Southeastern Regional TRANSMISSION PLANNING

Preliminary 10 Year Transmission Expansion Plans

SERTP Southeastern Regional Transmission Planning

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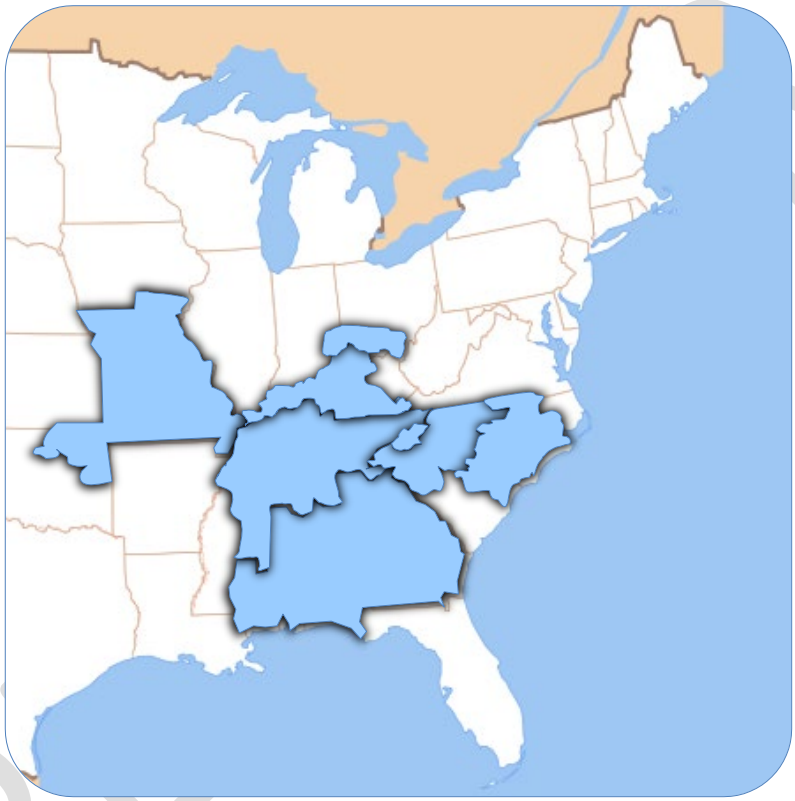
Associated Electric Cooperative Inc.



MEAG POWER

Dalton UTILITIES

Gulf Power

DUKE ENERGY

PowerSouth ENERGY COOPERATIVE

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LG&E KU

TVA

June 3, 2020

Revised: June 16, 2020

Southeastern Regional TRANSMISSION PLANNING

Preliminary 10 Year Transmission Expansion Plans

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[1] The projects described in this document represent the current ten year transmission expansion plans. The transmission expansion plans are periodically reviewed and may be revised due to changes in assumptions. This document does not represent a commitment to build for projects listed in the future.

In-Service Year:	2021
Project Name:	**RIVERBEND STEAM STATION**
Description:	Install two 230/100 kV, 400 MVA transformers at Riverbend Steam Station. Reconfigure switchyard
Supporting Statement:	Retirement of Riverbend Steam Station generation causes multiple transmission lines to overload under contingency and causes the need for additional voltage support in the Riverbend area.

In-Service Year:	2023
Project Name:	**GREAT FALLS SW STA - WATEREE TIE 100KV TRANSMISSION LINE**
Description:	6-wire the Great Falls Sw Sta - Wateree Tie 100kV Transmission Line
Supporting Statement:	The Great Falls Sw Sta - Wateree Tie 100kV double circuit transmission line can overload for the loss of a parallel circuit with the replacement of the DEP owned 100/115kV transformers at Wateree Tie

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In-Service Year:	2023
Project Name:	**HODGES TIE - CORONACA TIE 100KV TRANSMISSION LINE**
Description:	Rebuild approximately 9.2 miles of the Hodges Tie - Coronaca Tie 100kV transmission line with 795 ACSS/TW at 200°C
Supporting Statement:	The loss of a parallel Hodes Tie - Coronaca Tie 100kV transmission line causes the remaining circuit to overload

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In-Service Year:	2023
Project Name:	**SADLER TIE – DAN RIVER 100 KV TRANSMISSION LINE**
Description:	Construct approximately 9.2 miles of new 100 kV transmission line between Dan River Steam Station and Sadler Tie with 954 AAC at 120°C.
Supporting Statement:	Thermal overloads occur around Dan River Steam Station and Dan River Combined Cycle Station under contingency.

In-Service Year:	2023
Project Name:	**WILKES TIE 230 KV SUBSTATION**
Description:	Install a new 230/100 kV, 448 MVA transformer at Wilkes Tie.
Supporting Statement:	Thermal overloads occur near North Wilkesboro Tie and additional voltage support is needed in the area under contingency.

In-Service Year:	2025
Project Name:	**ALLEN STEAM STATION TRANSFORMER REPLACEMENT**
Description:	To facilitate the generation retirement at Allen Steam Station, both 230/100kV transformers need to be replaced with larger 448MVA units
Supporting Statement:	Allen Steam Station transformers overload under contingency

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In-Service Year:	2021
Project Name:	**ASHEBORO – ASHEBORO EAST (NORTH) 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 6.5 miles of the Asheboro – Asheboro East (North) 115 kV transmission line using 1590 ACSR rated for 307 MVA. Replace disconnect switches at Asheboro 230 kV substation and both the breaker and the disconnect switches at Asheboro East 115 kV substation with equipment of at least 2000A capability.
Supporting Statement:	The Asheboro – Asheboro East (North) 115 kV transmission line overloads under contingency.

In-Service Year:	2021
Project Name:	**IND 304717 115 KV CAPACITOR BANK**
Description:	Install one 18 MVAR capacitor bank at IND 304717 115 kV substation.
Supporting Statement:	Additional voltage support is needed in the Hartsville area under contingency.

In-Service Year:	2021
Project Name:	**LOUISBURG AREA 115 KV CAPACITOR STATION**
Description:	Construct a capacitor bank station near Louisburg 115 kV substation and install one 18 MVAR capacitor bank at Smithfield 115 kV substation.
Supporting Statement:	Additional voltage support is needed in Louisburg area under contingency.

In-Service Year:	2021
Project Name:	**PROSPECT 230 KV CAPACITOR STATION**
Description:	Construct a new capacitor bank station near Brunswick EMC Prospect 230 kV substation off the Brunswick # 2 – Whiteville 230 kV transmission line, and install one 60 MVAR capacitor bank at the new station.
Supporting Statement:	Additional voltage support is needed in the Prospect area under contingency.

In-Service Year:	2021
Project Name:	**RAEFORD 230 KV SUB 115 KV CAPACITOR BANK**
Description:	Add a 36 MVAR 115 kV capacitor bank at the Raeford 230 kV Substation.
Supporting Statement:	Additional voltage support is needed in the Raeford area under contingency.

