

Southeastern Regional Transmission Planning (SERTP)

**PRELIMINARY 10 YEAR
TRANSMISSION EXPANSION PLANS**

**Associated Electric
Cooperative Inc.**



June 9, 2016

TABLE OF CONTENTS ¹

AECI Balancing Authority Transmission Projects.....	1
DUKE CAROLINAS Balancing Authority Transmission Projects.....	2
DUKE PROGRESS EAST Balancing Authority Transmission Projects	8
DUKE PROGRESS WEST Balancing Authority Transmission Projects	11
LG&E/KU Balancing Authority Transmission Projects.....	12
POWERSOUTH Balancing Authority Transmission Projects.....	14
SOUTHERN Balancing Authority Transmission Projects.....	16
TVA Balancing Authority Transmission Projects	34

¹The 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: 2018

Project Name: **MARIES – ROLLA NORTH WYE 161 KV T.L. & ROLLA NORTH WYE 161 KV SUBSTATION.**

Description: Construct approximately 21 miles of 161 kV transmission line from Maries to Rolla North Wye with 795 ACSR at 100°C and install a 56 MVA 161/69 kV transformer at Rolla North Wye.

Supporting
Statement: The Maries – Rolla North Wye transmission line overloads under contingency and voltage support is needed in the Maries and Rolla North Wye area under contingency.

In-Service
Year: 2025

Project Name: **WHEATON – CASSVILLE 161 KV T.L. & STELLA 345/161 KV SUBSTATION**

Description: Construct a 345/161 kV substation on the Brookline – Flintcreek 345 kV transmission line. Construct approximately 15 miles of 795 ACSR 161 kV transmission line at 100°C from Wheaton – Cassville, and install a 161/69 kV transformer at Cassville.

Supporting
Statement: The Neosho and Washburn 161/69 kV transformers overload under contingency.

In-Service Year:	2017
Project Name:	ASHE STREET – PARKWOOD 100 KV T.L.
Description:	Reconductor approximately 2.6 miles of the Ashe Street – Parkwood 100 kV transmission line with 477 ACSR at 120°C.
Supporting Statement:	The Ashe Street – Parkwood 100 kV transmission line overloads under contingency.
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In-Service Year:	2017
Project Name:	DIXON SCHOOL ROAD 230 KV SWITCHING STATION
Description:	Install a new switching station along the Ripp SS – Riverbend 230 kV transmission line to tie in new generation.
Supporting Statement:	The station is needed for a new generation interconnection.
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In-Service Year:	2017
Project Name:	GLEN RAVEN – MEBANE TIE 100 KV T.L.
Description:	Reconductor approximately 3 miles of the Glen Raven – Mebane 100 kV transmission line with bundled 477 ACSS and configure the Glen River – Eno 100 kV double circuit transmission line as normally open.
Supporting Statement:	The Glen Raven – Eno 100 kV double circuit transmission lines overload under contingency.
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In-Service Year:	2017
Project Name:	GREENBRIAR AREA IMPROVEMENTS
Description:	Bundle the Shady Grove – Moonville Retail 100 kV transmission line with 477 ACSR at 120°C. Add 100 kV terminals at Greenbriar Retail making it a 100 kV switching station. Reedy River Tie will also become a breaker swap over station as part of the Greenbriar project.
Supporting Statement:	Project required to support new Lee CC project and contingency overloading of 100 kV lines in Lee area.
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In-Service
Year: 2017

Project Name: **LEE STEAM STATION SWITCHYARD UPGRADE**

Description: Upgrade the Lee Steam Station switchyard to facilitate interconnection to the new Lee Combined Cycle plant.

Supporting
Statement: The Lee Steam Station Switchyard is in need of upgrades in order to handle the increased generation from the new Lee Combined Cycle plant currently under construction.

In-Service
Year: 2017

Project Name: **NORTH GREENVILLE – TIGER 100 KV T.L.**

Description: Rebuild approximately 11 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: 2017

Project Name: **OAKBORO 230/100 KV SUBSTATION**

Description: Add a fourth 200 MVA, 230/100 kV transformer to Oakboro Substation.

Supporting
Statement: The Oakboro Substation 230/100 kV transformer overloads under contingency.

In-Service
Year: 2017

Project Name: **RIVERBEND STEAM STATION**

Description: Add 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: 2017

Project Name: **SPRINGFIELD SWITCHING STATION**

Description: Convert Springfield Tap into Springfield Switching Station.

Supporting
Statement: The Wylie Switching – Morning Star Tie 100 kV transmission lines overload under contingency.

In-Service
Year: 2017

Project Name: **TIGER – WEST SPARTANBURG 100 KV T.L.**

Description: Reconductor approximately 5 miles of the Tiger – West Spartanburg 100 kV transmission line with 556 ACSR at 120°C.

Supporting
Statement: The Tiger – West Spartanburg 100 kV transmission line overloads under contingency.

In-Service
Year: 2017

Project Name: **WINECOFF 230/100 KV SUBSTATION**

Description: Replace transformer #1 with a 448 MVA 230/100 kV transformer at Winecoff substation.

Supporting
Statement: The Winecoff 230/100 kV transformer overloads under contingency.

In-Service
Year: 2018

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 lines overload under contingency.

In-Service
Year: 2018

Project Name: **CONCORD MAIN – HARRISBURG 100 KV T.L.**

Description: Reconductor approximately 1 mile of the Concord Main – Harrisburg 100 kV transmission line with bundled 556 ACSR at 120°C.

Supporting
Statement: The Concord Main – Harrisburg 100 kV transmission line overloads under contingency.

In-Service Year: 2018
Project Name: **LINCOLN CT – RIVERBEND 230 KV T.L.**
Description: Replace switches at Riverbend Steam Station with 2000 A equipment.
Supporting Statement: The Lincoln CT – Riverbend 230 kV transmission line overloads with a generation outage.

In-Service Year: 2018
Project Name: **NORTH GREENSBORO SUBSTATION**
Description: Add a fourth 448 MVA 230/100 kV transformer at North Greensboro Substation.
Supporting Statement: The North Greensboro 230/100 kV transformer overloads under contingency.

