PowerSouth Energy Cooperative

South Mississippi Electric Power Association

Dalton Utilities

Southeastern Regional Transmission Planning Process

PRELIMINARY 10 YEAR EXPANSION PLAN

Original: June 15, 2012
Revised: June 29, 2012

Southern Company
Energy to Serve Your World℠

MEAG Power

Georgia Transmission

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[1]The projects described in this document represent the current ten year expansion plan. The expansion plan is 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.

Section 1.

10 YEAR EXPANSION PLAN

EAST

EAST PROJECTS

In Year: 2012

Project Name: **PINSON 230 KV REACTOR**

Description: Install a 1% series reactor at Pinson on the Cartersville 230 kV transmission line.

Supporting Statement: The loss of the Conasauga – Mosteller Springs 500 kV transmission line, with Bowen Unit #1 offline, causes the Pinson – Cartersville 230 kV transmission line to become overloaded.

In Year: 2013

Project Name: **CELANESE – METAL CONTAINER 115 KV TRANSMISSION LINE**

Description: Upgrade the Celanese – Metal Container 115 kV transmission line from 50 ℃ to a higher operating temperature.

Supporting Statement: The loss of Rome – Redmond 115 kV transmission line causes the Celanese – Metal Container 115 kV line to become overloaded.

In Year: 2013

Project Name: **DANIEL SIDING – RICEBORO 115 KV TRANSMISSION LINE**

Description: Create the Daniel Siding – Riceboro 115 kV transmission line by constructing the approximately 11.65 mile Burnt Church – Tradeport 115 kV transmission line section.

Supporting Statement: The loss of the Little Ogeechee – Richmond Hill section of the Daniel Siding – Little Ogeechee 115 kV transmission lines causes a need for additional area voltage support.

In Year: 2013

Project Name: **DAVIS ST – NORTHWEST 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.6 miles of existing 1033 AAC along the Davis Street – Northwest 115 kV transmission line with a 1500 A rated conductor or greater.

Supporting Statement: The loss of the Northwest – Jefferson Street 115 kV transmission line causes the Davis Street – Northwest 115 kV transmission line to become overloaded.

In Year: 2013

Project Name: **DAWSON CROSSING – GAINESVILLE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 12.8 miles of existing 336 ASCR, 115 kV transmission line between Dawsonville and Gainesville #1 795 ACSR. Replace the 600 A switches at Gainesville #1 with 1200 A switches or greater.

Supporting Statement: The loss of the South Hall 500 / 230 kV transformer will overload the Dawsonville – Gainesville #1 segment of the Dawson Crossing – Gainesville #1 115 kV transmission line.

EAST PROJECTS

In Year: 2013

Project Name: **DOUGLASVILLE – POST ROAD 115 KV TRANSMISSION LINE**

Description: Reconductor the 2.1 mile section of 397 ACSR 115 kV transmission line at 75°C from Annewakee Junction – Annewakee with 1033 ACSR at 100°C.

Supporting Statement: The Annewakee Junction – Camp Creek 115 kV transmission line will become overloaded due to the forecasted load increase at Annewakee, Camp Creek and Ben Hill substations.

In Year: 2013

Project Name: **FORTSON – TALBOT COUNTY #1 230 KV TRANSMISSION LINE**

Description: Install a 2% series reactor at Fortson on the Talbot County #1 230 kV transmission line.

Supporting Statement: The loss of the Bonaire – Scherer 500 kV transmission line causes the Fortson – Talbot County #1 230 kV transmission line to become overloaded.

In Year: 2013

Project Name: **JACK MCDONOUGH – NORTHWEST 230 KV TRANSMISSION LINES**

Description: Upgrade the two existing Jack McDonough – Northwest (Black & White) 230 kV transmission lines from 50°C to 75°C operation.

Supporting Statement: The loss of the Jack McDonough – Peachtree 230 kV transmission line causes the Jack McDonough – Northwest 230 kV transmission lines to become overloaded.

In Year: 2013

Project Name: **LASSITER – NORTH MARIETTA 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.2 miles of 636 ACSR along the North Marietta – Marietta #5 section of the Lassiter – North Marietta 115 kV transmission line with a 1500 A rated conductor or greater. Replace termination equipment at North Marietta.

Supporting Statement: The loss of the North Marietta – Marietta #4 115 kV transmission line section overloads the North Marietta – Marietta #5 section of the Lassiter Road – North Marietta 115 kV transmission line.

In Year: 2013

Project Name: **LLOYD SHOALS – PORTERDALE 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 3.5 miles of 397 ACSR to 100°C operation from Porterdale to the South Covington Junction on the Lloyd Shoals – Porterdale 115 kV transmission line.

Supporting Statement: The loss of the South Griffin end of the Lloyd Shoals – South Griffin 115 kV transmission line overloads the Porterdale – South Covington Junction section of the Lloyd Shoals – Porterdale 115 kV transmission line.

EAST PROJECTS

In Year: 2013

Project Name: **MCDONOUGH 4 & 5 NETWORK IMPROVEMENT**

Description: Rebuild and reconfigure the Atkinson – Northside Drive and Northside Drive – Northwest 115 kV transmission lines with a conductor capable of carrying at least 1500 A.

Supporting Statement: The loss of the Atkinson – Northside Drive 115 kV transmission line or Jack McDonough – Peachtree 230 kV transmission line causes the Northside Drive – Northwest 115 kV transmission line to become overloaded.

In Year: 2013

Project Name: **NORTHSIDE DRIVE – SPRING STREET 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.2 miles of existing 1033 AAC along the Northside Drive – Spring Street 115 kV transmission line with a 1500 A rated conductor or greater.

Supporting Statement: The loss of the Jack McDonough – Peachtree 230 kV transmission line causes the Northside Drive – Spring Street 115 kV transmission line to become overloaded.

In Year: 2013

Project Name: **PEACHTREE 230 KV SUBSTATION**

Description: At Peachtree, convert all load transformers to 230 kV highside, remove the 230 / 115 kV transformer (Transformer "A") and add two 230 kV bus tie breakers in series. Tie the Boulevard and Rottenwood Creek 115 kV transmission lines together outside the substation.

Supporting Statement: The loss of the Boulevard – Peachtree 230 kV transmission line causes the Boulevard – Peachtree 115 kV transmission line and Peachtree 230 / 115 kV transformer to become overloaded.

In Year: 2013

Project Name: **SOUTH COLUMBUS 115 KV SUBSTATION**

Description: At the South Columbus substation, replace the existing 4/0 copper jumpers with 1590 AAC jumpers and the 600 A switches with 1200 A switches on the Dawson Primary 115 kV transmission line.

