE OCONEE 115KV LINE REBUILD	6/1/2033	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
Total						**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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B. Cancelled Projects List – Removed from the Current 10 Year Expansion Plan

Table 3 Cancelled Projects – Removed from the Current Ten-Year Plan below briefly lists removed projects from previous year's 10 Year Expansion Plan.

Table 3 Cancelled Projects – Removed from the Current Ten-Year Plan

Zone	TEAMS	Project Name	Last Year's Need Date	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Estimated Cost – ITS Assigned	Totals
202	13653	NORTH MARIETTA - SMYRNA (BLACK & WHITE) 115KV RECONDUCTORS	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
211	20022	VILLA RICA RELAY MODERNIZATION	6/1/2024	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	19627	ECHECONNEE - WELLSTON 115KV REBUILD (N WARNER ROBINS-S WARNER ROBINS)	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	19603	GTC: SOUTH COWETA 230/115KV SECOND AUTO	6/1/2025	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	15239	SOUTH COWETA - SOUTH GRIFFIN 115KV LINE REBUILD	6/1/2025	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
212	18669	DU: DAWSON CROSSING - NELSON (WHITE) 115 KV RECONDUCTOR	6/1/2026	DU	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	20005	GTC: DRESDEN-SOUTH COWETA 230KV JUMPER REPLACEMENT	6/1/2026	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	19611	GTC: BROADWAY - DORSETT 115KV LINE	6/1/2026	GTC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	19599	MEAG: DRESDEN - YATES 230KV LINE UPGRADE & JUMPER RPLC	6/1/2027	MEAG	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	19997	AULTMAN ROAD-PERRY 115KV REBUILD	6/1/2027	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	19601	MORROW - YATES COMMON 115KV LINE UPGRADE	6/1/2028	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	20003	OHARA – SOUTH COWETA 115KV LINE REBUILD	6/1/2028	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
214	19610	BONAIRE PRIMARY - ECHECONNEE 115KV	6/1/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
208	20004	DYER ROAD – SOUTH COWETA 115KV LINE REBUILD	6/1/2030	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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212	17993	EVANS PRIMARY-THOMPSON PRIMARY 115KV RECONDUCTOR PHASE II	11/1/2032	GPC	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

C. Completed Projects List – Removed from the Current 10 Year Expansion Plan

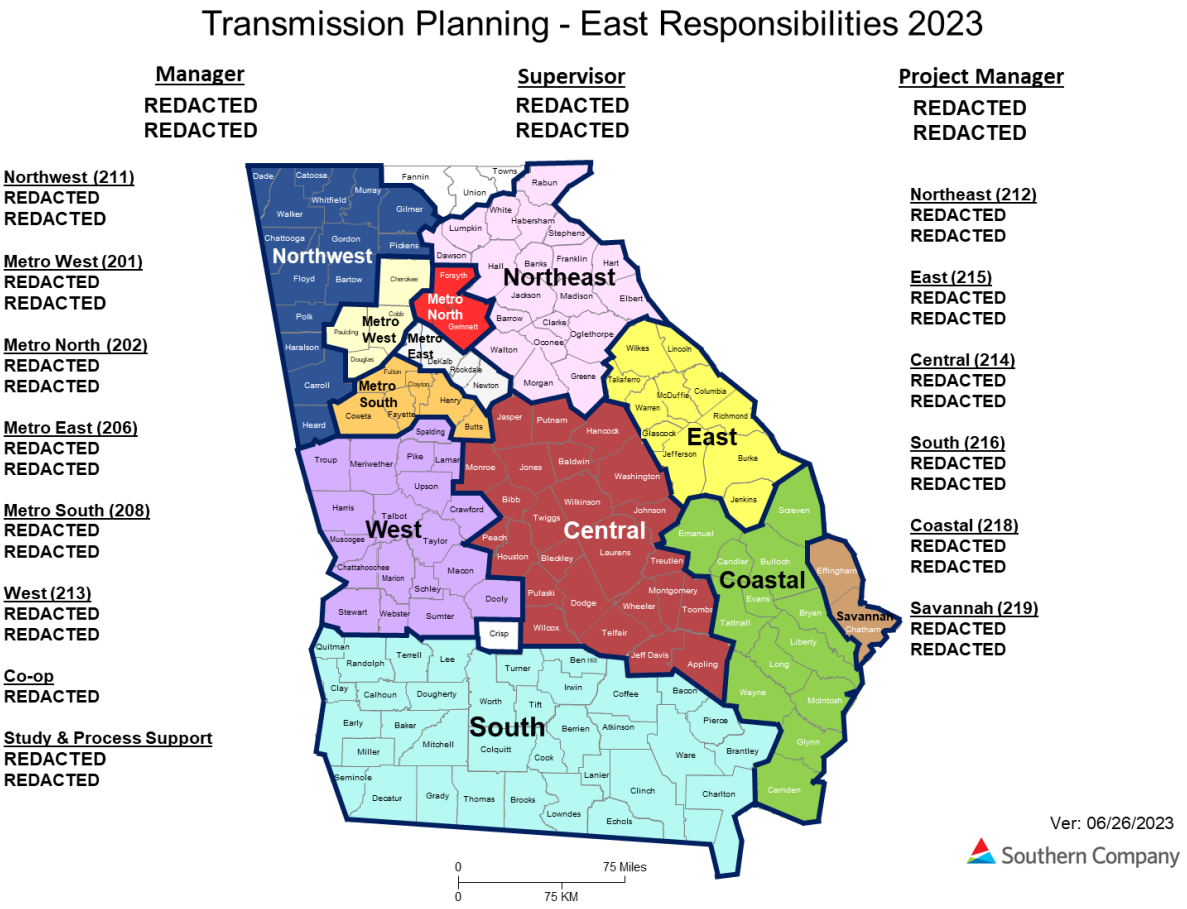
Table 4 Completed Projects – Removed from the Current Ten-Year Plan below, briefly lists projects removed from the previous year's 10 Year Expansion Plan due to In Service or Construction Completion.

Table 4 Completed Projects – Removed from the Current Ten-Year Plan

Zone	TEAMS	Project Name	Last Year's Need Date
206	18883	DAVIS STREET-FOWLER STREET JUMPER REPLACEMENTS	6/1/2023
216	11692	BULL CREEK-VICTORY 115KV LINE RECONDUCTOR	6/1/2024

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Figure 1 SCS Transmission Planning - East Responsibilities



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II. TRANSMISSION PLANNING PROCESS DESCRIPTION

A. Annual Planning Process and Base Cases

The Transmission Planning process performed by Southern Company Services - Transmission (SCST) Transmission Planning for the 10-year planning horizon is a continual process. The process ensures that the Georgia Integrated Transmission System (ITS) participants have all the information necessary to develop projects for identified system limitations to ensure compliance with all NERC Planning Standard requirements, and in time to meet individual participant budget and scheduling needs. The ITS Joint Committee for Planning and Operations will determine which ITS Participant will have construction and ownership responsibilities based upon a full consideration of surrounding issues including, but not limited to, facility ownership and the ITS parity forecast.

This report summarizes Planning Coordinator (PC) and Transmission Planner (TP) planning studies performed by SCST specifically for the Georgia ITS as described in the *Guidelines for Planning Transmission System Facility Improvements* and is consistent with the NERC TPL-001-5 Standard ("Standard").

The following sections provide an overview of maintaining system models, the detailed studies performed, which includes steady state, stability, and short circuit studies, and the resulting Projects and Operating Guides for the mitigation of identified system deficiencies.

Maintaining System Models

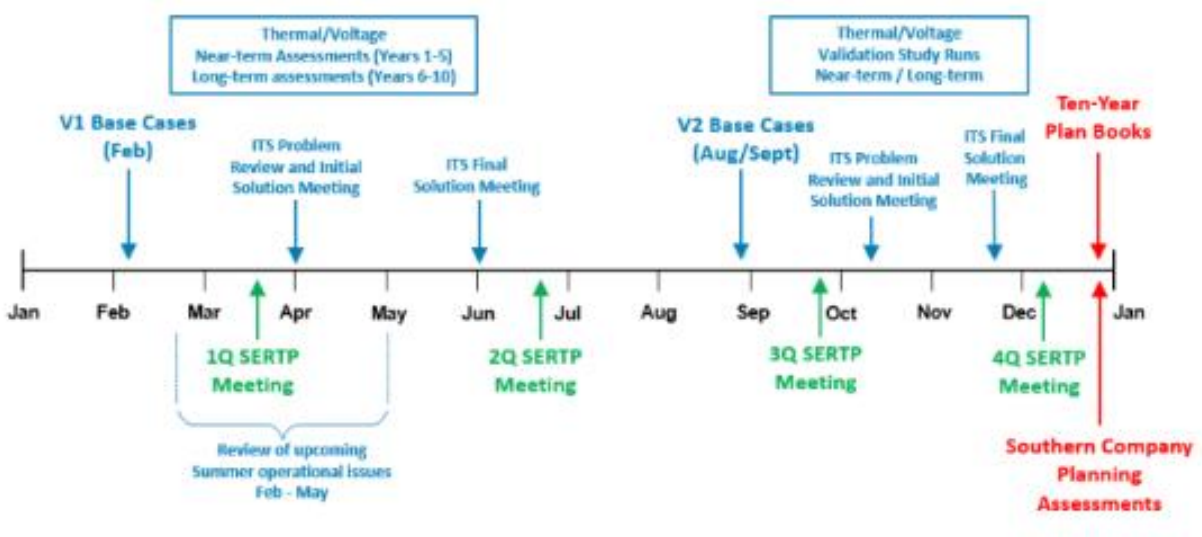
The detailed studies are performed on transmission system models ("base cases") which are updated annually based on the current 10-year forecast for Southern Balancing Authority Area (SBAA) load and generation required to serve the load. The base cases use data consistent with that provided in accordance with the NERC MOD-032 standard, supplemented by other sources as needed, including items represented in the Corrective Action Plan (CAP) and projected system conditions. The base cases include the latest available external representation of the Eastern Interconnection which is generally obtained from the Multi-Regional Modeling Working Group (MMWG) or SERC Reliability Corporation (SERC) Long Term Study Group. The base cases include the following [Requirement 1]:

1. Existing facilities.
2. Known outages of generation or transmission facilities with a duration of at least six months. All outages meeting this criterion in the near-term Transmission Planning horizon were modeled with the impacted equipment out-of-service as described in Attachment 1 of the MOD-032 Standard.
3. New planned Facilities and changes to existing Facilities. These Facilities are rated in accordance with NERC Reliability Standard FAC-008-3.
4. Real and reactive load forecasts are provided by each Load Serving Entity within the Southern Balancing Authority Area (SBAA).
5. Known commitments for Firm Transmission Service and Interchange.
6. Resources required for Load.

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The model of the SBAA is constantly changing. The base cases of the system are created on an as needed basis at least twice annually on a schedule like the one shown in Figure 2 below. This ensures that as projects are identified they are included in the analysis of future years.

Figure 2 Annual Base Case Release and Study Schedule



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Load Forecast

Refer to the Load Forecast table below for summer peak load projections by year.

Table 5 2023 Series ITS Load Forecast

REDACTED

Figure 3 Total 2023 Series ITS Summer Coincident Load Forecast

REDACTED

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Generation

Another key modeling assumption made in case development is the generation resources. Future generation assumptions for native load resources for Southern Company, GTC, MEAG, and Dalton are shown in the table in Section VI B, Generation Assumptions. The table lists both owned units and Power Purchase Agreements, for all parties at the beginning of the year. The dispatch program commits sufficient resources to satisfy the load and reserve requirements for each company in each base case or unit-out case, then adjusts the output level for each generator in the most economical manner.

Normal Open Points

The ITS evaluates normal open point configurations on the Summer Cases. The ITS has alternative transmission service paths to some loads that have radial service. The function of these alternative service paths is to shift load from one circuit path to another should the primary service path be out of service. These alternative service paths cannot remain closed without also opening the primary service path because this new configuration's system protection will not adequately protect the transmission line if operated as a network transmission line and could cause network load flow constraints.

If a normal open point change is desired, Operations and Planning will evaluate the proposed new system to ensure that the system can accommodate the request prior to reconfiguration.

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III. PERFORMANCE CRITERIA

A. Steady State Analysis

Steady state analyses were conducted to consider TPL-001-5 Table 1 Category P0-P7 Planning Events and Extreme Events in both the near-term and longer-term planning horizons for both peak and off-peak loading models. The System Peak loading model represents summer conditions. The System Shoulder loading models represent 93% of summer peak demand with hydro generation motoring off-line and includes models with solar facilities either on or off-line. This load assumption was anticipated to result in the highest system stress, except a summer peak scenario, with a significant portion of energy-limited resources projected to be off-line. Additionally, System Off-Peak cases representing 70% of the summer peak demand were evaluated. All System peak, Off-Peak, and Shoulder cases are evaluated using Rate B (95°F ambient temperature). [Requirement 2 Parts 2.1.1, 2.1.2, and 2.2.1]

Additionally, a Hot Weather case representing 107% of system peak is evaluated under ITS procedures using Rate A (104°F ambient temperature) for all equipment ratings.

All projects resulting from Steady State analysis to address any identified deficiencies have been added to the list of projects in Section IV E, Steady State Project Details.

Table 6 Steady State Transmission Planning Criteria below briefly describes the Transmission Planning steady state study methodology to meet TPL-001-5 Table 1 Contingency requirements:

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Table 6 Steady State Transmission Planning Criteria (TPL-001-5 Table 1)

Category	Initial Condition	Event	Fault Type	Study Performed – The CAP addresses facilities that did not meet the appropriate criteria
P0 No contingency	Normal System	None	N/A	Thermal and voltage analysis was performed on the SBAA System model assuming no additional outages other than those already modeled as described in the "Base Case Development" section (N-0).
P1 Single Contingency	Normal System	Loss of one of the following:	3Ø	
		1. Generator		PSS/E generator transformer branches were removed for each generator as part of N-1 contingency analysis. In some instances, more than one generator are removed in this analysis due to the outage associated with a common collector bus.
		2. Transmission Circuit		Each PSS/E branch of the SBAA System model is removed from service one at a time. This has been compared to opening breaker to breaker and found to produce the same or more severe results for the SBAA System.
		3. Transformer		Each PSS/E transformer branch of the SBAA System model is removed from service one at a time.
		4. Shunt Device		Each PSS/E shunt device of the SBAA System is removed from service one at a time.
		5. Single Pole of a DC line	SLG	Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
P2 Single Contingency	Normal System	1. Opening of a line section w/o a fault	N/A	Each PSS/E branch circuit of the SBAA System model is removed from service one at a time.
		2. Bus Section Fault	SLG	Manually defined contingencies on the SBAA System model that simulate a bus section fault are removed from service one at a time.
		3. Internal Breaker Fault (non-Bus-tie Breaker)	SLG	Manually defined contingencies on the SBAA System model that simulate an internal breaker fault (non-bus-tie breaker) are removed from service one at a time.
		4. Internal Breaker Fault (Bus-tie Breaker)	SLG	Manually defined contingencies on the SBAA System model that simulate an internal breaker fault (bus-tie breaker) are removed from service one at a time.

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Category	Initial Condition	Event	Fault Type	Study Performed – The CAP addresses facilities that did not meet the appropriate criteria
P3 Multiple Contingency	Loss of generator unit followed by System adjustments	Loss of one of the following:	3Ø	
		1. Generator		A list of the two largest generators on the SBAA System model per kV level found at any one location is developed. From this list, a set of singular unit out cases is developed and then using these cases, each one of the remaining generators on the list is removed from service one at a time resulting in an N-G-G.
		2. Transmission Circuit		A set of singular unit out cases is developed from the SBAA System model. Using these cases, each branch segment is removed from service one at a time.
		3. Transformer		A set of singular unit out cases are developed from the SBAA System model. Using these cases, each branch segment that includes a transformer is removed from service one at a time.
		4. Shunt Device		A set of singular unit out cases is developed from the SBAA System model. Using these cases, each shunt device is removed from service one at a time.
		5. Single pole of a DC line	SLG	Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
P4 Multiple Contingency (Fault plus stuck breaker)	Normal System	Loss of multiple elements caused by a stuck breaker (non-Bus-tie Breaker) attempting to clear a Fault on one of the following:	SLG	
		1. Generator		Manually defined contingencies that simulate the loss of multiple elements caused by a stuck breaker (non-bus-tie breaker) attempting to clear a Fault on a generator are removed from service one at a time.
		2. Transmission Circuit		Manually defined contingencies that simulate the loss of multiple elements caused by a stuck breaker (non-bus-tie breaker) attempting to clear a Fault on a transmission circuit are removed from service one at a time.
		3. Transformer		Manually defined contingencies that simulate the loss of multiple elements caused by a stuck breaker (non-bus-tie breaker) attempting to clear a Fault on a transformer are removed from service one at a time.
		4. Shunt Device		Manually defined contingencies that simulate the loss of multiple elements caused by a stuck breaker (non-bus-tie breaker) attempting to clear a Fault on a shunt device are removed from service one at a time. Only shunt devices expected to impact the BES are modeled as branch segments.
		5. Bus Section		Manually defined contingencies that simulate the loss of multiple elements caused by a stuck breaker (non-bus-tie breaker) attempting to clear a Fault on a bus section are removed from service one at a time.
		6. Loss of multiple elements caused by a stuck breaker (Bus-tie Breaker) attempting to clear a Fault on the associated bus	SLG	
				Manually defined contingencies that simulate the loss of multiple elements caused by a stuck breaker (bus-tie breaker) attempting to clear a Fault on the associated bus are removed from service one at a time.