In-Service Year: 2018
Project Name: **PEACH VALLEY – RIVERVIEW 230 KV T.L.**
Description: Install a 3% series reactor on the Peach Valley – Riverview 230 kV transmission line.
Supporting Statement: The Peach Valley – Riverview 230 kV transmission line overloads under contingency.

In-Service Year: 2019
Project Name: **MONROE – LANCASTER 100 KV T.L.**
Description: Rebuild approximately 20 miles of the Monroe – Lancaster 100 kV transmission line with 954 ACSR at 120°C.
Supporting Statement: The Monroe – Lancaster 200 kV transmission line overloads with a generation outage.

In-Service Year: 2019
Project Name: **RURAL HALL SUBSTATION**
Description: Upgrade ancillary equipment and replace tie breaker at Rural Hall with a 2000 A breaker.
Supporting Statement: The Rural Hall substation tie breaker overloads under contingency.

In-Service
Year: 2020

Project Name: **CLIFFSIDE STEAM STATION**

Description: Add a third 448 MVA 230/100 kV transformer at Cliffside Steam Station.

Supporting
Statement: The Cliffside Steam Station 230/100 kV transformer overloads under contingency.

In-Service
Year: 2021

Project Name: **PLEASANT GARDEN 500/230 KV SUBSTATION**

Description: Replace CTs and aluminum buswork on the Pleasant Garden 500/230 kV transformer.

Supporting
Statement: The Pleasant Garden 500/230 kV transformer overloads under contingency.

In-Service
Year: 2021

Project Name: **WALNUT COVE – RURAL HALL 100 KV T.L.**

Description: Split approximately 10 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: 2022

Project Name: **CENTRAL – SHADY GROVE 230 KV T.L.**

Description: Reconductor approximately 18 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: 2022

Project Name: **STAMEY – STATESVILLE 100 KV T.L.**

Description: Reconductor approximately 8 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: 2022

Project Name: **WOODLAWN – AMITY 100 KV T.L.**

Description: Replace ancillary equipment on the Woodlawn – Amity 100 kV transmission line with 3000 A equipment.

Supporting
Statement: The Woodlawn – Amity 100 kV transmission line overloads under contingency.

In-Service
Year: 2023

Project Name: **BECKERDITE – LINDEN ST 100 KV T.L.**

Description: Reconductor approximately 16 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.

PRELIMINARY

In-Service
Year: 2018

Project Name: **RAEFORD 230 KV SUBSTATION**

Description: Loop in the Richmond – Ft. Bragg Woodruff St. 230 kV transmission line at Raeford 230/115 kV substation and add a 300 MVA transformer.

Supporting
Statement: The Weatherspoon – Raeford 115 kV transmission line overload under contingency.

In-Service
Year: 2018

Project Name: **SUTTON PLANT – CASTLE HAYNE 115 KV NORTH T.L.**

Description: Rebuild approximately 8 miles of the Sutton Plant – Castle Hayne 115 kV North transmission line using 1272 ACSR.

Supporting
Statement: The Sutton Plant – Castle Hayne 115 kV North transmission line overloads under contingency.

In-Service
Year: 2019

Project Name: **ASHEBORO – ASHEBORO EAST (NORTH) 115 KV T.L.**

Description: Rebuild approximately 6.5 miles of the Asheboro – Asheboro East (North) 115 kV transmission line using 3-1590 ACSR. 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 2000 A 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 T.L.**

Description: Construct approximately 12 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. Build the new 230 kV Grant's Creek substation with four 230 kV breakers and a new 300 MVA 230/115 kV transformer.

Supporting
Statement: The Havelock – Jacksonville 230 kV transmission line overloads under contingency and voltage support is needed in the Jacksonville area.

In-Service
Year: 2020

Project Name: **HARLOWE – NEWPORT 230 KV T.L.**

Description: Construct a new 230 kV switching station at Newport, construct a new 230 kV substation at Harlowe, and construct approximately 10 miles of new 230 kV transmission line from Harlowe to Newport Area with 3-1590 ACSR.

Supporting
Statement: Voltage support is needed in Havelock – Morehead area.

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: Voltage support is needed in Southport area.

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: Voltage support is needed in Smithfield area.

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: Voltage support is needed in Louisburg area.

In-Service
Year: 2024

Project Name: **BRUNSWICK #1 – JACKSONVILLE 230 KV T.L.**

Description: Loop the existing Brunswick Plant Unit 1 – Jacksonville 230 kV transmission line into the Folkstone 230 kV substation.

Supporting
Statement: The Castle Hayne – Folkstone 115 kV transmission line overloads under contingency.

In-Service Year: 2024

Project Name: **DURHAM – RTP 230 KV T.L.**

Description: Reconductor approximately 10 miles of the Durham – RTP 230 kV transmission line with bundled 6-1590 ACSR.

Supporting Statement: The Durham – RTP 230 kV transmission line overloads under contingency.

PRELIMINARY

In-Service
Year: 2018

Project Name: **VANDERBILT – WEST ASHEVILLE 115 KV T.L.**

Description: Reconductor approximately 2.7 miles of the Vanderbilt – West Asheville 115 kV transmission line with 3-795 ACSR. Replace one 115 kV breaker, two 115 kV disconnect switches, and one 115 kV switch at Vanderbilt.

Supporting
Statement: The Vanderbilt – West Asheville 115 kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **ASHEVILLE PLANT – OTEEN WEST 115 KV T.L., 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: Voltage support is needed in Baldwin area.