Supporting Statement: The loss of the North Tifton 500 / 230 kV transformer causes terminal equipment, in the South Columbus substation, to become overloaded.

EAST PROJECTS

In Year: 2013

Project Name: **SPRING CREEK 115 KV SWITCHING STATION**

Description: Construct a four breaker 115 kV switching station at the East Colquitt / West Donalsonville junction of the Blakely – East Bainbridge 115 kV transmission line.

Supporting Statement: The loss of the Farley – South Bainbridge 230 kV transmission line, with Lansing Smith Unit #3 offlline, overloads the North Camilla – Raccoon Creek section of the Raccoon Creek – Thomasville 230 kV transmission line and the Blakeley – East Bainbridge 115 kV transmission line.

In Year: 2014

Project Name: **BULL CREEK – VICTORY DRIVE 115 KV TRANSMISSION LINE**

Description: Reconductor 2.5 miles along the Victory Drive to Saint Mary's Junction section of the Bull Creek – Victory Drive 115 kV transmission line with 795 ACSR at 100°C operation.

Supporting Statement: The loss of the First Avenue end of the Bull Creek – First Avenue 115 kV transmission line causes the Victory Drive – Chloride segment of the Bull Creek – Victory Drive 115 kV transmission line to become overloaded.

In Year: 2014

Project Name: **CRISP COUNTY AREA IMPROVEMENTS – PHASE II**

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 loss of the Crisp #4 – Crisp #4 Junction section of the North Americus – Pitts 115 kV transmission line results in a need for area voltage support in the Crisp County area.

In Year: 2014

Project Name: **DRESDEN AREA PROJECT**

Description: Construct approximately 8.0 miles of new 500 kV transmission line between Heard County and Dresden. Remove the two parallel 2%, 230 kV reactors on the low side of the 500 / 230 kV transformer "A" at Villa Rica substation. Loop the existing Wansley – O'Hara 500 kV transmission line into the expanded Dresden substation to allow it to cross the new Heard County – Dresden 500 kV line. Install 2% reactors on the Dresden – Yates 230 kV transmission line.

Supporting Statement: The loss of the O'Hara – Wansley 500 kV transmission line causes the Villa Rica – Wansley 500 kV transmission line to become overloaded. Also, the loss of the Villa Rica – Wansley 500 kV transmission line causes the O'Hara – Wansley 500 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2014

Project Name: **DYER ROAD SUBSTATION**

Description: Construct a new 230 / 115 kV substation at Dyer Road with a 400 MVA transformer. Loop in the Thomaston – Yates 230 kV transmission line, as well as the Thomaston – Yates and East Roanoke – Yates 115 kV transmission lines. Reconfigure the Lagrange Primary – Yates 115 kV transmission line to terminate at Dyer Road.

Supporting Statement: This project alleviates the loadings on the South Coweta – Yates, O'Hara – South Coweta, Lagrange – Yates and Yates – Bremen 115 kV transmission lines, as well as the South Coweta and Bremen 230 / 115 kV transformers, while providing additional area voltage support.

In Year: 2014

Project Name: **EAST POINT SUBSTATION**

Description: At East Point substation, replace the 600 A switches on the East Point – Mountain View and East Point – Camp Creek 115 kV transmission lines with 1600 A switches. Replace the 750 AAC jumpers on the East Point – Willingham Drive 115 kv transmission line with with 1590 AAC jumpers.

Supporting Statement: The loss of the Davis Street – University Center section of the Davis Street – West End 115 kV transmission line causes the terminal equipment at East Point substation on the East Point – Mountain View, East Point – Camp Creek, and East Point – Willingham Drive 115 kV transmission lines to become overloaded.

In Year: 2014

Project Name: **MCINTOSH – BLANDFORD - MELDRIM 230 KV BLACK/WHITE TRANSMISSION LINE**

Description: Reconductor approximately 18.2 miles with 1622 ACCR/TW at 210°C along the McIntosh – Blandford – Meldrim 230 kV (Black & White) transmission lines.

Supporting Statement: The loss of one of the McIntosh – Meldrim 230 kV transmission lines causes the other line to become overloaded.

In Year: 2014

Project Name: **MCMANUS – WEST BRUNSWICK 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 5.7 miles of existing 115 kV transmission line from McManus – West Brunswick with 1351 ACSR.

Supporting Statement: The loss of the McManus – West Brunswick 230 kV transmission line causes the McManus – West Brunswick 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2014

Project Name: **NORTH COOSA SUBSTATION**

Description: Construct a new 230 / 115 kV substation near the existing Coosa substation with a 400 MVA transformer. Loop in the Bowen – Rocky Mountain and Hammond – Rocky Mountain 230 kV transmission lines, as well as the Hammond – Lafayette and Hammond – Rome 115 kV transmission lines.

Supporting Statement: This project alleviates loadings on the Metal Container – Pinson and Pinson – Rome 115 kV transmission lines as well as provides additional area voltage support.

In Year: 2014

Project Name: **NORTH TIFTON SUBSTATION**

Description: Install a new 2016 MVA, 500 / 230 kV transformer in parallel to the existing 500 / 230 kV transformer at North Tifton.

Supporting Statement: The loss of the Raccoon Creek 500 / 230 kV transformer causes the North Tifton 500 / 230 kV transformer to become overloaded.

In Year: 2014

Project Name: **THOMASTON SUBSTATION**

Description: Upgrade the existing 300 MVA, 230 / 115 kV transformer "C" at Thomaston with a new 400 MVA, 230 / 115 kV transformer.

Supporting Statement: The loss of the 230 kV bus tie at Thomaston causes the 230 / 115 kV transformer "C" at Thomaston to become overloaded.

In Year: 2014

Project Name: **YATES SUBSTATION**

Description: Replace eight 230 kV breakers at Plant Yates.

Supporting Statement: Breaker improvement.

In Year: 2015

Project Name: **BONAIRE – KATHLEEN 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.9 miles of existing 336 ACSR 115 kV transmission line from Bonaire – Waterford with 795 ACSR at 100°C.

Supporting Statement: The loss of the Bonaire – Kathleen 230 kV transmission line causes the Bonaire – Waterford 115 kV section to become overloaded.

