Southeastern Regional Transmission Planning (SERTP)

PRELIMINARY 10 YEAR TRANSMISSION EXPANSION PLANS

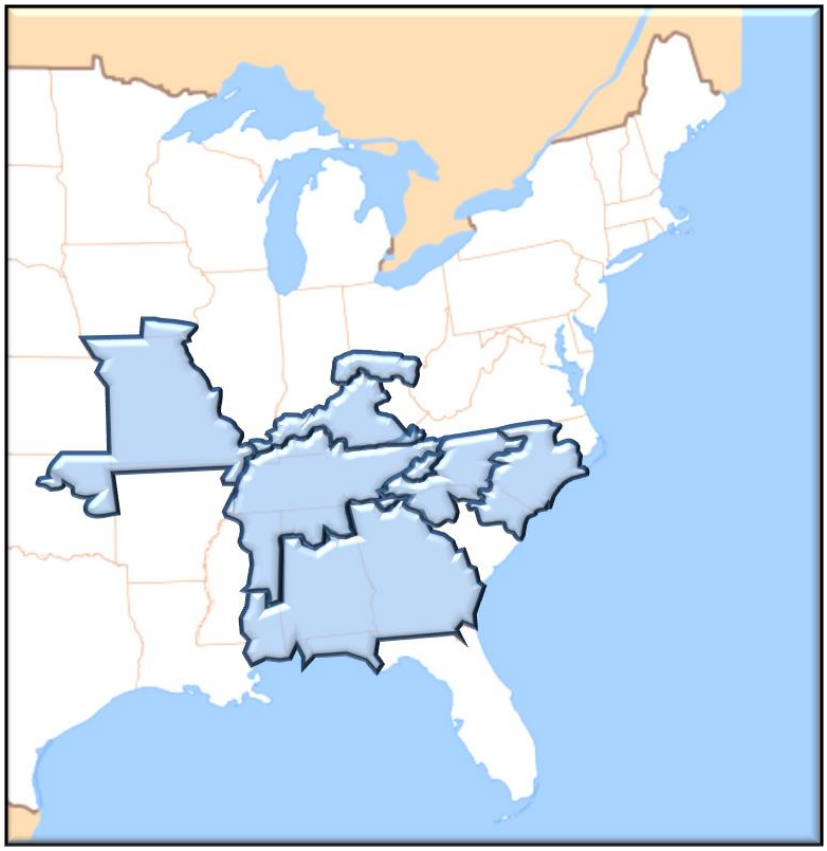
Associated Electric Cooperative Inc.

Dalton Utilities

Duke Energy

Georgia Transmission

LG&E KU



MEAG Power

OVEC IKEC
Ohio Valley Electric Corporation / Indiana-Kentucky Electric Corporation

PowerSouth Energy Cooperative

Southern Company

TVA

June 14, 2018

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:	2019
Project Name:	**BALLANTYNE SWITCHING STATION**
Description:	Convert Springfield Tap into Ballantyne Switching Station.
Supporting Statement:	The Wylie Switching – Morning Star Tie 100 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**BELAIR SWITCHING STATION**
Description:	Construct a new five breaker switching station on the North Greensboro – Robbins Road 100 kV transmission line.
Supporting Statement:	The North Greensboro – Robbins Road 100 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**NORTH GREENVILLE – TIGER 100 KV TRANSMISSION LINE**
Description:	Rebuild approximately 11.0 miles of the North Greenville – Tiger 100 kV transmission line with 954 ACSR at 120°C.
Supporting Statement:	The North Greenville – Tiger 100 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**RIVERBEND STEAM STATION**
Description:	Install two 230/100 kV, 400 MVA transformers at Riverbend Steam Station.
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:	2019
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:	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:	**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:	2020
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:	2024
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:	2024
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:	2024
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:	2024
Project Name:	**PLEASANT GARDEN 500/230 KV SUBSTATION**
Description:	Upgrade the existing 500/230 kV transformer to 2078 MVA at Pleasant Garden Substation.
Supporting Statement:	The existing Pleasant Garden 500/230 kV transformer overloads under contingency.

