Southeastern Regional TRANSMISSION PLANNING

PRELIMINARY 10 YEAR TRANSMISSION EXPANSION PLANS

Original: June 16, 2019

Revised: July 2, 2019

Southeastern Regional Transmission Planning (SERTP)

PRELIMINARY 10 YEAR TRANSMISSION EXPANSION PLANS

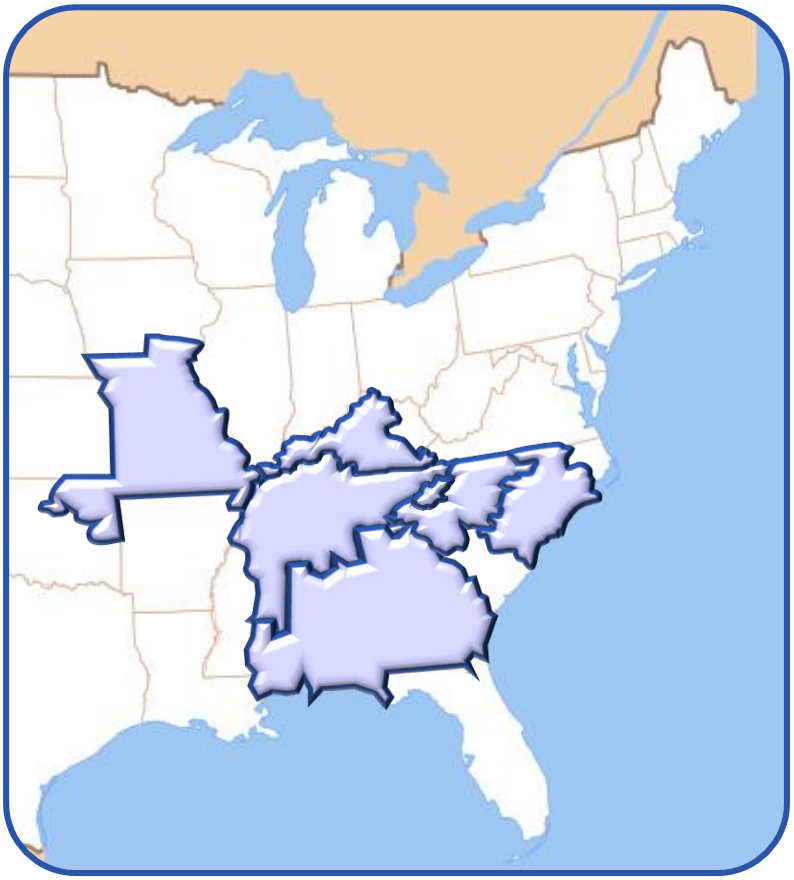
Associated Electric Cooperative Inc.

Dalton Utilities

Duke Energy

Georgia Transmission

LG&E KU



MEAG Power

Gulf Power

PowerSouth Energy Cooperative

Southern Company

TVA

June 17, 2019

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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.

AECI Balancing Authority Area

In-Service Year:	2020
Project Name:	**MACEDONIA – DILLON 138 KV T.L. & MACEDONIA 138 KV SUBSTATION**
Description:	Construct approximately 1.1 miles of 138 kV transmission line from Macedonia to Dillon (Ameren) with 795 ACSR at 100°C and install a 56 MVA 138/69 kV transformer at Macedonia.
Supporting Statement:	The Maries – Rolla West transmission line overloads under contingency and additional voltage support is needed in the Maries and Rolla areas under contingency

In-Service Year:	2020
Project Name:	**ORCHARD 230/100 KV TIE**
Description:	Construct a new 230/100 kV Tie Station, southwest of Maiden NC at the intersection of the Lincoln CT - Longview Tie 230 kV transmission line and the Lincolnton Tie - Hickory Tie 100 kV transmission line.
Supporting Statement:	To support additional load growth in the area.

In-Service Year:	2020
Project Name:	**RURAL HALL STATIC VAR COMPENSATOR (SVC)**
Description:	Install a new 100 kV, +100/-300 Static VAR Compensator (SVC) at Rural Hall Tie.
Supporting Statement:	Additional voltage support is needed in the northern region of Duke Energy Carolinas Balancing Authority Area under contingency.