In-Service Year:	2017
Project Name:	ELIZABETHTOWN – HARDIN COUNTY 138 KV T.L.
Description:	Construct a second Elizabethtown – Hardin Co 138 kV transmission line by overbuilding the existing Elizabethtown – Hardin Co 69 kV transmission line and install a 138 kV breaker on the Elizabethtown 138/69 kV transformer.
Supporting Statement:	The Hardin County 138/69 kV transformer overloads under contingency.
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In-Service Year:	2017
Project Name:	HARDINSBURGH – BLACK BRANCH 138 KV T.L.
Description:	Replace the 138 kV terminal equipment rated less than 287 MVA on the Hardinsburg – Black Branch 138 kV transmission line, using equipment capable of at least 326 MVA.
Supporting Statement:	The terminal equipment on the Hardinsburg – Black Branch 138 kV transmission line becomes overloaded under contingency.
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In-Service Year:	2017
Project Name:	WEST LEXINGTON – VILEY ROAD 138 KV T.L.
Description:	Reconductor approximately 5.19 miles of 795 ACSR conductor in the West Lexington – Viley Road section of the West Lexington – Viley Road – Haefling 138 kV transmission line, using high temperature conductor capable of at least 358 MVA.
Supporting Statement:	The West Lexington – Viley Road 138 kV transmission line overloads under contingency.
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In-Service Year:	2019
Project Name:	WEST LEXINGTON – HAEFLING 138 KV T.L.
Description:	Reconductor 7.3 miles of 795 ACSR conductor on the West Lexington – Haefling 138 kV transmission line, using high temperature conductor capable of at least 358 MVA.
Supporting Statement:	The West Lexington to Haefling 138 kV transmission line overloads under contingency.
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In-Service
Year: 2020

Project Name: **PLAINVIEW – PLAINVIEW TAP 138 KV T.L.**

Description: Replace approximately 1.6 miles of 1272 AAC conductor of the Plainview Tap – Plainview section of the Middletown – Beargrass 138 kV transmission line with 1272 ACSR rated at 341 MVA.

Supporting
Statement: The Plainview Tap – Plainview 138 kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **ELIHU – ALCALDE 161 KV T.L.**

Description: Replace the 161 kV terminal equipment rated less than 335 MVA on the Alcade – Elihu 161 kV transmission line, using equipment capable of at least 380 MVA.

Supporting
Statement: The terminal equipment on the Elihu – Alcalde 161 kV transmission line becomes overloaded under contingency.

In-Service
Year: 2022

Project Name: **HAEFLING – VILEY ROAD 138 KV T.L.**

Description: Replace the 500 MCM Cu terminal equipment at Haefling on the Haefling – Viley Road section of the West Lexington – Viley Road – Haefling 138 kV transmission line.

Supporting
Statement: The terminal equipment on the Haefling – Viley Road 138 kV transmission line becomes overloaded under contingency.

In-Service Year:	2017
Project Name:	LEE COUNTY 115 KV SWITCHING STATION
Description:	Construct a 115 kV switching station to facilitate the Lee County – Fuller Road 115 kV transmission line.
Supporting Statement:	Additional voltage support is needed in the area.
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In-Service Year:	2017
Project Name:	LUVERNE – FULLER 115 KV T.L.
Description:	Reconductor 8.5 miles of existing 115 kV transmission line with 795 ACSR conductor rated at 210 MVA.
Supporting Statement:	Provides increased reliability.
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In-Service Year:	2017
Project Name:	MCWILLIAMS – LUVERNE 115 KV T.L.
Description:	Upgrade 28 miles of the existing McWilliams – Luverne 46 kV transmission line to 115 kV with 795 ACSR at 100°C.
Supporting Statement:	Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.
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In-Service Year:	2018
Project Name:	CHIPLEY 115 KV SWITCHING STATION
Description:	Construct a new 115 kV tie point between PowerSouth and Gulf Power to increase voltage support in the area.
Supporting Statement:	Additional voltage support is needed at Graceville and Fountain under contingency.
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In-Service Year:	2018
Project Name:	GASKIN – SOUTHPORT 115 KV T.L.
Description:	Construct 9 miles of new 115 kV transmission line from Gaskin Switching Station – 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: 2018

Project Name: **SALEM JUNCTION – BOTTOMS MILL 115 KV T.L.**

Description: Construct 16 miles of new 115 kV transmission line from Bottom's Mill to Salem Junction with 795 ACSR at 100°C.

Supporting Statement: Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.

PRELIMINARY

In-Service
Year: 2017

Project Name: **AMERICUS – NORTH AMERICUS (BLACK) 115 KV T.L.**

Description: Reconductor approximately 3.2 miles along the Americus – North Americus (Black) 115 kV transmission line to 100°C 795 ACSR.

Supporting
Statement: The Americus – North Americus (Black) 115 kV transmission line overloads under contingency.

In-Service
Year: 2017

Project Name: **AULTMAN ROAD – BONAIRE PRIMARY 115 KV T.L.**

Description: Reconductor approximately 3.7 miles of 336 ACSR, 115 kV transmission line along the Bonaire Primary – Peach Blossom section of the Bonaire Primary – Aultman Road 115 kV transmission line with 795 ACSR at 100°C.

Supporting
Statement: The Bonaire Primary – Peach Blossom 115 kV transmission line overloads under contingency.

In-Service
Year: 2017

Project Name: **BARRY – CRIST 230 KV T.L.**

Description: Upgrade approximately 31.6 miles along the Barry – Crist 230 kV transmission line to 125°C operation.

Supporting
Statement: Provides additional maintenance flexibility.

In-Service
Year: 2017

Project Name: **BARRY – MCINTOSH "A" 115 KV T.L.**

Description: Upgrade approximately 20 miles along the Barry – McIntosh "A" 115 kV transmission line to 125°C operation.

Supporting
Statement: Provides increased reliability and maintenance flexibility.

In-Service
Year: 2017

Project Name: **BUTLER 230 KV SUBSTATION**

Description: Install 2% series reactors at Butler on the Bonaire Primary – Butler 230 kV transmission line.

Supporting
Statement: The Bonaire Primary – Butler 230 kV transmission line overloads under contingency.

In-Service
Year: 2017

Project Name: **CORN CRIB 230/115 KV SUBSTATION**

Description: Construct a new 230/115 kV substation with a 400 MVA transformer. Loop in the Dyer Road – Thomaston 230 kV, Dyer Road – Thomaston 115 kV, and the Dyer Road – Lagrange 115 kV transmission lines. Terminate the Dyer Road – Newnan #3 Junction 115 kV transmission line.

Supporting
Statement: The Lagrange Primary – Yates 115 kV transmission line overloads under contingency. This project also provides voltage support along the Dyer Road – Thomaston 115 kV transmission line.

In-Service
Year: 2017

Project Name: **DEAN FOREST – MILLHAVEN ANNEX 115 KV T.L.**

Description: Construct approximately 5.3 miles of 795 ACSR 115 kV transmission line from Dean Forest to Millhaven Annex.

Supporting
Statement: Additional voltage support is needed in the Millhaven area under contingency.