In-Service Year:	2024
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:	2024
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:	2019
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:	2019
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:	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:	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:	2019
Project Name:	**ASHEVILLE SE PLANT**
Description:	Upgrade the two existing 230/115 kV transformers to 400 MVA each at Asheville SE Plant, reconductor approximately 1.2 miles of the 115 kV north and south transformer tie lines with 1590 ACSR at 100°C, replace the existing breakers with 3000A breakers, and install a 72 MVAR 230 kV capacitor bank.
Supporting Statement:	Necessary upgrades to allow for interconnection of two combined cycle units at Asheville Plant.

In-Service Year:	2019
Project Name:	**CANE RIVER 230 KV STATIC VAR COMPENSATOR (SVC)**
Description:	Install a 230 kV, 150 MVAR Static VAR Compensator (SVC) at Cane River Substation.
Supporting Statement:	Necessary upgrades to allow for interconnection of two combined cycle units at Asheville Plant.

In-Service Year:	2019
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:	2019
Project Name:	**CANE RUN SWITCHING 138 KV REDUNDANT RELAYS**
Description:	Add redundant bus differential and lockout relays at Cane Run 138 kV buses.
Supporting Statement:	Low voltage and generator issues occur in the area under contingency.

In-Service Year:	2019
Project Name:	**MIDDLETOWN 345 KV REDUNDANT RELAYS**
Description:	Install redundant bus differential and lockout relays at the Middletown 345 kV bus.
Supporting Statement:	Low voltage and flow issues occur in the area under contingency.

In-Service Year:	2019
Project Name:	**TRIMBLE COUNTY - CLIFTY 345 KV REACTOR**
Description:	Install a 0.66% 345 kV reactor at Trimble County on the Trimble County - Clifty 345 kV transmission line.
Supporting Statement:	The Trimble County - Clifty Creek 345 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**TRIMBLE COUNTY 345 KV REDUNDANT RELAYS**
Description:	Add redundant bus differential and lockout relays at Trimble Co. 345 kV bus.
Supporting Statement:	Low voltage and flow issues occur in the area under contingency.

In-Service Year:	2019
Project Name:	**WATTERSON - JEFFERSONTOWN TAP 138 KV TRANSMISSION LINE**
Description:	Replace the 138 kV terminal equipment rated less than or equal to 1281A (306 MVA) at Watterson associated with the Watterson-Jefferson Tap 138 kV transmission line with equipment capable of a minimum of 1428A (341 MVA).
Supporting Statement:	The Watterson - Jeffersontown Tap 138 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**WEST LEXINGTON 138 KV REDUNDANT RELAYS**
Description:	Add redundant bus differential and lockout relays at West Lexington 138 kV bus.
Supporting Statement:	Low voltage and flow issues occur in the area under contingency

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In-Service Year:	2020
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:	2020
Project Name:	**HARDIN COUTY 345/138 #2 TRANSFORMER**
Description:	Install a second 345/138 kV, 450 MVA transformer at Hardin County.
Supporting Statement:	Additional voltage support is needed in the Elizabethtown area under contingency.

In-Service Year:	2021
Project Name:	**GHENT - BLACKWELL 138 KV TRANSMISSION LINE**
Description:	Upgrade approximately 23.54 miles of the Ghent to Blackwell 138 kV transmission line to increase the maximum operating temperature of the 795 kCM 26x7 ACSR conductor to at least 160°F.
Supporting Statement:	The Ghent - Blackwell 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 - HAEFLING 138 KV TRANSMISSION LINE**
Description:	Reconductor approximately 7.34 miles of the 795 MCM 26x7 ACSR West Lexington - Haefling 138 kV transmission line, using high-temperature conductor capable of at least 1500A.
Supporting Statement:	The West Lexington - Haefling 138 kV transmission line overloads under contingency.