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Category	Initial Condition	Event	Fault Type	Study Performed – The CAP addresses facilities that did not meet the appropriate criteria
P5 Multiple Contingency (Fault plus relay failure to operate)	Normal System	Delayed Fault Clearing due to the failure of a non-redundant relay protecting the Faulted element to operate as designed, for one of the following:	SLG	
		1. Generator		This contingency was not analyzed because a review by Southern Company Subject Matter Experts (SMEs) concluded that the most severe contingency would be a P5.5 since it would clear the entire bus. This contingency is expected to be very similar to the P5.5 contingency.
		2. Transmission Circuit		This contingency was not analyzed because a review by Southern Company SMEs concluded that the most severe contingency would be a P5.5 since it would clear the entire bus. This contingency is expected to be very similar to the P5.5 contingency.
		3. Transformer		This contingency was not analyzed because a review by Southern Company SMEs concluded that the most severe contingency would be a P5.5 since it would clear the entire bus. This contingency is expected to be very similar to the P5.5 contingency.
		4. Shunt Device		This contingency was not analyzed because a review by Southern Company SMEs concluded that the most severe contingency would be a P5.5 since it would clear the entire bus. This contingency is expected to be very similar to the P5.5 contingency.
		5. Bus Section		Simulations were run to determine which elements would open to clear the fault if a protection system failure occurred. This information was used to simulate the contingency in the steady state case.
P6 Multiple Contingency (Two overlapping singles)	Loss of one of the following followed by System adjustments. 1. Transmission Circuit 2. Transformer 3. Shunt Device 4. Single pole of a DC line	Loss of one of the following:	3Ø	
		1. Transmission Circuit		PSSE is used to rank and remove from service combinations of elements based on the severity of the impact of the loss of these combinations on the SBAA portion of the planning model.
		2. Transformer		PSSE is used to rank and remove from service combinations of elements based on the severity of the impact of the loss of these combinations on the SBAA portion of the planning model.
		3. Shunt Device		PSSE is used to rank and remove from service combinations of elements based on the severity of the impact of the loss of these combinations on the SBAA portion of the planning model. Only shunt devices expected to impact the BES are modeled as branch segments.
		4. Single pole of a DC line	SLG	Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.

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Category	Initial Condition	Event	Fault Type	Study Performed – The CAP addresses facilities that did not meet the appropriate criteria
P7 Multiple Contingency (Common Structure)	Normal System	The loss of:	SLG	
		1. Any two adjacent (vertically or horizontally) circuits on common structure		Manually defined contingencies on the SBAA System model that simulate the loss of any two adjacent (vertically or horizontally) circuits on a common structure are removed from service one at a time. These contingencies were developed by SMEs to ensure that all are captured.
		2. Loss of a bipolar DC line		Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
Extreme Events	Normal System	Variable	Variable	Extreme events with significant potential impacts were reviewed and options to mitigate the impacts identified. Events evaluated included: 1. Planning events that were mitigated using specific System adjustments. However, it was assumed the adjustments did not occur. Studies were then performed to simulate the next fault with normal clearing before the System adjustments were made. 2. Local area events affecting the Transmission System, as defined by Subject Matter Experts, including: a. Loss of a tower line with three or more circuits. b. Loss of all Transmission lines on a common Right-of-Way. c. Loss of a switching station or substation (loss of the one voltage level plus transformers). d. Loss of all generating units at a generating station. 3. No wide area events affecting the SBAA System were identified.

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Where Table 6 Steady State Transmission Planning Criteria required a generation outage as a portion of the contingency, a summary of key unit outs considered was developed and can be found in Section VI. This table shows not only the units considered but the cases in which they were used as well. Some unit outs were not needed in certain cases because the unit was already off due to the expected dispatch in the case. These selected generating units which provide more severe stress on the system have been identified through experience over many years of conducting power flow analysis based upon their relative size, location, or other factors.

Steady State Sensitivity Analysis

The Standard requires additional Sensitivity Studies to be performed to demonstrate the impact of changes to the basic assumptions used in the base cases. The sensitivity selected was the availability of hydroelectric generation. This sensitivity was evaluated utilizing the criteria described in TPL-001-5 Table 1. The analysis was performed on all years of the Near-Term and Long-Term Planning Horizons using Off-Peak conditions with the availability of hydroelectric generation and on System Shoulder conditions, which represent 93% of System peak and the unavailability of hydroelectric generation. [Requirement 2 Part 2.1.4]

Steady State Equipment Sparing Analysis

The Transmission equipment sparing strategy is reviewed annually to identify Transmission equipment without a spare and has a replacement lead time greater than one year. Each piece of equipment was individually modeled as unavailable and evaluated for P0, P1, and P2 events using System peak, Off-Peak, and the sensitivity cases. [Requirement 2 Part 2.1.5]

B. Stability Analysis

Stability studies were conducted to consider P1 - P7 Planning Events and Extreme Events in the Near-Term planning horizon. The simulations were made for System Peak Load conditions and for System Off-Peak load (approximately 50% of System peak load) conditions, for one of the five years in the Near-Term planning horizon. The System peak cases included a dynamic Load model which represents the expected dynamic behavior of induction motor Load that could impact the study area. The light System load level of 50% of System peak load was chosen to be the lowest load level for which base load units are running at maximum output - a worst case for angular stability.

All projects resulting from Stability analysis to address any identified deficiencies have been added to the list of projects in Section IV B, Stability Project Details.

Table 7 Stability Transmission Planning Performance briefly describes the Transmission Planning stability study methodology to meet TPL-001-5 Table 1 performance requirements:

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Table 7 Stability Transmission Planning Performance Requirements (TPL-001-5 Table 1)

Category	Initial Condition	Event	Fault Type	Study Performed – The CAP addresses facilities that did not meet the appropriate performance requirements
P1 Single Contingency	Normal System	Loss of one of the following:	3Ø	A study was conducted which applied a normally-cleared, three-phase fault on every transmission line (P1.2) and transformer (P1.3) in the SBAA. Faults on generators (P1.1) will not be as severe because fault clearing will result in tripping a unit which is better for stability. Faults on shunt devices (P1.4) will also not be as severe because tripping a shunt device does not result in weakening the System as compared to tripping a transmission line or transformer. Thus, P1.1 and P1.4 were not explicitly studied.
		1. Generator		
		2. Transmission Circuit		
		3. Transformer		
		4. Shunt Device		
		5. Single Pole of a DC line	SLG	Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
P2 Single Contingency	Normal System	1. Opening of a line section w/o a fault	N/A	Opening a line end without a fault will never cause a stability concern that has not already been identified by a category P1 event.
		2. Bus Section Fault	SLG	Planning events P2.2, P2.3, and P2.4 require single line to ground faults to be applied to bus sections or internal to breakers. These will always be less severe than a three-phase fault which will be covered by the extreme events specified inTPL-001-5 Table 1 Stability events 2.d and 2.e. When the three-phase faults in the extreme events result in instability, a solution will generally be included in the CAP. If situations should occur where the CAP is not used to address three-phase faults which resulted in instability, then the single line to ground fault will be investigated and appropriate corrective action included as needed.
		3. Internal Breaker Fault (non-Bus-tie Breaker)	SLG	
		4. Internal Breaker Fault (Bus-tie Breaker)	SLG	
P3 Multiple Contingency	Loss of generator unit followed by System adjustments	Loss of one of the following:	3Ø	The initial System condition of a generator being out of service is generally not a stability concern because less generation is better for transient stability. A generator out is only a potential stability concern for peak load levels in FIDVR prone areas and, therefore was studied only in FIDVR prone areas.
		1. Generator		
		2. Transmission Circuit		
		3. Transformer		
		4. Shunt Device		
		5. Single pole of a DC line	SLG	Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
P4 Multiple Contingency (Fault plus stuck breaker)	Normal System	Loss of multiple elements caused by a stuck breaker (non-Bus-tie Breaker) attempting to clear a Fault on one of the following:	SLG	Planning events P4.1 through P4.6 require single line to ground faults to be applied to generators, Transmission circuits, transformers, shunt devices, and bus sections with delayed clearing due to a stuck breaker. These will always be less severe than a three-phase fault which will be covered by Extreme Events specified in TPL-001-5 Table 1 Stability events 2.a through 2e. When a three-phase fault scenario considered in the extreme events result in instability, a solution will generally be included in the CAP. If a situation should occur where the CAP is not used to address three-phase faults which result in instability, then the single line to ground fault was investigated and the appropriate corrective action was included as needed.
		1. Generator		
		2. Transmission Circuit		
		3. Transformer		
		4. Shunt Device		
		5. Bus Section		

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		6. Loss of multiple elements caused by a stuck breaker (Bus-tie Breaker) attempting to clear a Fault on the associated bus	SLG	
P5 Multiple Contingency (Fault plus relay failure to operate)	Normal System	Delayed Fault Clearing due to the failure of a non-redundant relay protecting the Faulted element to operate as designed, for one of the following: 1. Generator 2. Transmission Circuit 3. Transformer 4. Shunt Device 5. Bus Section	SLG	Planning events P5.1 through P5.5 require single-line-to-ground faults to be applied to generators, Transmission circuits, transformers, shunt devices, and bus sections with delayed clearing due to a relay failure. Single line to ground faults will be less severe than a three-phase fault which will be covered by R4.5 extreme events specified inTPL-001-5 Table 1 Stability events 2.a through 2e. When the three-phase faults evaluated in the R4.5 extreme events resulted in instability, a solution was included in the CAP. In situations where the CAP was not used to address three-phase faults which resulted in instability, then the single line to ground fault was investigated and appropriate corrective action included as needed.
P6 Multiple Contingency (Two overlapping singles)	Loss of one of the following followed by System adjustments. 1. Transmission Circuit 2. Transformer 3. Shunt Device 4. Single pole of a DC line	Loss of one of the following: 1. Transmission Circuit 2. Transformer 3. Shunt Device	3Ø	Studies were performed with a Transmission element (P6.1 and P6.2) out of service at generating plants on the System. Then a three-phase, normally cleared fault was studied on another element at the generating plant. If the generators are not stable for this contingency, then a System adjustment or a CAP project was implemented to make sure that the generation remained stable. Faults on shunt devices (P6.3) were not as severe because tripping a shunt device does not result in weakening the System as compared to tripping a transmission line or transformer. Thus, P6.3 was not explicitly studied.
		4. Single pole of a DC line	SLG	Not applicable as HVDC lines are not currently installed in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
P7 Multiple Contingency (Common Structure)	Normal System	The loss of: 1. Any two adjacent (vertically or horizontally) circuits on common structure	SLG	Single-line-to-ground faults will be simulated on two transmission lines at a generating plant that share a common tower for distances greater than one mile. The circuits to be studied were ones at generating plants which would have the most impact on stability.
		2. Loss of a bipolar DC line		Not applicable as HVDC lines are not currently utilized in the SBAA System and no HVDC lines outside of the SBAA have been identified by adjacent PCs and TPs as affecting the SBAA System in the planning horizon.
Extreme Events				Lists of contingencies which are expected to produce more severe System impacts for extreme events were created for evaluation in the stability studies. These events were divided into two categories: 1. Planning events that were mitigated using specific System adjustments (resulting in temporary SOL's for Operations). Those adjustments should be assumed not to have occurred. Studies were made of the consequences of having the next three-phase fault with normal clearing before the System adjustments are made. 2. Three-phase faults with delayed clearing due to a stuck breaker or a relay failure. These contingencies were applied to generators, Transmission circuits, transformers, shunt devices, and bus sections at or near generating plants. These will have the most severe impact to the stability of the System.

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Stability Past Studies

Past studies were utilized in some situations to demonstrate that performance requirements were met. For each category considered (i.e., P1 - P7 and Extreme Events), past studies were evaluated per requirements R2.6.1 and R2.6.2 of the Standard to ensure that they met the following criteria:

- Less than five years old unless a technical rationale supporting that the results of an older study are still valid;
- No material changes have occurred to the System represented in the study.

All past studies utilized in the assessment met the above criteria. [Requirement 2.6.1 and 2.6.2]

Stability Sensitivity Analysis (Near-Term Planning Horizon)

Requirement R2.4.3 of the Standard requires that additional sensitivity studies be performed to demonstrate the effects of various modeling assumptions used in the analysis. For the system stability studies completed, which used the standard base case, the following sensitivities were evaluated:

- For 50% System peak load cases, local generation was increased to maximum output.
- For System peak load cases, the percentage of induction motor load that was modeled at each bus with a dynamic load model was increased.

For the studies in which an area generator output sensitivity was evaluated, those studies modified the output of the generator beyond the amount specified by the base dispatch (i.e., all generation in proximity to the study area was dispatched at full output whether the unit had firm service for full output or not). This study practice resulted in the most conservative results possible; thus, it was not necessary to study additional sensitivities. The sensitivity analysis revealed no new constraints. [Requirement 2.4.3]

Steady State Coordination with Adjacent Systems

In addition to contingencies on the GA ITS system, contingencies provided by neighboring systems in accordance with TPL-001-5 Requirement 3.4.1 are analyzed as a part of the annual study process. These neighboring systems are also monitored as part of all studies to determine if any contingencies on the ITS system have the potential to impact them. If potential impacts to neighboring systems are identified, the impacted neighbor is notified of those contingencies per the requirement.

Long-Term Stability Analysis

Stability studies were also conducted as needed in the Long-Term planning horizon to address the impact of material generation additions or changes in that time frame. Forecasted generation in the Long-Term transmission planning horizon that does not have firm service or has not been designated by an entity does not require a stability study. Only new generation for which a firm commitment to build has been made requires a unit specific stability study. [Requirement 2.5]

C. Short Circuit Analysis

The short circuit (breaker duty) assessment was performed by Southern Company Services Protection & Control Applications for the Near-Term planning horizon. The base case model used for this assessment included all existing facilities (transmission and generation) and planned facilities based on forecasted

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generation and future years' transmission expansion plan. The real and reactive Load forecasts and known commitments for Firm Transmission Service and Interchange were not represented in the models as they were not relevant to this assessment. The study methodology for short circuit analysis employs the Breaker Duty Module with the CAPE Short Circuit Analysis program to calculate margin between fault interrupting device capability and short circuit level at that location. The short circuit currents are at the highest with maximum generation online and with N-0 transmission contingency. Hence, no outages are considered in this assessment. [Requirement 2 Part 2.3]

The assessment is conducted annually for the Near-Term planning horizon to ensure that the fault interrupting devices can successfully interrupt the expected short circuit currents consistent with the Standard and *Guidelines for Short Circuit System Modeling and Short Circuit Assessment of The Southern Company Electric Transmission System*.

All projects resulting from that analysis to address any identified deficiencies have been added to the list of projects in Section IV C, Short Circuit Project Details. [Requirement 2 Parts 2.3, 2.6 and 2.8]

D. Interface Transfer Capability Assessments

The transfer capability assessments are used to identify transmission facilities that may potentially limit the ITS Participants ability to maintain its long-term firm obligations across the SBAA interfaces. Linear transfer analysis is performed to simulate an incremental transfer in addition to firm transactions already modeled in the base cases. To reduce sensitivities to local generation dispatch issues, each transfer is simulated by scaling load uniformly in the participating areas. Transfer Distribution Factors (TDFs) are considered in evaluating potential limitations to transfers across each interface. In the identification of limiting facilities, known and applicable System Operating Limits ("SOLs") are respected. The assumptions, description of system models, summary of each interface's transfer capability limitations and resulting projects are detailed in a report that is provided to Transmission Planning for inclusion in the results of this document.

The interfaces of the SBAA are evaluated annually as part of the transmission planning process. The analysis is performed to ensure that the Southern Balancing Authority can meet all long-term, firm transmission commitments and reliability reserve margins.

All projects resulting from that analysis to address any identified deficiencies have been added to the list of projects in Section IV D, Interface Transfer Capability Project Details.

Northern Interface

For the Northern interfaces of MISO, TVA, Duke Energy, Santee Cooper, and Dominion Energy – South Carolina, transferring power across one interface may mutually impact the ability to transfer power across other interfaces. Therefore, transfer capability assessments for the "northern" interfaces of the SBAA are evaluated in such a way as to ensure not only that there is sufficient transfer capability to accommodate all firm transactions across a particular interface, but also that there is sufficient transfer capability to accommodate all firm obligations simultaneously across all the "northern" interfaces. Furthermore, the assessments consider potential "netting" impacts. If "netting" transfers (transfers of opposing flow) are allowed to remain in the assessment cases, potential problems may be masked in certain real-time situations

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when the transfers of opposing flow are not scheduled. Therefore, these opposing flow transfers may be removed to ensure that the most conservative screens are performed.