EAST PROJECTS

In Year: 2015

Project Name: **BOULEVARD 230 / 115 KV PROJECT**

Description: Construct the Garrard Avenue 230 / 115 kV substation, the Cemetary Hill 230 kV switching station, and the Cemetery Hill - Dean Forest 230 kV transmission line with 1351 ACSS at 170°C. Rebuild the Dean Forest – Garrard Avenue 11 5 kV transmission lines with 1351 ACSS at 170°C and convert one to 230 kV operation.

Supporting Statement: The loss of one Kraft 230 / 115 kV transformer causes the other to become overloaded. The loss of one Deptford – Kraft 115 kV transmission line causes the other to become overloaded

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In Year: 2015

Project Name: **CONYERS – CORNISH MOUNTAIN 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.9 miles of 636.0 ACSR, 115 kV transmission line from Conyers to Salem Gate along the Conyers – Cornish Mountain 115 kV transmission line with 1351 ACSR at 100°C. Replace the 750 AAC jumpers at North Conyers with 1590 AAC jumpers.

Supporting Statement: The loss of the Klondike – Porterdale 230 kV transmission line causes the Conyers to Salem Gate section of the Conyers – Cornish Mountain 115 kV transmission line to become overloaded.

In Year: 2015

Project Name: **DAWSON PRIMARY – SOUTH COLUMBUS 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 8.3 miles from South Columbus to Fort Mitchell Junction and Fort Mitchell Junction to Fort Benning #2 along the Dawson Primary – South Columbus 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Raccoon Creek – Long Leaf 500 kV transmission line causes sections of the Dawson Primary – South Columbus 115 kV transmission line to become overloaded.

In Year: 2015

Project Name: **DOUGLAS – PINE GROVE 230 KV TRANSMISSION LINE**

Description: Construct 53 miles of new 230 kV transmission line from Douglas to Pine Grove with 1351 ACSR at 100°C.

Supporting Statement: The loss of the East Moultrie – East Berlin section causes the North Tifton – Osceola SW 230 kV section of the North Tifton – Pine Grove 230 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2015

Project Name: **FIRST AVENUE – VICTORY DRIVE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 6.4 miles along the First Avenue – Victory Drive 115 kV transmission line with 1033 ACSR at 100°C.

Supporting Statement: The loss of any section of the Bull Creek – First Avenue 115 kV transmission line causes the First Avenue – Victory Drive 115 kV transmission line to become overloaded.

In Year: 2015

Project Name: **FIRST AVENUE 230 / 115 KV SUBSTATION**

Description: Replace the 1590 AAC jumpers on the lowside of the First Avenue 230 / 115 kV transformer #2 with 2000 AAC jumpers.

Supporting Statement: The loss of the First Avenue – Goatrock 230 kV transmission line, with Farley Unit 1 offline, causes the lowside jumpers on the First Avenue 230 / 115 kV transformer #2 to become overloaded.

In Year: 2015

Project Name: **FORREST ROAD – RUMBLE ROAD 115 KV TRANSMISSION LINE**

Description: Replace the 1200 A switches at Smart Tap and Bolingbroke with 2000 A switches. Replace the 1590 AAC jumpers at Rumble Road and Bolingbroke with 2-750 AAC jumpers.

Supporting Statement: The loss of the Thomaston – Dorsett 230 kV transmission line causes the terminal equipment along the Forrest Road – Rumble Road 115 kV transmission line to become overloaded.

In Year: 2015

Project Name: **FORTSON – TALBOT COUNTY #1 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 13.0 miles along the Fortson – Talbot County #1 230 kV transmission line with 1351 ACSS at 160°C. Remove the series reactor at Fortson.

Supporting Statement: The loss of the Bonaire – Scherer 500 kV transmission line causes the Fortson – Talbot County #1 230 kV transmission line to become overloaded.

In Year: 2015

Project Name: **JASPER – PINE GROVE 115 KV TRANSMISSION LINE**

Description: Rebuild, at 230 kV specifications, approximately 21.7 miles along the Jasper – Pine Grove 115 kV transmission line with 1351 ACSR at 100°C a nd network the transmission line.

Supporting Statement: The loss of the Pine Grove – Suwannee 230 kV transmission line causes the Jasper – West Homerville – Kettle Creek and Pine Grove – Twin Lakes 115 kV transmission lines to become overloaded.

EAST PROJECTS

In Year: 2015

Project Name: **NORTH AMERICUS – TALBOT COUNTY #2 230 KV TRANSMISSION LINE**

Description: At North Americus, remove the 2%, 1600 A series reactor on the North Americus – North Tifton 230 kV transmission line and re-install the reactor in series with the existing 2% reactor on the North Americus – Talbot County #2 230 kV transmission line.

Supporting Statement: The loss of the Fortson – North Tifton 500 kV transmission line causes the Fortson – Talbot County #2 230 kV transmission line to become overloaded.

In Year: 2015

Project Name: **NORTH COOSA – ROME 115 KV TRANSMISSION LINE**

Description: Reconductor the North Coosa – Rome 115 kV transmission line with 1033 ACSS at 200° C. Replace the existing 1200 A line trap at Rome with a 2000 A line trap.

Supporting Statement: The loss of the Rocky Mountain – Pinson 230 kV transmission line causes the North Coosa – Rome 115 kV transmission line to become overloaded.

In Year: 2015

Project Name: **OFFERMAN SUBSTATION**

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

Supporting Statement: The loss of one 230 / 115 kV transformer at Offerman causes the parallel transformer to become overloaded.

In Year: 2015

Project Name: **OSELIGEE 115 KV CAPACITOR BANK**

Description: Install a 20 MVAR, 115 kV capacitor bank at Oseligee Substation

Supporting Statement: The loss of the Pittman Road – Oseligee section of the Pittman Road – West Point Dam 115 kV transmission line, with Farley Unit #1 offline, causes a need for voltage support.

In Year: 2015

Project Name: **PLANT KRAFT 115 / 46 KV SUBSTATION**

Description: Install a second 115 / 46 kV transformer at the Plant Kraft Substation.

Supporting Statement: The loss of the Kraft 115 / 46 kV transformer, with a Kraft 46 kV generating unit offline, causes the existing Millhaven 115 / 46 kV transformer to become overloaded. Also, the loss of the Millhaven 115 / 46 kV transformer overloads the Kraft 115 / 46 kV transformer.

EAST PROJECTS

In Year: 2015

Project Name: **RACCOON CREEK – THOMASVILLE 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 15.5 miles of 230 kV transmission line from Raccoon Creek to Cotton along the Raccoon Creek – Thomasville 230 kV transmission line with 1033 ACSS at 170 ℃. Replace 1600 amp switches and 1590 AAC j umpers at Cotton Primary with 2000 amp switches and 2500 AAC jumpers.