In-Service Year:	2022
Project Name:	**WEST LEXINGTON - VILEY ROAD 138 KV TRANSMISSION LINE**
Description:	Reconductor approximately 5.19 miles of the 795 MCM 26x7 ACSR West Lexington - Viley Road section of the West Lexington - Viley Road - Haefling 138 kV transmission line, using high-temperature conductor capable of at least 1500A.
Supporting Statement:	The West Lexington - Viley Road 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:	2024
Project Name:	**ASHBOTTOM - CANE RUN SWITCHING 138 KV**
Description:	Upgrade approximately 8.04 miles of the Ashbottom to Cane Run Switch 138 kV transmission line (Bundled 795 ACSR) to increase the maximum operating temperature from 150°F to 155°F.
Supporting Statement:	The Ashbottom to Cane Run Switch 138 kV transmission line overloads under contingency.

In-Service Year:	2024
Project Name:	**CANE RUN SWITCHING 138 KV REDUNDANT TRIP COILS**
Description:	Add redundant trip coils at the Cane Run 138 kV buses.
Supporting Statement:	Low voltage and generator slipping issues occur in the area under contingency.

In-Service Year:	2024
Project Name:	**MIDDLETOWN 345 KV REDUNDANT TRIP COILS**
Description:	Add redundant trip coils at the Middletown 345 kV bus.
Supporting Statement:	Low voltage and flow issues occur in the area under contingency.

In-Service Year:	2024
Project Name:	**TRIMBLE COUNTY 345 KV REDUNDANT TRIP COILS**
Description:	Add redundant trip coils at both Trimble Co. 345 kV buses.
Supporting Statement:	Low voltage and flow issues occur in the area under contingency

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In-Service Year:	2024
Project Name:	**WEST LEXINGTON 138 KV REDUNDANT TRIP COILS**
Description:	Add redundant trip coils at the Middletown 345 kV bus.
Supporting Statement:	Low voltage and generator stability issues occur in the area under contingency

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In-Service Year:	2026
Project Name:	**BLUE LICK - CEDAR GROVE 161 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.7 miles of the Blue Lick - Cedar Grove 161 kV transmission line with 795 ACSR at 100 °C.
Supporting Statement:	The Blue Lick - Cedar Grove 161 kV transmission line overloads under certain normal conditions.

In-Service Year:	2019
Project Name:	**LIBERTY 230/115 KV TRANSFORMER UPGRADE**
Description:	Replace the two existing 230/115 kV, 150 MVA transformers with 400 MVA transformers
Supporting Statement:	The existing 230/115 kV, 150 MVA transformers at Liberty Substation overload under contingency.

In-Service Year:	2020
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:	2020
Project Name:	**GRACEVILLE – HOLMES CREEK 115 KV TIE**
Description:	Construct approximately 0.5 miles of new 115 kV transmission line from Graceville 115 kV substation to Gulf Power Holmes Creek substation with 795 ACSR at 100°C.
Supporting Statement:	Additional voltage support is needed at Graceville and Fountain areas under contingency.

In-Service Year:	2019
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 – 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 – Sonat Tap – Pin Oaks with 397 ACSS at 200°C. Reconductor approximately 7.1 miles of 115 kV transmission line between – Beehive Tap – Chewacla with 795 ACSR at 100°C. Reconductor approximately 6.0 miles of 115 kV transmission line between North Auburn – 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:	2019
Project Name:	**BOULDIN DAM AREA SOLUTION**
Description:	Rebuild approximately 3.5 miles of existing 397 ACSR at 100°C on the Jordan Dam – Bouldin Dam A 115 kV transmission line with 795 ACSR at 100°C, rebuild approximately 2.9 miles of existing 397 ACSR at 100°C on the Jordan Dam – Bouldin Dam B 115 kV transmission line with 795 ACSR at 100°C, and upgrade approximately 0.8 miles of 795 ACSR on the Bouldin Dam – Elmore 115 kV transmission line from 75°C to 100°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2019
Project Name:	**BRENTWOOD - SCENIC HILLS 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.8 miles of 1033.5 45/7 ACSR from Brentwood - Scenic Hills 115 kV with 1033.5 54/7 ACSS AT 200°C.
Supporting Statement:	The Brentwood - Scenic Hills 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**CENTER PRIMARY - WEYERHAEUSER 115 KV CONDUCTOR UPGRADE**
Description:	Upgrade approximately 5.5 miles of 50°C 336 ACSR 115 kV transmission line to at least 60°C operation, on the Neese - Colonial Pipe transmission line section (Danielsville) on the Center Primary - Weyerhaeuser 115 kV transmission line.
Supporting Statement:	The Center Primary - Weyerhaeuser 115 kV transmission line overloads under Hot Weather conditions.