In-Service Year:	2021
Project Name:	**BELEWS CREEK - ERNEST TIE 230KV TRANSMISSION LINE**
Description:	Reconductor entire 13.7 miles of the Belews Creek - Ernest Tie 230kV transmission line with 1158 ACSS/TW at 200°C.
Supporting Statement:	The Belews Creek - Ernest Tie 230kV transmission line overloads under contingency

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In-Service Year:	2021
Project Name:	**ERNEST TIE - SADLER TIE 230KV INLINE REACTORS**
Description:	Add 3% reactors to both circuits of the Ernest Tie - Sadler Tie 230kV transmission line
Supporting Statement:	The Ernest Tie - Sadler Tie 230 kV transmission line overloads under contingency

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In-Service Year:	2021
Project Name:	**ERNEST TIE EXPANSION**
Description:	Expand Ernest Tie to allow new generator interconnection
Supporting Statement:	Ernest Tie needs to be expanded to allow new generation interconnection

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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:	2021
Project Name:	**SADLER TIE THIRD AUTOTRANSFORMER**
Description:	Add third 448MVA autotransformer to Sadler Tie
Supporting Statement:	Sadler Tie transformers overloads under contingency

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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:	Replace the two 230/100kV transformers at Allen Steam station with two 448MVA auto transformers. To facilitate the generation retirement at Allen Steam Station, both 230/100kV autotransformers need to be replaced with larger 448MVA units
Supporting Statement:	Allen Steam Station autotransformers overload under contingency

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In-Service Year:	2025
Project Name:	**BECKERDITE – LINDEN ST 100 KV TRANSMISSION LINE**
Description:	Reconductor approximately 16.0 miles of the double circuit Beckerdite – Linden St. 100 kV transmission line with bundled 477 ACSR.
Supporting Statement:	The Beckerdite – Linden St. 100 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**CENTRAL – SHADY GROVE 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 18.0 miles of the Central – Shady Grove 230 kV transmission line with bundled 954 ACSR at 120°C.
Supporting Statement:	The Central – Shady Grove 230 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**MONROE – LANCASTER 100 KV TRANSMISSION LINE**
Description:	Rebuild approximately 20.0 miles of the Monroe – Lancaster 100 kV transmission line with 954 ACSR at 120°C.
Supporting Statement:	The Monroe – Lancaster 100 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**PLEASANT GARDEN 500/230 KV SUBSTATION**
Description:	Upgrade the existing 500/230 kV transformer to 2078 MVA at Pleasant Garden Substation. Replace CTs and aluminum bus – work on the Pleasant Garden 500/230 kV transformer.
Supporting Statement:	The existing Pleasant Garden 500/230 kV transformer overloads under contingency.

In-Service Year:	2025
Project Name:	**STAMEY – STATESVILLE 100 KV TRANSMISSION LINE**
Description:	Reconductor approximately 8.0 miles of the Stamey – Statesville 100 kV transmission line with 795 ACSR and 954 ACSR at 120°C.
Supporting Statement:	The Stamey – Statesville 100 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**WALNUT COVE – RURAL HALL 100 KV TRANSMISSION LINE**
Description:	Split approximately 10.0 miles of the bundled six wire Walnut Cove – Rural Hall 100 kV transmission line circuit into two circuits.
Supporting Statement:	The Walnut Cove – Rural Hall 100 kV transmission line overloads under contingency.

In-Service Year:	2020
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:	2020
Project Name:	**GRANT'S CREEK – JACKSONVILLE 230 KV TRANSMISSION LINE**
Description:	Construct approximately 12.0 miles of new 230 kV transmission line from Jacksonville 230 kV substation to a new 230 kV substation at Grant's Creek with bundled 6-1590 ACSR or equivalent conductor rated for 1195 MVA. Build the new 230 kV Grant's Creek substation with four 230 kV breakers and a new 230/115 kV, 300 MVA transformer.
Supporting Statement:	The Havelock – Jacksonville 230 kV transmission line overloads under contingency and additional voltage support is needed in the Jacksonville area.

In-Service Year:	2020
Project Name:	**HARLOWE – NEWPORT 230 KV TRANSMISSION LINE**
Description:	Construct a new 230 kV switching station at Newport, construct a new 230 kV substation at Harlowe, and construct approximately 10.0 miles of new 230 kV transmission line from Harlowe to Newport Area with 1590 ACSR or equivalent conductor rated for 680 MVA.
Supporting Statement:	Additional voltage support is needed in the Havelock – Morehead area under contingency.