In-Service Year:	2021
Project Name:	**SUTTON PLANT – CASTLE HAYNE 115 KV (NORTH) TRANSMISSION LINE**
Description:	Rebuild approximately 8.0 miles of the Sutton Plant – Castle Hayne 115 kV North transmission line using 1272 ACSR rated for 239 MVA.
Supporting Statement:	The Sutton Plant – Castle Hayne 115 kV North transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**IND 304440 – MAXTON 115 KV RECONDUCTOR**
Description:	Reconductor approximately 3.5 miles of the IND 304440 – Maxton 115 kV transmission line with 795 ACSR. Replace existing 600A switches with 1200A switches.
Supporting Statement:	The IND 304440 – Maxton section of the Weatherspoon – IND 304440 115 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**SMITHFIELD 115 KV CAPACITOR STATION**
Description:	Construct a new capacitor bank station near Smithfield 115 kV substation and install one 18 MVAR capacitor bank at Smithfield 115 kV substation.
Supporting Statement:	Additional voltage support is needed in the Smithfield area under contingency.

In-Service Year:	2023
Project Name:	**CHERRY POINT #2 115 KV CAPACITOR BANK**
Description:	Add a 25 MVAR 115kV capacitor bank at the Cherry Point #2 115 kV Substation
Supporting Statement:	Additional voltage support is needed in the Cherry Point area under contingency.

In-Service Year:	2023
Project Name:	**WATEREE 115KV PLANT REPLACE TRANSFORMERS**
Description:	Replace existing 150 MVA, 115/100kV transformer bank with two 168 MVA, 115/100kV transformers.
Supporting Statement:	The existing Wateree transformer bank overloads under contingency.

In-Service Year:	2024
Project Name:	**BRUNSWICK #1 – JACKSONVILLE 230 KV TRANSMISSION LINE**
Description:	Loop the existing Brunswick Plant Unit 1 – Jacksonville 230 kV transmission line into the Folkstone 230 kV substation. Also, convert the Folkstone 230 kV bus configuration to breaker-and-one-half by installing three (3) new 230 kV breakers.
Supporting Statement:	The Castle Hayne – Folkstone 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**WSPN-IND 304440 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 9.0 miles from Maxton to Pembroke 115 kV substation with 795 MCM ACSR or equivalent. Replace the existing 600A switch (45-2) with a 1200A switch.
Supporting Statement:	The Maxton-Pembroke section of the Weatherspoon-Ind 304440 115 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**DURHAM – RTP 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 10.0 miles of the Durham – RTP 230 kV transmission line with bundled 6 – 1590 ACSR rated for 1195 MVA.
Supporting Statement:	The Durham – RTP 230 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**IND 304405 115 KV CAPACITOR BANK**
Description:	Install one 18 MVAR capacitor bank at IND 304405 115 kV substation.
Supporting Statement:	Additional voltage support is needed in the Hope Mills Church Street area under contingency.

In-Service Year:	2027
Project Name:	**JACKSONVILLE 230 KV CAPACITOR BANK**
Description:	Add a second 70 MVAR capacitor bank at the Jacksonville 230 kV Substation.
Supporting Statement:	Various contingencies cause low voltage in the Jacksonville area.

In-Service Year:	2021
Project Name:	**PISGAH FOREST 230 KV SUBSTATION**
Description:	Upgrade the three existing 115/100 kV transformers to 150 MVA at Pisgah Forest Substation.
Supporting Statement:	Necessary upgrades to allow for interconnection of two combined cycle units at Asheville Plant.

In-Service Year:	2022
Project Name:	**ASHEVILLE PLANT – OTEEN WEST 115 KV TRANSMISSION LINE, BALDWIN TAP**
Description:	Construct approximately 2.2 miles of new 115 kV transmission line from the Asheville Plant – Oteen West 115 kV transmission line to the Asheville Plant – Oteen East 115 kV transmission line, with 795 ACSR. The Baldwin 115 kV substation will be reconnected to this new tap line.
Supporting Statement:	Additional voltage support is needed in the Baldwin area under contingency.

In-Service Year:	2025
Project Name:	**CRAGGY-ENKA 230 KV TRANSMISSION LINE**
Description:	Construct approximately 10.0 miles of new 230 Kv transmission line from the Craggy 230 Kv substation to the Enka 230 Kv substation with 3-954 ACSS-TW or equivalent conductor rated for 710 MVA.
Supporting Statement:	The Enka–West Asheville 115 kV line overloads under contingency.

In-Service Year:	2020
Project Name:	**CRIST GENERATION EXPANSION PROJECT**
Description:	Construct new 230kV Crist CT switchyard to connect 4-235MW CTs. Loop existing Crist-Alligator Swamp #2-230kV and Crist-Bellview 230kV lines into new Crist CT switchyard. Required transmission upgrades: - Brentwood-Crist 230kV (1928A, 768MVA)(7.6miles) - Crist-Scenic Hills 115kV #1 (1800A, 359MVA)(2.9miles) - Bellview-Crist 230kV (1928A, 768MVA)(8.9miles) - Bellview 230/115kV Transformer (increase to 500MVA) - Eastgate-Scenic Hills 115kV (1005A, 200MVA)(4.8miles) - Crystal Beach-Bluewater 115kV 7-minutes Emergency Rating (1110A, 221MVA) - 1-55MVAR, 230kV cap bank at Laguna Beach
Supporting Statement:	Revised resource integration in Gulf Power Area.

In-Service Year:	2020
Project Name:	**RAVEN-SINAI CEMETARY 161KV TRANSMISSION LINE**
Description:	Build a new 161kV line of approximately 176 miles rated at 3,210 Amps (895 MVA) from Raven (FPL) to Sinai Cemetery (GP) substations. Add a 230/161kV transformer at Raven and Sinai substations.
Supporting Statement:	This project will help meet future load growth and continue to improve reliability in a low cost manner for Gulf Power's customers by implementing a direct transmission connection between Gulf Power and FPL.