In-Service Year:	2019
Project Name:	**CLAXTON – STATESBORO PRIMARY 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 17.9 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600A switches at claxton with 2000A switches and replace 500 CU jumpers at Statesboro Primary with 1590 AAC jumpers.
Supporting Statement:	The Claxton – Statesboro 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**EASTERN ALABAMA AREA 115 KV PROJECT**
Description:	Reconductor approximately 5.3 miles of 397 ACSR at 75°C 115 kV transmission line between Gulf States Steel and Rainbow City SS with 795 ACSS at 200°C. Install a new 115 kV switching station around Rainbow City. Install a new 115 kV terminal at Clay TS. Upgrade the existing 230/115 kV transformer at Clay TS to 477 MVA. Construct approximately 34.0 miles of 795 ACSS at 200°C between Clay TS and the new Rainbow City SS.
Supporting Statement:	Eliminates high loadings on several transmission facilities under various contingency scenarios. This project also provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2019
Project Name:	**EUFAULA - FORT MITCHELL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 10.0 miles of 397 ACSR of the Eufaula - 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:	2019
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:	2019
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 – Pintlala 115 kV transmission line. Reconductor approximately 2.7 miles of the Hope Hull Tap – 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:	2019
Project Name:	**JONES SOUTH 230/115 KV SUBSTATION**
Description:	Construct a new 230/115 kV substation on the Laurel East to Hattiesburg Southwest 230 kV transmission line and a new 10.0 mile, 1033 ACSR 115 kV transmission line from Ellisville, MS to the new substation.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2019
Project Name:	**LAFAYETTE SOLAR FARM – ROANOKE 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 2.5 miles of 397 ACSR on the City of Lafayette – Lafayette TS to 100°C operation.
Supporting Statement:	The City of Lafayette – Lafayette TS 115 kV transmission line overloads under contingency.

In-Service Year:	2019
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 – Moody 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**LEEDS TS IMPROVEMENTS**
Description:	Replace existing strain bus between No. 2 and No. 3 115 kV buses with bundled (2) 1590 AAC Coreopsis.
Supporting Statement:	The Leeds – Moody 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**MCINTOSH 230/115 KV SUBSTATION**
Description:	Replace the existing 230/115 kV, 280 MVA transformer with a 230/115 kV transformer rated for 400 MVA.
Supporting Statement:	The McIntosh 230/115 kV transformer overloads under Hot Weather conditions.

In-Service Year:	2019
Project Name:	**MILLER UNIT 4 RELOCATION**
Description:	Move Miller generating unit connection from the 500 kV system to the 230 kV system.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2019
Project Name:	**MITCHELL 230 KV REBUILD**
Description:	Rebuild of the Plant Mitchell switchyard to allow the spare transformer and the new transformer to both be in-service.
Supporting Statement:	Additional voltage support is needed in the Albany area under contingency.

In-Service Year:	2019
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:	2019
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 – Steelwood 115 kV transmission line to 100°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2019
Project Name:	**NORTH SELMA – CLANTON SS 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 28.0 miles of 115 kV transmission line between Clanton SS and North Selma with 795 ACSS at 200°C.
Supporting Statement:	The North Selma to Clanton SS 115 kV transmission line overloads under contingency.

In-Service Year:	2019
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:	2019
Project Name:	**PRATT CITY TRANSFORMER UPGRADES**
Description:	Upgrade Pratt City 230/115 kV transformer to 470 MVA and replace jumpers on Pratt City – South Park 115 kV transmission line.
Supporting Statement:	The Pratt City 230/115 kV transformer overloads under contingency.

In-Service Year:	2019
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 – Magella 115 kV transmission line and the North Helena – 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:	2020
Project Name:	**BARNEYVILLE – DOUGLAS 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 2.5 miles along the Nashville #1 – Nashville #2 section of the Barneyville - Douglas 115 kV transmission line to 100°C operation.
Supporting Statement:	The Barneyville – Douglas 115 kV transmission line overloads under contingency.