In-Service Year:	2020
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:	2020
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:	2020
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:	2020
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:	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:	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:	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:	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:	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:	**SINAI-CALLAWAY 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:	**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:	2023
Project Name:	**ARGYLE – SANTA ROSA 230 KV TRANSMISSION LINE**
Description:	Construct new switching station on the Shoal River – Shaky Joe 230 kV TL Construct ~45 miles of 1351 ACSR at 100°C 230 kV transmission line rated at 1,512 Amps (602MVA) from new 230 KV switching station (Argyle) north of Shaky Joe to Santa Rosa TS Install a 2nd 230/115 kV transformer at Santa Rosa TS
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:	2020
Project Name:	**CARROLLTON - CLIFTY CREEK 138 KV TRANSMISSION LINE**
Description:	Upgrade the 138 kV terminal equipment rated less than 1182 amps winter emergency rating to 1182 amps or greater associated with breaker 067-744 at Carrollton (Carrollton to Clifty Creek 138 kV). This should include at a minimum the Bushing CT (x135). Change the relay settings associated the Carrollton to Clifty Creek 138 kV line so protection will not trip under load for less 1800 amps.
Supporting Statement:	The Carrollton - Clifty Creek 138 kV transmission line overloads under contingency.

In-Service Year:	2020
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:	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:	2022
Project Name:	**CARROLLTON - LOCKPORT 138 KV TRANSMISSION LINE**
Description:	Replace the 600 amp switches at Carrollton associated with breaker 067-704 and the Carrollton-Lockport 138kV line with 1200 amp switches.
Supporting Statement:	The Carrollton - Lockport 138 kV transmission line overloads under contingency.

In-Service Year:	2022
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:	2022
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:	2022
Project Name:	**WEST LEXINGTON 345/138 #2 TRANSFORMER**
Description:	Install a second West Lexington 450 MVA, 345/138 kV transformer.
Supporting Statement:	The West Lexington 345/138 kV Transformer #1 overloads under contingency.

In-Service Year:	2023
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:	2024
Project Name:	**CANE RUN SWITCH - CANE RUN 11 TAP 138 KV TRANMISSION LINE**
Description:	Increase the confirmed MOT of the 795 ACSR (1.82 mi) in the Cane Run Switch-Cane Run 11 Tap 138 kV line from 176 F to 212F.
Supporting Statement:	The Cane Run Switch - Cane Run 11 Tap 138 kV transmission line overloads under contingency.

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:	**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:	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:	**BASSETT CREEK – LOWMAN 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 24.0 miles of 397 and 795 ACSR from Bassett Creek to Lowman 115 kV transmission line with 1033.5 ACSS at 200°C.
Supporting Statement:	The Bassett Creek to McIntosh 115 kV transmission lines overload under contingency. These projects provide additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2020
Project Name:	**BLAKELY PRIMARY – DAWSON PRIMARY 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 25.6 miles of 50°C 266 ACSR 115 kV transmission line from Blakely Primary to Greenhouse Road with 100°C 765 ACSR. GTC to build 20.4 miles of new 115kV transmission line from Greenhouse Road to Dawson Primary with 100°C 765 ACSR.
Supporting Statement:	The Blakely Primary – Mitchell 115 kV transmission line overloads under contingency.

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 heavily loaded 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:	**GRANITEVILLE, SC - SOUTH AGUSTA 115 & 230 KV TRANSMISSION LINE**
Description:	Construct a new 5.2 mile 230 kV tie-line (GPC to SCE&G) from the South Augusta 230/115 kV substation to the GA/SC state-line with bundled 1351 ACSR at 100°C. Construct a 5-breaker 115 kV switching station. Construct a new transmission line from the switching station to the GA/SC state line (Approximately 1.2 miles) with 1351 ACSR at 100°C. Rebuild approximately 4.0 miles of existing transmission line between South Augusta and the new switching station with 1351 ACSR at 100°C.
Supporting Statement:	The Savannah River (SCE&G) – Vogtle 230 kV tie-line and multiple other transmission facilities on the SCE&G system overload under contingency.

In-Service Year:	2020
Project Name:	**HARRIS – NORTH SELMA 230 KV TRANSMISSION LINE**
Description:	Rebuild approximately 26.0 miles of the Harris SS to North Selma 230 kV transmission line with 1033 ACCR at 200°C.
Supporting Statement:	The Harris to North Selma 230 kV transmission line overloads under contingency.