In-Service
Year: 2017

Project Name: **DOTHAN – WEBB 115 KV T.L.**

Description: Reconductor approximately 6.7 miles of 115 kV transmission line from Webb – ECI Webb – Dothan with 1351 ACSS at 160°C.

Supporting
Statement: The Dothan – Webb 115 kV transmission line overloads under contingency.

In-Service Year:	2017
Project Name:	DUBLIN AREA IMPROVEMENTS
Description:	Construct approximately 13 miles of 115 kV transmission line from Danville to North Dudley with 795 ACSR at 100°C. Reconductor approximately 8.5 miles along the Jeffersonville to Danville tap 115 kV transmission line with 336 ACSS at 200°C. Construct a three-breaker 115 kV switching station at the Jeffersonville tap point and upgrade approximately 15.2 miles of 115 kV transmission line from the switching station to Bonaire Primary to 100°C operation. Install three breakers at the Beckham Road substation for Vidalia, SE Paper, and Dublin 115 kV transmission lines. Upgrade the 115 kV bus at Soperton Primary.
Supporting Statement:	Additional voltage support needed in the Dublin area under contingency.
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In-Service Year:	2017
Project Name:	FIFTY SECOND STREET SUBSTATION
Description:	Install a new 60 MVAR single stage 115 kV capacitor bank at 52nd Street Substation.
Supporting Statement:	Addition of load in the Savannah area requires additional voltage support on the 115 kV system.
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In-Service Year:	2017
Project Name:	GORGAS – JASPER TAP 161 KV T.L.
Description:	Reconductor approximately 15 miles along the Gorgas – Taft Coal – Jasper Tap 161 kV transmission line with 795 ACSR at 100°C. Install a new 161 kV switching station at Jasper T.S. Construct approximately 0.8 miles of 161 kV transmission line from Jasper T.S. to Jasper D.S.
Supporting Statement:	The Gorgas – Taft Coal – Jasper Tap 161 kV transmission line overloads under contingency.
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In-Service Year:	2017
Project Name:	HAMPTON – MCDONOUGH 115 KV T.L.
Description:	Reconductor approximately 7.5 miles along the McDonough – Hampton 115 kV transmission line with with 1033 ACSR.
Supporting Statement:	The Hampton – McDonough tap 115 kV transmission line overloads under contingency.

In-Service Year:	2017
Project Name:	JASPER EAST – MISSIONARY (SMEPA) 230 KV T.L.
Description:	Tap the Missionary – Waynesboro 161 kV transmission line at the intersection of the Enterprise – Laurel East 230 kV transmission line. Construct a four (4) breaker 230 kV ring bus in Jasper County, MS.
Supporting Statement:	Additional voltage support is needed in the area.
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In-Service Year:	2017
Project Name:	LAGRANGE PRIMARY – GLASSBRIDGE 115 KV T.L.
Description:	Reconductor approximately 1 mile of the Lagrange 5 to Milliken (Lagrange) segment of the Lagrange Primary – Glassbridge 115 kV transmission line with 795 ACSR at 100°C operation.
Supporting Statement:	Network reliability improvement needed in the Lagrange area under contingency.
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In-Service Year:	2017
Project Name:	LOCUST FORK T.S.
Description:	Replace the existing 115 kV, 30 MVAR capacitor bank at Locust Fork T.S. and install one 115 kV, 15 MVAR capacitor bank.
Supporting Statement:	Provides additional maintenance flexibility.
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In-Service Year:	2017
Project Name:	MADISON PARK – AUBURN UNIVERSITY (MONTGOMERY) TAP 115 KV T.L.
Description:	Reconductor approximately 1.6 miles of 795 ACSR at 100°C from Madison Park – Auburn University (Montgomery) Tap 115 kV transmission line with 1351 ACSR at 100°C.
Supporting Statement:	Provides additional maintenance flexibility.
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In-Service Year:	2017
Project Name:	MCINTOSH – MCINTOSH CC #10 230 KV T.L.
Description:	Reterminate McIntosh CC #10 from West McIntosh to the McIntosh 230/115 kV substation.
Supporting Statement:	The McIntosh – West McIntosh 230 kV (Black) transmission line overloads under contingency.

In-Service Year:	2017
Project Name:	SHARON SPRINGS 230/115 KV PROJECT
Description:	Construct a new 6.6 mile, 230 kV transmission line from Cumming to Sharon Springs with 1351 ACSR at 100°C. Install a 300 MVA 230/115 kV transformer with two 115 kV breakers at Sharon Springs distribution substation. Terminate 115 kV lines from Hopewell and Suwanee. Install a 230 kV breaker in the Cumming Substation and terminate 230 kV transmission line to Sharon Springs.
Supporting Statement:	The Suwanee – Old Atlanta Road section of the transmission line overloads under contingency. The Hopewell – Brandywine section of the transmission line also overloads under contingency.

In-Service Year:	2017
Project Name:	SOUTH BIRMINGHAM 115 KV PROJECT
Description:	Construct a 115 kV switching station between Bessemer TS & 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 by expanding Massey Road DS and looping in the South Jefferson to North Helena 115 kV transmission line.
Supporting Statement:	Network reliability improvement needed in the South Birmingham area.

In-Service Year:	2017
Project Name:	THOMSON PRIMARY – VOGTLE 500 KV T.L.
Description:	Construct approximately 55.0 miles of new 500 kV transmission line from Plant Vogtle to the Thomson Primary 500/230 kV substation.
Supporting Statement:	Needed to support the expansion of Plant Vogtle.

In-Service Year: 2018

Project Name: **AUBURN – OPELIKA AREA 115 KV T.L. 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 Wire Road. Construct a new 115 kV switching station near the Chewacla Tap (Pin Oaks SS) & a new SS west of Marvyn DS intersecting the Fuller Rd – Notasulga and South Auburn 115 kV TL's (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 14.5 miles of 115 kV transmission line between Sanford SS – Sonat Tap – Pin Oaks – Beehive Tap – Chewacla with 397 ACSS at 200°C. Reconductor approximately 6 miles of 115 kV transmission line between North Auburn – Pear Tree SS with 795 ACSS at 200°C.

Supporting Statement: Provides additional reliability and maintenance flexibility.