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 – Lowman 115 kV transmission line with 1033.5 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2020
Project Name:	**BLAKELY PRIMARY – MITCHELL 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 48.2 miles of 50°C 266 ACSR 115 kV transmission line from Blakely Primary to Mitchell 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 - 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 – 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:	**KIMBERLY CLARK – BLAKELY ISLAND 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.5 miles of 795 ACSR along the Kimberly Clark – 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:	**MOBILE AREA NETWORKING – 3RD PATH**
Description:	Construct a new substation at Dawes Tap on the Big Creek – N. Theodore 115 kV transmission line. Reconductor approximately 4.0 miles of 115 kV transmission line from Lott Road – Schillinger Road with 795 ACSS at 200°C. Reconductor approximately 6.3 miles of 115 kV transmission line from North Mobile – Michael Blvd with 397 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

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:	2021
Project Name:	**ATHENA - EAST WATKINSVILLE 115 KV RECONDUCTOR**
Description:	Reconductor approximately 2.04 miles of 336 ACSR with 1033 ACSR sagged at 100°C on the White Hall to East Athens transmission line segment. Replace the 600A switches and the 750 AAC jumpers at the East Athens substation.
Supporting Statement:	The Athena - East Watkinsville 115 kV transmission line overloads under contingency.

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:	Provides additional operational and maintenance flexibility which increases reliability.

In-Service Year:	2021
Project Name:	**GADSDEN – GULF STATES STEEL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 2.5 miles of 397 ACSR along the Gulf States Steel – Morgan's Crossroads 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Gulf States Steel – Morgan's Crossroads 115 kV transmission line overloads under contingency.

In-Service Year:	2021
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 – North Selma 230 kV transmission line overloads 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 to enhance reliability in the Augusta, GA area and to support the expansion of Plant Vogtle.

In-Service Year:	2022
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:	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:	**BASSET CREEK – ELLICOTT 230 KV TRANSMISSION LINE**
Description:	Construct approximately 70.0 miles of 1351 ACSS from Bassett Creek – Ellicott 230 kV transmission line.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2022
Project Name:	**EVANS PRIMARY – THOMSON PRIMARY 115 KV TRANSMISSION LINE**
Description:	Rebuild the Evans – Patriots Park section, approximately 4.2 miles 100°C 336 ACSR, with 100°C 795 ACSR and replace 336 ACSR jumpers at Patriots Park.
Supporting Statement:	The Evans Primary – Thomson Primary 115 kV transmission line overloads under contingency.

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:	**GORDON – SANDERSVILLE #1 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 30.0 miles (Gordon to Robins Spring section), along the Gordon – Sandersville #1 115 kV transmission line from 50°C to 100°C operation.
Supporting Statement:	The Gordon – Robins Spring section of the Gordon – Sandersville #1 115 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:	**DEAL BRANCH – SYLVANIA 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 123.8 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:	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 – Gorgas 161 kV transmission line, with 795 ACSS at 200°C.
Supporting Statement:	The Fayette – 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:	**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:	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:	**SOUTH BESSEMER – DUCANVILLE 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 27.0 miles of 1033.5 from Duncanville – South Bessemer 230 kV transmission line from 100° to 125°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2024
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:	2024
Project Name:	**AULTMAN ROAD - FORT VALLEY #1 115 KV TRANSMISSION LINE UPGRADE**
Description:	Upgrade approximately 2.16 miles of the Aultman Road - Northrop Jct section (75°C-sagged 336.4 ACSR) of the Aultman Road - Fort Valley 115 kV transmission line to 100°C operation.
Supporting Statement:	The Aultman Road - Fort Valley #1 115 kV transmission line overloads 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:	**SINCLAIR DAM – WARRENTON 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 17.4 miles of 115 kV transmission line from Buffalo Road to Warrenton, along the Sinclair Dam – Warrenton 115 kV transmission line with 795 ACSR at 100°C.
Supporting Statement:	The Sinclair Dam – Warrenton 115 kV transmission line overloads under contingency.