Florida Interface

The SBAA – FRCC interface consists of ties with multiple companies within FRCC: Florida Power and Light Company (FPL), DUKE Energy of Florida (DEF), Jacksonville Electric Authority (JEA), and the City of Tallahassee (TAL); collectively "Florida." It is important to note that the Florida interface is fundamentally radial from the SBAA and the transmission facilities in the connecting balancing authorities have a high-level of interdependence. To ensure the most conservative screens are performed, impacts from "netting" are considered in the same manner as the Northern Interface.

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IV. ANALYSIS RESULTS

A. Operating Guides

The use of operating guides is, in many cases, a viable alternative to making system improvements. In considering the use of an operating guide, operator action time as well as procedure complexity must be assessed when considering the overall effectiveness to correct the specific problem. If, for any reason, the use of an operating guide results in a violation of the aforementioned risk assessment factors, then the operating guide is not used.

Since risk and complexity are factors that the system operator will have to deal with when an operating guide is necessary, all operating guides that Transmission Planning identifies as well as tests are reviewed by Georgia Power Transmission Operations Department. The only exception to this is if an operating guide is developed for use in the future after significant system upgrades have been made and Operations cannot replicate the projected system conditions. All operating guides are re-evaluated with each planning cycle to determine if they are still appropriate or should be replaced with a project, and if a project is more appropriate that there is sufficient time to get the project installed.

The following table lists the thermal and voltage operating guides which were used in the development of the ten-year plan.

Table 8 Thermal and Voltage Operating Guides

Line Name (Breaker to Breaker)	OG Start Date	OG End Date	Operating Guide Procedure
Hammond - Weiss Dam 115 kV Operating Guide	1/1/2024	12/31/2024	**REDACTED**
Blankets Creek - Woodstock 115 kV Operating Guide	1/1/2024	12/31/2025	**REDACTED**
Jesup - Ludowici Primary 115KV Operating Guide	6/1/2024	10/1/2024	**REDACTED**
Morrow - Yates Common 115kV Operating Guide (Pre-contingency)	6/1/2024	12/1/2026	**REDACTED**
Kia Motors - Pittman Road 115kV Operating Guide	6/1/2024	6/1/2026	**REDACTED** **REDACTED**
Pittman Road - West Point Dam 115kV Operating Guide	6/1/2024	6/1/2027	**REDACTED**
Fortson - Lagrange 230kV Operating Guide	6/1/2024	6/1/2026	**REDACTED** **REDACTED** **REDACTED**
Augusta Corporate Park - Vogtle 230kV Operating Guide	6/1/2024	6/1/2028	**REDACTED**
Evans Primary - Thomson Primary 115kV Operating Guide	6/1/2024	6/1/2026	**REDACTED** **REDACTED**
Thomson Primary 230/115kV Bank C Operating Guide	6/1/2024	6/1/2026	**REDACTED** **REDACTED**
Athena - East Watkinsville 115kV Operating Guide	6/1/2024	12/31/2026	**REDACTED** **REDACTED**
Dawson Crossing - Nelson (White) 115kV Operating Guide	6/1/2024	6/1/2026	**REDACTED** **REDACTED**
Daisy - West Valdosta 230kV Operating Guide	6/1/2024	6/1/2026	**REDACTED** **REDACTED**

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Line Name (Breaker to Breaker)	OG Start Date	OG End Date	Operating Guide Procedure
			REDACTED REDACTED
Raccoon Creek – Scooter 230 KV Operating Guide	6/1/2024	6/1/2026	REDACTED
Gordon - North Dublin 115kV Operating Guide (Pre-Contingency)	6/1/2024	6/1/2026	REDACTED REDACTED
Lloyd Shoals - Porterdale Primary 115kV Operating Guide (Pre-contingency)	6/1/2024	6/1/2027	REDACTED REDACTED
Jonesboro - Ohara 230kV Operating Guide	6/1/2024	6/1/2027	REDACTED REDACTED
South Coweta 230/115kV Bank A Operating Guide	6/1/2024	12/1/2026	REDACTED REDACTED
Branch-Newborn-Oasis 230kV Operating Guide	6/1/2024	6/1/2025	REDACTED REDACTED
Eatonton Primary - Oasis 230kV Operating Guide	6/1/2024	6/1/2025	REDACTED
Ray Place Road- Warrenton Primary 115kV Operating Guide	6/1/2024	6/1/2026	REDACTED
Branch-Eatonton Primary #2 230kV Operating Guide	6/1/2024	6/1/2025	REDACTED REDACTED
Branch - Tiger Creek (Black & White) 230kV Operating Guide	6/1/2024	6/1/2026	REDACTED
Sandersville #1-Wadley 115kV Operating Guide (Pre-Contingency)	6/1/2024	6/1/2026	REDACTED
Center Primary - Commerce Primary 115kV Operating Guide	6/1/2024	6/1/2028	REDACTED
Goshen - Vogtle 230kV Operating Guide	6/1/2024	6/1/2026	REDACTED
Arkwright-Lloyd Shoals 115kV Operating Guide	6/1/2024	6/1/2026	REDACTED REDACTED
Dyer Road - East Roanoke (APC) 115kV Operating Guide (Pre-Contingency 2024)	6/1/2024	6/1/2027	REDACTED REDACTED
Mitchell - North Tifton 230kV Operating Guide	6/1/2025	6/1/2025	REDACTED REDACTED REDACTED
Mitchell – Raccoon Creek 230kV Operating Guide	6/1/2025	6/1/2025	REDACTED REDACTED REDACTED
Bay Creek – Snellville Primary 115kV Operating Guide	6/1/2025	6/1/226	REDACTED
Branch-Eatonton Primary #2 230kV Operating Guide	6/1/2025	6/1/2026	REDACTED REDACTED
Gordon-Sandersville #1 115kV Operating Guide (Pre-Contingency)	6/1/2025	6/1/2026	REDACTED
Corn Crib - Thomaston 115kV Operating Guide	6/1/2025	12/1/2028	REDACTED REDACTED
McManus-West Brunswick 115kV Operating Guide	6/1/2025	6/1/2028	REDACTED REDACTED
Moultrie - Thomasville 115kV Operating Guide	6/1/2026	6/1/2026	REDACTED
Bay Creek - Monroe 115kV Operating Guide	6/1/2027	6/1/2028	REDACTED REDACTED
Coosawattee - East Dalton 115 kV Operating Guide	6/1/2027	6/1/2028	REDACTED

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B. Stability Project Details

The following group of projects are the result of the Stability studies conducted as needed in the Long-Term Planning Horizon to address the impact of material generation additions or changes for the TPL-001-5 Table 1.

The following information is included for each project:

1) project justification,
2) schedule for implementation (start date), and
3) expected required in-service date.

For transmission improvements, the start date is to provide necessary lead time to ensure the expected required in-service date can be met.

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GTC: MIDDLE FORK STATCOM SYSTEM

Teams # 19340

Need Date 06/01/2024 **Start Date** 12/01/2021

Description

Install a +150/-150 MVAR STATCOM connected to the 230kV bus at Middle Fork.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MCGRAU FORD STATCOM SYSTEM

Teams # 19305

Need Date 06/01/2024 **Start Date** 12/01/2021

Description

Install a +150/-150 MVAR STATCOM connected to the 230kV bus at McGrau Ford.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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EAST POINT RELAY MODERNIZATION

Teams # 20491

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Upgrade protection on 230kV buses, 115kV buses, and 230/115kV autotransformer at the East Point station. Add adequate monitoring on DC supply.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GRADY 230/115KV NEW BREAKER AND RELAY MODERNIZATION

Teams # 20474

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Upgrade protection on 230kV bus, all 115kV buses, and both 230/115kV autotransformers at Grady. Add adequate monitoring on DC supply. Install a 230kV breaker and associated switches on the high side of Grady 230/115kV autotransformer D.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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KLONDIKE RELAY MODERNIZATION

Teams # 20490

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Upgrade protection on 230kV buses at the Klondike station. Add adequate monitoring on DC supply.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MORROW 115KV RELAY UPGRADE

Teams # 20300

Need Date 06/01/2026 **Start Date** 06/01/2024

Description

Upgrade protection scheme on all three 115kV buses at Morrow.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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SCOTTDALE RELAY MODERNIZATION

Teams # 20489

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Upgrade protection on 230kV bus and 230/115kV autotransformer at the Scottdale station. Add adequate monitoring on DC supply.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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C. Short Circuit Project Details

The following group of projects are the result of the Short Circuit analyses performed by the Southern company Services Protection and Control Department.

The following information is included for each project:

1) project justification,
2) schedule for implementation (start date), and
3) expected required in-service date.

For transmission improvements, the start date is to provide necessary lead time to ensure the expected required in-service date can be met.

No new projects were identified in the 2023 Ten Year Plan as the result of Short Circuit analyses.

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D. Interface Transfer Capability Project Details

The following projects are the result of the Interface Transfer Capability Assessments analyses performed by the Southern Company Services Transmission Planning OATT Studies & Regional Planning Department.

The following information is included for each project:

1) project justification,
2) schedule for implementation (start date), and
3) expected required in-service date.

For transmission improvements, the start date is to provide necessary lead time to ensure the expected required in-service date can be met.

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MCINTOSH - PURRYSBURG 230KV REACTORS

Teams # 20277

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Install 1.5% reactors, with a rating of at least 4000A, on the McIntosh-Purrysburg (Black and White) 230kV tie lines at McIntosh.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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E. Steady State Project Details

The following projects are the result of the Steady State analyses for the TPL-001-5 Table 1 Category P0, P1, and P2.3 EHV Planning Events in both the near-term and longer-term planning horizons for both peak and off-peak loading models.

The following information is included for each project:

1) project justification,
2) schedule for implementation (start date), and
3) expected required in-service date.

For transmission improvements, the start date is to provide necessary lead time to ensure the expected required in-service date can be met.

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ARKWRIGHT - LLOYD SHOALS 115 KV LINE RECONDUCTOR

Teams # 12016

Need Date 06/01/2024 **Start Date** 06/01/2021

Description

Reconductor the Arkwright - Lloyd Shoals 115kV line with 100C 795 ACSC.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ARKWRIGHT - SOUTH MACON (BLACK) 115KV LINE REBUILD

Teams # 20017

Need Date 06/01/2024 **Start Date** 01/15/2023

Description

Replace Jumper CU 4/0 at Arkwright substation with higher rating and rebuild 2.38 miles of line from Arkwright to Town Creek J1 to 100C 795 ACSR.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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CORN CRIB - LAGRANGE 115KV LINE REBUILD

Teams # 18671

Need Date 06/01/2024 **Start Date** 12/01/2022

Description

Reconductor 10.9 miles of 100C 477 ACSR, from Lagrange Bus 1 up to Hogansville #2 Junction of the Corn Crib - Lagrange 115kV line with 100C 1351.5 ACSR.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: RIDDLEVILLE BUS REPLACEMENT

Teams # 19622

Need Date 06/01/2024 **Start Date** 01/09/2023

Description

GTC will replace the main 115kV bus at Riddleville substation with rating higher.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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KINGSLAND BANK C REPLACEMENT

Teams # 19028

Need Date 06/01/2024 **Start Date** 10/01/2021

Description

Replace 160MVA, 230/115kV autotransformer C with a 300MVA, 230/115kV autotransformer.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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KLONDIKE SWITCH REPLACEMENT

Teams # 18104

Need Date 06/01/2024 **Start Date** 01/01/2022

Description

Replace the existing 2500A, 500kV switch located in the Norcross 500kV line bay with a 4000A switch.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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NORCROSS 230KV BUS 2-3 SERIES BUS TIE BREAKER INSTALLATION

Teams # 20006

Need Date 06/01/2024 **Start Date** 06/01/2023

Description

Install a bus tie breaker in series with existing bus tie breaker between 230kV Bus 2 and Bus 3 at Norcross.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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PINE GROVE PRIMARY BANK B REPLACEMENT

Teams # 19019

Need Date 06/01/2024 **Start Date** 12/01/2021

Description

Replace 230/115kV autotransformer B with a 400 MVA autotransformer.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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THOMSON PRI - WARRENTON PRI 115KV WHITE LINE REBUILD

Teams # 14271

Need Date 06/01/2024 **Start Date** 03/12/2022

Description

Reconductor the Thomson Primary - Warrenton Primary (White) 115kV line (16.8 mi) with 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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WARRENTON PRIMARY 230KV SWITCHES AND JUMPER REPLACEMENT

Teams # 19625

Need Date 06/01/2024 **Start Date** 01/01/2023

Description

Replace existing 1200A switches with 2000A switches at Warrenton Primary side. Also, replace existing 1590 AAC Coreopsis jumpers at Warrenton Primary ends with at least 2-1590 AAC jumpers.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: JUDY MOUNTAIN SHUNT REACTOR

Teams # 19341

Need Date 12/01/2024 **Start Date** 02/01/2021

Description

GTC will install a 150 MVAR shunt reactor set at Judy Mountain connected to the 230kV bus.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: UNION CITY 230KV BUS TIE

Teams # 20021

Need Date 12/01/2024 **Start Date** 06/01/2023

Description

GTC will construct a 230kV bus tie at Union City, with a 2000A breaker.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: HEARD COUNTY - TENASKA 500KV (SECOND LINE)

Teams # 18774

Need Date 12/31/2024 **Start Date** 12/01/2021

Description

GTC: Build a second Heard County - Tenaska 500kV line, 0.8 miles, with 100C (3) 1113 ACSR Bluejay conductors. Add a 500 kV breaker at Heard County.
GPC: Add a 500kV breaker at Tenaska.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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CC - MICROSOFT - SHUGART

Teams # 18736

Need Date 12/31/2024 **Start Date** 12/31/2022

Description

GPC will rebuild the Line Creek 230kV substation as breaker and a half configuration and connect the Morrow - Yates 230kV line and the Union City - Yates 230kV White line into Line Creek. For the Union City - Yates 230kV Black line, terminate the line from the Yates side into Shugart Farms, and the line from the Union City side into Line Creek. Build two short lines from Line Creek to Shugart Farms (0.3 miles each) with 100C 1351 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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QCELLS HILL VIEW 230 KV & GRASSY HOLLOW SWITCHING STATIONS

Teams # 20150

Need Date 12/31/2024 **Start Date** 06/01/2023

Description

GPC will build the Cass Pine area substation, Greta Valley customer substation, Hill View switching station, Grassy Hollow switching station, and 22.6 miles of new 230kV lines to serve new customer load in the area.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ADAMSVILLE - JACK MCDONOUGH 230KV LINE REBUILD

Teams # 19676

Need Date 06/01/2025 **Start Date** 06/01/2023

Description

Rebuild the entire 6.1 mile Adamsville - Jack McDonough 230kV line with 160C 1351 ACSS.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BANKS CROSSING - POND FORK 115 KV

Teams # 18670

Need Date 06/01/2025 **Start Date** 06/01/2021

Description

GTC will build a new 115kV line from McClure Industrial to structure 21N on the Ridgeway Church Road Junction or tap point (approximately 3 miles). Close normally open switch at Ridgeway Church Road to establish the Banks Crossing - Pond Fork 115kV line. All new conductors should be 100C 1351 ACSR Martin.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BONAIRE PRI-ECHECONNEE 115 KV (BONAIRE-RUSSELL PKWY) REBUILD

Teams # 18153

Need Date 06/01/2025 **Start Date** 01/01/2023

Description

Reconductor the Bonaire Primary - Russell Parkway Junction section of the line (2.3 miles) with 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BREMEN - CROOKED CREEK (APC) 115KV

Teams # 19187

Need Date 06/01/2025 **Start Date** 09/01/2021

Description

Rebuild from Bremen to Indian Creek Road, on the Bremen - Crooked Creek 115kV line, (14.0 miles), using 795 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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DEPTFORD - MAGNOLIA 115KV REBUILD

Teams # 20067

Need Date 06/01/2025 **Start Date** 06/01/2025

Description

Rebuild the Deptford-Magnolia 115kV line (approximately 5 miles) using 100C 1351 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2027

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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EAST DALTON JUMPER REPLACEMENT

Teams # 20430

Need Date 06/01/2025 **Start Date** 01/01/2024

Description

Replace the line-side 500 Copper jumpers on the East Dalton - Oostanaula 115kV line termination at East Dalton substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ECHECONNEE-WELLSTON 115KV REBUILD

Teams # 18800

Need Date 06/01/2025 **Start Date** 01/01/2024

Description

Reconductor the South Warner Robins - Wellston section (1.2 miles) with 100C 1351.5 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GARRETT ROAD SWITCHING STATION - TRAE LANE NETWORK UPGRADES

Teams # 20243

Need Date 06/01/2025 **Start Date** 04/30/2023

Description

GPC will build a new switching station to connect a new 230kV line to a customer substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: CAMDEN INDUSTRIAL PARK 230/115KV

Teams # 20342

Need Date 06/01/2025 **Start Date** 01/01/2024

Description

GTC will construct a new 230/115kV substation with a three element 230kV ring bus, two element 115kV ring bus, and one new 230/115kV 400MVA transformer. This station will be looped into the Colerain - Thalmann 230kV. Construct a 0.1 mile 115kV line to Kinlaw substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: EATONTON PRIMARY - LICK CREEK 115KV LINE SWITCH REPLACEMENT