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:	**KIMBERLY CLARK – BLAKELY 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:	2020
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:	2020
Project Name:	**LINE CREEK-FAIRBURN 2 115KV LINE UPGRADE**
Description:	Upgrade approximately 1.75 mile 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 115kV Line overloads.

In-Service Year:	2020
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:	2020
Project Name:	**NORTH AMERICUS – PERRY 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 43.0 miles of the existing 115 kV transmission line from North Americus to Perry substation with 795 ACSR at 100°C.
Supporting Statement:	The North Americus – Perry 115 kV transmission 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:	**VOGTLE PILOT PROTECTION SCHEME**
Description:	Add an additional pilot protection scheme on the Augusta Corporate Park to Vogtle 230 kV transmission line.
Supporting Statement:	Ensure the Augusta Corporate Park to Vogtle 230 kV transmission line is redundantly protected.

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:	The Bassett Creek to McIntosh 115 kV transmission lines overload under contingency. These projects provide additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2021
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:	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. (Infrastructure Project)

In-Service Year:	2021
Project Name:	**LAWRENCEVILLE – NORCROSS 230 KV TRANSMISSION LINE**
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:	**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:	**NORTH BAY MINETTE AREA SOULTION**
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:	2021
Project Name:	**US HWY 11 AREA PROJECT**
Description:	Construct approximately 6.0 miles of 795 ACSR from Vance SS to Scott Davis DS 115 kV transmission line.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

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 to enhance reliability in the Augusta, GA area and to support the expansion of Plant Vogtle.

In-Service Year:	2022
Project Name:	**AVALON JUNCTION - BIO 115 KV REBUILD**
Description:	Rebuild approximately 20.5 miles of the Avalon Junction - Bio 115 kV transmission line (636 ACSR/795ACSR) with 100° 1351 ACSR and replace the terminal equipment at various substations.
Supporting Statement:	The Avalon Junction - Bio 115 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**BASSETT CREEK – ELLICOTT 230 KV TRANSMISSION LINE**
Description:	Construct approximately 60.0 miles of 1351 ACSS from Bassett Creek to Tensaw to Calvert to Ellicott 230 kV transmission line.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2022
Project Name:	**DUCANVILLE – SOUTH BESSEMER 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 27.0 miles of 1033.5 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:	**GORDON - N. DUBLIN (N. DUBLIN - EVERGRN CH) 115 KV UPGRADE**
Description:	Upgrade approximately 7.94 miles of 4/0 Cu, 115 kV transmission line to operate at 75°C from N. Dublin - NW Dublin - Evergreen Church on the Gordon - N. Dublin 115 kV transmission line.
Supporting Statement:	The N. Dublin - Evergreen Church 115 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**MCEVER ROAD - SHOAL CREEK 115 KV 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:	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:	The Line Creek-Fairburn 2 115kV Line overloads.

In-Service Year:	2023
Project Name:	**BASSETT CREEK – THOMASVILLE 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 11.3 miles of 397.5 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:	**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:	This project eliminates high loadings under contingency scenarios. This project also provides additional operational and maintenance flexibility, which increases reliability.

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.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2023
Project Name:	**FAYETTE – GORGAS 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 37.0 miles of 397.5 ACSR at 100°C on the Fayette to Gorgas 161 kV transmission line, with 795 ACSS at 200°C.
Supporting Statement:	The Fayette to Gorgas 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:	**HATTIESBURG HWY 11 – HATTIESBURG CO. DRIVE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.2 mile 115 kV transmission line between Hattiesburg Hwy 11 to Hattiesburg Co. Drive with 795 ACSR at 100°C.
Supporting Statement:	The Hattiesburg Hwy 11 to Hattiesburg Co. Drive 115 kV transmission line overloads under contingency.

In-Service Year:	2023
Project Name:	**HOPE HULL AREA SOLUTION**
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:	**KETTLE CREEK PRIMARY-PINE GROVE PRIMARY 115KV PHASE I**
Description:	Upgrade approximately 20.5 miles of 50°C 4/0 ACSR to75°C operation from Kettle Creek Primary to Sandy Bottom.
Supporting Statement:	Kettle Creek Primary to Sandy Bottom line segment overloads under contingency.