In-Service Year: 2018

Project Name: **CRISP COUNTY AREA IMPROVEMENTS**

Description: Construct approximately 12 miles of new 636 ACSR, 115 kV transmission line from Crisp #2 (Warwick) – Crisp #8. Add three 115 kV breakers at Warwick to create the North Americus – Crisp #2 and North Tifton – Crisp #2 115 kV circuits. Also, construct a 2.1 mile, 636 ACSR 115 kV transmission line section from Crisp County #8 – Crisp County #6 to create the Crisp #2 – Pitts 115 kV circuit.

Supporting Statement: The North Americus – Turkey Creek 115 kV transmission line overloads and additional voltage support is needed in the Crisp County area under contingency.

In-Service Year: 2018

Project Name: **DALTON – OOSTANAULA 115 KV T.L.**

Description: Reconductor approximately 1.1 miles of the Dalton – Oostanaula 115 kV transmission line with 795 ACSR conductor at 100°C and rebuild the bus at Dalton #9.

Supporting Statement: The Dalton – Oostanaula 115 kV transmission line overloads under contingency.

In-Service
Year: 2018

Project Name: **FULLER ROAD – LEE COUNTY 115 KV T.L.**

Description: Construct approximately 13 miles of new 795 ACSR at 100°C 115 kV transmission line from Fuller Road (APC) to Lee County (PowerSouth).

Supporting
Statement: The Knauff Fiberglass – N. Opelika 115 kV transmission line overloads under contingency. The new Fuller Rd – Lee County 115 kV transmission line will also provide greater maintenance flexibility on the N. Opelika TS – Lanett DS 115 kV corridor.

In-Service
Year: 2018

Project Name: **MCEVER ROAD – SHOAL CREEK 115 KV T.L.**

Description: Rebuild approximately 4.2 miles along the Shoal Creek – Gaines Ferry section of the McEver Road – Shoal Creek 115 kV transmission line with 1033 ACSR at 100°C.

Supporting
Statement: The McEver Road – Shoal Creek 115kV transmission line overloads under contingency.

In-Service
Year: 2018

Project Name: **MITCHELL DAM – CLANTON LOOP TAP 115 KV T.L.**

Description: Construct approximately 10.3 miles of 115 kV transmission line from Mitchell Dam – Clanton Loop Tap with 795 ACSS at 200°C.

Supporting
Statement: The Mitchell Dam – CRH Tap – Clanton Tap 115 kV transmission line overloads under contingency.

In-Service
Year: 2018

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 – Prattville DS. Install new 115 kV terminal at Hunter SS. Construct approximately 2.7 miles of 795 ACSR 115 kV transmission line at 100°C from Hunter SS to GE Burkeville Tap.

Supporting
Statement: Provides increased reliability and maintenance flexibility.

In-Service
Year: 2019

Project Name: **ALICEVILLE – COCHRANE 115 KV T.L.**

Description: Construct a 230/115 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 increased reliability and additional maintenance flexibility. Also, voltage support is needed in the area.

In-Service
Year: 2019

Project Name: **BARNEYVILLE – DOUGLAS 115KV T.L.**

Description: Upgrade 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 - North Tifton 115 kV transmission line overloads under contingency.

In-Service
Year: 2019

Project Name: **BUTLER 230 KV SUBSTATION**

Description: Remove 2% series reactors at Butler on the Bonaire Primary – Butler 230 kV transmission line.

Supporting
Statement: The reactors are no longer needed due to generation additions at Plant Vogtle.

In-Service
Year: 2019

Project Name: **CLAXTON – STATESBORO PRIMARY 115 KV T.L.**

Description: Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and Statesboro with 2000 A switches.

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 miles of 795 ACSS at 200°C between Clay TS and the new Rainbow City SS.
Supporting Statement:	Addresses high loadings and provides maintenance flexibility for several 115 kV transmission lines in the Gadsden area.
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In-Service Year:	2019
Project Name:	GORDON – SANDERSVILLE #1 115 KV T.L.
Description:	Upgrade the 30 mile section from Gordon to Robins Spring 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.
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In-Service Year:	2019
Project Name:	HOLT – SOUTH BESSEMER 230 KV T.L.
Description:	Construct approximately 25 miles of 1351 ACSS 230 kV transmission line at 200°C from Holt to South Bessemer. Install a 230/115 kV transformer at a new Brookwood T.S. to tie into the existing Daimler D.S. and extend the transmission line from Daimler Tap. Install a 6 breaker switching station at the existing Daimler Tap.
Supporting Statement:	The Holt – Mercedes 115 kV transmission line overloads under contingency. This project also provides increased reliability and maintenance flexibility for the Tuscaloosa Area.
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In-Service Year:	2019
Project Name:	KETTLE CREEK PRIMARY – PINE GROVE PRIMARY 115 KV T.L.
Description:	Upgrade approximately 20 miles along the Kettle Creek – Pine Grove 115 kV transmission line from 50°C to 75°C operation.
Supporting Statement:	The Kettle Creek – Pine Grove 115 kV transmission line overloads under contingency.

In-Service Year:	2019
Project Name:	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 Tronox LLC. Reconductor approximately 1 mile of the Hollinger's Island – Holcim 115 kV transmission line to 795 ACSR at 100°C.
Supporting Statement:	Provides increased reliability and maintenance flexibility.
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In-Service Year:	2019
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 2016 MVA, 500/230 kV 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 area and to support the expansion of Plant Vogtle.
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In-Service Year:	2020
Project Name:	BLAKELY PRIMARY – MITCHELL 115 KV T.L.
Description:	Upgrade approximately 48.2 miles of 115 kV transmission line from Plant Mitchell to Morgan substation to 100°C operation.
Supporting Statement:	The Blakely Primary – Mitchell 115 kV transmission line overloads under contingency.
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In-Service Year:	2020
Project Name:	DEAL BRANCH – SYLVANIA 115 KV T.L.
Description:	Upgrade approximately 23.1 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.
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In-Service Year: 2020

Project Name: **EVANS PRIMARY – THOMSON PRIMARY 115 KV T.L.**

Description: Reconductor approximately 4.2 miles of 115 kV transmission line along the Evans – Patriots Park section of the Evans Primary – Thomson Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 336 ACSR jumper with 795 ACSR at 100°C.