Supporting Statement: The loss of the South Bainbridge – Farley 230 kV transmission line causes the Raccoon Creek – Cotton section of the Raccoon Creek – Thomasville 230 kV transmission line to become overloaded.

In Year: 2016

Project Name: **AULTMAN ROAD – BONAIRE PRIMARY 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.65 miles of 336 ACSR 115 kV transmission line along the Bonaire – Peach Blossom section of the Bonaire – Aultman Road 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of Bonaire – 96 Highway 115 kV transmission line section causes the Bonaire – Peach Blossom 115 kV transmission line to become overloaded.

In Year: 2016

Project Name: **CLAXTON – STATESBORO PRIMARY 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 0.9 miles of existing 336 ACSR along the Statesboro Primary – Langston section of the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100 ℃. Replace switches at Langston and St atesboro.

Supporting Statement: The loss of the Meldrim – River section of the Claxton – Meldrim 115 kV transmission line causes the Langston – Statesboro section to become overloaded.

In Year: 2016

Project Name: **DOUGLASVILLE – POST ROAD 115 KV TRANSMISSION LINE**

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

Supporting Statement: The loss of the Post Road end of the Douglasville – Post Road 115 kV transmission line causes the Douglasville end to become overloaded.

In Year: 2016

Project Name: **EAST VIDALIA SUBSTATION**

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

Supporting Statement: The loss of the Hatch – South Hazlehurst 230 kV transmission line, with Lansing Smith Unit 3 offline, causes the switch at East Vidalia to become overloaded.

EAST PROJECTS

In Year: 2016

Project Name: **GORDON – SANDERSVILLE 115 KV TRANSMISSION LINE**

Description: Upgrade the 30 miles section from Gordon to Robin Springs along the Gordon – Sandersville 115 kV transmission line from 50°C to 100°C operation.

Supporting Statement: The loss of the Branch – Gordon 230 kV transmission line causes the Gordon – Robin Spring section of the Gordon – Sandersville 115 kV transmission line to become overloaded

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In Year: 2016

Project Name: **PLANT VOGTLE – THOMSON PRIMARY 500 KV TRANSMISSION LINE**

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 Year: 2016

Project Name: **WADLEY 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 230 kV bus. Upgrade the 230 kV bus at Wadley with 2-1590 AAC. Replace the 125 MVA, 230 / 115 kV transformer "A" with a 300 MVA transformer.

Supporting Statement: Project to enhance reliability in the Augusta area.

In Year: 2016

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

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

Supporting Statement: The loss of the Wadley – Waynesboro 230 kV transmission line causes the Waynesboro 230 / 115 kV transformer to become overloaded.

In Year: 2017

Project Name: **DEAL BRANCH – SYLVANIA 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 23.1 miles along the Sylvania – Deal Branch 115 kV transmission line to 100 °C operation.

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV transmission line causes the Sylvania – Deal Branch 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2017

Project Name: **DONALSONVILLE 115 KV CAPACITOR BANK**

Description: Install a new 115 kV, 25 MVAR capacitor bank at Donalsonville.

Supporting Statement: The loss of the East Bainbridge – Commodore Junction 115 kV transmission line results in a need for additional voltage support.

In Year: 2017

Project Name: **EAST POINT – CAMP CREEK 115 KV TRANSMISSION LINE**

Description: Rebuild the 397 ACSR portion of the East Point to Ben Hill tap section of the East Point – Camp Creek 115 kV transmission line with 1351 ASCR at 100°C at 230 kV specifications . Replace the existing 600 A switches at East Point with 2000 amp equipment.

Supporting Statement: The loss of the Douglasville – Post Road 115 kV transmission line causes the East Point to Ben Hill tap section of the East Point – Camp Creek 115 kV transmission line to become overloaded under load restoration conditions.

In Year: 2017

Project Name: **HAMPTON – MCDONOUGH 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 2.1 miles from McDonough to Dailey Mill Tap along the McDonough – Hampton 115 kV transmission line with double circuit 1351 ACSR constructed at 230 kV specifications. Construct approximately 3.6 miles of 115 kV transmission line from Dailey Mill to Flippen with 1351 ACSR, creating a network line from McDonough to Stockbridge (through Greenwood Park, Dailey Mill, and Flippen).

Supporting Statement: The Hampton – McDonough tap line will overload while serving the Dailey Mill and Greenwood Park loads radially from either end.

In Year: 2017

Project Name: **HORSELEG CREEK CAPACITOR BANK**

Description: Install a new 15 MVAR capacitor bank at Horseleg Creek.

Supporting Statement: The loss of the Hammond – Inland 115 kV transmission line, with Looper Farm CC offline, causes a need for additional voltage support.

In Year: 2017

Project Name: **MCINTOSH – YEMASSEE (SCE&G) 115 KV TRANSMISSION LINE**

Description: Reconductor the 1.69 mile, GPC segment of the McIntosh – Jasper section of the McIntosh – Yemassee (SCE&G) 115 kV transmission line with 1351 ACSS at 160°C.

Supporting Statement: The loss of the McIntosh – Purrysburg (SCPSA) 230 kV transmission line causes the McIntosh – Yemasee (SCE&G) 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2017

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

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

Supporting Statement: The loss of the Meldrim 230 / 115 kV transformer, with Kraft Unit #3 offline, causes the McIntosh 230 / 115 kV transformer to become overloaded.

In Year: 2017

Project Name: **WEST MCINTOSH 230 KV REACTORS**

Description: Install 1%, 4000 A series reactor at West McIntosh on the McIntosh – West McIntosh 230 kV Black and White transmission lines.

Supporting Statement: The loss of one McIntosh – West McIntosh 230 kV line causes the parallel line to become overloaded.

In Year: 2018

Project Name: **2018 BASE REACTIVE SUPPORT**

Description: Increase the capacitor bank at Waverly Primary from 25 MVAR to 45 MVAR.

Supporting Statement: Area voltage support.

In Year: 2018

Project Name: **ALCOVY ROAD – SKC 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 0.53 miles of existing 336 ACSR 115 kV transmission line with 1033 ACSR from Alcovy Road to Alcovy Road Junction on the Alcovy Road – SKC 115 kV transmission line.