In-Service Year:	2023
Project Name:	**LIVE OAK – STATESBORO PRIMARY & LIVE OAK – WADLEY PRIMARY 115 KV UPGRADES**
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 (155 MVA capability). Also, upgrade the Live Oak - Stillmore section (5.94 miles of 50°C 477 ACSR) of the Live Oak - Wadley Primary 115 kV transmission line to 100°C 477 ACSR (155 MVA capability). Replace switches and jumpers at Metter Primary. Replace bus, switches and jumpers at Metter. Confirm equipment at Stillmore substation meets or exceeds the new rating of the line rating.
Supporting Statement:	The Live Oak – Statesboro Primary 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:	**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:	2023
Project Name:	**TIGER CREEK 230 KV SERIES REACTORS**
Description:	GTC: 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:	2024
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:	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. (Infrastructure Project)

In-Service Year:	2025
Project Name:	**BRUNSWICK-SAINT SIMONS 115KV**
Description:	Reconductor the Brunswick-Stonewall Street section to 100 °C 795 ACSR for 2.7 miles (from existing 1.27 miles of 75 °C 477 and 1.35 miles of 100 °C 477 ACSR). Replace three 600A switches with 1200A switches.
Supporting Statement:	The Brunswick-Saint Simons 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**COOSAWATTEE-EAST DALTON 115KV**
Description:	Reconductor 12 miles of 100°C 336 ACSR with 100°C 795 ACSR from Chatsworth to Cooswattee.
Supporting Statement:	The Coosawattee – East Dalton 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**DALTON-OOSTANAULA 115KV**
Description:	Reconductor approximately 11.6 miles of the existing 115kV line from Dalton to Oostanaula with 795 ACSR at 100°C.
Supporting Statement:	The Dalton-Oostanaula 115kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**EVANS PRIMARY – THOMSON PRIMARY 115 KV TRANSMISSION LINE**
Description:	Reconductor the Kiokee JCT - Partriots Park section of the Evans Primary - Thomson Primary 115 kV line, approximately 2.9 miles with 100 degree C 795 ACSR and replace jumpers at Patriot's Park with 1033 90°C AAC Larkspur.
Supporting Statement:	The Evans Primary – Thomson Primary 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**GADSDEN – GULF STATES STEEL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 2.5 miles of 397 ACSR along the Gulf States Steel to Morgan's Crossroads 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Gulf States Steel to Morgan's Crossroads 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**SINCLAIR DAM – WARRENTON 115 KV RECONDUCTOR PHASE I**
Description:	Reconductor approximately 17.4 miles of 115 kV transmission line from Buffalo Road to Warrenton, along the Sinclair Dam to Warrenton 115 kV transmission line with 795 ACSR at 100°C. Replace 90°C 4/0 CU jumpers with AAC 1590 at Buffalo Road.
Supporting Statement:	The Sinclair Dam – Warrenton 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**YATES UNIT 8 NETWORK IMPROVEMENTS**
Description:	1. South Coweta – South Griffin 115 kV Line: Rebuild the South Coweta - Brooks section. 5.1 miles of 100C 477 ACSR, with 100C 1033 ACSR conductor. Replace the 750 AAC jumpers and 636 ACSR bus with1590 AAC at Brooks (GTC) 2. Union City – Yates (White) 230 kV Line: Reconductor the line, 23 miles of 100°C 1033 ACSR, with 200°C 1033 ACSS. 3. Klondike - Morrow 230kV Line: At Klondike, install a second 1590 AAC jumpers on the Klondike - Morrow 230kV line. At Morrow, replace the 1590 AAC main bus with a bus capable of carrying 2000A, install a second 1590 AAC jumper and replace the 1600 A trap with a 2000 A trap on the Klondike - Morrow 230kV line. Reconductor 11.23 miles of 1351 ACSR with 2-795 ACSR conductor from Klondike to Str. #312 on the Klondike - Morrow 230kV line. 4. Install a second 230/115-Kv, 400 MVA transformer at Dyer Road and at Conyers - Replace the 1590 AAC main 230 Kv bus with a bus capable of carrying 2000A.
Supporting Statement:	The addition of Plant Yates Unit 8 generation causes various facilities in the northwestern Georgia area to overload.

In-Service Year:	2026
Project Name:	**ALICEVILLE – COCHRANE 115 KV TRANSMISSION LINE**
Description:	Construct a 115/46 kV station at Cochrane TS. Construct approximately 9.0 miles of 115 kV transmission line from Aliceville TS to Cochrane TS, with 397.5 ACSR at 100°C. Install a 15 MVAR capacitor bank at Aliceville TS and Cochrane TS.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability. This project also provides voltage support under contingency scenarios.