Supporting Statement: The Evans Primary – Thomson Primary 115 kV transmission line overloads under contingency.

In-Service Year: 2020

Project Name: **MCINTOSH 230/115 KV SUBSTATION**

Description: Replace the existing 280 MVA, 230/115 kV transformer with a 400 MVA transformer.

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

In-Service Year: 2020

Project Name: **NORTH AMERICUS – PERRY 115 KV T.L.**

Description: Rebuild approximately 43 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: **OFFERMAN 230/115 KV SUBSTATION**

Description: Replace the existing 140 MVA 230/115 kV transformers with two 300 MVA 230/115 kV transformers.

Supporting Statement: The Offerman 230/115 kV transformers overload under contingency.

In-Service Year: 2020

Project Name: **SINCLAIR DAM – WARRENTON 115 KV T.L.**

Description: Reconductor approximately 17.4 miles of 115 kV transmission line 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: 2020

Project Name: **STATESBORO PRIMARY – WADLEY PRIMARY 115 KV T.L.**

Description: Upgrade approximately 17.0 miles along the Nunez tap – Stillmore – Metter section of the Statesboro – Wadley Primary 115 kV transmission line from 50°C to 100°C operation. Replace the 600 A line switches at the Nunez Tap with 2000 A switches. Replace 600 A switches at Wadley Primary with 2000 A switches.

Supporting Statement: The Nunez tap – Stillmore – Metter section of the Statesboro – Wadley Primary 115 kV transmission line overloads under contingency.

In-Service Year: 2021

Project Name: **DOUGLASVILLE – POST ROAD 115 KV T.L.**

Description: Reconductor approximately 6.0 miles along the Douglasville – Anneewakee Junction section of the Douglasville – Post Road 115 kV transmission line with 1033 ACSR at 100°C.

Supporting Statement: The Douglasville 115 kV transmission line overloads under contingency.

In-Service Year: 2021

Project Name: **KETTLE CREEK – PINE GROVE 115 KV T.L.**

Description: Upgrade approximately 21.7 miles of the Kettle Creek – Pine Grove 115 kV transmission line to 75°C operation.

Supporting Statement: The Kettle Creek – Pine Grove 115 kV transmission line overloads under contingency.

In-Service Year: 2022

Project Name: **NORTH BAY MINETTE SUBSTATION**

Description: Construct a new substation at Bay Minette Tap and upgrade the Bay Minette DS – Steelwood 115 kV transmission line to 100°C.

Supporting Statement: Provides additional maintenance flexibility.

In-Service Year:	2023
Project Name:	BELLEVILLE – NORTH BREWTON 230 KV T.L.
Description:	Construct approximately 15 miles of 230 kV transmission line from Belleville to North Brewton TS with 1351 ACSS at 200°C.
Supporting Statement:	Provides additional maintenance flexibility.
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In-Service Year:	2023
Project Name:	DAWES SUBSTATION
Description:	Construct a new substation at Dawes Tap on the Big Creek – N. Theodore 115 kV transmission line. Construct 4.0 miles of 795 ACSS transmission line at 160°C from Dawes SS to Lynndell TP. Reconductor approximately 4 miles of 115 kV transmission line from Lott Road – Schillinger Road with 795 ACSS.
Supporting Statement:	Provides increased reliability and additional maintenance flexibility.
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In-Service Year:	2023
Project Name:	DEMOPOLIS TS – CEMEX 115 KV T.L.
Description:	Construct approximately 1.0 mile of 795 ACSR 115 kV transmission line at 100°C from Demopolis TS to Cemex.
Supporting Statement:	Provides increased reliability and additional maintenance flexibility.
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In-Service Year:	2023
Project Name:	HARRIS – NORTH SELMA 230 KV T.L.
Description:	Rebuild approximately 26 miles of the Autaugaville (Harris SS) – North Selma 230 kV transmission line with 1033 ACSS at 160°C.
Supporting Statement:	The Harris – North Selma 230 kV transmission line overloads under contingency.
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In-Service Year:	2023
Project Name:	HONDA – KRONOSPAN 115 KV T.L.
Description:	Construct approximately 10.3 miles of 795 ACSR 115 kV transmission line at 100°C from Honda to Kronospan.
Supporting Statement:	Provides increased reliability and voltage support and additional maintenance flexibility.

In-Service Year:	2023
Project Name:	JACK MCDONOUGH – WEST MARIETTA (WHITE) 115 KV T.L.
Description:	Reconductor approximately 4.0 miles of 115 kV transmission line from Plant McDonough to King Springs Road with 1033 ACSR at 100°C. Replace the 750 AAC jumpers at King Springs Road with 1590 AAC.
Supporting Statement:	The Jack McDonough – King Springs Road transmission line overloads under contingency.
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In-Service Year:	2023
Project Name:	MOULTRIE – NORTH TIFTON 115 KV T.L.
Description:	Replace 115 kV jumpers on the Moultrie – North Tifton 115 kV transmission line at the North Tifton substation.
Supporting Statement:	The terminal equipment at North Tifton overload under contingency.
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In-Service Year:	2023
Project Name:	NORTH BREWTON T.S. – NORTH BREWTON D.S. 115 KV T.L.
Description:	Construct approximately 6.0 miles of 115 kV transmission line from North Brewton T.S. – North Brewton D.S. with 795 ACSS at 100°C.
Supporting Statement:	The North Brewton TS – Brewton Tap 115 kV transmission line overloads under contingency.
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In-Service Year:	2024
Project Name:	BLANKETS CREEK – WOODSTOCK 115 KV T.L.
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.
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In-Service Year:	2024
Project Name:	BONAIRE PRIMARY – KATHLEEN 115 KV T.L.
Description:	Reconductor approximately 5.9 miles of existing 336 ACSR 115 kV transmission line from Bonaire Primary to Kathleen with 795 ACSR at 100°C.
Supporting Statement:	The Bonaire Primary – Kathleen 115 kV transmission line overloads under contingency.

In-Service Year: 2024
Project Name: **CHICKASAW – BLAKELY ISLAND 115 KV T.L.**
Description: Reconductor approximately 0.6 miles of 115 kV transmission line from Kimberly Clark – Blakely Island with 1033 ACSS at 160°C.
Supporting Statement: The Chickasaw – Blakely Island 115 kV transmission line overloads under contingency.