Teams # 20590

Need Date 06/01/2025 **Start Date** 12/01/2023

Description

GTC will replace line switch with a 1200A RLB switch with motor operator and SCADA controls. This switch is located on GTC's Eatonton Primary - Lick Creek 115kV section of the Eatonton Primary - Lake Oconee 115kV Line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: LIZARD LOPE - WESTOVER 115 KV

Teams # 18691

Need Date 06/01/2025 **Start Date** 06/01/2021

Description

GTC will construct a new station Lizard Lope, which will be north of Cordrays Mills and a station Westover, east of Gillionville. GTC will build a 19.8 mile 115kV line from Lizard Lope to Gillionville Substation using 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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JESUP - LUDOWICI PRIMARY 115KV REBUILD

Teams # 11821

Need Date 06/01/2025 **Start Date** 06/01/2023

Description

Reconductor 7.5 miles of 100C 336.4 ACSR Linnet conductor along the Jesup-Ludowici Primary 115kV line, from Jesup to Rayonier, using 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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LITTLE OGEECHEE REDUNDANT RELAY PROJECT

Teams # 17075

Need Date 06/01/2025 **Start Date** 06/01/2022

Description

Install an additional 115kV bus current differential protection scheme for both North & South 115kV busses.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: ALCOVY ROAD - SKC 115 KV RECONDUCTOR

Teams # 13753

Need Date 06/01/2025 **Start Date** 06/01/2023

Description

MEAG will reconductor approximately 0.53 miles of 100C 336 ACSR conductor with 100C 1033 ACSR conductor from Alcovy Road to Alcovy Road Jct. on the Alcovy Road - SKC 115kV line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: AULTMAN ROAD - BONAIRE PRIMARY 115 KV REBUILD

Teams # 13787

Need Date 06/01/2025 **Start Date** 06/01/2023

Description

MEAG: Reconductor the 1.99 miles, Sleepy Hollow - Peach Blossom 115kV line section (presently 100C 336 ACSR) of the Aultman Road - Bonaire Primary 115kV line, with 100C 795 ACSR.
GTC: Replace the jumpers at Sleepy Hollow with 1590 AAC.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: BRUMBLEY CREEK - SOUTH BAINBRIDGE 115KV REBUILD

Teams # 19629

Need Date 06/01/2025 **Start Date** 01/01/2024

Description

MEAG will rebuild segment from line tap into Roddenbery station on the South Bainbridge - Thomasville 115kV line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2030

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: FORTSON 230KV REDUNDANT RELAY

Teams # 18832

Need Date 06/01/2025 **Start Date** 01/01/2023

Description

Add a redundant relay scheme at Fortson. This is a small part of a larger substation modernization project.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MITCHELL - NORTH TIFTON 230KV RECONDUCTOR

Teams # 18492

Need Date 06/01/2025 **Start Date** 12/31/2021

Description

GPC will reconductor 35.21 miles of 100C 795 ACSR with 100C 1351 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2026

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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NORCROSS 230KV BUS 1-3 SERIES BUS TIE BREAKER INSTALLATION

Teams # 20464

Need Date 06/01/2025 **Start Date** 11/01/2023

Description

Install a bus tie breaker in series with existing bus tie breaker between 230kV Bus 1 and Bus 3 at Norcross.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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PALMYRA REACTOR REMOVAL

Teams # 18690

Need Date 06/01/2025 **Start Date** 05/01/2023

Description

Remove the 6% reactors installed at the Palmyra Substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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PINE GROVE PRIMARY 115 KV DUAL STAGE CAPACITOR BANK

Teams # 19631

Need Date 06/01/2025 **Start Date** 11/01/2023

Description

Install two-stage 30MVAR capacitor bank (60MVAR) at Pine Grove Primary.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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SMART VALVE INSTALLATION

Teams # 20466

Need Date 06/01/2025 **Start Date** 10/01/2023

Description

Installation of Smart Valve devices at the Eatonton Primary substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: ROBINS SPRING BUS REPLACEMENT

Teams # 19999

Need Date 12/01/2025 **Start Date** 06/01/2023

Description

GTC will replace the main 115kV bus 90C ACSR 336.4 Linnet conductor with higher rating.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2030

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: ROBINS SPRING CAPACITOR BANK INSTALLATION

Teams # 20001

Need Date 12/01/2025 **Start Date** 01/01/2023

Description

GTC will install a 115kV 2-stage 22.5MVAR (45MVAR total) capacitor bank at Robins Spring.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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JEFFERSON STREET#3 - NORTHWEST (WHITE) 115 KV RECONDUCTOR

Teams # 18889

Need Date 12/01/2025 **Start Date** 01/01/20234

Description

Rebuild approximately 1.2 miles of transmission line with 200C 1351 ACSS conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ANTHONY SHOALS STATCOM SYSTEM

Teams # 20326

Need Date 12/31/2025 **Start Date** 08/04/2023

Description

Install a +150/-150 MVAR turnkey STATCOM system at Anthony Shoals 230kV.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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CC - PROJECT CHRONOS- SK/HYUNDAI

Teams # 20175

Need Date 12/31/2025 **Start Date** 07/31/2023

Description

GPC will build a 230/25kV station to serve new load in the area.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: ANTHONY SHOALS - WASHINGTON 115 KV LINE REBUILD

Teams # 20010

Need Date 12/31/2025 **Start Date** 01/01/2024

Description

GTC to rebuild the 21 mile Double Branches Junction – Washington 115kV line section with 100C 795 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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CC - QTS FAYETTEVILLE TRANSMISSION NEEDS

Teams # 20018

Need Date 04/01/2026 **Start Date** 06/01/2023

Description

Build a new 500/230kV substation (Ashley Park) splitting the Ohara - Union City 500kV line. Install two 500/230kV autotransformers at the Ashley Park station. At Ashley Park, the 500kV side will be a 4-breaker ring bus, while the 230kV side will be a 2-rung Breaker and a Half configuration. Build two new 230kV lines (~6 miles each) from Ashley Park to the high side of customer substations. The new lines will be built with bundled 200C 1351 ACSS Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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UNION CITY - YATES 230 KV WHITE LINE REBUILD

Teams # 17900

Need Date 04/01/2026 **Start Date** 06/01/2023

Description

Rebuild 23.4 miles of the Union City - Yates 230kV White line with bundled 200C 1351 ACSS Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BIG OGEECHEE 500/230KV

Teams # 19966

Need Date 06/01/2026 **Start Date** 06/01/2023

Description

Construct a new substation near Little Ogeechee, adjacent to the 500kV and 230kV shared right of way for McCall Road-Thalmann 500kV and the Little Ogeechee-Meldrim 230kV Black and White lines. The new substation will loop in the existing McCall Road-Thalmann 500kV line, the existing Little Ogeechee-Meldrim 230kV lines, and accommodate a new 1344MVA 500/230kV autotransformers with an additional 230kV connection to Little Ogeechee.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2025

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BLANKETS CK.-WOODSTOCK 115-KV LN REBUILD, (WOODSTK-LITTLE RVR)

Teams # 18960

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Rebuild the Woodstock – Little River 115kV section, approximately 2.5 miles of 100C 636 ACSR, using 100C 1351 ACSR.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BOULEVARD - DEPTFORD 115KV REBUILD

Teams # 20066

Need Date 06/01/2026 **Start Date** 06/01/2023

Description

Rebuild the Boulevard-Deptford 115kV line (approximately 8 miles) using 100C 1351 ACSR Martin conductor. Replace 750 AAC jumpers at Deptford substation with 1590 AAC Coreopsis jumpers.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2027

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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CC - TA REALTY UNION CITY

Teams # 20216

Need Date 06/01/2026 **Start Date** 01/01/2025

Description

Build 230kV line segment, using 200C 1351 ACSS Martin conductor, to loop in the Stonewall Tell Road (TA Realty) customer station into the East Point - Union City 230kV Black line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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DU: EAST DALTON - OOSTANAULA 115KV RECONDUCTOR

Teams # 18679

Need Date 06/01/2026 **Start Date** 06/01/2023

Description

DU: Rebuild the portion of the line between East Dalton substation and the Dalton substation frame.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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FENWICK STREET - SAND BAR FERRY 115KV (RECONDUCTOR)

Teams # 16007

Need Date 06/01/2026 **Start Date** 09/01/2022

Description

Reconductor approximately 2.72 miles of transmission line from Fenwick St to East Augusta Jct. with 100C 1351 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GOAT ROCK 230KV SWITCH, JUMPER, & LINE TRAP REPLACEMENT

Teams # 20516

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

Replace the 230kV 1200A switch with 3000A, 90C 1351.5 ACSR Martin jumper with (2) AAC 1590, and 1600A line trap with 3000A (part of the Goat Rock - North Opelika 230kV line) at Goat Rock substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GORDON - SANDERSVILLE #1 115KV LINE REBUILD

Teams # 20002

Need Date 06/01/2026 **Start Date** 02/01/2023

Description

Rebuild the 1.87 miles of Sandersville #1-Sandersville #6 line section of the Gordon - Sandersville #1 115kV line from 100C ACSR 336 conductor to 100C ACSR 795 conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GORDON-N DUBLIN 115KV (GORDON-ENGL MCI J) REBUILD

Teams # 19618

Need Date 06/01/2026 **Start Date** 10/01/2023

Description

Rebuild the Gordon - Engelhard McIntyre J of the Gordon-North Dublin 115kV line from 100C 336.4 ACSR (2.81 miles) Linnet and 75C 4/0 F Copper/CW (3.18 miles) to 100C ACSR 795 conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: LAGRANGE - NORTH OPELIKA 230 KV

Teams # 19334

Need Date 06/01/2026 **Start Date** 06/01/2023

Description

Build a new Lagrange - North Opelika (APC) 230kV line, 29.4 miles, with 100C ACSR 1351.5 Martin Conductor. GTC will construct the ~15-mile section from Lagrange to the Metering Station near the Georgia - Alabama border. The Metering Station will be owned by GTC. GPC will construct the short line section from the Metering Station to the GA-AL state line. APC will construct the 230kV line from the GA-AL state line to North Opelika.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: MORNING HORNET 2ND 230/115 KV BANK & THUMBS UP 115KV TL

Teams # 20015

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

GTC to add a second 230/115kV autotransformer at Morning Hornet substation. Also, build an additional line from Morning Hornet – Thumbs Up 115kV line (approximately 0.7 miles) using at least 100C 1351 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: SR ROBINS-TRANSMISSION IMPROVEMENTS

Teams # 20512

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

GTC: Build the new Big Grocery Creek 230kV switching station looping into the Kathleen - Pitts 230kV line.

GPC:
- Rebuild the Kathleen - Big Grocery Creek 230kV line (approximately 1.5 miles).
- Rebuild the Bonaire Primary - Kathleen 230kV line (approximately 6 miles).
- Upgrade limiting elements at substation along the Kathleen - Big Grocery Creek 230kV line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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HAMMOND - WEISS DAM 115KV LINE REBUILD

Teams # 19636

Need Date 06/01/2026 **Start Date** 06/01/2023

Description

Rebuild 11 miles of line with 100C 795 ACSR.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2028

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS

Teams # 19598

Need Date 06/01/2026 **Start Date** 06/01/2024

Description

MEAG will re-sag the Dresden - LaGrange Primary 230kV line to 125C. Replace the jumpers at Dresden and LaGrange with 2-1590 AAC jumpers.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: RAY PLACE RD - WASHINGTON

Teams # 20270

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

MEAG will rebuild the Ray Place Rd - Washington 115kV line with 100C 795 ACSR conductor (total 17.4 Miles) between Ray Place Rd and Washington 2. Replace Jumpers and bus at Washington #2.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: RAY PLACE RD - WASHINGTON (WASHINGTON - WASHINGTON 3)

Teams # 20271

Need Date 06/01/2026 **Start Date** 01/01/2024

Description

MEAG will rebuild the Ray Place Rd - Washington 115kV line with 100C 795 ACSR conductor (total 1.2 miles) between Washington and Washington #3. Replace jumpers at Washington.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: DRESDEN 500KV BUS EXPANSION

Teams # 20273

Need Date 12/01/2026 **Start Date** 12/01/2024

Description

GTC will expand the Dresden 500kV bus into a 5-element ring bus configuration. Loop the O'Hara - Wansley 500kV line into the Dresden 500kV substation and allow for future Dresden - Talbot 500kV line termination.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ATHENA - EAST WATKINSVILLE 115KV

Teams # 17977

Need Date 12/31/2026 **Start Date** 08/01/2024

Description

Rebuild approximately 2.42 miles of 115kV line section from East Athens to Whitehall, part of the Athena - East Watkinsville 115kV line with 100C 1033 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GRADY-WEST END 115KV REBUILD

Teams # 19287

Need Date 12/31/2026 **Start Date** 06/01/2022

Description

Reconductor the Grady - West End 115kV line, 2.6 miles, using 160C 636 ACSS conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MORROW - MOUNTAIN VIEW 115 KV REBUILD

Teams # 19363

Need Date 12/31/2026 **Start Date** 01/01/2024

Description

Rebuild the Mountain View - Barnett Road section of the Morrow - Mountain View 115kV line with 100C 1351 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ADAMSVILLE - BUZZARD ROOST 230KV REBUILD AND JUMPER UPGRADE

Teams # 19597

Need Date 06/01/2027 **Start Date** 06/01/2024

Description

Rebuild the line sections from Adamsville to Boat Rock Road (7.2 miles) on the Adamsville - Buzzard Roost 230kV line with 200C 1351 ACSS Martin conductor. Replace the AAC 750 jumper on the line at Adamsville with 2-1590 AAC jumper. Replace 1590 AAC jumpers at Bakers Ferry and Boat Rock with 2-1590 AAC jumpers. Replace 1600A line switches at Boat Rock with 3000A switches.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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DOYLE - LG&E MONROE 230KV - JACKS CREEK LOOP IN

Teams # 20234

Need Date 06/01/2027 **Start Date** 061/013/20237

Description

Loop in new Jack's Creek 230kV switching station from the Doyle - LG&E Monroe 230kV line. This is coordinated with the East Walton Project.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GOSHEN (SAV) - MCINTOSH 115KV REBUILD

Teams # 20065

Need Date 06/01/2027 **Start Date** 06/01/2025

Description

Rebuild the Goshen (Savannah)-Georgia Pacific (Rincon) section, approximately 6.7 miles, of the Goshen (Sav)-McIntosh 115kV line using 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: EAST MOULTRIE - HIGHWAY 112 230 KV LINE

Teams # 19358

Need Date 06/01/2027 **Start Date** 06/01/2022

Description

GTC will build a new 230kV station on the 230kV line between Hwy 112 on the Cotton Primary - Scooter 230kV line. Build a new line from Hwy 112 and East Moultrie.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: EAST WALTON 500/230KV PROJECT

Teams # 09662

Need Date 06/01/2027 **Start Date** 06/01/2023

Description

GTC:
- Construct the East Walton 500/230kV substation.
- Construct the Bostwick 230kV switching station.
- Construct the East Walton - Rockville 500kV line (3-100C 1113 ACSR).
- Construct the Bethabara - East Walton 230kV line (170C 1351.5 ACSS).
- Construct the Bostwick - East Walton 230kV line (170C 1351.5 ACSS).
- Construct the East Walton - Jack's Creek 230kV line (170C 1351.5 ACSS).
- At Bethabara, terminate the East Walton 230kV line.
- Loop the East Social Circle - East Watkinsville 230kV line into Bostwick.
- Replace line trap at East Watkinsville on the Bostwick 230kV line.

GPC:
- Construct the Rockville 500kV switching station.
- Loop the Scherer - Warthen 500kV line into Rockville.
- Loop the Doyle - LG&E Monroe 230kV line into Jack's Creek.