Supporting Statement: The loss of the East Social Circle 230 / 115 kV transformer causes the Alcovy Road – Alcovy Road Junction section of the Alcovy Road – SKC 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2018

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

Description: Reconductor approximately 7.1 miles of existing 336 ACSR with 795 ACSR at 100°C along the Austin Drive – River Road section of the Austin Drive – Morrow 115kV transmission line. Also, reconductor approximately 2.0 miles of existing 795 ACSR with 1351 ACSS at 170°C along the Morrow – Ellenwood se ction of the Austin Drive – Morrow 115kV transmission line.

Supporting Statement: The loss of the Austin Drive 230 / 115 kV transformer will overload the River Road – Rainbow Drive section of the Austin Drive – Morrow 115 kV transmission line. The loss of the Stockbridge end feeding Transco and Fairview 115 kV substations overloads the Morrow – Ellenwood section of the Austin Drive – Morrow 115 kV transmission line.

In Year: 2018

Project Name: **BOWEN – CARTERSVILLE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 8.54 miles of existing 477 ACSR 115 kV transmission line from Bowen to Cartersville with 1033 ACSR at 100°C .

Supporting Statement: The loss of the Bremen – Sewell Creek 230 kV transmission line causes the Bowen – Cartersville 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **BRANCH – GORDON 230 KV TRANSMISSION LINE**

Description: At Gordon substation, replace 1200 A line trap with a 3000 A line trap on the Branch – Gordon 230 kV transmission line.

Supporting Statement: The loss of Branch – West Milledgeville 230 kV transmission line, causes terminal equipment along the Branch – Gordon 230 kV transmission line to become overloaded.

In Year: 2018

Project Name: **BRANCH – WEST MILLEDGEVILLE 230 KV TRANSMISSION LINE**

Description: Replace 1590 AAC jumpers at both Branch and West Milledgeville along the Branch – West Milledgeville 230 kV transmission line with 2-750 AAC jumpers.

Supporting Statement: The loss of the Bonaire 500 / 230 kV transformer, with Hatch Unit #1 offline, causes the Branch – West Milledgeville 230 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2018

Project Name: **BREMEN – HICKORY LEVEL 115 KV (BLACK) TRANSMISSION LINE**

Description: Reconductor approximately 2.88 miles of existing 336 ACSR 115 kV transmission line from Hickory Level – West Villa Rica with 795 ACSR. Replace a 600 A switch with a 1200 A switch.

Supporting Statement: The loss of the Bremen 230 / 115 kV transformer causes the Hickory Level – West Villa Rica 115 kV section of the Bremen – Hickory Level 115 kV (Black) transmission line to become overloaded.

In Year: 2018

Project Name: **BROADWAY 115 KV CAPACITOR BANK**

Description: Install a 30 MVAR, 115 kV capacitor bank at Broadway substation

Supporting Statement: The loss of the South Macon – Graphic Packaging 115 kV line section, causes the need for additional voltage support along the Broadway – Graphic Packaging and Broadway – Armstrong 115 kV transmission lines.

In Year: 2018

Project Name: **BRUNSWICK – ST SIMONS 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.62 miles along the Brunswick – Stonewall Street section of the Brunswick – St. Simons 115 kV transmission line with 795 26/7 ACSR at 100 ℃. Replace three 600 A switches at Brunswick with 1200 A switches.

Supporting Statement: The loss of the Brunswick – East Beach 115 kV transmission line causes the Brunswick – St. Simons 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **CLAXTON – MELDRIM 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 7.2 miles along the Meldrim – River section of the Claxton – Meldrim 115 kV transmission line with 1033 ACSR at 100°C.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line causes the Claxton – Meldrim 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2018

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

Description: Construct a new 230 / 115 kV substation with a 300 MVA Transformer. The substation will have a three terminal 230 kV ring bus and a four terminal 115 kV ring bus. Loop in the Thomaston – Yates 230 kV transmission line, creating the Corn Crib – Yates 230 kV transmission line and the Corn Crib – Thomaston 230 kV transmission line. Loop in the Thomaston – Yates 115 kV transmission line creating the Corn Crib – Yates (Black) 115 kV transmission line and Corn Crib – Thomaston 115 kV transmission line. Terminate the Yates – Newnan #3 Junction transmission line, creating the Corn Crib – Yates (White) transmission line.

Supporting Statement: The loss of the South Coweta – Sharpsburg segment of the South Coweta – Yates 115 kV transmission line causes the Lagrange Primary – Lagrange #3 segment of the Lagrange Primary – Yates 115 kV transmission line to become overloaded. Also, the loss of either end of the Thomaston – Yates 115 kV transmission line will overload the opposite end. This project also provides voltage support along the Thomaston – Yates 115 kV transmission line.

In Year: 2018

Project Name: **DANIEL SIDING – LITTLE OGEECHEE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 9.6 miles of the Daniel Siding – Little Ogeechee section of the Hinesville Primary – Little Ogeechee 115 kV transmission line with bundled (2) 336 ACSS at at 200°C.

Supporting Statement: The loss of the Dorchester 230 kV source will overload the Little Ogeechee – Richmond Hill section of the Daniel Siding – Little Ogeechee 115 kV transmission line.

In Year: 2018

Project Name: **DECATUR – MORELAND AVENUE 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 1.6 miles of 636 ACSR along Decatur – Kirkwood 115 kV transmission line from 50°C to 100°C operation.

Supporting Statement: The loss of the Grady – Moreland Avenue transmission line will cause the Decatur – Moreland Avenue 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **EAST POINT – MOUNTAIN VIEW 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 4.0 miles of the existing 115 kV transmission line from East Point to the College Park #3 tap with 1033 ACSR at 100°C.

Supporting Statement: The loss of the Morrow end of the Morrow – Mountain View 115 kV transmission line causes the East Point – Mountain View 115 kV transmission line to overload between East Point and the College Park #3 tap.

EAST PROJECTS

In Year: 2018

Project Name: **EAST POINT – WILLINGHAM DRIVE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.7 miles of existing 636 ACSR 115 kV transmission line along the East Point – Willingham Drive 115 kV circuit with 1033 ACSR conductor at 100° C.

Supporting Statement: The loss of the Mountain View end of the Mountain View – Willingham Drive 115 kV transmission line causes the East Point – East Point #4 section of the East Point – Willingham Drive 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **FIFE CAPACITOR BANK**

Description: Add a 35 MVAR, 115 kV capacitor bank to the Fife 115 kV bus.

Supporting Statement: The loss of the Yates end of the Morrow – Yates 115 kV transmission line causes a need for additional voltage support.