In-Service Year: 2024
Project Name: **DYER ROAD 230/115 KV SUBSTATION**
Description: Install a second 230/115 kV, 400 MVA transformer at Dyer Road.
Supporting Statement: The existing Corn Crib 230/115 kV transformer overloads under contingency.

In-Service Year: 2024
Project Name: **GRADY – MORROW 115 KV T.L.**
Description: Rebuild approximately 3.5 miles of the Grady – Morrow 115 kV transmission line with 1033 ACSR at 100°C.
Supporting Statement: The Grady – Morrow 115 kV transmission line overloads under contingency.

In-Service Year: 2024
Project Name: **KLONDIKE – MORROW 230 KV SUBSTATION**
Description: Replace two 1200 A switches at Morrow on the Klondike – Morrow 230 kV transmission line with 2000 A switches.
Supporting Statement: The switches at Morrow overload under contingency.

In-Service Year: 2024
Project Name: **LAUREL EAST 230/115KV SUBSTATION**
Description: Replace the Laurel East 230/115 kV transformer with a 400 MVA transformer.
Supporting Statement: The 230/115 kV transformer at Laurel East overloads under contingency.

In-Service Year:	2024
Project Name:	LAWRENCEVILLE – NORCROSS 230 KV T.L.
Description:	Reconductor 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.
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In-Service Year:	2024
Project Name:	POSSUM BRANCH – YATES 115 KV T.L.
Description:	Reconductor approximately 12 miles of the Possum Branch – Yates 115 kV transmission line with 1351 ACSR conductor at 100°C.
Supporting Statement:	The Possum Branch – Yates 115 kV line overloads under contingency.
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In-Service Year:	2024
Project Name:	SOUTH COWETA – SOUTH GRIFFIN 115 KV T.L.
Description:	Reconductor approximately 5.0 miles of 115 kV transmission line along the South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line with 1033 ACSR at 100°C.
Supporting Statement:	The South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line overloads under contingency.
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In-Service Year:	2025
Project Name:	ARNOLD MILL – HOPEWELL 230 KV T.L.
Description:	Construct approximately 14.7 miles of 230 kV transmission line from Arnold Mill to Hopewell. Convert Batesville Road and Birmingham substations from 115 kV highside to 230 kV highside. Install one new 230 kV breaker at Hopewell and three new 230 kV breakers at Arnold Mill.
Supporting Statement:	The Holly Springs – Hopewell 115 kV transmission line overloads under contingency. Also, additional voltage support is needed at Windward under contingency.
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In-Service Year: 2025

Project Name: **CONYERS – CORNISH MOUNTAIN 115 KV T.L.**

Description: Reconductor approximately 4.8 miles along the Conyer – Cornish Mounain 115 kV transmission line with 795 ACSS at 160°C.

Supporting Statement: The Conyers – Cornish Mountain 115 kV transmission line overloads under contingency.

In-Service Year: 2025

Project Name: **EAST VIDALIA SUBSTATION**

Description: Replace 600 A switch at East Vidalia with a 1200 A switch.

Supporting Statement: The switch at East Vidalia overloads under contingency.

In-Service Year: 2025

Project Name: **HOPE HULL AREA SOLUTION**

Description: Construct a new 230/115 kV substation near Hope Hull. Construct 5.0 miles of 1351 ACSS 230 kV transmission line at 200°C between Snowdown and the new 230/115 kV substation. Construct 2.5 miles of 795 ACSR 115 kV transmission line between the new 230/115 kV TS and Hyundai Power Transformers. Construct 3.0 miles of 795 ACSR 115 kV transmission line at 100°C between the new 230/115 kV TS and West Montgomery – Greenville 115 kV transmission line. Reconductor 5.0 miles of 397 ACSR on the Pintlala – West Montgomery 115 kV transmission line with 795 ACSR. Reconductor 2.7 miles of the Hope Hull Tap – Hyundai Power Transformers 115 kV transmission line with 795 ACSR.

Supporting Statement: Provides increased reliability and additional maintenance flexibility.

In-Service Year: 2025

Project Name: **MCEVER ROAD – SHOAL CREEK 115 KV T.L.**

Description: Reconductor approximately 19.6 miles of 115 kV transmission line along the McEver Road – Shoal Creek 115 kV transmission line with 1351 ACSR at 100°C.

Supporting Statement: The McEver Road – Shoal Creek 115 kV tansmission line overloads under contingency.

In-Service Year: 2026

Project Name: **DUM JON – FORT GORDON #2 115 KV SUBSTATION**

Description: Replace two 600A switches at Fort Gordon Hospital station with 2000A switches.
Replace the 300 Cu jumpers and bus at Fort Gordon substation with 1590 AAC jumpers.

Supporting Statement: The Dum Jon – Fort Gordon #2 115 kV transmission line overloads under contingency.

In-Service Year: 2026

Project Name: **NORCROSS – OCEE 230 KV T.L**

Description: Reconductor approximately 3.7 miles along the Norcross – Ocee 230 kV line with 1033 ACSS at 160°C.

Supporting Statement: The Norcross – Ocee 230 kV transmission line overloads under contingency.

In-Service Year: 2026

Project Name: **NORTH AMERICUS – PALMYRA 230 KV T.L.**

Description: Upgrade approximately 33.3 miles of the North Americus – Palmyra 230 kV transmission line to 100°C operation.

Supporting Statement: The North Americus – Palmyra transmission line overloads under contingency.

In-Service Year: 2017

Project Name: **CALHOUN AREA IMPROVEMENT 115 KV T.L.**

Description: Construct approximately 19.2 miles of new 115 kV transmission line to create the Swamp Creek – Fuller 115 kV transmission line with 1351 ACSR at 100°C.

Supporting Statement: Additional voltage support needed in the northern GA area under contingency.

In-Service Year: 2017

Project Name: **JOHNSONVILLE FP SUBSTATION**

Description: Install a 500/161 kV inter-tie transformer at the Johnsonville Fossil Plant substation.

Supporting Statement: The retirement of Johnsonville units 1-10 requires the replacement of the 500/161 kV inter-tie transformer bank at Johnsonville.