In-Service Year:	2021
Project Name:	**ARGYLE INJECTION**
Description:	Build a new 115kV line of approximately 35 miles rated at 1495 Amps (298 MVA) from new Argyle substation to Santa Rosa substation. Build a new 115kV line of approximately 7.4 miles (common structure) from Santa Rosa to Sandestin substations. Build a 3-breaker ring bus substation at Sandestin site.
Supporting Statement:	Avoids potential consequential load shedding in the area under N-1-1 contingencies

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In-Service Year:	2021
Project Name:	**SINAI-GASKIN 115KV TRANSMISSION LINE**
Description:	Upgrade/reconductor Sinai-Altha (PS) 115kV line section to a minimum of 567Amps (113MVA)
Supporting Statement:	The Sinai-Callaway 115 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**DEATON INJECTION PHASE I**
Description:	Build a new 115kV substation (Deaton) looping-in the existing Crist-South Crestview #1 & #2-115kV lines.
Supporting Statement:	This project eliminates several overloads under a number of contingency scenarios. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2023
Project Name:	**ARGYLE – SANTA ROSA 115 KV TRANSMISSION LINE**
Description:	Build a new 115kV line of approximately 35 miles rated at 1495 Amps (298 MVA) from the new Argyle substation to Santa Rosa substation. Build a new 115kV line of approximately 7.4 miles (common structure) from Santa Rosa to Sandestin substations. Build a 3-breaker ring bus substation at Sandestin site.
Supporting Statement:	This project eliminates several overloads under a number of contingency scenarios. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2024
Project Name:	**HOLMES CREEK – SOUTH CRESTVIEW 115 KV TRANSMISSION LINE**
Description:	Rebuild the ~54.4 mile section of 336.4 ACSR 26/7 at 75°C from Holmes Creek-Pittman-Geneva Tap-Glendale Tap-East Crestview Tap-South Crest View with 795 26/7 ACSR at 100°C (1,086A)
Supporting Statement:	This project eliminates high loadings under contingency scenarios. This project also provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2021
Project Name:	**BLUE LICK 345/161 KV TRANSFORMER**
Description:	Replace the existing 345/161 kV, 240 MVA transformer at Blue Lick with a 450 MVA transformer, reset/replace any CTs less than 2000A and increase the loadability of relays.
Supporting Statement:	The Blue Lick 345/161 kV transformer overloads under contingency.

In-Service Year:	2021
Project Name:	**EAST FRANKFORT - TYRONE 138 KV TRANSMISSION LINE**
Description:	Replace breaker 136-704 and associated Bushing CTs at East Frankfort associated with the East Frankfort to Tyrone 138 kV line with 1600 amp equipment. Set the relays at Tyrone (065-724 Panel) associated with the East Frankfort to Tyrone 138 kV line such that they do not trip for load less than 1914 amps. Change out anything else that is rated less than 1300 amps winter emergency associated with the East Frankfort to Tyrone 138 kV line.
Supporting Statement:	The East Frankfort - Tyrone 138 kV transmission line overloads under contingency.

In-Service Year:	2021
Project Name:	**ELIZABETHTOWN - NELSON COUNTY 138 KV**
Description:	Upgrade approximately 15.5 miles of the Nelson County to Elizabethtown 138 kV transmission line (795 MCM 26X7 ACSR) to a maximum operating temperature of 176°F.
Supporting Statement:	The Nelson County - Elizabethtown 138 kV transmission line overloads under contingency.

In-Service Year:	2021
Project Name:	**MOVE ROGERS GAP LOAD TO 138KV**
Description:	Convert the Rogers Gap 69 kV distribution station to a 138 kV station by tapping the existing Scott Co-Toyota North 138 kV line, adding 138 kV terminal equipment and replacing the distribution transformers.
Supporting Statement:	The Adams - Delaplain Tap 69 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**HARDIN COUNTY SUBSTATION ADDITIONS**
Description:	Install a second 345/138 kV, 450 MVA transformer at Hardin County. Install a second 138/69kV, transformer at Hardin County. Install a second 69kV line Elizabethtown - Hardin County.
Supporting Statement:	Additional voltage support is needed in the Elizabethtown area under contingency.

In-Service Year:	2023
Project Name:	**WEST LEXINGTON 345/138 #2 TRANSFORMER**
Description:	Install a second West Lexington 450 MVA, 345/138 kV transformer and necessary 345kV breakers to create a 345kV ring bus configured such that the two transformers do not share a single breaker.
Supporting Statement:	The West Lexington 345/138 kV Transformer overloads under contingency.

In-Service Year:	2028
Project Name:	**BLUE LICK TO CEDAR GROVE TAP 161KV TRANSMISSION LINE**
Description:	Replace 0.1 miles of 795MCM 61XAA, 4.6 miles of 500MCM 19XCU conductor, and 795MCM 61XAA line risers and jumper in the Blue Lick to Cedar Grove 161kV line with 795MCM 26X7 SSAC or better.
Supporting Statement:	The Blue Lick to Cedar Grove Tap 161kV transmission line overloads.

In-Service Year:	2020
Project Name:	**LIBERTY 230/115 KV TRANSFORMER ADD THIRD TRANSFORMER**
Description:	Add a third 150 MVA transformer
Supporting Statement:	The existing 230/115 kV, 150 MVA transformers at Liberty Substation overload under contingency.

In-Service Year:	2021
Project Name:	**FOUNTAIN115 KV CAP BANK**
Description:	Install a 30 Mar capacitor bank at the Fountain 115kV substation.
Supporting Statement:	There is a need for voltage support in the immediate area under contingency and additional reactive resources are needed in this area to resolve those issues.

In-Service Year:	2021
Project Name:	**GASKIN – SOUTHPORT 115 KV TRANSMISSION LINE**
Description:	Construct approximately 9.0 miles of new 115 kV transmission line from Gaskin Switching Station to Southport substation with 795 ACSR at 100°C.
Supporting Statement:	Improve the reliability of Gulf Coast Electric's substations by providing a looped service feed.

In-Service Year:	2022
Project Name:	**ELSANOR-MIFLIN 115KV SECOND LINE**
Description:	Construct approximately 12 miles of new 115kV transmission line from Elsanor to Miflin with 795 ACSR at 100°C.
Supporting Statement:	The existing Elsanor-Miflin 115kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**BREWTON - EXXON-FREEMANVILLE 115KV TEMP UPRATE**
Description:	Operating temperature upgrade on the 23 mile Brewton - Exxon - Freemanville 115kV transmission path.
Supporting Statement:	To support additional capacity needs in the area.

In-Service Year: 2020

Project Name: **AUBURN – OPELIKA AREA 115 KV TRANSMISSION LINE NETWORKING**

Description: Add a new 115 kV switching station (East Loop SS), a new 115 kV switching station west of North Auburn (Pear Tree SS) and construct approximately 4.0 miles of 115 kV transmission line from Pear Tree SS to AU-Hemlock. Construct a new 115 kV switching station near the Chewacla Tap (Pin Oaks SS) and a new substation west of Marvyn DS intersecting the Fuller Rd to Notasulga and South Auburn 115 kV transmission lines (Sanford SS). Reconductor approximately 1.8 miles of 115 kV transmission line between Opelika #1 and Opelika #3, with 795 ACSR at 100°C. Reconductor approximately 7.4 miles of 115 kV transmission line between Sanford SS to Sonat Tap to Pin Oaks with 397 ACSS at 200°C. Reconductor approximately 7.1 miles of 115 kV transmission line between Beehive Tap to Chewacla with 795 ACSR at 100°C. Reconductor approximately 6.0 miles of 115 kV transmission line between North Auburn to Pear Tree SS with 795 ACSS at 200°C.