MEAG:
- Construct the Jack's Creek 230kV switching station.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2026

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: SKC REPLACE 115KV BUS AND JUMPERS

Teams # 19606

Need Date 06/01/2027 **Start Date** 06/01/2025

Description

GTC will replace the 115kV bus and jumpers at SKC.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: SOUTH HAZLEHURST - NEW LACY 230KV LINE

Teams # 20020

Need Date 06/01/2027 **Start Date** 01/15/2024

Description

GTC will build a new 230kV transmission line between South Hazlehurst (bus 2) and New Lacy substation (approximately 25 miles) with 100C ACSR 1351 Martin conductor. Do all the necessary upgrade work to accommodate the additional line in both facilities.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: SWITCH WAY - THORNTON ROAD 230KV LINE RECONDUCTOR

Teams # 20506

Need Date 06/01/2027 **Start Date** 01/01/2025

Description

GTC will reconductor from 100C 1033 ACSR to 100C 1351 ACSR on 0.9 miles of 230kV line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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JESUP - OFFERMAN 115KV RECONDUCTOR

Teams # 18668

Need Date 06/01/2027 **Start Date** 04/06/2021

Description

Reconductor 16 miles of 100C 4/0 ACSR Penguin conductor along the Jesup - Offerman 115kV line, with 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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LAWRENCEVILLE - WINDER 115KV LINE RECONDUCTOR

Teams # 10143

Need Date 06/01/2027 **Start Date** 10/15/2026

Description

Reconductor approximately 1.1 miles of 100C 636 ACSR conductor from Winder to Johns Manville with 160C 795 ACSS conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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SANDERSVILLE #1 - WADLEY PRIMARY 115 KV REBUILD

Teams # 19248

Need Date 06/01/2027 **Start Date** 02/15/2022

Description

GPC: Rebuild all the main line of the Sandersville #1 - Wadley Primary 115kV line (total of 24.3 miles) of existing 100C 336 ACSR Linnet conductor with at least, 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: EATONTON PRIMARY - LICK CREEK 115KV LINE REBUILD

Teams # 20591

Need Date 12/01/2027 **Start Date** 10/01/2023

Description

Rebuild the 7.5 mile Eatonton Primary - Lick Creek 115kV line section with 100C 795 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: BARNEYVILLE - EAST MOULTRIE 115KV LINE

Teams # 20503

Need Date 06/01/2028 **Start Date** 06/01/2025

Description

GTC will construct 20 miles of 115kV line with 100C 795 ACSR Drake from Barneyville to East Moultrie. GPC will add 115kV breakers to Barneyville and East Moultrie substations.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MAGNOLIA - TRUMAN PARKWAY 115KV RECONDUCTOR

Teams # 20407

Need Date 06/01/2028 **Start Date** 06/01/2025

Description

Reconductor 3 miles of the Magnolia-Truman Parkway 115kV from 75C 927 ACAR to 100C 1351 ACSS Martin conductor or higher rated conductor. Upgrade 1200A switches at Magnolia substation to 2000A switches.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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UNION CITY - YATES 230KV BLACK LINE REBUILD

Teams # 20274

Need Date 06/01/2028 **Start Date** 06/01/2025

Description

Rebuild the Union City - Yates 230kV Black line with bundled 200C 1351 ACSS Martin conductor. Replace limiting elements at Union City, Fairburn #1, and Line Creek substations.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: NORTH DUBLIN 230/115KV TRANSFORMERS AND BUS-TIE BREAKER

Teams # 20586

Need Date 12/01/2028 **Start Date** 11/01/2023

Description

Replace 230/115kV autotransformers A & B with (2) new 230/115kV, 400 MVA autotransformers. Replace 230kV bus tie breaker with a new 2000A breaker. Replace 115kV bus tie breaker with a new 2000A breaker.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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ARLINGTON PRIMARY - LIZARD LOPE 115KV RECONDUCTOR

Teams # 19628

Need Date 06/01/2029 **Start Date** 06/01/2026

Description

Reconductor the 42.61 mile line of 100C 795 ACSR Drake conductor to 200C 795 ACSS Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2028

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BANKS CROSSING - CENTER PRIMARY (BLACK) 230 KV LINE

Teams # 20477

Need Date 06/01/2029 **Start Date** 06/01/2025

Description

Build new 14.6 mile 230kV line from Banks Crossing to Center Primary with at least 100C 1351 ACSR rated conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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DOUGLASVILLE - POST RD 115KV REBUILD

Teams # 12063

Need Date 06/01/2029 **Start Date** 06/01/2027

Description

Rebuild from Douglasville to the Anneewakee Jct. (structure #637), on the Douglasville - Post Road 115kV line, (6.0 miles of 397 ACSR), using 795 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: AUGUSTA CORPORATE PARK - VOGTLE 230KV REBUILD

Teams # 19623

Need Date 06/01/2029 **Start Date** 06/01/2027

Description

GTC will rebuild the Augusta Corporate Park - Vogtle 230kV line (14.2 miles) of existing 100C 2-795 ACSR Drake conductor with, 100C 2-1351 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2027

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: BAY CREEK 230/115KV 2ND TRANSFORMER

Teams # 10814

Need Date 06/01/2029 **Start Date** 01/01/2030

Description

GTC will install a second 230/115kV, 400 MVA autotransformer in the Bay Creek Substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: BIG GROCERY-WESTLAKE ROAD 230KV LINE (NEW LINE)

Teams # 20513

Need Date 06/01/2029 **Start Date** 06/01/2024

Description

GTC: Build the new Westlake Road 230kV switching station looping in the Bonaire Primary - South Macon 230kV line, Bonaire Primary - Savage Creek 230kV line, and the new Big Grocery Creek - Westlake Road 230kV line (approximately 20 miles).

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: DRESDEN - TALBOT 500KV LINE

Teams # 19950

Need Date 06/01/2029 **Start Date** 06/01/2025

Description

GTC will build a new 500kV line from Talbot to Dresden (75 miles). This project will create a new Talbot 500/230kV substation with a 500/230kV autotransformers. The low side of the autotransformers will connect to the Talbot County #1 #2 230kV buses.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: HICKORY LEVEL - VILLA RICA 230KV LINE REBUILD

Teams # 19635

Need Date 06/01/2029 **Start Date** 06/01/2026

Description

GTC will reconductor from 100C 1351 ACSR to 160C 1351 ACSS on 8.6 miles of 230kV line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: VILLA RICA - GARRETT ROAD 230KV LINE RECONDUCTOR

Teams # 20505

Need Date 06/01/2029 **Start Date** 01/01/2027

Description

GTC will reconductor from 100C 1351 ACSR to 200C 1351 ACSS on 4.6 miles of 230kV line.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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KETTLE CREEK PRIMARY - PINE GROVE PRIMARY 115KV REBUILD

Teams # 20284

Need Date 06/01/2029 **Start Date** 06/02/2026

Description

Rebuild approximately 15.3 miles of 50C 4/0 ACSR conductor from the Pine Grove to the Lakeland substation using 100C 795 ACSR conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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KRAFT 230/115KV TRANSFORMER RATING INCREASE

Teams # 15228

Need Date 06/01/2029 **Start Date** 06/01/2026

Description

Kraft Autotransformers B has a nameplate rating of 400MVA but is limited to 280MVA by this underground cable that connects the autotransformers' high side to the 230kV bus at Kraft. Replace the 230kV underground cable that connects the 230/115kV autotransformers B, with a bigger cable to get it to its nameplate rating.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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LAWRENCEVILLE - WINDER 230KV LINE REBUILD

Teams # 10481

Need Date 06/01/2029 **Start Date** 06/01/2026

Description

GPC will rebuild the Old Freeman Mill Road - Winder Primary section (6.62 miles) of the Lawrenceville - Winder 230kV line using 170C 1351 ACSS conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MCEVER ROAD-SHOAL CREEK 115KV REBUILD (COLLEGE SQ-LAKESIDE)

Teams # 19621

Need Date 06/01/2029 **Start Date** 02/01/2024

Description

Rebuild the 2-4/0 copper part (2.05 miles) of the College Square to Lakeside WTP B line section, part of the McEver Road - Shoal Creek 115kV line, using 100C 795 ACSR.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2024

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MCMANUS - WEST BRUNSWICK 115KV RECONDUCTOR

Teams # 20346

Need Date 06/01/2029 **Start Date** 01/01/2026

Description

Reconductor the McManus-West Brunswick 115kV line, approximately 5.7 miles, with 100C 1033 ACSR Curlew conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: PALMYRA - SLAPPEY DRIVE 115KV LINE RECONDUCTOR

Teams # 11051

Need Date 06/01/2029 **Start Date** 06/01/2026

Description

MEAG will reconductor 2.17 miles of 100C 477 ACSR Hawk conductor and 2.16 miles of 100C 636 ACSR Grosbeak conductor, from Slappey Drive to the Albany #9, with 100C 795 ACSR.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: THOMASVILLE 230/115KV AUTOBANK REPLACEMENT

Teams # 19630

Need Date 06/01/2029 **Start Date** 06/01/2027

Description

MEAG will replace 140MVA 230/115kV autotransformer#4.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2030

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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YATES 6 AND 7 230KV SWITCH REPLACEMENTS

Teams # 20000

Need Date 06/01/2029 **Start Date** 06/01/2027

Description

Replace the 230kV, 1200A line switches at Yates 6&7 with 3000A switches.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2027

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GOLDENS CREEK - WARRENTON PRIMARY 230KV REBUILD

Teams # 19996

Need Date 06/01/2030 **Start Date** 10/01/2030

Description

Rebuild the Goldens Creek - Warrenton Primary 230kV line (0.34 miles) of existing 100C 1-1351.5 ACSR Martin conductor with 200C 1351 ACCR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2031

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GORDON-SANDERSVILLE #1 115KV LINE REBUILD (DEEPSTEP-SAND #6)

Teams # 20428

Need Date 06/01/2030 **Start Date** 06/01/2026

Description

Rebuild the Deepstep-Robins Spring (7.6 miles) Robins Spring-Kaolin J (2.23mi), and Kaolin J-Sandersville #6 (0.66 miles) line sections of the Gordon-Sandersville #1 115kV line. Rebuild a total of 10.49 miles from 100C 336 ACSR to 100C ACSR 795 conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: BOSTWICK - EAST SOCIAL CIRCLE 230KV RECONDUCTOR

Teams # 19992

Need Date 06/01/2030 **Start Date** 01/01/2028

Description

GTC will upgrade the 1033 ACSR Curlew conductor for approximately 10.8 miles of the East Social Circle - East Watkinsville 230kV Line (up to future Bostwick location) with 1033 ACCR high temp. conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Advanced from 2031

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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LOWER RIVER - WEBB (APC) 115KV RECONDUCTOR

Teams # 20285

Need Date 06/01/2030 **Start Date** 06/01/2025

Description

Reconductor 0.97 miles of 100C 636 Grosbeak with 100C 795 ACSR Drake conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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MEAG: RAY PLACE RD - WARRENTON PRIMARY

Teams # 20264

Need Date 06/01/2030 **Start Date** 01/01/2028

Description

MEAG will rebuild 10 miles of Ray Place - Warrenton Primary 115kV line with 100C 2-1351 ACSR conductor and replace 1590 AAC Coreopsis jumpers at Warrenton.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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TALLULAH LODGE - TOCCOA 115 KV REBUILD

Teams # 19995

Need Date 06/01/2030 **Start Date** 0110/01/20289

Description

Rebuild the Tallulah Lodge - Toccoa 115kV Line with 100C 795 ACSR conductor (total of 10.3 miles). Replace 750 AAC Petunia jumpers at Toccoa substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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BAINBRIDGE AREA TRANSMISSION IMPROVEMENTS

Teams # 18848

Need Date 12/31/2030 **Start Date** 06/01/2023

Description

This project will construct a new 115kV breaker and a half substation a mile north of the East Bainbridge sub. East Bainbridge will be simplified to serve the 115kV straight bus with two transmission lines for service to GPC and GTC load serving transformers, a GTC generation interconnection point and a capacitor bank.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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AVERY - HOPEWELL 115KV RECONDUCTOR

Teams # 19632

Need Date 06/01/2031 **Start Date** 01/01/2028

Description

Rebuild approximately 3.3 miles of line from Hopewell to Birmingham using 100C 795 ACSR and replace jumpers at Birmingham.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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EAST POINT - UNION CITY 230KV BLACK LINE RECONDUCTOR

Teams # 20480

Need Date 06/01/2031 **Start Date** 06/01/2028

Description

Reconductor the 1.5 mile section from Flat Shoals Road station to the Stonewall Tell loop-in point on the East Point - Union City 230kV Black line with 200C 1351 ACSS Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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EATONTON PRIMARY 115KV CAP BANK

Teams # 19626

Need Date 06/01/2031 **Start Date** 01/01/2028

Description

Install a 115kV two-stage 30MVAR capacitor bank at Eatonton Primary substation.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

No Change

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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GTC: GOSHEN - VOGTLE 230KV REBUILD

Teams # 20266

Need Date 06/01/2031 **Start Date** 01/01/2028

Description

GTC will rebuild the Goshen - Vogtle 230kV line (18.7 miles) of existing 100C 2-795 ACSR Drake conductor with 100C 2-1351 ACSR Martin conductor.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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PITTMAN ROAD - WEST POINT DAM (USA) 115KV REBUILD

Teams # 20482

Need Date 06/01/2031 **Start Date** 06/01/2028

Description

Rebuild 3 miles from the Pittman Road 115kV station to the West Point Dam (USA) 115kV station with 100C 1351 ACSS Martin conductor. Replace AAC 750 jumper at Pittman Road 115kV with AAC 1590.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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THOMSON PRIMARY 230/115KV SECOND TRANSFORMER

Teams # 14222

Need Date 06/01/2031 **Start Date** 08/01/2025

Description

GPC will install a 2nd 300 MVA, 230/115kV autotransformer at Thomson Primary.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

Delayed from 2027

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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EATONTON PRIMARY - LAKE OCONEE 115KV LINE REBUILD

Teams # 20298

Need Date 06/01/2033 **Start Date** 02/01/2029

Description

Rebuild the ACSR 4/0 Penguin section with 100C 795 ACSR conductor between North Eatonton Junction and Putnam Sawmill Junction.

Supporting Statement

REDACTED

Change From Previous Ten Year Plan

New Project

Estimated Cost – GPC	**REDACTED**
Estimated Cost – GTC	**REDACTED**
Estimated Cost – MEAG	**REDACTED**
Estimated Cost – DU	**REDACTED**
Estimated Cost – ITS Assigned*	**REDACTED**

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F. Expansion Generation Units Details

The following projects are the result of the addition of Proxy Generation onto the ITS system.

The following information is included for each project:

1) project justification,
2) schedule for implementation (start date), and
3) expected required in-service date.

For transmission improvements, the start date is to provide necessary lead time to ensure the expected required in-service date can be met.

It is not yet known where any new generation resources will be located after 2024. To balance load and generation in the base cases as load grows and existing fossil units are retired, it is necessary to make assumptions for the locations of generation to be added. When the cases are created, the “expansion units” listed in the below table are included as needed, mostly in 800 MW increments. The sites chosen for these units are locations where fossil units have been or are expected to be retired, since existing transmission connections are (or previously have been) adequate, and therefore are expected to cause minimal new constraints.

These large expansion units have the potential to mask constraints that would otherwise be identified, or to cause constraints that would not otherwise occur. Accordingly, when the statewide screens are performed, the expansion units are removed, and equivalent MWs of “proxy unit” generation are added at 41 500 kV buses across the Southern Balancing Authority Area. The increased number of sites, spreading them out, and putting them on the 500 kV system tend to reduce the local effects seen with the expansion unit method. Any constraints seen that are suspected of being caused by a of proxy unit or group of proxy units are reevaluated with the unit(s) removed.

No projects were attributed to the expansion units included in the base cases as shown below.

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Table 9 Expansion Unit Locations

Case Type	APC (MW)	MPC (MW)	GPC (MW)	Total (MW)	Version Cases
Winter 2028	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	V1
Winter 2029	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED**	**REDACTED**	V1
Winter 2030	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Winter 2031	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Winter 2032	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Winter 2033	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Daylight 2028	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	V1
Daylight Shoulder 2029	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	V1
Daylight Shoulder 2030	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED**	**REDACTED**	V1
Daylight Shoulder 2031	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Daylight Shoulder 2032	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Daylight Shoulder 2033	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Dusk Shoulder 2028	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	
Dusk Shoulder 2029	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	V1
Dusk Shoulder 2030	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED**	**REDACTED**	V1
Dusk Shoulder 2031	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Dusk Shoulder 2032	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Dusk Shoulder 2033	**REDACTED**	**REDACTED**	**REDACTED** **REDACTED** **REDACTED** **REDACTED**	**REDACTED**	V1
Summer 2030	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	V1

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Case Type	APC (MW)	MPC (MW)	GPC (MW)	Total (MW)	Version Cases
Summer 2031	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V1
Summer 2032	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V1
Summer 2033	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V1
Winter 2028	REDACTED	REDACTED	REDACTED	REDACTED	V2
Winter 2029	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V2
Winter 2030	REDACTED	REDACTED	REDACTED REDACTED REDACTED	REDACTED	V2
Winter 2031	REDACTED	REDACTED	REDACTED REDACTED REDACTED	REDACTED	V2
Winter 2032	REDACTED	REDACTED	REDACTED REDACTED REDACTED	REDACTED	V2
Daylight Shoulder 2028	REDACTED	REDACTED	REDACTED	REDACTED	V2
Daylight Shoulder 2029	REDACTED	REDACTED	REDACTED	REDACTED	V2
Daylight Shoulder 2030	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V2
Daylight Shoulder 2031	REDACTED	REDACTED	REDACTED REDACTED REDACTED	REDACTED	V2
Daylight Shoulder 2032	REDACTED	REDACTED	REDACTED REDACTED REDACTED	REDACTED	V2
Dusk Shoulder 2028	REDACTED	REDACTED	REDACTED	REDACTED	V2
Dusk Shoulder 2029	REDACTED	REDACTED	REDACTED	REDACTED	V2
Dusk Shoulder 2030	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V2
Dusk Shoulder 2031	REDACTED	REDACTED	REDACTED REDACTED REDACTED	REDACTED	V2
Dusk Shoulder 2032	REDACTED	REDACTED	REDACTED REDACTED REDACTED REDACTED	REDACTED	V2
Summer 2030	REDACTED	REDACTED	REDACTED	REDACTED	V2
Summer 2031	REDACTED	REDACTED	REDACTED REDACTED	REDACTED	V2

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Case Type	APC (MW)	MPC (MW)	GPC (MW)	Total (MW)	Version Cases
Summer 2032	**REDACTED**	**REDACTED**	**REDACTED REDACTED**	**REDACTED**	V2
Hot Weather 2031	**REDACTED**	**REDACTED**	**REDACTED REDACTED**	**REDACTED**	V2
Hot Weather 2032	**REDACTED**	**REDACTED**	**REDACTED REDACTED**	**REDACTED**	V2

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V. ADDITIONAL SYSTEM ANALYSIS NOTES

There are several other studies done throughout the year that involve the Southern Company System as a whole. These studies are performed by the Transmission Planning – Bulk Transmission Group. The studies have the potential to require improvements to the Southern Company Transmission System. Some of these could be in the Georgia ITS. If System enhancements are pursued from these study results, then the impacts of the enhancements are included in the annual planning cycle.