In Year: 2018

Project Name: **HINESVILLE – LUDOWICI PRIMARY 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 8.1 miles of existing 477 ACSR with 795 ACSR along the Ludowici – Horse Creek section of the Hinesville – Ludowici 115 kV transmission line.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line, with Hatch unit #2 offline, causes the Ludowici – Horse Creek section of the Hinesville – Ludowici 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **JACK MCDONOUGH – WEST MARIETTA 115 KV (WHITE) TRANSMISSION LINE**

Description: Reconductor approximately 4.0 miles of 115 kV transmission line from the Plant McDonough 115 kV Substation to King Springs with 1033 ACSR. Replace the 750 AAC jumpers at King Spring Road with 1590 AAC.

Supporting Statement: The loss of the West Marietta – Fair Oaks section of the Jack McDonough – West Marietta 115 kV (white) transmission line overloads the Jack McDonough – King Springs section of the line.

EAST PROJECTS

In Year: 2018

Project Name: **JESUP – LUDOWICI PRIMARY 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 7.5 miles of existing 336 ACSR with 795 ACSR along the Rayonier – North Jesup – Jesup section of the Jesup – Ludowici Primary 115 kV transmission line.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line causes the Rayonier – North Jesup – Jesup sections of the Jesup – Ludowici Primary 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **LASSITER ROAD – NORTH MARIETTA 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.0 miles of 636 ACSR 115 kV transmission line along the Marietta #5 tap – Sandy Plain segment of the Lassiter Road – North Marietta 115 kV transmission line with 1622 ACSR/TW.

Supporting Statement: The loss of the North Marietta to Marietta #4 section of the North Marietta – Roswell 115 kV transmission line causes the Marietta #5 – Sandy Plains section of the Lassiter Road – North Marietta 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **LAWRENCEVILLE – NORCROSS 230KV TRANSMISSION LINE**

Description: Reconductor approximately 2.0 miles of 1033 ACSR conductor with 1351 ACSS conductor at 170°C from Boggs Road to Purcell Road along the Lawrenceville – Norcross 230 kV transmission line.

Supporting Statement: The loss of the South Hall 500 / 230 kV transformer or the Norcross – Suwanee 230 kV transmission line causes the Boggs Road – Purcell Road section of the Lawrenceville – Norcross 230 kV transmission line to become overloaded.

In Year: 2018

Project Name: **LICK CREEK CAPACITOR BANK**

Description: Install a 30 MVAR capacitor bank at Lick Creek substation.

Supporting Statement: Area voltage support.

EAST PROJECTS

In Year: 2018

Project Name: **LUDOWICI – WEST BRUNSWICK 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 36.4 miles along the Ludowici – West Brunswick 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Thalmann – McCall Road 500 kV transmission line causes the Ludowici – West Brunswick 115 kV transmission line to become overloaded.

In Year: 2018

Project Name: **MCMANUS – WEST BRUNSWICK 115 KV (BLACK) TRANSMISSION LINE**

Description: Construct approximately 8.0 miles of new 795 ACSR 115 kV transmission line from West Brunswick to a new point that taps the the McManus – Darien 115 kV transmission line.

Supporting Statement: The loss of the McManus end of the McManus – Troup Creek 115 kV transmission line requires additional area voltage support for load restoration from Riceboro.

In Year: 2018

Project Name: **MITCHELL – MOULTRIE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 8.0 miles of existing 336 ACSR along the Mitchell – Lester section of the Mitchell – Moultrie 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the North Tifton 500 / 230 kV transformer causes the Mitchell – Lester section of the Mitchell – Moultrie 115 kV transmission line to become overloaded.

In Year: 2018

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

Description: Replace the existing 230 / 115 kV transformers at Nelson with 400 MVA transformers

Supporting Statement: The loss of one of the Nelson 230 / 115 kV transformers causes the other to become overloaded.

In Year: 2018

Project Name: **PONCE DE LEON – SNELLVILLE 115 KV TRANSMISSION LINE**

Description: Loop the Ponce de Leon – Snellville 115 kV transmission line through the Walton EMC #6 Substation.

Supporting Statement: The loss of the Ponce de Leon – Snellville 115 kV transmission line, which serves bank #1 at Walton EMC #6 Substation, causes the underground transmission line from Snellville that serves transformer #2 at Walton EMC #6 substation to become overloaded.

EAST PROJECTS

In Year: 2018

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 230 / 115 kV, 300 MV A 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. Re–rate the Hopewell 230 / 115 kV Transformer.

Supporting Statement: The loss of the Hopewell – Brandywine segment of the Hopewell – Suwanee 115 kV transmission line overloads the Suwanee – Old Atlanta Road segment of the line. The loss of the Suwanee – Old Atlanta Road section of the Hopewell – Suwanee 115 kV transmission line overloads the Hopewell – Brandywine section of the line.

In Year: 2018

Project Name: **SOUTH HALL SUBSTATION**

Description: Install a second 500 / 230 kV, 2016 MVA transformer at South Hall.

Supporting Statement: The loss of the existing South Hall 500 / 230 kV transformer causes the Cumming – McGrau Ford 230 kV transmission line, the Lawrenceville – Norcross 230 kV transmission line, and the Dawson Crossing 230 / 115 kV transformer to become overloaded.

In Year: 2018

Project Name: **SOUTH MACON SUBSTATION**

Description: Upgrade the lowside equipment associated with Banks D and F at South Macon substation. This will provide sufficient thermal capacity to rerate both transformers to 334 MVA and 330 MVA respectively. Replace the low side switches with 3000 A switches, upgrade the main buses to bundled (2) 1590 AAC, bundle the low side jumpers with (2) 1590 AAC, and replace the 4/0 copper transfer bus to 1590 AAC.

Supporting Statement: The loss of one 230 / 115 kV transformer at South Macon causes the other transformer to become overloaded.

EAST PROJECTS

In Year: 2018

Project Name: **SOUTH METRO ATLANTA PROJECT PHASE 3**

Description: Rebuild the existing O'hara – Bonanza – Hampton 115 kV Tranmission Line sections (approximately 12 miles), with double circuit, 1351 ACSR conductor at 230 kV specs to create a new 230 kV circuit from O'Hara to McDonough. Add a 230 / 115 kV, 400 MVA transformer at McDonough. Construct approximately 6.5 miles of 115 kV transmission line from Peeksville to Ingram and add three breakers at the Locust Grove substation to terminate lines from McDonough, South Griffin and Ola.