Supporting Statement: This project provides additional operational and maintenance flexibility, which increases reliability. This project also provides voltage support and eliminates heavy loadings during load restoration events.

In-Service Year: 2020

Project Name: **EUTAW – SOUTH TUSCALOOSA 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 30.0 miles of 397 ACSR transmission line at 100°C from Eutaw to South Tuscaloosa, with 1033 ACSR at 100°C.

Supporting Statement: The Eutaw to South Tuscaloosa 115 kV transmission line becomes overloaded under contingency.

In-Service Year: 2020

Project Name: **GOODSPRINGS TS**

Description: Construct Goodsprings TS and rebuild Gorgas to Holt No. 1 230 kV transmission line from Gorgas to Goodsprings TS.

Supporting Statement: The Gorgas 230/115 kV transformer overloads under contingency.

In-Service Year:	2020
Project Name:	**HEIDELBERG DENBURY TAP TO PACHUTA RECONDUCTOR**
Description:	Reconductor / Rebuild Heidelberg Denbury Tap to Pachuta 115kV TL.
Supporting Statement:	The Heidelberg Denbury - Pachuta 115 kV transmission line overloads under contingency. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2020
Project Name:	**HONDA – KRONOSPAN 115 KV TRANSMISSION LINE**
Description:	Construct approximately 10.3 miles of 795 ACSR 115 kV transmission line at 100°C from Honda to Kronospan.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability. This project also provides voltage support under contingency scenarios.

In-Service Year:	2020
Project Name:	**NORTH AMERICUS - NORTH TIFTON 230KV LINE**
Description:	Rebuild approximately 59.5 miles of the North Americus-North Tifton 230kV transmission line with 100°C 795 ACSR conductor.
Supporting Statement:	The North Americus-North Tifton 230 kV line overloads under contingency.

In-Service Year:	2020
Project Name:	**PRATTVILLE AREA PROJECT**
Description:	Construct approximately 6.5 miles of 795 ACSR 115 kV transmission line at 100°C from County Line Road to Prattville DS. Install new 115 kV terminal at Hunter Switching Station. Construct approximately 2.7 miles of 795 ACSR 115 kV transmission line at 100°C from Hunter Switching Station to GE Burkeville Tap.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2020
Project Name:	**SYLACAUGA-NORTH SYLACAUGA 115 KV TRANSMISSION LINE**
Description:	Retire 2.1 miles of 2/0 copper from Sylacauga T.S. to North Sylacauga T.S. Install 2.1 miles of 397.5 kcmil 26/7 ACSR.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2021
Project Name:	**BASSETT CREEK – MCINTOSH 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 46.0 miles of 397 and 795 ACSR from Bassett Creek – McIntosh 115 kV transmission line with 1033.5 ACSS at 200°C.
Supporting Statement:	There are multiple transmission lines in the local area that overload under contingency. These projects provide additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2021
Project Name:	**BOULEVARD - NORCROSS 115 KV TRANSMISSION LINE**
Description:	Replace the 600 amp disconnect switches with devices adequate to carry a minimum of 2000 amps at North Druid Hills on the Boulevard - Norcross 115 kV line.
Supporting Statement:	The Boulevard - Norcross 115 kV line overloads under contingency.

In-Service Year:	2021
Project Name:	**DAWSON PRIMARY: GTC LINE REROUTE AND UPGRADES**
Description:	Construct approximately 5 miles of new 115 kV line from Greenhouse road to Cordrays Mill. GTC will rebuild its 46 kV line from Cordrays Mill to Dawson Primary to 115 kV operation. GPC will add a line terminal in the Dawson Primary substation.
Supporting Statement:	Mitigates overloads on the Blakely Primary -Mitchell 115kV line.

In-Service Year:	2021
Project Name:	**GORDON - NORTH DUBLIN 115 KV TRANSMISSION LINE UPGRADE**
Description:	Upgrade the North Dublin - Northwest Dublin - Evergreen Church Road line sections (currently 50°C CU 4/0) for 75°C operation.
Supporting Statement:	The Gordon - North Dublin 115 kV line overloads under contingency.

In-Service Year:	2021
Project Name:	**GORDON - SANDERSVILLE #1 115 KV TRANSMISSION LINE UPGRADE**
Description:	Upgrade the 30 mile, 50°C 336.4 ACSR, Gordon - Robins Spring section of the Gordon - Sandersville #1 115kV line for 100°C operation.
Supporting Statement:	The Gordon - Sandersville 115 kV line section overloads under contingency.

In-Service Year:	2021
Project Name:	**HAMMOND – WEISS DAM 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.7 miles of 397.5 ACSR along the Hammond to Weiss Dam 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2021
Project Name:	**HATTIESBURG INDUSTRIAL - PRVEPA SOUTH HATTIESBURG**
Description:	Construct approximately 1 mile of 115 kV transmission backup line from South Hattiesburg Tap to Camp Shelby Tap and rebuild the Camp Shelby Tap with 795 ACSR at 100°C operation.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2021
Project Name:	**JORDAN DAM - MARTIN DAM 115 KV TL (LINE A)**
Description:	Reconductor approximately 21 miles of 397 ACSR with 795 ACSS at 200°C between Jordan Dam and Martin Dam 115 kV TL (Line A).
Supporting Statement:	Provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2021
Project Name:	**KIMBERLY CLARK – BLAKELEY ISLAND 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.5 miles of 795 ACSR along the Kimberly Clark to Blakely Island 115 kV transmission line with 1033 ACSS at 160°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2021
Project Name:	**LAWRENCEVILLE – NORCROSS 230 KV LINE RECONDUCTOR**
Description:	Reconductor approximately 5.9 miles of the Boggs Road – Lawrenceville section of the Lawrenceville – Norcross 230 kV transmission line with 1351 ACSS at 170°C.
Supporting Statement:	The Lawrenceville - Norcross 230 kV transmission line overloads under contingency.

In-Service Year:	2021
Project Name:	**LINE CREEK - FAIRBURN #2 115 KV LINE UPGRADE**
Description:	Upgrade approximately 1.75 miles of the Line Creek-Owens #2 Junction line section from 50°C 336 ACSR to 100°C operation.
Supporting Statement:	The Line Creek-Fairburn #2 115 kV Line overloads.

In-Service Year:	2021
Project Name:	**LIVE OAK – STATESBORO PRIMARY TRANSMISSION LINE 115 KV UPGRADE**
Description:	Upgrade the Metter - Live Oak section (2.85 miles of 50°C 477 ACSR) of the Live Oak - Statesboro Primary 115 kV transmission line to 100°C 477 ACSR.
Supporting Statement:	The Live Oak – Statesboro Primary 115 kV transmission line overloads under contingency.