In-Service Year: 2017

Project Name: **JOHNSONVILLE FP SUBSTATION**

Description: Reconfigure the Johnsonville Fossil Plant substation. Project includes the retermination of a transmission line and transformer, along with various breaker and terminal equipment modifications.

Supporting Statement: Thermal overloads occur in the Columbia, TN and Bowling Green, KY areas under contingency.

In-Service Year: 2017

Project Name: **JOHNSONVILLE FP SUBSTATION**

Description: Install a capacitor bank of 5, 36 MVAR capacitors at the Johnsonville Fossil Plant substation.

Supporting Statement: Retirement of Johnsonville FP Units 1-10 will result in the need for additional voltage support in the Johnsonville area.

In-Service Year:	2017
Project Name:	SELMER – W. ADAMSVILLE 161 KV T.L.
Description:	Construct approximately 15 miles of 161 kV transmission line from Selmer to W. Adamsville with 954 ACSR at 100°C.
Supporting Statement:	Additional voltage support is needed in the Bolivar, TN area under contingency.
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In-Service Year:	2017
Project Name:	SUMMER SHADE – SUMMER SHADE TAP 161 KV T.L.
Description:	Reconductor approximately 0.1 miles of 161kV transmission line from the Summer Shade to Summer Shade Tap 161 kV line section with 795 ACSR at 100°C.
Supporting Statement:	The Summer Shade – Summer Shade Tap 161 transmission kV line section overloads under contingency.
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In-Service Year:	2018
Project Name:	BOWLING GREEN – MEMPHIS JUCTION 161 KV T.L.
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.
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In-Service Year:	2018
Project Name:	COUNCE, TN 161 KV SUBSTATION
Description:	Install a capacitor bank of 5, 9 MVAR capacitors in the Counce 161 kV substation.
Supporting Statement:	Additional voltage support is needed in the Counce, TN area under contingency
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In-Service Year:	2018
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: 2018

Project Name: **MURFREESBORO IND PARK 161 KV SUBSTATION**

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: 2018

Project Name: **NASHVILLE AREA IMPROVEMENT PLAN**

Description: Install an additional 1344 MVA, 500/161 kV transformer at the Pin Hook 500 kV substation. Reconductor the Nolensville Road – Elysian Fields 161 kV transmission line with 636 ACSS at 150°C. Reconductor the Murfreesboro Road – Airport 161 kV transmission line with 636 ACSS at 150°C. Reconductor the Blackman Tap – Smyrna 161 kV transmission line with 636 ACSS at 150°C. Construct the Montgomery – Clarksville #3 161 kV transmission line with 1590 ACSS at 150°C.

Supporting Statement: Thermal overloads and additional voltage support is needed in the Nashville area under contingency.

In-Service
Year: 2018

Project Name: **PLATEAU 500 KV SUBSTATION**

Description: Construct the Plateau 500 kV substation by looping in the Wilson – Roane 500 kV and West Cookeville – Rockwood 161 kV transmission lines.

Supporting Statement: Thermal overload and need for additional voltage support in the Murfreesboro, TN and Knoxville, TN areas under contingency.

In-Service
Year: 2018

Project Name: **ROYAL BLUE, TN 161 KV SUBSTATION**

Description: Install a capacitor bank of 5, 9 MVAR capacitors at a new switching station near the Royal Blue, TN delivery point.

Supporting Statement: Additional voltage support is needed in the Caryville, TN area under contingency.

In-Service
Year: 2018

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: **RED HILLS – LEAKE 161 KV T.L.**

Description: Construct approximately 60 miles of the new Red Hills – Leake 161 kV transmission line 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: **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 needed in the Huntsville, AL area under contingency.

In-Service
Year: 2020

Project Name: **ALCOA SS – NIXON ROAD 161 KV T.L.**

Description: Rebuild approximately 12 miles of the Alcoa North – Nixon Road 161 kV transmission line with 1590 ACSR at 100°C and construct approximately 2 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:	2020
Project Name:	BLUFF CITY – ELIZABETHTON 161 KV T.L.
Description:	Construct approximately 12 miles of 161 kV transmission line from Bluff City to Elizabethton with 954 ACSR at 100°C.
Supporting Statement:	Additional voltage support is needed in the Elizabethton, TN area under contingency.
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In-Service Year:	2020
Project Name:	HOLLY SPRINGS, MS 161 KV SUBSTATION
Description:	Install a capacitor bank of 3, 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.
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In-Service Year:	2021
Project Name:	WEST POINT – STARKVILLE 161 KV T.L.
Description:	Reconductor approximately 14 miles of the West Point – Starkville 161 kV transmission line with 954 ACSS at 125°C.
Supporting Statement:	The West Point – Starkville 161 kV transmission line overloads under contingency.
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In-Service Year:	2024
Project Name:	RADNOR – PIN HOOK 161 KV T.L.
Description:	Reconductor approximately 10 miles of the Radnor – Pin Hook 161 kV transmission line with 1590 ACSS at 125°C.
Supporting Statement:	The Radnor – Pin Hook 161 kV transmission line overloads under contingency.
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In-Service Year:	2024
Project Name:	W. NASHVILLE – CLARKSVILLE 161 KV T.L.
Description:	Upgrade approximately 8 miles of the W. Nashville – Clarksville 161 kV transmission line to 100°C operation.
Supporting Statement:	The W. Nashville – Clarksville 161 kV transmission line overloads under contingency.

In-Service Year: 2025

Project Name: **HIWASSEE HP AND MURPHY 161 KV SUBSTATION**

Description: Install additional breakers at the Hiwassee HP 161 kV Substation to provide a double breaker bus configuration. Install additional breakers at the Murphy, NC 161 kV Substation to create a ring bus configuration. Construct approximately 2 miles of transmission line from the Murphy 161 kV Substation to Harshaw Road 161 kV Substation with 954 ACSR at 100°C.

Supporting Statement: Additional voltage support is needed in the area under contingency.

In-Service Year: 2025

Project Name: **RICKMAN 161 KV SUBSTATION**

Description: Install a capacitor bank of 5, 9 MVAR 161 kV capacitors at the Rickman, TN Substation.

Supporting Statement: Additional voltage support is needed in the area under contingency.

PRELIMINARY