A. Interface Analysis

The interfaces of the SBAA are evaluated annually as part of the planning process. The analysis is done to ensure that the Southern Balancing Authority can maintain all long-term, firm transmission commitments and reliability reserve margins.

Northern Interface and Florida Interface Studies

The Northern Interface Study and Florida Interface Study are done to ensure that the Southern Balancing Authority can maintain all long-term, firm transmission commitments and reserve margins while assessing the import and export capability of the Northern and Florida Interfaces. When a transmission project is identified by an Interface Study, the proposed recommendation will be included in the Analysis Results above.

B. Nuclear Final Safety Offsite Power Report (FSAR) Study

The FSAR analysis is a requirement of the NUC-001 Nuclear Plant Interface Coordination for Southern Nuclear Operating Company and Transmission Planning. For GPC, this analysis is performed annually for Plant Vogtle and Plant Hatch and the results are communicated to Southern Nuclear.

C. Designation Studies

A Designation Study is a study performed to identify the transmission system improvements needed to provide firm transmission capability for a resource designated to serve native load customers and wholesale network customers.

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VI. APPENDIX

A. Validation Files / Reports

The transmission projects and operating guides listed were justified by data output from the report files listed below.

Table 10 PSSE Output Results

Version	File Location
v1B - STRE (2024-2033)	T:\TP-East\2023_TPE_Workplan\Screens\v1B
v2A - VAL (2024-2033)	T:\TP-East\2023_TPE_Workplan\Screens\v2

Table 11 Thermal Problem Databases

Version	File Location
v1B - STRE (2024-2033)	T:\TP-East\ 2023_TPE_Workplan\Screens\v1B\Problem DB\2024-2033 TP-East Thermal Problems - v1B DHOST.accdb
v2A - VAL (2024-2033)	T:\TP-East\ 2023_TPE_Workplan\Screens\v2\Problem DB\2024-2033 TP-East Thermal Problems - v2 DHOST.accdb

Table 12 Voltage Problem Databases

Version	File Location
v1B - STRE (2024-2032)	T:\TP-East\ 2023_TPE_Workplan\Screens\v1B\Problem DB\2024-2033 TP-East Voltage Problems - v1B DHOST.accdb
v2A - VAL (2024-2033)	T:\TP-East\ 2023_TPE_Workplan\Screens\v2C\Problem Database\2024-2033 TP-East Voltage Problem - v2 DHOST.accdb

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Table 13 Study Reports

Study Type	File Location
P-Events	T:\TP-Archive\Planning General (7.021-CY15)\2023\23-001_TPL-001_Compliance
Extreme Events	T:\TP-Archive\Planning General (7.021-CY15)\2023\23-001_TPL-001_Compliance\ExtremeEvents
Northern Interface	T:\TP-OATT_RegionalPlanning\Interface\2023\NIS
Florida Interface	T:\TP-OATT_RegionalPlanning\Interface\2023\FIS
Nuclear FSAR - Hatch	T:\TP-Archive\Planning General (7.021-CY15)\2023\23-002_Annual_FSAR\Hatch
Nuclear FSAR - Vogtle	T:\TP-Archive\Planning General (7.021-CY15)\2023\23-002_Annual_FSAR\Vogtle
Stability Studies	T:\TP-Stab\Compliance_(3.009-ACT)\TPL-001
Designation Studies	T:\TP-Strategic\2023

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B. Generation Assumptions

Base Case Definitions

Table 14 Base Case Definitions

2023 Steady State Case Definitions						
Name	**Prefix**	**Suffix**	**Load Level**	**Solar**	**Hydro**	**MISO Transfer**
Summer Peak	S	SNWE	Summer Peak	On	On	1000 S->N
Summer NS Regional Flows	S	NSEW	Summer Peak	On	On	1000 N->S
Summer SN Max Regional Flows	S	SNmaxWE	Summer Peak	On	On	2500 S->N
Summer NS Max Regional Flows	S	NSmaxEW	Summer Peak	On	On	3000 N->S
Off Peak	O	SNWE	Off Peak (70%)	On	Motor	1000 S->N
Off Peak NS Regional Flows	O	NSEW	Off Peak (70%)	On	Motor	1000 N->S
Off Peak SN Max Regional Flows	O	SNmaxWE	Off Peak (70%)	On	Motor	2500 S->N
Off Peak NS Max Regional Flows	O	NSmaxEW	Off Peak (70%)	On	Motor	3000 N->S
Daylight Shoulder	D	SNWE	Shoulder (93%)	On	Motor	1000 S->N
Daylight Shoulder NS Regional Flows	D	NSEW	Shoulder (93%)	On	Motor	1000 N->S
Daylight Shoulder SN Max Regional Flows	D	SNmaxWE	Shoulder (93%)	On	Motor	2500 S->N
Daylight Shoulder NS Max Regional Flows	D	NSmaxEW	Shoulder (93%)	On	Motor	3000 N->S
Shoulder	H	SNWE	Shoulder (93%)	Off	50%	1000 S->N
Shoulder NS Regional Flows	H	NSEW	Shoulder (93%)	Off	50%	1000 N->S
Shoulder SN Max Regional Flows	H	SNmaxWE	Shoulder (93%)	Off	50%	2500 S->N
Shoulder NS Max Regional Flows	H	NSmaxEW	Shoulder (93%)	Off	50%	3000 N->S
Hot Weather	T	SNWE	Hot Weather (107%)	On	On	1000 S->N
Hot Weather NS Regional Flows	T	NSEW	Hot Weather (107%)	On	On	1000 N->S
Winter	W	SNWE	Winter Peak	Off	On	1000 S->N
Winter NS Regional Flows	W	NSEW	Winter Peak	Off	On	1000 N->S
Winter SN Max Regional Flows	W	SNmaxWE	Winter Peak	Off	On	2500 S->N
Winter NS Max Regional Flows	W	NSmaxEW	Winter Peak	Off	On	3000 N->S
Spring Peak	Z	SNWE	Spring Peak	On	On	As Provided
Valley	L	SNWE	Spring Valley	Off	Motor/Pump	As Provided
Fall Peak	F	SNWE	Spring Peak	On	On	As Provided

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Generation in Cases

Table 15 ITS Generation P_{max} in Cases

Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
ADDISON 1 (WEST GA)	GPC	PPA-CT	**REDACTED**	**REDACTED**
ADDISON 2 (WEST GA)	GPC	PPA-CT	**REDACTED**	**REDACTED**
ADDISON 3 (WEST GA)	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
ALBANY RENEWABLE ENERGY	GPC	PPA-Bio	**REDACTED**	**REDACTED**
ALLA DAM	GPC	Hydro	**REDACTED**	**REDACTED**
ALLIGATOR CREEK SOLAR	GPC	QF-Solar	**REDACTED**	**REDACTED**
AMERICUS BESS	Undesignated	Battery	**REDACTED**	**REDACTED**
AMERICUS 1	GPC	Hydro	**REDACTED**	**REDACTED**
AMERICUS 2	GPC	Hydro	**REDACTED**	**REDACTED**
AMERICUS 3	GPC	Hydro	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
ASI CLASSIC 210 MW – US 1: RINCON SOLAR CENTER	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI CLASSIC 210 MW – US 2: BUTLER SOLAR FARM	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI CLASSIC 210 MW – US 2: DECATUR COUNTY SOLAR PROJECT	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI CLASSIC 210 MW – US 2: OLD MIDVILLE RD LLC	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI PRIME 525 MW – US 1: BUTLER SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI PRIME 525 MW – US 1: DECATUR PARKWAY SOLAR PROJECT	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI PRIME 525 MW – US 1: LS PAWPAW	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI PRIME 525 MW – US 2: LIVE OAK SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI PRIME 525 MW – US 2: WHITE OAK SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ASI PRIME 525 MW – US 2: WHITE PINE SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED REDACTED**	**REDACTED**
BARTLETT'S FERRY 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
BARTLETT'S FERRY 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
BARTLETT'S FERRY 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
BARTLETT'S FERRY 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
BARTLETT'S FERRY 5 HY	GPC	Hydro	**REDACTED**	**REDACTED**
BARTLETT'S FERRY 6 HY	GPC	Hydro	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
BENNING SLR	GPC	Hydro	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
BIRD DOG PV	GPC	Hydro	**REDACTED**	**REDACTED**
BLACK WATER SOLAR	GPC	PPA Solar	**REDACTED**	**REDACTED**
BOULEVARD 1	GPC	Oil	**REDACTED**	**REDACTED**
BOWEN 1	GPC	Coal	**REDACTED**	**REDACTED**
BOWEN 2	GPC	Coal	**REDACTED**	**REDACTED**
BOWEN 3	GPC	Coal	**REDACTED**	**REDACTED**
BOWEN 4	GPC	Coal	**REDACTED**	**REDACTED**
BUFORD DAM 1+3	GPC	Hydro	**REDACTED**	**REDACTED**
BUFOR DAM 2	GPC	Hydro	**REDACTED**	**REDACTED**
BULLDOG PV	GPC	PPA Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
CARTERS DAM 1	GPC	Hydro	**REDACTED**	**REDACTED**
CARTERS DAM 2	GPC	Hydro	**REDACTED**	**REDACTED**
CARTERS DAM 3	GPC	Hydro	**REDACTED**	**REDACTED**
CARTERS DAM 4	GPC	Hydro	**REDACTED**	**REDACTED**
REDACTED REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
COOL SPRINGS	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
DAHLBERG 10	GPC	PPA-CT	**REDACTED**	**REDACTED**
DAHLBERG 2	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
DAHLBERG 4	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
DAHLBERG 6	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
DAHLBERG 8	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
DOUBLE RUN SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
DECATUR SOLAR	GPC	Hydro	**REDACTED**	**REDACTED**
DUBLIN B1	GPC	Bio	**REDACTED**	**REDACTED**
DOUGH PV	GPC	Hydro	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
EXELON HEARD 1	GPC	PPA-CT	**REDACTED**	**REDACTED**
EXELON HEARD 2	GPC	PPA-CT	**REDACTED**	**REDACTED**
EXELON HEARD 3	GPC	PPA-CT	**REDACTED**	**REDACTED**
EXELON HEARD 4	GPC	PPA-CT	**REDACTED**	**REDACTED**
EXELON HEARD 5	GPC	PPA-CT	**REDACTED**	**REDACTED**
EXELON HEARD 6	GPC	PPA-CT	**REDACTED**	**REDACTED**
FALL LANE SOLAR	GPC	Hydro	**REDACTED**	**REDACTED**
FLINT RIVER 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
FLINT RIVER 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
FLINT RIVER 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
FLINT RIVER SOLAR (DECATUR SLR)	GPC	PPA-Solar	**REDACTED**	**REDACTED**
FORT BENNING SOLAR	GPC	Solar	**REDACTED**	**REDACTED**
FORT GORDON 1 SOLAR	GPC	Solar	**REDACTED**	**REDACTED**
FORT STEWART SOLAR	GPC	Solar	**REDACTED**	**REDACTED**
FORT VALLEY STATE UNIVERSITY	GPC	Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
GASTON A	GPC	CT	**REDACTED**	**REDACTED**
GEORGIA RENEWABLE POWER FRANKLIN LLC	GPC	PPA-Bio	**REDACTED**	**REDACTED**
GEORGIA RENEWABLE POWER MADISON	GPC	PPA-Bio	**REDACTED**	**REDACTED**
GOAT ROCK 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
GOAT ROCK 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
GOAT ROCK 5 HY	GPC	Hydro	**REDACTED**	**REDACTED**
GOAT ROCK 6 HY	GPC	Hydro	**REDACTED**	**REDACTED**
GOAT ROCK 7 HY	GPC	Hydro	**REDACTED**	**REDACTED**
GOAT ROCK 8 HY	GPC	Hydro	**REDACTED**	**REDACTED**
GREEN POWER SOLUTIONS	GPC	PPA-Bio	**REDACTED**	**REDACTED**
HARRIS 1 - GPC	GPC	PPA-CC	**REDACTED**	**REDACTED**
HARRIS 2 - GPC	GPC	CC	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
HATCH 1	GPC	Nuclear	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
HATCH 2	GPC	Nuclear	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
HOBNAIL SOLAR	GPC	Hydro	**REDACTED**	**REDACTED**
INTERNATIONAL PAPER - FLINT RIVER	GPC	PPA-Bio	**REDACTED**	**REDACTED**
INTERNATIONAL PAPER - PORT WENTWORTH	GPC	PPA-Bio	**REDACTED**	**REDACTED**
KINGS BAY SOLAR	GPC	Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
LLOYD SHOALS 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
LLOYD SHOALS 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
LLOYD SHOALS 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
LLOYD SHOALS 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
LLOYD SHOALS 5 HY	GPC	Hydro	**REDACTED**	**REDACTED**
LLOYD SHOALS 6 HY	GPC	Hydro	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
LSS 50 MW - SIMON SOLAR FARM	GPC	PPA-Solar	**REDACTED**	**REDACTED**
LSS 50 MW - SOLAR D&D CAMILLA	GPC	PPA-Solar	**REDACTED**	**REDACTED**
MARINE CORPS LOGISTICS BASE	GPC	Solar	**REDACTED**	**REDACTED**
MAS GEORGIA LFG - PINE RIDGE	GPC	PPA-Bio	**REDACTED**	**REDACTED**
MAS GEORGIA LFG - RICHLAND CREEK	GPC	PPA-Bio	**REDACTED**	**REDACTED**
MCDONOUGH 4	GPC	CC	**REDACTED**	**REDACTED**
MCDONOUGH 5	GPC	CC	**REDACTED**	**REDACTED**
MCDONOUGH 6	GPC	CC	**REDACTED**	**REDACTED**
MCGRAU FORD BESS	GPC	Battery	**REDACTED**	**REDACTED**
MCINTOSH 10	GPC	CC	**REDACTED**	**REDACTED**
MCINTOSH 11	GPC	CC	**REDACTED**	**REDACTED**
MCINTOSH 1A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 2A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 3A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 4A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 5A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 6A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 7A	GPC	CT	**REDACTED**	**REDACTED**
MCINTOSH 8A	GPC	CT	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
MCMANUS 3A	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 3B	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 3C	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 4A	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 4B	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 4C	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 4D	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 4E	GPC	CT	**REDACTED**	**REDACTED**
MCMANUS 4F	GPC	CT	**REDACTED**	**REDACTED**
MID GEORGIA COGEN	GPC	PPA-Cogen	**REDACTED**	**REDACTED**
MONROE POWER	GPC	PPA-CT	**REDACTED**	**REDACTED**
MOODY AFB	GPC	Solar	**REDACTED**	**REDACTED**
MORGAN FALLS 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MORGAN FALLS 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MORGAN FALLS 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MORGAN FALLS 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MORGAN FALLS 5 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MORGAN FALLS 6 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MORGAN FALLS 7 HY	GPC	Hydro	**REDACTED**	**REDACTED**
MOSSY BRANCH	GPC	PPA-BES	**REDACTED**	**REDACTED**
NORTH HIGHLANDS 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
NORTH HIGHLANDS 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
NORTH HIGHLANDS 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
NORTH HIGHLANDS 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
OLIVER 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
OLIVER 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
OLIVER 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
OLIVER 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
PIEDMONT GREEN POWER	GPC	PPA-Bio	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDI 1400 MW - C&I: DOUGHERTY COUNTY SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDI 1400 MW - C&I: TANGLEWOOD SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDI 1400 MW - US 1: QUITMAN II SOLAR ENERGY CENTER	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDI 1400 MW - US 1: QUITMAN SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDI 1400 MW - US 1: SOUTHERN OAK SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDI 1400 MW - US 1: TWIGGS COUNTY SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
REDI 1400 MW - US 2:	GPC	PPA-Solar	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
BROKEN SPOKE (Hickory Park)				
REDI 1400 MW - US 2: COOL SPRINGS	GPC	PPA-Solar	**REDACTED**	**REDACTED**
ROBINS AFB	GPC	Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED REDACTED REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED REDACTED REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED REDACTED REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED REDACTED REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED REDACTED REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED REDACTED REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
SCHERER 1	GPC	Coal	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
SCHERER 2	GPC	Coal	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
SCHERER 3	GPC	Coal	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
SIMON SOLAR	GPC	Solar	**REDACTED**	**REDACTED**
SINCLAIR 1 HY	GPC	Hydro	**REDACTED**	**REDACTED**
SINCLAIR 2 HY	GPC	Hydro	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
SONNY PV	GPC	Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
STAGE COACH SOLAR	GPC	Solar	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
TALLULAH 1 HY	GPC	Hydro	REDACTED	REDACTED
TALLULAH 2 HY	GPC	Hydro	REDACTED	REDACTED
TALLULAH 3 HY	GPC	Hydro	REDACTED	REDACTED
TALLULAH 4 HY	GPC	Hydro	REDACTED	REDACTED
TALLULAH 5 HY	GPC	Hydro	REDACTED	REDACTED
TALLULAH 6 HY	GPC	Hydro	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
TERRORA 1 HY	GPC	Hydro	REDACTED	REDACTED
TERRORA 2 HY	GPC	Hydro	REDACTED	REDACTED
TIMBERLAND SOLAR	GPC	PPA-Solar	REDACTED	REDACTED
TUGALO 1 HY	GPC	Hydro	REDACTED	REDACTED
TUGALO 2 HY	GPC	Hydro	REDACTED	REDACTED
TUGALO 3 HY	GPC	Hydro	REDACTED	REDACTED
TUGALO 4 HY	GPC	Hydro	REDACTED	REDACTED
VOGTLE 1	GPC	Nuclear	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
VOGTLE 2	GPC	Nuclear	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
VOGTLE 3	GPC	Nuclear	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
VOGTLE 4	GPC	Nuclear	REDACTED	REDACTED