In-Service Year:	2021
Project Name:	**MOODY SS CAPACITOR BANKS**
Description:	Install two new 15 MVAR capacitor banks at Moody 115 kV Switching Station.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability. This project also provides voltage support under contingency scenarios.

In-Service Year: 2021

Project Name: **SHADDOCK CREEK CAPACITOR BANK**

Description: Install a two stage, (30 MVAR and 15 MVAR) 45 MVAR total, capacitor bank at the Shaddock Creek Switching Station.

Supporting Statement: Low voltage under contingency.

In-Service Year: 2021

Project Name: **TIGER CREEK 230 KV SERIES REACTORS**

Description: Install 230 KV 2% series reactors at Tiger Creek on the Branch Black and White 230 kV transmission lines.

Supporting Statement: The Branch to Tiger Creek Black & White 230 kV transmission lines overload under contingency.

In-Service Year: 2021

Project Name: **WADLEY PRIMARY 500/230 KV SUBSTATION**

Description: Construct a new 500 kV substation on the Vogtle – Warthen 500 kV transmission line. Install a 500/230 kV, 2016 MVA transformer that ties to the Wadley Primary 230 kV bus. Upgrade the 230 kV bus at Wadley Primary with 2-1590 AAC.

Supporting Statement: Project enhances area reliability.

In-Service Year: 2022

Project Name: **AUSTIN DRIVE - MORROW 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 7.1 miles of 100°C 336 ACSR conductor with 100°C 795 ACSR conductor on the Austin Drive - Morrow 115 kV line.

Supporting Statement: This project addresses Maintenance needs.

In-Service Year:	2022
Project Name:	**BASSETT CREEK – ELLICOTT 230 KV TRANSMISSION LINE**
Description:	Construct approximately 53 miles of 1351 ACSS at 200°C from Bassett Creek TS to Tensaw SS. Construct approximately 8 miles of 1351 ACSS at 200°C from Calvert SS to Ellicott SS.
Supporting Statement:	There are multiple transmission lines in the local area that overload under contingency. These projects provide additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2022
Project Name:	**BILOXI CEDAR LAKE RD - OCEAN SPRINGS NE**
Description:	Reconductor approximately 4.3 miles from Tucker Road to Cedar Lake Road 115 kV transmission line.
Supporting Statement:	This line could overload under contingency.

In-Service Year:	2022
Project Name:	**DUNCANVILLE – SOUTH BESSEMER 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 27.0 miles of 1033.5 ACSR from Duncanville to South Bessemer 230 kV transmission line from 100°C to 115°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2022
Project Name:	**INSTALL (2) 15 MVAR CAPACITOR BANKS AT PASS CHRISTIAN**
Description:	Install two (2) 15 MVAR capacitor banks at Pass Christian.
Supporting Statement:	Some contingencies can create low voltages along the Mississippi Gulf coast.

In-Service Year:	2022
Project Name:	**POSSUM BRANCH 230/115 KV PROJECT**
Description:	Construct a new 14 mile Possum Branch – Roopville 230 kV Line with 100°C 1351 ACSR conductor. Install a 230/115 kV, 400 MVA transformer at Possum Branch with a 230 kV bus. (GPC): Construct a 230 kV a ring bus switching station at Roopville along with additional substation modifications.
Supporting Statement:	Project is necessary to facilitate planned maintenance in the Bremen area.

In-Service Year:	2022
Project Name:	**REPLACE BUS #1 AT BILOXI CEDAR LAKE ROAD DS**
Description:	Replace the Strain bus and jumpers to the Ocean Springs 115 kV line.
Supporting Statement:	This equipment can become overloaded under contingency.

In-Service Year:	2022
Project Name:	**WEAVER CAPACITOR BANK**
Description:	Install a new 115 kV, 15 MVAR capacitor bank at Weaver DS.
Supporting Statement:	Low voltage in the area under contingency. This project provides voltage support under contingency scenarios.

In-Service Year:	2023
Project Name:	**BARRY NORTH MOBILE 115 KV UPGRADE**
Description:	Upgrade approximately 11.98 miles of 397 26/7 ACSR at 75°C to 100°C from Barry SP to Radcliffe DS Tap.
Supporting Statement:	The Barry to North Mobile 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**BASSETT CREEK – THOMASVILLE 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 11.3 miles of 397.5 ACSR from Bassett Creek to Thomasville 115 kV transmission line from 75°C to 100°C.
Supporting Statement:	The Bassett Creek to Thomasville 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**BIG CREEK - ELLICOTT 230 KV UPGRADE**
Description:	Upgrade approximately 30.4 miles of 1351 51/19 ACSR at 75°C to 100°C from Ellicott SS to Big Creek TS.
Supporting Statement:	The Big Creek to Ellicott 230 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**BONAIRE - KATHLEEN 115 KV TRANSMISSION LINE RECONDUCTOR**
Description:	Reconductor approximately 6 miles of the Bonaire Primary - Kathleen 115 kV transmission line using 1351 ACSR conductor.
Supporting Statement:	The Bonaire-Kathleen 115 kV line overloads under contingency.

In-Service Year:	2023
Project Name:	**CENTRAL CORRIDOR SOLUTION**
Description:	Rebuild approximately 97.0 miles of 115 kV transmission line, along the West Montgomery to Greenville to Evergreen to North Brewton 115 kV transmission line with 795 ACSS at 200°C.
Supporting Statement:	Multiple sections of the central corridor overload under contingency. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2023
Project Name:	**CROOKED CREEK CAPACITOR BANKS**
Description:	Install two new 115 kV, 15 MVAR capacitor banks at Crooked Creek TS.
Supporting Statement:	Low voltage in the area under contingency. This project provides voltage support under contingency scenarios.

In-Service Year:	2023
Project Name:	**DEMOPOLIS TS – CEMEX 115 KV TRANSMISSION LINE**
Description:	Construct approximately 1.0 mile of 795 ACSR 115 kV transmission line at 100°C from Demopolis TS to Cemex Tap.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2023
Project Name:	**DOUGLASVILLE - PINE GROVE 230 KV TRANSMISSION LINE**
Description:	Construct approximately 15.4 miles of 100°C 1351.5 ACSR 230 kV line between Lakeland Substation and Pine Grove Primary. GTC will build from Lakeland to Douglas to complete the new Douglas - Pine Grove Primary 230 kV line.
Supporting Statement:	This project addresses various loading issues that are caused by load additions and external model changes.

In-Service Year:	2023
Project Name:	**EAST SOCIAL CIRCLE - STANTON SPRINGS 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.2 miles of 100°C 636 ACSR with 100°C 1351. Replace 795 AAC jumpers at Stanton Springs with 1590 AAC. Replace 1033 AAC jumpers at East Social Circle with 1590 AAC.
Supporting Statement:	The East Social Circle to Stanton Springs 115 kV line overloads under contingency.