Supporting Statement: The loss of the Klondike end of the Klondike – Ola 230 kV transmission line will overload the Ola – Porterdale 115 kV transmission line. Also, the loss of the Jonesboro – Stockbridge 230 kV transmission line or the Stockbridge transformer, will overload the Jonesboro – Stockbridge 115 kV transmission line. Conversely, the loss of the Jonesboro end of the Jonesboro – Stockbridge 115 kV transmission line will overload the Stockbridge transformer. In addition, the loss of the South Griffin end of the McDonough – South Griffin 115 kV transmission line will overload the opposite end from McDonough to Locust Grove.

In Year: 2018

Project Name: **THALMANN – WEST BRUNSWICK 230 KV BLACK TRANSMISSION LINE**

Description: Reconductor approximately 8.1 miles along the Thalmann – West Brunswick (Black) 230 kV transmission line with 1351 ACSR at 150°C.

Supporting Statement: The loss of the Thalmann LS1 – Thalmann 230 kV transmission line, with Hatch Unit #1 offline, causes the West Brunswick – Thalmann (Black) 230 kV transmission line to become overloaded.

In Year: 2018

Project Name: **WAVERLY 115 KV CAPACITOR BANK**

Description: Install a 25 MVAR, 115 kV capacitor bank at Waverly Primary.

Supporting Statement: The loss of the Thalmann Junction – Cypress Point section of the Kingsland – West Brunswick 115 kV transmission line, cause a need for additional voltage support.

In Year: 2018

Project Name: **ZUTA SUBSTATION**

Description: Replace 350 AAC jumpers at Zuta Substation on the Ludowici and West Brunswick line terminations.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line overloads jumpers at Zuta on the Ludowici – West Brunswick 115 kV transmission line.

EAST PROJECTS

In Year: 2019

Project Name: **COLEMAN 115 / 46 KV SUBSTATION**

Description: Install a 60 MVA, 115 / 46 kV transformer in the Coleman 115 / 13.8 kV Substation. Loop the Pooler – Georgia Pacific 46 kV transmission line section into the Coleman substation.

Supporting Statement: The loss of the Grange Road – Georgia Port 46 kV transmission line causes the Millhaven – Rossignol Hill 46 kV transmission line to become overloaded.

In Year: 2019

Project Name: **DACULA 115 KV CAPACITOR BANK**

Description: Install a 115 kV, 30 MVAR capacitor bank at the Dacula substation

Supporting Statement: The loss of the Winder end of the Lawrenceville – Winder 115 kV transmission line cause a need for additional voltage support.

In Year: 2019

Project Name: **HIGHWAY 54 230 / 115 KV SUBSTATION**

Description: Install a 230 / 115 kV Transformer at the Highway 54 Substation. Also, at Highway 54, install 115 kV breakers and terminate two new 115 kV transmission lines from Tyrone and Bernhard Road, approximately 4.0 and 4.5 miles respectively. Install approximately 1.5 miles of 115 kV transmission line to loop the Line Creek – South Coweta 115 kV transmission line into Tyrone substation and re–terminate the Ebenezer tap, (off the O'Hara – South Coweta 115 kV transmission line), into a newly established breaker position at the Bernhard Road substation. Install three 115 kV circuit breakers at Tyrone and three at Bernhard Road.

Supporting Statement: The loss of one end of the O'Hara – South Coweta 115 kV transmission line will overload the other end. Also, the loss of one end of the Line Creek – South Coweta 115 kV transmission line will overload the other end.

In Year: 2019

Project Name: **KETTLE CREEK – OFFERMAN (WHITE) 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 9.4 miles of existing 336 ACSR with 795 ACSR at 100°C along the Offerman – Blackshear Junction section of the Kettle Creek – Offerman (White) 115 kV transmission line.

Supporting Statement: The loss of the Douglas – Wilsonville 230 kV transmission line causes the section from Offerman to Blackshear Junction along the Kettle Creek Primary – Offerman White 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2019

Project Name: **KINGSLAND – WEST BRUNSWICK 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 5.4 miles along the Thalmann SS Junction – Cypress PT section of the Kingsland – West Brunswick 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Colerain – Thalmann 230 kV transmission line causes the Thalmann SS Junction – Cypress PT 115 kV section of the Kingsland – West Brunswick 115 kV transmission line to become overloaded.

In Year: 2019

Project Name: **MORROW SUBSTATION**

Description: Replace the 1200 A switches at Morrow on the Klondike – Morrow 230 kV transmission line with 2000 A switches.

Supporting Statement: The loss of the Klondike 500 / 230 kV transformer causes terminal equipment at Morrow on the Klondike 230 kV transmission line to become overloaded.

In Year: 2020

Project Name: **COLERAIN 230 KV CAPACITOR BANK**

Description: Install a 120 MVAR, 230 kV filtered capacitor bank at Colerain.

Supporting Statement: The loss of the Thalmann – Duval 500 kV transmission line, causes a need for additional voltage support.

In Year: 2020

Project Name: **EAST SOCIAL CIRCLE – COVINGTON #3 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.6 miles of existing 636 ASCR with 1351 ACSR at 100°C between the Social Circle and East Social Circle section of the Covington #3 – East Social Circle 115 kV transmission line. Replace jumpers at Social Circle.

Supporting Statement: The loss of the Branch – Eatonton C 230 kV transmission line causes the East Social Circle – Social Circle line segment of the Covington #3 – East Social Circle 115 kV transmission line to become overloaded.

In Year: 2020

Project Name: **GOAT ROCK SUBSTATION**

Description: Replace the existing 230 / 115 kV transformer at Goat Rock with a new 400 MVA transformer.

Supporting Statement: The loss of the 230 / 115 kV transformer #2 at First Avenue causes the 230 / 115 kV transformer at Goat Rock to become overloaded.

EAST PROJECTS

In Year: 2020

Project Name: **MARS HILL CAP BANK**

Description: Install a 40 MVAR, 115 kV capacitor bank at Mars Hill substation.

Supporting Statement: The loss of the East Watkinsville – Watkinsville section of the Bethabara – East Watkinsville 115 kV transmission line, causes a need for additional voltage support.

In Year: 2020

Project Name: **SOUTH ACWORTH – WOODSTOCK 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.1 miles of 762 ACSR/TW 115 kV transmission line along the South Acworth – West Oak section of the South Acworth – Woodstock 115 kV transmission line with a conductor capable of carrying 1500 A.

Supporting Statement: The loss of the Woodstock 230 / 115 kV transformer causes the South Acworth – West Oak section of the South Acworth – Woodstock 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **2021 BASE REACTIVE SUPPORT**

Description: Install a 60 MVAR capacitor bank at Arcovy Road.

Supporting Statement: Area Voltage Support.