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
WADLEY SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
WALLACE DAM 1 PS	GPC	Pump Storage Hydro	**REDACTED**	**REDACTED**
WALLACE DAM 2 PS	GPC	Pump Storage Hydro	**REDACTED**	**REDACTED**
WALLACE DAM 3 HY	GPC	Hydro	**REDACTED**	**REDACTED**
WALLACE DAM 4 HY	GPC	Hydro	**REDACTED**	**REDACTED**
WALLACE DAM 5 PS	GPC	Pump Storage Hydro	**REDACTED**	**REDACTED**
WALLACE DAM 6 PS	GPC	Pump Storage Hydro	**REDACTED**	**REDACTED**
WALTON COUNTY	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
WANSLEY 1	GPC	Coal	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
WANSLEY 2	GPC	Coal	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
REDACTED	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
WARNER ROBINS 1	GPC	CT	**REDACTED**	**REDACTED**
WARNER ROBINS 2	GPC	CT	**REDACTED**	**REDACTED**
WASHINGTON COUNTY	GPC	PPA-CT	**REDACTED**	**REDACTED**
REDACTED **REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**	**REDACTED**
WASHINGTON COUNTY SOLAR	GPC	PPA-Solar	**REDACTED**	**REDACTED**
WILSON 1A	GPC	CT	**REDACTED**	**REDACTED**
WILSON 1B	GPC	CT	**REDACTED**	**REDACTED**
WILSON 1C	GPC	CT	**REDACTED**	**REDACTED**
WILSON 1D	GPC	CT	**REDACTED**	**REDACTED**
WILSON 1E	GPC	CT	**REDACTED**	**REDACTED**
WILSON 1F	GPC	CT	**REDACTED**	**REDACTED**
YATES 6 GAS	GPC	Oil/Gas Steam	**REDACTED**	**REDACTED**

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Unit Name	Recipient	Fuel Type	PSSE Bus Number	Net Installed (MW)
YATES 7 GAS	GPC	Oil/Gas Steam	**REDACTED**	**REDACTED**
YONAH	GPC	Hydro	**REDACTED**	**REDACTED**

FOOTNOTES:

1. VALUES FOUND IN TABLE MAY NOT REFLECT WHAT IS MODELED IN THE CASES. THE INFORMATION PROVIDED DOES NOT ALWAYS REFLECT OPERATIONAL LIMITS OR DESIGNATION AMOUNTS.

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Generation Scenario (Unit Off / Area Max) Cases

Table 16 Generation Scenario (Unit Off) By Case Type

Generation Code	Description	Summer Peak	Shoulder	Off-Peak
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED	REDACTED

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Generation Code	Description	Summer Peak	Shoulder	Off-Peak
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED REDACTED	REDACTED	REDACTED	
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED		REDACTED
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

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C. Strategic Projects

Smart Valve Power Flow Control Device Installation at Eatonton Primary Substation

TEAMS 20466

Project Need Date: June 1, 2025

I. Executive Summary

The Smart Valve Installation project addresses thermal constraints on the Branch – Oasis 230kV and Eatonton Primary – Oasis 230kV lines associated with NERC TPL-001-5 planning event contingencies. The thermal constraints begin in 2024 and increase until the East Walton 500/230kV Area project is placed in service in 2027.

Operating guides (switching operations) could not be utilized to resolve the thermal constraints beyond 2025 due to the severity of the constraints. Installation of Smart Valve devices on the Branch – Oasis 230kV and Eatonton Primary – Oasis 230kV lines allows for optimized control of power flow on the lines under both normal and contingency conditions thus increasing reliability and resiliency of the transmission system in the area as shown in Figure 4.

Additionally, the installation of the Smart Valve non-wire alternative technology will provide valuable operational information as the Company looks to deploy similar technologies to assist with transmission system build out associated with Generation Fleet Transition (fossil retirement and increased renewables) along with Customer Choice projects.

This solution is the result of joint planning efforts amongst the GA ITS Participants.

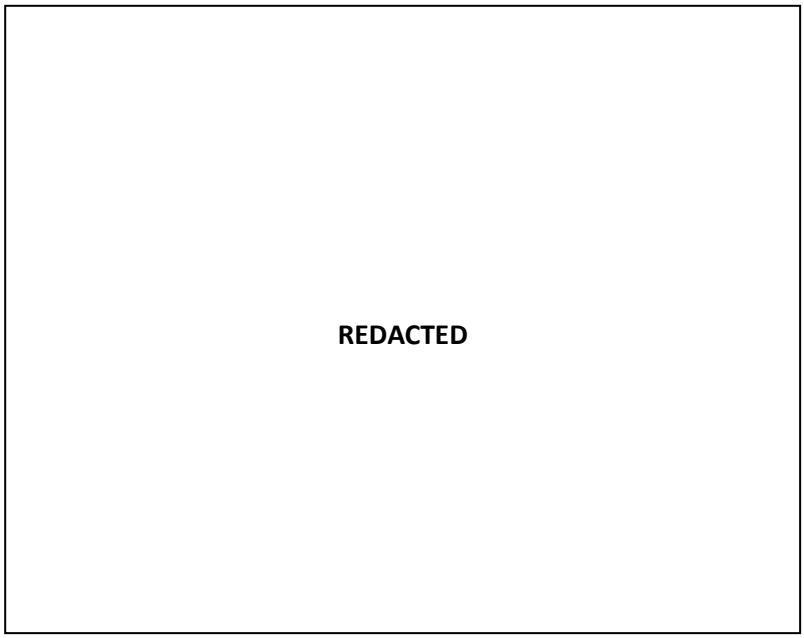


Figure 4 Area Transmission System

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II. Compliance Statement

This project addresses problems associated with Category P1 events. These problems were identified as part of Southern Company's Transmission Planning process in compliance with NERC Standard TPL-001-5.

III. Background and Problem Description

The transmission area contains several large industrial customers along with the Tiger Creek and Wallace Dam generation facilities. All this power flow causes that when one of the 230kV transmission lines is out of service, the other 230kV lines in the area overload. Five 230kV lines overload under contingency as shown in Figure 5:

- Eatonton Primary-Oasis 230kV
- Branch-Oasis 230kV
- Branch-Eatonton Primary #2 230kV
- Branch-Tiger Creek (Black) 230kV
- Branch-Tiger Creek (White) 230kV

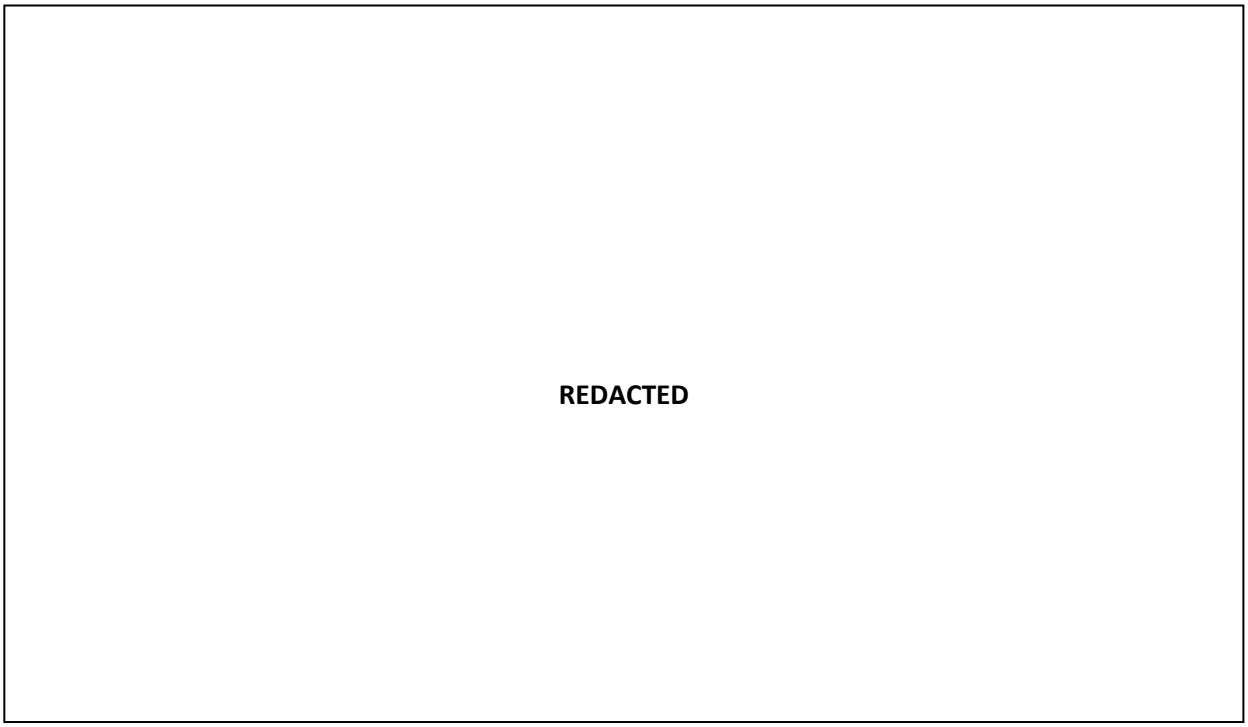


Figure 5 Transmission Area Constraints

Given the amount of thermal loading under contingency for the Branch-Oasis 230kV and the Eatonton Primary-Oasis 230kV transmission lines in 2025 and beyond, it is not possible to use operating guides to address the thermal constraints. The East Walton 500/230kV Area project will alleviate the thermal constraints on these lines when placed in-service by summer of 2027.

The thermal constraints on these lines start in 2024 and the loading increases as time passes as shown in Table 16. By 2025, the N-1 contingency thermal loading for the Branch – Oasis 230kV and Eatonton Primary – Oasis

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230kV lines becomes too high to utilize existing operating guides. The Smart Valve installation project will address issues on these line from 2025 to 2027.

YEAR	Thermal Loading Branch-Oasis 230kV	Thermal Loading Eatonton Primary-Oasis 230kV
2025	**REDACTED**	**REDACTED**
2026	**REDACTED**	**REDACTED**

Table 16: Thermal Overloads (v2 2023 Series)

The Smart Valve is a power flow control device designed and manufactured by Smart Wire. This is a modular Static Synchronous Series Compensator (SSSC) that injects a leading or lagging voltage in quadrature with the line current, thereby pulling power towards or pushing power away from the circuit on which they are installed.

IV. Study Assumptions

- Load Flow Cases: 2023 series V1 and V2
- Study Years: 2024 – 2033
- Case Seasons: Summer Peak, Off-Peak, Shoulder, Daylight Shoulder, and Hot Weather.
- The planned East Walton 500/230kV Area project remained in the cases with an in-service date of 2027.

V. Discussion of Alternatives

The Preferred Plan **(REDACTED)** consists of:

- Installation of Smart Valve devices on the Branch – Oasis 230kV and Eatonton Primary – Oasis 230kV lines at Eatonton Primary substation as illustrated in Figure 6.
- Extend the substation fence.
- Installation of communication equipment and integration with EMS.

The preferred plan will:

- Address the thermal overloads on the Eatonton Primary – Oasis 230kV and the Branch – Oasis 230kV transmission lines as shown in Table 17.
- Increase reliability and resiliency of the system since the Smart Valves are only in service for contingency conditions.
- Increases operational flexibility in the area.
- Provide for faster installation due to modular construction.

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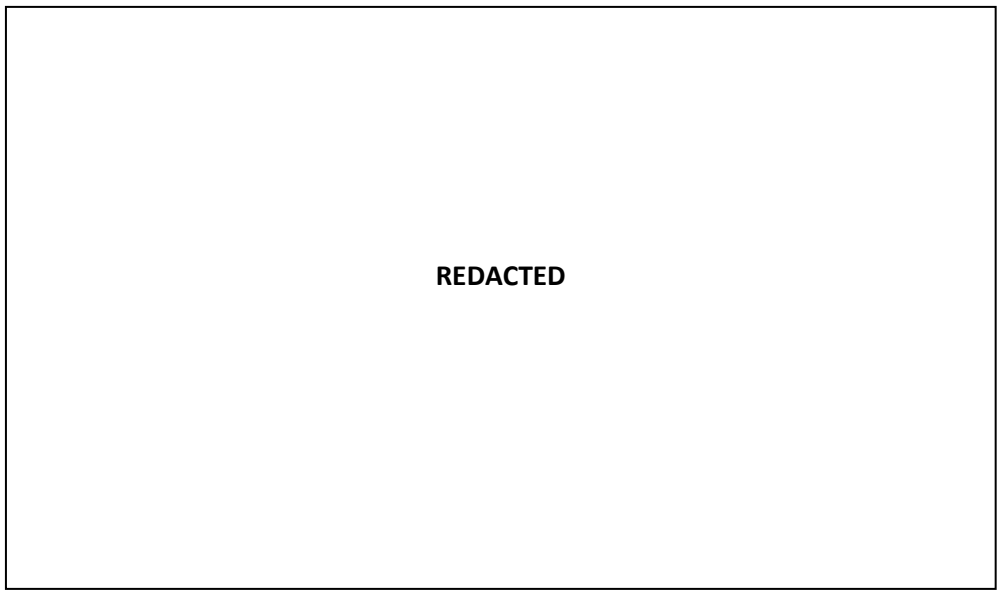


Figure 6 Smart Valve Installation at Eatonton Primary

Line Name	Rating (MVA)	Scenario	Years	
			2025	2026
Branch-Oasis 230kV	**REDACTED**	Base Case	**REDACTED**	**REDACTED**
		Smart Valve-10.58 ohms	**REDACTED**	**REDACTED**
Eatonton Primary-Oasis 230kV	**REDACTED**	Base Case	**REDACTED**	**REDACTED**
		Smart Valve-15.87ohms	**REDACTED**	**REDACTED**

Table 17 Transmission Line Loading

Alternate Plans

Alternate Plan 1: Do nothing ($0). This is not a viable option to remain in compliance with NERC TPL-001-5.

Alternate Plan 2: Installing 2% and 3% series reactors on the Eatonton Primary-Oasis 230kV and Branch-Oasis 230kV transmission lines (REDACTED). Table 18 provides the planning grade estimates series reactor installation.

Line Name	Planning Grade Estimate
Branch – Oasis 230kV line	**REDACTED**
Eatonton Primary – Oasis 230kV	**REDACTED**

Table 18 Series Reactor Planning Grade Estimate

With the Alternate Plan 2, the main concerns are:

- Obtaining and installing equipment by the compliance need date.
- Additional space required in substation to maintain required clearance due magnetic fields generated by series reactor.
- System losses created by reactors and lack of operational flexibility to allow for optimization of the lines under non-contingency conditions.

Alternate Plan 3: Direct rebuild of both the Branch – Oasis 230kV and Eatonton Primary – Oasis 230kV lines (REDACTED). Table 19 provides the planning grade estimates for rebuilding the transmission lines.

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Line Name	Length (miles)	Planning Grade Estimate
Branch – Oasis 230kV line	**REDACTED**	**REDACTED**
Eatonton Primary – Oasis 230kV	**REDACTED**	**REDACTED**

Table 19 Line Rebuild Planning Grade Estimates

With Alternate Plan 3, the main concerns are:

- Engineering and construction activities cannot be completed by the compliance need date of June 1, 2025.
- Accommodating the necessary outages to facilitate construction activities along with maintaining system reliability.

VI. Conclusion and Recommendations

The Preferred Plan was selected as the best investment of the labor and materials to solve the thermal constraints on the Branch – Oasis 230kV and Eatonton Primary – Oasis 230kV transmission lines. Although the Preferred Plan is not the least cost plan, it provides more flexibility, reliability, and resiliency to the transmission system. In addition, the project provides the opportunity to evaluate a non-wire alternative solution while obtaining valuable operational information for the future use of similar technologies.