In-Service Year:	2023
Project Name:	**EAST WATKINSVILLE - RUSSELL DAM 230 KV TRANSMISSION LINE RECONDUCTOR**
Description:	Reconductor approximately 48.3 miles of 100°C 1351.5 ACSR/SD conductor, with 200°C 1351.5 ACCR conductor. Replace the Over Head Ground Wire.
Supporting Statement:	The existing self-damping conductor has reached the end of its service life. Also, the existing rating is exceeded under contingency in import scenarios.

In-Service Year:	2023
Project Name:	**FAYETTE – GOODSPRINGS 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 37.0 miles of 397.5 ACSR at 100°C on the Fayette to Goodsprings 161 kV transmission line, with 795 ACSS at 200°C.
Supporting Statement:	The Fayette to Goodsprings 161 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**FLOMATON 230/115 KV SUBSTATION**
Description:	Construct a new Flomaton 230/115 kV, 480 MVA transformer at Flomation TS and reconductor approximately 16.0 miles of 795 ACSR at 100°C from N. Brewton – Flomaton 115kV with 795 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability. This project also provides voltage support under contingency scenarios.

In-Service Year:	2023
Project Name:	**GORDON - N. DUBLIN 115 KV TRANSMISSION LINE UPGRADE (EVERGRN - JM HUBER)**
Description:	Upgrade approximately 19 miles of the JM Huber - Lords Junction - Evergreen Church sections of the Gordon - North Dublin 115 kV line for 50°C to 75°C operation.
Supporting Statement:	Gordon - North Dublin 115 kV line overloads under contingency.

In-Service Year:	2023
Project Name:	**HIGHWAY 11 BROOKWOOD SOLUTION**
Description:	Construct approximately 6.0 miles of 795 ACSR from Vance SS to Scott Davis DS 115 kV transmission line. Construct a new approximately 6.5 mile 115 kV transmission line from South Bessemer to Scott Davis Tap with 795 26/7 ACSR at 100°C. Construct a new approximately 4 mile 115 kV TL from Brookwood TS to Warrior Met Area with 795 26/7 ACSR at 100°C.
Supporting Statement:	The Vance SS - South Bessemer TS 115 kV transmission line overloads under contingency. This project also addresses voltage constraints under contingency.

In-Service Year:	2023
Project Name:	**HOPE HULL AREA SOLUTION PHASE 1**
Description:	Construct approximately 1.8 miles of 795 ACSS 115 kV transmission line at 200°C between Hyundai Power Transformers to a tap point on the W. Montgomery to Pintlala 115 kV transmission line. Reconductor approximately 2.7 miles of the Hope Hull Tap to Hyundai Power Transformers 115 kV transmission line with 795 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2023
Project Name:	**JORDAN DAM - MARTIN DAM 115 KV TL (LINE B)**
Description:	Reconductor approximately 21 miles of 397 ACSR with 795 ACSS at 200°C between Jordan Dam and Martin Dam 115 kV TL (Line B).
Supporting Statement:	Provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2023
Project Name:	**LAFAYETTE ROANOKE 115 KV UPGRADE**
Description:	Phase 1: Upgrade approximately 2.5 miles 397 ACSR to 100° C from City of Lafayette No. 1 to Lafayette TS. Phase 2: Upgrade approximately 12.2 miles from Lafayette TS - Roanoke TS & ~1.2 miles Roanoke TS - East Roanoke DS Tap 115 kV TL 397 ACSR to 100° C.
Supporting Statement:	The LaFayette to Roanoke 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**MCEVER ROAD - SHOAL CREEK 115 KV TRANSMISSION LINE REBUILD - PHASE 2**
Description:	Rebuild approximately 2.41 miles (2-4/0 copper) of the McEver Road - College Square section of the McEver Road - Shoal Creek 115 kV transmission line with 1033 ACSR for 100°C operation.
Supporting Statement:	The McEver Road – Shoal Creek 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**MOBILE AREA NETWORKING – 3RD PATH**
Description:	Construct a new substation at Dawes Tap on the Big Creek to N. Theodore 115 kV transmission line. Reconductor approximately 4.0 miles of 115 kV transmission line from Lott Road to Schillinger Road with 795 ACSS at 200°C. Reconductor approximately 6.3 miles of 115 kV transmission line from North Mobile to Michael Blvd with 397 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2023
Project Name:	**NORTH THEODORE AREA PROJECT**
Description:	Construct approximately 5.3 miles of new 115 kV transmission line to the Praxair Tap from North Theodore and add a switching station near Multistate CU. Reconductor approximately 1.0 mile of the Hollinger's Island DS – Holcim CU 115 kV transmission line to 795 ACSR at 100°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2023
Project Name:	**RECONDUCTOR / REBUILD LONG BEACH - PASS CHRISTIAN 115 KV LINE**
Description:	Reconductor the 3.6 mile, Long Beach - Olson - Pass Christian 115 kV line segments with 1033 ACSR (or equivalent).
Supporting Statement:	This line can overload under contingency.

In-Service Year:	2023
Project Name:	**SOUTH BIRMINGHAM 115 KV PROJECT**
Description:	Construct a 115 kV switching station (Lakeshore SS) between Bessemer TS and Magella TS that loops in the existing Bessemer to Magella 115 kV transmission line and the North Helena to Patton Chapel 115 kV transmission line. Construct another 115 kV switching station (Massey Road SS) by expanding Massey Road DS and looping in the South Jefferson to North Helena 115 kV transmission line.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2024
Project Name:	**ALCOVY ROAD - SKC 115 KV TRANSMISSION LINE RECONDUCTOR**
Description:	Reconductor approximately 0.53 mile of 336 ACSR conductor with 1033 ACSR conductor from Alcovy Road to Alcovy Road Jct. on the Alcovy Road - SKC 115 kV line.
Supporting Statement:	The Alcovy - SKC 115 kV line overloads during contingency.

In-Service Year:	2024
Project Name:	**AVALON JUNCTION - BIO 115 KV TRANSMISSION LINE REBUILD**
Description:	Rebuild approximately 9 miles of the Avalon Junction - Bio 115 kV transmission line (636 ACSR/795 ACSR) with 100°C 1351 ACSR and replace the terminal equipment at various substations.
Supporting Statement:	The Avalon Junction - Bio 115 kV transmission line overloads under contingency in import scenarios.

In-Service Year:	2024
Project Name:	**CONYERS 230 KV BUS REPLACEMENT (ON CONYERS - KLONDIKE 230 KV LINE)**
Description:	Replace the 230 kV, 1590 AAC bus at Conyers with a bus that can carry at least 2000 A.
Supporting Statement:	The Conyers 230 kV bus overloads during contingency.