In-Service Year:	2025
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:	2025
Project Name:	**YATES UNIT 8 NETWORK IMPROVEMENTS**
Description:	1. First Avenue - Fuller Road (APC) 115 KV: Reconductor First Avenue B2 - Phenix City DS from 397.5 ACSR conductor to 795 ACSR for 1 mile. Replace the 1200A switch on the low side of Auto #4 with a 2000A switch or higher at First Avenue. 2. 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) 3. Union City – Yates (White) 230 kV Line: Reconductor the line, 23 miles of 100°C 1033 ACSR, with 200°C 1033 ACSS. 4. Possum Branch – Yates Common 115 kV Line: Rebuild the Clem – Oak Mountain – Airgas – Southwire – Carrollton #2 Jct. sections, 5.9 miles of 100°C 477 ACSR, with 100°C 1351 ACSR. Replace 1200A switches 138981 and 138983 with 2000A switches. 5. Clem (GTC): Replace 1200A switches 900541 and 900573 with 2000A switches. 6. Oak Mountain (GTC): Replace 1200A switches 138943 and 138969 with 2000A switches. 7. Southwire: Replace 1200A switches 125783 and 125771 with 2000A switches. Replace 750 AAC main bus and jumpers with 2-750 AAC. 8. Clarkston - Scottdale 115kV: Upgrade the 636 SSAC conductor on the Clarkston - Scottdale 115kV line (2.7 miles) to its 160C rating. 9. 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. 10. Line Creek - Fairburn 2 115kv line: Upgrade the 1.75-mile segment from Owens B J - Line Creek 336 ACSR 50-degree line to 336 ACSR 100 degree on the Line Creek - Fairburn #2 115kV line. 11. Install a second 230/115-kV, 400 MVA transformer at Dyer Road.
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:	**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 – Pascagoula Bayou Cassotte 115 kV transmission line.
Supporting Statement:	The Moss Point East – Pascagoula MS Chemical 115 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**BRANCH UNIT 5 NETWORK IMPROVEMENTS**
Description:	Reconductor approximately 12.0 miles of the Coosawattee - East Dalton 115 kV transmission line with 100°C 795 ACSR and reconductor approximately 5.9 miles of the Bonaire Primary - Kathleen 115 kV Transmission Line with 100°C 795 ACSR. Also, replace the 600A BLD switch at East Vidalia with 2000A BLD switch.
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:	**DANIEL SIDING - LITTLE OGEECHEE 115 KV RECONDUCTOR**
Description:	Reconductor approximately 10.0 miles of the Daniel Siding - Little Ogeechee 115 kV transmission line with 2-336 ACSS conductor.
Supporting Statement:	The Daniel Siding - Little Ogeechee 115 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**HOLLY SPRINGS – HOPEWELL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.3 miles of 636 ACSR 115 kV transmission line from Hopewell to Birmingham with 1033 ACSR at 100°C. Also, replace the 636 ACSR jumpers at Birmingham with 1590 AAC jumpers.
Supporting Statement:	The Hopewell - Birmingham 115 kV transmission line overloads under contingency.

In-Service Year:	2027
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:	2027
Project Name:	**SOUTH HALL 500/230 KV SECOND TRANSFORMER**
Description:	Install a second 500/230 kV, 2016 MVA transformer at the South Hall 500/230 kV substation.
Supporting Statement:	The Cumming - McGrau Ford 230 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**BOWLING GREEN – MEMPHIS JUCTION 161 KV TRANSMISSION LINE**
Description:	Upgrade approximately 7.5 miles of the Bowling Green – Memphis Junction 161 kV transmission line to 100°C operation.
Supporting Statement:	The Bowling Green – Memphis Junction 161 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**HARRIMAN, TN 161 KV SUBSTATION**
Description:	Reconfigure the Harriman, TN 161 kV substation by looping an additional 161 kV transmission line into the substation and installing 3, 161 kV breakers.
Supporting Statement:	Additional voltage support is needed in the Harriman, TN area under contingency.