In-Service Year:	2026
Project Name:	**FIRST AVENUE 230/115 KV TRANSFORMER 4**
Description:	Replace the 1200A switch on the lowside of the transformer #4 with a 2000A switch.
Supporting Statement:	The switch overloads under contingency.

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:	**AULTMAN ROAD - BONAIRE PRIMARY 115 KV RECONDUCTOR II**
Description:	Reconductor approximately 1.99 miles of the Sleepy Hollow - Peach Blossom 115 kV transmission line section (presently 100°C 336 ACSR) of the Aultman Road - Bonaire 115 kV transmission line, with 100°C 795 ACSR.
Supporting Statement:	The Aultman Road - Bonaire Primary 115 KV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**BRANCH UNIT 5 NETWORK IMPROVEMENTS**
Description:	Various system improvements in support of Branch Unit 5 (proxy generation). Reconductor the entire Bonaire Primary – Kathleen 115KV line, 5.86 miles of 100°C 336 ACSR, using 100°C 795 ACSR. Reconductor the Branch - Verner Farms line (9.7 miles of 100°C 1351 ACSR) using 160°C 1351 ACSS. Reconductor the Eatonton Primary-Verner Farms 230kV (25.6 miles of 100°C 1351 ACSR) using 160°C 1351 ACSS. Replace 1590 AAC main bus, jumpers at Eatonton Primary, and jumpers at Branch, with 2-1590 AAC. Replace switches at Eatonton Primary with 2000A switches.
Supporting Statement:	The addition of Plant Branch Unit 5 generation causes various facilities in the northern Georgia area to overload.

In-Service Year:	2027
Project Name:	**DEAL BRANCH – SYLVANIA 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 23.8 miles, along the Deal Branch – Sylvania 115 kV transmission line to 100°C operation.
Supporting Statement:	The Deal Branch – Sylvania 115 kV transmission line overloads under contingency.

In-Service Year:	2020
Project Name:	**OXFORD – COFFEEVILLE 161 KV TRANSMISSION LINE**
Description:	Construct approximately 30.0 miles of the new Oxford – Coffeeville 161 kV transmission line with 954 ACSR at 100°C.
Supporting Statement:	Additional voltage support is needed in the Oxford, MS and Coffeeville, MS areas under contingency.

In-Service Year:	2020
Project Name:	**RED HILLS – LEAKE 161 KV TRANSMISSION LINE**
Description:	Construct approximately 60.0 miles of 161 kV transmission line from Red Hills to Leake with 954 ACSS at 160°C.
Supporting Statement:	Multiple 161 kV transmission lines overload and additional voltage support is needed in the lower Mississippi area 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:	**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:	**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:	**KINGSTON-BETHEL VALLEY 161 KV TRANSMISSION LINE #1**
Description:	Reconductor approximately 12.5 miles of the Kingston - Bethel Valley #1 161 kV using 1351 ACSR at 100°C.
Supporting Statement:	Kingston - Bethel Valley #1 161 kV transmission line overloads under contingnecy.

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:	2025
Project Name:	**EAST KNOX – DUMPLIN VALLEY 161 KV TRANSMISSION LINE**
Description:	Reconductor approximately 9.0 miles of the East Knox - Dumplin Valley 161 kV transmission line with 1590 ACSS at 125°C.
Supporting Statement:	The East Knox – Dumplin Valley 161 kV transmission line overloads 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.

In-Service Year:	2026
Project Name:	**LAFOLLETTE 161 KV SUBSTATION**
Description:	Install a capacitor bank of 5, 9 MVAR capacitors at the Lafollette 161 kV Substation.
Supporting Statement:	Additional voltage support is needed in the Lafollette, TN area under contingency.

In-Service Year:	2027
Project Name:	**DOUGLAS-NEWPORT 161 KV TRANSMISSION LINE SECTION**
Description:	Reconductor approximately 19.0 miles of the Douglas to Newport 161 kV transmission line with 954 ACSS at 125°C.
Supporting Statement:	The Douglas - Newport 161 kV transmission line section overloads under contingency.

In-Service Year:	2028
Project Name:	**LIMESTONE 500 KV SUBSTATION**
Description:	Install 500 kV breakers on Browns Ferry and Madison lines at the Limestone 500 kV substation.
Supporting Statement:	A 500/161 kV transformer in the area overloads under contingency.