In-Service Year:	2024
Project Name:	**ELLICOTT SUBSTATION EXPANSION PROJECT**
Description:	This project will relocate six existing 115 kV transmission lines to a new 115 kV substation.
Supporting Statement:	Upgrade existing and construct new transmission facilities to provide additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2024
Project Name:	**GOSHEN - SOUTH AUGUSTA (WHITE) 230 KV TRANSMISSION LINE RECONDUCTOR**
Description:	Reconductor approximately 9.3 miles of 100° C 1351 ACSR with 150° C 1351 ACCR. Replace 1590 AAC jumpers at Goshen and South Augusta with 2-1590 AAC jumpers.
Supporting Statement:	The Goshen - South Augusta (White) 230 kV line overloads under contingency.

In-Service Year:	2024
Project Name:	**JORDAN DAM - NORTH SELMA 115KV TL**
Description:	Reconductor approximately 24 miles of 397 ACSR 115kV TL with 795 ACSS at 200°C between Jordan Dam & Vida TS.
Supporting Statement:	The Jordan Dam - North Selma 115 kV transmission line overloads under contingency. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2024
Project Name:	**OHARA 230 KV SUBSTATION BUS TIE BREAKERS**
Description:	Install 230 kV 3000 A series bus tie breakers between O'Hara Bus 1 & Bus 2.
Supporting Statement:	Overloads occur at O'Hara Substation under contingency.

In-Service Year:	2025
Project Name:	**ALBERTA CITY - HOLT 115 KV TL**
Description:	Reconductor approximately 4 miles of 795 ACSR at 100°C to 795 ACSS at 200°C.
Supporting Statement:	This line overloads under contingency.

In-Service Year:	2025
Project Name:	**EUFAULA – FORT MITCHELL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 10.0 miles of 397 ACSR of the Eufaula to Ft. Mitchell 115 kV transmission line with 795 ACSR at 100°C .
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2025
Project Name:	**LEEDS TS – MOODY SS 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 5.0 miles of 795 ACSR at 100°C with 1033.5 ACSS at 200°C.
Supporting Statement:	The Leeds to Moody 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**SILVERHILL TS 3RD AUTOBANK**
Description:	Add 3rd 230/115 kV Autobank at Silverhill TS during infrastructure project.
Supporting Statement:	The Silverhill 230/115 kV autobank overloads under contingency.

In-Service Year:	2026
Project Name:	**BLANKETS CREEK – WOODSTOCK 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 2.5 miles of the Blankets Creek – Woodstock 115 kV transmission line with 1351 ACSR conductor at 100°C.
Supporting Statement:	The Blankets Creek – Woodstock 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**FULLER ROAD - COLUMBUS FIRST AVE 115KV TL**
Description:	Reconductor approximately 3 miles of 397 ACSR 115 kV TL at 100°C to 795 ACSR at 100°C from Columbus First Ave to Phenix Lumber.
Supporting Statement:	This line overloads under contingency.

In-Service Year:	2026
Project Name:	**GADSDEN – GULF STATES STEEL 115 KV TRANSMISSION LINE**
Description:	(1.) Reconductor approximately 2.5 miles 397 26/7 ACSR to 795 ACSR 267/ from Gulf States Steel to Morgan's Crossroads. (2.) Replace Gulf States Steel DS with a new 5-terminal, 4-breaker 115 kV ring bus SS across the street from the existing substation. (3.) Rebuild Praxair DS (115/6.9 kV) and connect it to the ring via a single terminal.
Supporting Statement:	The Gulf States Steel to Morgan's Crossroads 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**JONESBORO - OHARA 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6 miles of existing 1351 ACSR using 160°C 1351 ACSS. Replace the jumpers and bus with 2-1590 AAC at the Jonesboro substation. Replace the jumpers with 2-1590 AAC and line trap with a 2000A line trap at the O'Hara substation.
Supporting Statement:	The Jonesboro - O'Hara 230 kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**MILLER - GORGAS 230 KV TL UPGRADE**
Description:	Upgrade approximately 16 miles of 1351 54/19 ACSR at 100° to 125°C.
Supporting Statement:	This line overloads under contingency.

In-Service Year:	2026
Project Name:	**MOSS POINT EAST – PASCAGOULA BAYOU CASOTTE 115 KV TRANSMISSION LINE**
Description:	Construct approximately 2.7 miles of new 1033.5 ACSR 115 kV transmission line at 100°C from Moss Point East and connect into the existing BP Amoco to Pascagoula Bayou Cassotte 115 kV transmission line.
Supporting Statement:	The Moss Point East to Pascagoula MS Chemical 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**NORTH BAY MINETTE AREA SOLUTION**
Description:	Construct a new substation at Bay Minette Tap and upgrade approximately 12.4 miles of the Bay Minette DS to Steelwood 115 kV transmission line to 100°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2026
Project Name:	**NORTH MARIETTA – SMYRNA (BLACK & WHITE) 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 2.4 miles of the North Marietta – Lockheed Martin Tap section of the North Marietta – Smyrna Black and White 115 kV transmission lines with 657 ACSR at 100°C. (2.4 miles on each line).
Supporting Statement:	The North Marietta – Lockheed Martin Tap section of the North Marietta – Smyrna Black and White 115 kV transmission line overload under contingency.

In-Service Year:	2027
Project Name:	**ANNISTON - CROOKED CREEK 115 KV TL**
Description:	Upgrade approximately 24 miles of 397 ACSR 115 kV TL from 75°C to 100°C from Friendship DS to Crooked Creek TS.
Supporting Statement:	Overloads under contingency.

In-Service Year:	2027
Project Name:	**BAY CREEK - CONYERS 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 4.42 miles of 100°C 795ACSR.
Supporting Statement:	The Conyers to Rockdale section of the Bay Creek - Conyers 230 kV Line overloads under contigency.

In-Service Year:	2027
Project Name:	**KLONDIKE - MORROW 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 11.2 miles of 1351 ACSR with 2-795 ACSR conductor on the Klondike - Morrow 230 kV line. Replace terminal equipment at both substations.
Supporting Statement:	The Klondike - Morrow 230 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**NELSON 230/115 KV AUTOBANK REPLACEMENT**
Description:	Replace both existing 230/115 kV autotransformers with a new 400 MVA 230/115 kV autotransformer.
Supporting Statement:	The existing 230/115 kV autobanks overload during contingency.

In-Service Year:	2027
Project Name:	**SOUTH HALL 500/230 KV 2ND AUTO BANK**
Description:	Install a second 500/230 kV, 2016 MVA transformer at the South Hall 500/230 kV substation.
Supporting Statement:	The Dawson Crossing - Gainesville 115 kV line, Dawson Crossing - Nelson (White) 115 kV line, and the Dawson Crossing 230/115 kV Bank A overload under contingency. This project also addresses numerous loading issues seen under multiple contingency scenarios.