In-Service Year:	2019
Project Name:	**HOLLY SPRINGS, MS 161 KV SUBSTATION**
Description:	Install a capacitor bank of 4, 27 MVAR capacitors at the Holly Springs, MS 161 kV switching station.
Supporting Statement:	Additional voltage support is needed in the N. Haven, MS area under contingency.

In-Service Year:	2019
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 ACSR at 100°C.
Supporting Statement:	Multiple 161 kV transmission lines in the lower MS area overload under contingency and additional voltage support is needed in the lower MS area under contingency.

In-Service Year:	2019
Project Name:	**SCIENCE HILL CAPS 161 KV SWITCHING STATION**
Description:	Install a capacitor bank of 6, 9 MVAR 161 kV capacitors at a new 161 kV switching station near the Murfreesboro Industrial Park substation.
Supporting Statement:	Additional voltage support is needed in the Murfreesboro area under contingency.

In-Service Year:	2019
Project Name:	**TUSCULUM – JONESBOROUGH 161 KV TRANSMISSION LINE**
Description:	Double circuit approximately 17.0 miles of the Tusculum - Jonesborough 161 kV transmission line with 954 ACSR at 100°C.
Supporting Statement:	The Tusculum - Jonesborough 161 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**WEST COOKEVILLE 161 KV SUBSTATION**
Description:	Upgrade terminal equipment to 335 MVA at the West Cookeville 161 kV substation.
Supporting Statement:	The West Cookeville – South Cookeville 161 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	**WIDOWS CREEK FP SUBSTATION**
Description:	Install a second 500/161 kV transformer at the Widows Creek Fossil Plant substation.
Supporting Statement:	Multiple transmission lines overload and additional voltage support is needed in the Huntsville, AL area under contingency.

In-Service Year:	2020
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 existing Alcoa Switching Station – Nixon Road 161 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 Mississippi area under contingency.

In-Service Year:	2020
Project Name:	**PHIPPS BEND 161 KV SUBSTATION**
Description:	Rebuild structures with weathered steel in the Phipps Bend 161 kV yard.
Supporting Statement:	Steel structures in the Phipps Bend 161 kV yard are beginning to show signs of corrosion and require replacement.

In-Service Year:	2020
Project Name:	**SOUTH JACKSON 161 KV SUBSTATION**
Description:	Upgrade terminal equipment to 365 MVA at the South Jackson 161 kV substation and Flex 161 kV delivery point.
Supporting Statement:	The South Jackson - Flex 161 kV transmission line overloads under contingency.

In-Service Year:	2021
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 transmission line with 954 ACSS at 150°C.
Supporting Statement:	Additional operational flexibility is needed in the West Point and Columbus area 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 – 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:	**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:	2021
Project Name:	**MOSCOW – CHICKASAW TRAILS 161 KV TRANSMISSION LINE**
Description:	Construct the Chickasaw Trails 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:	Additional operational flexibility is needed in the Olive Branch and Chickasaw Trails area under contingency.

In-Service Year:	2023
Project Name:	**BATESVILLE - E BATESVILLE 161KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.0 miles of the Batesville - E Batesville 161 kV T.L. with 2034.5 ACSR at 100°C and upgrade terminal equipment to 472 MVA at Batesville 161 kV.
Supporting Statement:	The Batesville - E Batesville 161 kV transmission line section overloads under contingency.

In-Service Year:	2023
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 overloads under contingency.

In-Service Year:	2024
Project Name:	**BULL RUN FP 500 KV SUBSTATION**
Description:	Install a second 500/161 kV transformer at the Bull Run Fossil Plant substation.
Supporting Statement:	The existing Bull Run 500/161 kV Transformer overloads under contingency.

In-Service Year:	2024
Project Name:	**PHIPPS BEND 500 KV SUBSTATION**
Description:	Install 500 kV breakers on the Pocket and Nagel transmission lines at the Phipps Bend 500 kV substation.
Supporting Statement:	John Sevier - Tusculum 161 kV, Lafollette - Norris 161 kV, and Boone HP - Greenville 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:	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 - Newport 161 kV transmission line with 954 ACSS at 125°C.
Supporting Statement:	The Douglas - Newport 161 kV transmission line section overloads under contingency.