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D. Fleet Transition Tables

This appendix provides a comparison between the transmission projects listed in the Unit Retirement Study contained within Technical Appendix Volume 2 of the 2022 Georgia Power Integrated Resource Plan (Docket 44160) and the transmission projects contained within the 2023 Georgia Integrated Transmission System Ten Year Plan (2024 – 2033). For the Unit Retirement studies, Table 20 provides a breakdown of the studied generation scenarios.

Scenario	Generation Units	Year Unavailable
Fleet 0	Wansley 1 & 2	2022
	Bowen 1 & 2	2027
Fleet 0A	Wansley 1 & 2	2022
	Bowen 1 & 2	2027
	Scherer 3	2022
Fleet 1	Wansley 1 & 2	2022
	Bowen 1 & 2	2027
	Scherer 1 - 3	2028
Fleet 2	Wansley 1 & 2	2022
	Bowen 1 & 2	2027
	Scherer 1 - 3	2028
	Bowen 3 & 4	2028

Table 20 Unit Retirement Generation Scenarios

For the 2023 Ten Year planning process, Table 21 shows the years that the coal generation facilities were unavailable in both version 1 and version 2 of the transmission planning load flow cases.

Generation Units	v1 Year Unavailable	v2 Year Unavailable
Bowen 1 & 2	2028	2028
Scherer 3	2028	2028
Bowen 3 & 4	2030	2030

Table 21 Coal Generation Assumptions

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Fleet Scenario 0:

Table 22 below notes the required projects from the Unit Retirement studies along with the current project number and need year of the project in the 2023 GA ITS Ten-Year Plan.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
12016	ARKWRIGHT - LLOYD SHOALS 115KV	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18671	CORN CRIB - LAGRANGE PRIMARY 115KV RECONDUCTOR (F.K.A. CORN CRIB - LAGRANGE 115KV)	2027	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18774	GTC: HEARD COUNTY - TENASKA 500KV (NEW LINE) (F.K.A. TENASKA - HEARD CO 500KV (NEW LINE))	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18104 (F.K.A. 18772)	KLONDIKE SWITCH REPLACEMENT (F.K.A. KLONDIKE - NORCROSS 500KV SWITCH REPLACEMENT)	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18153	BONAIRE PRIMARY - ECHECONNEE RECONDUCTOR 115KV (BONAIRE - RUSSELL PKWY) (F.K.A. BONAIRE PRIMARY - ECHECONNEE 115KV)	2030	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
---	CAPITAL HEIGHTS - CARTER HILL ROAD - FISK ROAD 115KV (APC Project)	2026	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
18800	ECHECONNEE - WELLSTON 115KV REBUILD (S WARNER ROBINS-WELLSTON) (F.K.A. ECHECONNEE - WELLSTON 115KV)	2024	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19334	GTC: LAGRANGE - NORTH OPELIKA 230KV (NEW LINE) (F.K.A. LAGRANGE - NORTH OPELIKA 230KV (NEW LINE))	2027	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**
19628	ARLINGTON PRIMARY - HWY45/234 RECONDUCTOR 115KV (F.K.A. ARLINGTON PRIMARY - DAWSON PRIMARY 115KV)	2028	2028	2029	**REDACTED**	**REDACTED**	**REDACTED**
11692	BULL CREEK - VICTORY DRIVE 115KV	2024	2024	COMPLETE	**REDACTED**	**REDACTED**	---
15882	GTC: SAWHATCHEE SWITCH REPLACEMENT (F.K.A. BLAKELY PRIMARY - WEBB (APC) 115KV	2026	2023	COMPLETE	**REDACTED**	**REDACTED**	---

Table 22 Projects Still Required

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.

Table 23 shows the projects no longer required to implement Fleet Scenario 0 from the 2023 GA ITS Ten-Year planning process.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
19627	ECHECONNEE - WELLSTON 115KV REBUILD (N WARNER ROBINS - S WARNER ROBINS)	---	2025	---	---	**REDACTED**	---

Table 23 Projects No Longer Required

Fleet Scenario 0A:

Table 24 below notes the projects required to implement Fleet Scenario 0A from the 2023 GA ITS Ten-Year planning process. Please note that Scherer 3 is unavailable in the 2023 Transmission Planning cases starting in 2028 versus 2022 in the Unit Retirement Studies.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
12016	ARKWRIGHT - LLOYD SHOALS 115KV	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18671	CORN CRIB - LAGRANGE PRIMARY 115KV RECONDUCTOR (F.K.A. CORN CRIB - LAGRANGE 115KV)	2027	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18774	GTC: HEARD COUNTY - TENASKA 500KV (NEW LINE) (F.K.A. TENASKA - HEARD CO 500KV (NEW LINE))	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18104 (F.K.A. 18772)	KLONDIKE SWITCH REPLACEMENT (F.K.A. KLONDIKE - NORCROSS 500KV SWITCH REPLACEMENT)	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18153	BONAIRE PRIMARY - ECHECONNEE RECONDUCTOR 115KV (BONAIRE - RUSSELL PKWY) (F.K.A. BONAIRE PRIMARY - ECHECONNEE 115KV)	2030	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19187	BREMEN - CROOKED CREEK 115KV (F.K.A. BREMEN - CROOKED CREEK (APC) 115KV	2028	2031	2025	**REDACTED**	**REDACTED**	**REDACTED**
---	CAPITAL HEIGHTS - CARTER HILL ROAD - FISK ROAD 115KV (APC Project)	2026	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
18800	ECHECONNEE - WELLSTON 115KV REBUILD (S WARNER ROBINS-WELLSTON) (F.K.A. ECHECONNEE - WELLSTON 115KV)	2024	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19334	GTC: LAGRANGE - NORTH OPELIKA 230KV (NEW LINE) (F.K.A. LAGRANGE - NORTH OPELIKA 230KV (NEW LINE))	2027	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**

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19598	MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS (F.K.A. MEAG: DRESDEN - LAGRANGE 230KV LINE REBUILD)	2031	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**
19628	ARLINGTON PRIMARY - HWY45/234 RECONDUCTOR 115KV (F.K.A. ARLINGTON PRIMARY - DAWSON PRIMARY 115KV)	2028	2028	2029	**REDACTED**	**REDACTED**	**REDACTED**
19950	GTC: DRESDEN - TALBOT COUNTY 500KV LINE (NEW LINE)	---	2029	2029	---	**REDACTED**	**REDACTED**
11692	BULL CREEK - VICTORY DRIVE 115KV	2024	2024	COMPLETE	**REDACTED**	**REDACTED**	---
19604	BUTLER 230KV REACTORS (BONAIRE - BUTLER 230KV) (F.K.A. BONAIRE PRIMARY - BUTLER 230KV)	2030	2023	COMPLETE	**REDACTED**	**REDACTED**	---
15882	GTC: SAWHATCHEE SWITCH REPLACEMENT (F.K.A. BLAKELY PRIMARY - WEBB (APC) 115KV	2026	2023	COMPLETE	**REDACTED**	**REDACTED**	---

Table 24 Projects Still Required

Table 25 shows the projects no longer required to implement Fleet Scenario 0A from the 2023 GA ITS Ten-Year planning process.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
19627	ECHECONNEE - WELLSTON 115KV REBUILD (N WARNER ROBINS-S WARNER ROBINS)	---	2025	---	---	**REDACTED**	---
19603	GTC: SOUTH COWETA 230/115KV SECOND AUTO (F.K.A. S COWETA BANK A)	2030	2025	---	**REDACTED**	**REDACTED**	---

Table 25 Projects No Longer Required

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Fleet Scenario 1:

Table 26 shows the projects still required to implement Fleet Scenario 1 from the 2023 GA ITS Ten-Year planning process. Please note that Scherer units 1 & 2 are allowed to dispatch while Scherer 3 is unavailable in the 2023 Transmission Planning cases starting in 2028.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
12016	ARKWRIGHT - LLOYD SHOALS 115KV	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18671	CORN CRIB - LAGRANGE PRIMARY 115KV RECONDUCTOR (F.K.A. CORN CRIB - LAGRANGE 115KV)	2027	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
---	EUFALA - GEORGE DAM (COE) - WEBB 115KV	2030	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18774	GTC: HEARD COUNTY - TENASKA 500KV (NEW LINE) (F.K.A. TENASKA - HEARD CO 500KV (NEW LINE))	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18104 (F.K.A. 18772)	KLONDIKE SWITCH REPLACEMENT (F.K.A. KLONDIKE - NORCROSS 500KV SWITCH REPLACEMENT)	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18153	BONAIRE PRIMARY - ECHECONNEE RECONDUCTOR 115KV (BONAIRE - RUSSELL PKWY) (F.K.A. BONAIRE PRIMARY - ECHECONNEE 115KV)	2030	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19187	BREMEN - CROOKED CREEK 115KV (F.K.A. BREMEN - CROOKED CREEK (APC) 115KV	2028	2031	2025	**REDACTED**	**REDACTED**	**REDACTED**
---	CAPITAL HEIGHTS - CARTER HILL ROAD - FISK ROAD 115KV (APC Project)	2026	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
18800	ECHECONNEE - WELLSTON 115KV REBUILD (S WARNER ROBINS-WELLSTON) (F.K.A. ECHECONNEE - WELLSTON 115KV)	2024	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19999	GTC: ROBINS SPRING BUS REPLACEMENT	---	2030	2025	---	**REDACTED**	**REDACTED**
20002	GORDON - SANDERSVILLE #1 115KV LINE REBUILD (F.K.A. GORDON - SANDERSVILLE #1 115KV)	2028	2024	2026	**REDACTED**	**REDACTED**	**REDACTED**
19334	GTC: LAGRANGE - NORTH OPELIKA 230KV (NEW LINE) (F.K.A. LAGRANGE - NORTH OPELIKA 230KV (NEW LINE))	2027	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**
19636	HAMMOND - WEISS DAM (APC) 115KV REBUILD (F.K.A HAMMOND - WEISS DAM (APC) 115KV)	2030	2028	2026	**REDACTED**	**REDACTED**	**REDACTED**

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19598	MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS (F.K.A. MEAG: DRESDEN - LAGRANGE 230KV LINE REBUILD)	2031	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**
19628	ARLINGTON PRIMARY - HWY45/234 RECONDUCTOR 115KV (F.K.A. ARLINGTON PRIMARY - DAWSON PRIMARY 115KV)	2028	2028	2029	**REDACTED**	**REDACTED**	**REDACTED**
19950	GTC: DRESDEN - TALBOT COUNTY 500KV LINE (NEW LINE)	---	2029	2029	---	**REDACTED**	**REDACTED**
11692	BULL CREEK - VICTORY DRIVE 115KV	2024	2024	COMPLETE	**REDACTED**	**REDACTED**	---
19604	BUTLER 230KV REACTORS (BONAIRE - BUTLER 230KV) (F.K.A. BONAIRE PRIMARY - BUTLER 230KV)	2030	2023	COMPLETE	**REDACTED**	**REDACTED**	---
15882	GTC: SAWHATCHEE SWITCH REPLACEMENT (F.K.A. BLAKELY PRIMARY - WEBB (APC) 115KV	2026	2023	COMPLETE	**REDACTED**	**REDACTED**	---

Table 26 Projects Still Required

Table 27 shows the projects no longer required to implement Fleet Scenario 1 from the 2023 GA ITS Ten-Year planning process.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
19627	ECHECONNEE - WELLSTON 115KV REBUILD (N WARNER ROBINS-S WARNER ROBINS)	---	2025	---	---	**REDACTED**	---
19603	GTC: SOUTH COWETA 230/115KV SECOND AUTO (F.K.A. S COWETA BANK A)	2030	2025	---	**REDACTED**	**REDACTED**	---
19601	MORROW - YATES COMMON 115kV UPGRADE (F.K.A. MORROW - YATES COMMON 115KV)	2028	2028	---	**REDACTED**	**REDACTED**	---

Table 27 Projects No Longer Required

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Fleet Scenario 2:

Table 28 shows the projects still required to implement Fleet Scenario 2 from the 2023 GA ITS Ten-Year planning process. Please note that Scherer units 1 & 2 are allowed to dispatch while Scherer unit 3 is unavailable beginning in 2028 and Bowen Units 3 & 4 are unavailable beginning in 2030 in the 2023 Ten Year Plan base cases.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
12016	ARKWRIGHT - LLOYD SHOALS 115KV	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18671	CORN CRIB - LAGRANGE PRIMARY 115KV RECONDUCTOR (F.K.A. CORN CRIB - LAGRANGE 115KV)	2027	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
---	EUFALA - GEORGE DAM (COE) - WEBB 115KV (APC Project)	2030	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18774	GTC: HEARD COUNTY - TENASKA 500KV (NEW LINE) (F.K.A. TENASKA - HEARD CO 500KV (NEW LINE))	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18104 (F.K.A. 18772)	KLONDIKE SWITCH REPLACEMENT (F.K.A. KLONDIKE - NORCROSS 500KV SWITCH REPLACEMENT)	2024	2024	2024	**REDACTED**	**REDACTED**	**REDACTED**
18153	BONAIRE PRIMARY - ECHECONNEE RECONDUCTOR 115KV (BONAIRE - RUSSELL PKWY) (F.K.A. BONAIRE PRIMARY - ECHECONNEE 115KV)	2030	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19187	BREMEN - CROOKED CREEK 115KV (F.K.A. BREMEN - CROOKED CREEK (APC) 115KV	2028	2031	2025	**REDACTED**	**REDACTED**	**REDACTED**
---	CAPITAL HEIGHTS - CARTER HILL ROAD - FISK ROAD 115KV (APC Project)	2026	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
18800	ECHECONNEE - WELLSTON 115KV REBUILD (S WARNER ROBINS-WELLSTON) (F.K.A. ECHECONNEE - WELLSTON 115KV)	2024	2025	2025	**REDACTED**	**REDACTED**	**REDACTED**
19999	GTC: ROBINS SPRING BUS REPLACEMENT	---	2030	2025	---	**REDACTED**	**REDACTED**
20002	GORDON - SANDERSVILLE #1 115KV LINE REBUILD (F.K.A. GORDON - SANDERSVILLE #1 115KV)	2028	2024	2026	**REDACTED**	**REDACTED**	**REDACTED**
19334	GTC: LAGRANGE - NORTH OPELIKA 230KV (NEW LINE) (F.K.A. LAGRANGE - NORTH OPELIKA 230KV (NEW LINE))	2027	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**

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19636	HAMMOND - WEISS DAM (APC) 115KV REBUILD (F.K.A HAMMOND - WEISS DAM (APC) 115KV)	2030	2028	2026	**REDACTED**	**REDACTED**	**REDACTED**
19598	MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS (F.K.A. MEAG: DRESDEN - LAGRANGE 230KV LINE REBUILD)	2031	2026	2026	**REDACTED**	**REDACTED**	**REDACTED**
19628	ARLINGTON PRIMARY - HWY45/234 RECONDUCTOR 115KV (F.K.A. ARLINGTON PRIMARY - DAWSON PRIMARY 115KV)	2028	2028	2029	**REDACTED**	**REDACTED**	**REDACTED**
19950	GTC: DRESDEN - TALBOT COUNTY 500KV LINE (NEW LINE)	---	2029	2029	---	**REDACTED**	**REDACTED**
19635	GTC: HICKORY LEVEL - VILLA RICA PRIMARY 230KV (Replace jumpers and reconductor) (F.K.A. HICKORY LEVEL - VILLA RICA PRIMARY 230KV)	2030	2028	2029	**REDACTED**	**REDACTED**	**REDACTED**
11692	BULL CREEK - VICTORY DRIVE 115KV	2024	2024	COMPLETE	**REDACTED**	**REDACTED**	---
19604	BUTLER 230KV REACTORS (BONAIRE - BUTLER 230KV) (F.K.A. BONAIRE PRIMARY - BUTLER 230KV)	2030	2023	COMPLETE	**REDACTED**	**REDACTED**	---
15882	GTC: SAWHATCHEE SWITCH REPLACEMENT (F.K.A. BLAKELY PRIMARY - WEBB (APC) 115KV	2026	2023	COMPLETE	**REDACTED**	**REDACTED**	---

Table 28 Projects Still Required

Table 29 shows the projects no longer required to implement Fleet Scenario 2 from the 2023 GA ITS Ten-Year planning process.

Project Number	Project Name	2021 Unit Retirement Study Need Year	2022 GA ITS TYP Need Year	2023 GA ITS TYP Need Year	2021 Planning Grade Estimate	2022 Planning Grade Estimate	2023 Planning Grade Estimate
19627	ECHECONNEE - WELLSTON 115KV REBUILD (N WARNER ROBINS-S WARNER ROBINS)	---	2025	---	---	**REDACTED**	---
19603	GTC: SOUTH COWETA 230/115KV SECOND AUTO (F.K.A. S COWETA BANK A)	2030	2025	---	**REDACTED**	**REDACTED**	---
19601	MORROW - YATES COMMON 115kV UPGRADE (F.K.A. MORROW - YATES COMMON 115KV)	2028	2028	---	**REDACTED**	**REDACTED**	---
20004	DYER ROAD-SOUTH COWETA 115KV LINE REBUILD (F.K.A. DYER ROAD - SOUTH COWETA 115KV)	2030	2030	---	**REDACTED**	**REDACTED**	---

Table 29 Projects No Longer Required