In-Service Year:	2028
Project Name:	**CLARKSTON - SCOTTDALE 115 KV TRANSMISSION LINE**
Description:	Upgrade the Clarkston - Scottdale 115 kV line to a 160°C rating.
Supporting Statement:	The Clarkston - Scottdale 115 kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**CONYERS - KLONDIKE 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.64 miles 100°C 1622 ACSR/TW with 160°C 1351 ACSS.
Supporting Statement:	The Conyers - Klondike 230 kV line overloads during contingency.

In-Service Year:	2029
Project Name:	**HOPEWELL 230/115 KV AUTOBANK**
Description:	Replace the 280 MVA 230/115 kV autobank at Hopewell with a 400MVA bank.
Supporting Statement:	The Hopewell 230/115kV autobank A overloads under contingency.

In-Service Year:	2029
Project Name:	**S. COWETA - S. GRIFFIN 115 KV TRANSMISSION LINE, (S. COWETA-BROOKS)**
Description:	Reconductor the line section from South Coweta to Brooks (approximately 5 miles) on the South Coweta - South Griffin 115 kV circuit.
Supporting Statement:	The South Coweta – South Griffin 115 kV transmission line overloads under contingency.

In-Service Year:	2030
Project Name:	**BULL SLUICE - GLAZE DRIVE 230 KV TRANSMISSION LINE**
Description:	Re-sag 160°C 1351 SSAC to 200°C.
Supporting Statement:	Bull Sluice - Glaze Drive 230 kV Line overloads under contingency.

In-Service Year:	2030
Project Name:	**NORTH SPRINGS SWITCH AND BUS REPLACEMENT (ON BULL SLUICE - NORTHPARK 230**
Description:	Replace switches, bus and jumpers at North Springs.
Supporting Statement:	Switches at North Springs overload under contingency.

In-Service Year:	2021
Project Name:	**ALCOA SS – NIXON ROAD 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 12.0 miles of the Alcoa North – Nixon Road 161 kV transmission line with 1590 ACSR at 100°C and construct approximately 2.0 miles of new transmission line to create the Alcoa SS – Nixon Rd 161 kV #2 transmission line.
Supporting Statement:	The Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.

In-Service Year:	2021
Project Name:	**ATHENS, TN 161KV SUBSTATION**
Description:	Upgrade bus work and terminal equipment at the Athens, TN 161 kV substation to 836 MVA.
Supporting Statement:	The terminal equipment and bus work at Athens TN 161 kV overloads under contingency.

In-Service Year:	2021
Project Name:	**COUNCE, TN 161 KV SUBSTATION**
Description:	Convert Counce 161 kV switchyard to a double breaker arrangement. Loop existing Pickwick to Tri State Commerce Park 161 kV transmission line into Counce 161 kV station.
Supporting Statement:	Additional voltage support is needed in the Counce, TN area under contingency.

In-Service Year:	2021
Project Name:	**GALLATIN - CAIRO BEND 161 KV TRANSMISSION LINE**
Description:	Reconductor approximately 2.2 miles of the Gallatin - Cairo Bend 161 kV transmission line section with 954 ACSS at 150°C and upgrade terminal equipment to 440 MVA at Gallatin 161 kV.
Supporting Statement:	The Gallatin FP - Cairo Bend 161 kV transmission line section overloads under contingency.

In-Service Year:	2021
Project Name:	**MOSCOW – CHICKASAW TRAILS 161 KV TRANSMISSION LINE**
Description:	Construct the Chickasaw Trails 161 kV Substation and the Diffee 161 kV Substation. Construct approximately 17.0 miles for new Chickasaw Trails - Moscow 161 kV transmission line with 954 ACSR at 100°C. Loop existing Miller – Holly Springs 161 kV transmission line into the Chickasaw Trails substation.
Supporting Statement:	Thermal overloads and voltage support is needed in the Olive Branch and Chickasaw Trails area under contingency.

In-Service Year:	2022
Project Name:	**ARTESIA - W. COLUMBUS 161 KV TRANSMISSION LINE**
Description:	Construct the Artesia 161 kV Substation. Construct approximately 12.0 miles for Artesia - W. Columbus with 954 ACSS at 150°C. Reconductor approximately 15.0 miles of W. Point - Starkville 161 kV with 954 ACSS at 150°C.
Supporting Statement:	Thermal overloads and voltage support is needed in the West Point and Columbus area under contingency.

In-Service Year:	2022
Project Name:	**KNOX - DOUGLAS 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 15.0 miles of the Knox – Douglas 161 kV transmission line with 954 ACSS at 125°C.
Supporting Statement:	The Knox – Douglas 161 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**PHIPPS BEND 500 KV SUBSTATION**
Description:	Rebuild structures with weathered steel in the Phipps Bend 500 and 161 kV yard.
Supporting Statement:	Steel structures in the Phipps Bend 500 kV and 161 kV yards are beginning to show signs of corrosion and will be replaced.

In-Service Year:	2023
Project Name:	**ANDERSON 500 KV SUBSTATION**
Description:	Build new Anderson 500kV Substation and build Anderson 500/161 kV transformer.
Supporting Statement:	500/161 kV transformer in the area overloads under contingency.

In-Service Year:	2023
Project Name:	**BATESVILLE AREA IMPROVEMENT PLAN**
Description:	Construct approximately 18.0 miles of new 161kV transmission line from North Oakland - Coffeeville using 954 at 100°C and upgrade terminal equipment to 472 MVA at Batesville 161 kV.
Supporting Statement:	Multiple 161 kV transmission lines overload under contingency.

In-Service Year:	2023
Project Name:	**NORTH DAYTON 161 KV TRANSMISSION LINE**
Description:	Construct North Dayton 161 kV substation. Loop in Sequoyah - WBHP 161 kV transmission line into new substation by constructing approximately 27.0 miles of transmission line using 1351 ACSR.
Supporting Statement:	Thermal overloads and voltage support is needed in the North Dayton, TN area under contingency.

In-Service Year:	2023
Project Name:	**WILSON - LEBANON 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 6.0 miles on the Wilson - Lebanon 161 kV transmission line with 636 ACSR at 100°C and upgrade terminal equipment to 230 MVA at Lebanon 161 kV substation.
Supporting Statement:	The Wilson - Lebanon 161 kV transmission line overloads under contingency.

In-Service Year:	2024
Project Name:	**NORTH OAKLAND - COFFEEVILLE 161 KV TRANSMISSION LINE**
Description:	Construct approximately 18.0 miles of new 161 kV transmission line from North Oakland - Coffeeville using 954 ACSR at 100°C and upgrade terminal equipment to 472 MVA at Batesville 161 kV substation.
Supporting Statement:	Multiple 161 kV transmission lines overload under contingency.

In-Service Year:	2025
Project Name:	**WILSON - GLADEVILLE 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 6.0 miles on the Wilson - Lebanon 161 kV transmission line with 636 ACSR at 100°C and upgrade terminal equipment to 230 MVA at Lebanon 161 kV.
Supporting Statement:	The Wilson - Gladeville 161 kV transmission line section overloads under contingency.