In Year: 2021

Project Name: **AMERICUS – NORTH AMERICUS (BLACK) 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.2 miles of existing 477 ACSR with 795 ACSR at 100°C along the Americus – North Americus (Black) 115 kV transmission line.

Supporting Statement: The loss of the Americus to North Americus (White) 115 kV transmission line, with Mitchell Unit #3 offline, causes the Americus – North Americus (Black) 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **ATHENA – UNION POINT PRIMARY 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 28.3 miles from Union Point to Cherokee Road along the Athena – Union Point Primary 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Union Point – Greensboro 115 kV transmission line, with Bowen Unit #4 offline, causes the Athena – Union Point Primary 115 kV transmission to become overloaded.

EAST PROJECTS

In Year: 2021

Project Name: **BRANCH – EATONTON PRIMARY #3 230 KV TRANSMISSION LINE**

Description: Replace the 1590 AAC jumpers at Branch and Eatonton Primary #3 with 2-750 AAC jumpers.

Supporting Statement: The loss of the Scherer – Rockville 500 kV transmission line causes terminal equipment at Branch and Eatonton along the Branch – Eatonton Primary #3 230 kV transmission line to become overloaded.

In Year: 2021

Project Name: **BRUNSWICK – EAST BEACH 115 KV TRANSMISSION LINE**

Description: Reconductor 1.73 miles of existing 559 ACAR along the Brunswick – East Beach 115 kV transmission line with 795 ACSR at 100°C operation .

Supporting Statement: The loss of the Brunswick – Saint Simons 115 kV transmission line causes the Brunswick – East Beach 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **DANIEL SIDING – RICEBORO 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 8.5 miles of existing 115 kV transmission line along the Daniel Siding – Sterling Creek – Burnt Church sections of the Daniel Siding – Riceboro 115 kV transmission line with 795 ACSR.

Supporting Statement: The loss of the Dorchester 230 / 115 kV transformer or the Dorchester – Little Ogeechee 230 kV transmission line causes the Daniel Siding – Sterling Creek Tap – Burnt Church sections of the Daniel Siding – Riceboro 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **DANIEL SIDING 115 KV CAPACITOR BANK**

Description: Install a 40 MVAR, 115 kV capacitor bank at Daniel Siding.

Supporting Statement: The loss of the Little Ogeechee – Richmond Hill tap section of the Daniel Siding – Little Ogeechee 115 kV transmission line causes the need for additional voltage support.

In Year: 2021

Project Name: **DOUGLASVILLE – FACTORY SHOALS 115 KV TRANSMISSION LINE**

Description: Replace the 750 AAC jumpers at the Douglasville Substation on the Douglasville – Factory Shoals 115 kV transmission line with 1590 AAC jumpers.

Supporting Statement: The loss of the Buzzard Roost – Thornton Road 230 kV transmission line causes the terminal equipment at Douglasville along the Douglasville – Factory Shoals 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2021

Project Name: **DOUGLASVILLE – WEST MARIETTA 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 2.3 miles of existing 477 ACSR with 795 ACSR at 100°C from Douglasville – Lithia Springs on the Douglasville – West Marietta 115 kV transmission line.

Supporting Statement: The loss of the Villa Rica – Cedar Mountain section of the Villa Rica – West Marietta 230 kV transmission line causes the Douglasville – Lithia Springs section of the Douglasville – West Marietta 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **EATONTON – LAKE OCONEE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 9.75 miles along the Eatonton – Lower Harmony Junction section of the Eatonton – Lake Oconee 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Greensboro – Gum Hill Junction causes the Eatonton – Lake Oconee 115 kV transmission line to become overloaded in load restoration conditions.

In Year: 2021

Project Name: **FIRST AVENUE – NORTH COLUMBUS 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 0.9 miles along the First Avenue – North Columbus 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Goatrock 230 / 115 kV transformer causes the North Columbus – First Avenue 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **GOSHEN SUBSTATION**

Description: Replace the 1200 A line trap at Goshen on the Dum Jon 230 kV transmission line with a 2000 A line trap.

Supporting Statement: The loss of the Thomson 500 / 230 kV transformer causes terminal equipment at Goshen on the Dum Jon 230 kV transmission line to become overloaded.

In Year: 2021

Project Name: **GRADY 115 KV REACTOR**

Description: Replace the existing 2%, 1200 A 115 kV reactor with a 2%, 1600 A reactor at Grady on the Grady – Moreland Avenue 115 kV transmission line.

Supporting Statement: The loss of the Scottdale 230 / 115 kV transformer causes the Grady 1200 A reactor to become overloaded.

EAST PROJECTS

In Year: 2021

Project Name: **HATCH – OFFERMAN 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 17.4 miles along the Hatch – Union School section of the Hatch – Offerman 230 kV transmission line with 1033 ACSS at 170°C.

Supporting Statement: The loss of the Thalmann 500 / 230 kV transformer causes the Hatch – Union School section of the Hatch – Offerman 230 kV transmission line to become overloaded.

In Year: 2021

Project Name: **HOLLY SPRING – HOPEWELL AREA PROJECT**

Description: Construct a new 230 kV transmission line from Arnold Mill – Hopewell with 1033 ACSR. This involves 12.5 miles of new 230 kV transmission line along the Arnold Mill – Batesville Road and Batesville Road Junction – Hopewell sections, as well as converting 2.2 miles of existing 115 kV transmission line from Batesville Road – Batesville Junction to 230 kV. Convert the Batesville Road and Birmingham load-serving substations from 115 kV to 230 kV.

Supporting Statement: Provides voltage support to the Metro North Atlanta area and alleviates loading on the Holly Springs – Hopewell 115 kV transmission line.

In Year: 2021

Project Name: **MARIETTA ROSWELL ROAD SUBSTATION**

Description: Replace the 636 ACSR jumpers at Marietta Roswell Road on the North Marietta 115 kV transmission line with 1590 AAC jumpers.

Supporting Statement: The loss of the Parkaire end of the Parkaire – Roswell 115 kV transmission line causes terminal equipment at the Marietta Roswell Road substation to become overloaded.

In Year: 2021

Project Name: **MCCONNELL ROAD – SOUTH ACWORTH 115 KV TRANSMISSION LINE**

Description: Rebuild the McConnell Road – Due West 115 kV transmission line section (4.7 miles of 636 ACSR) using 1351 ACSR. Rebuild the Proctor Creek – STR8 segment (0.56 miles of 762 ACSR) with 1033 ACSR. Upgrade 750 AAC jumpers at Due West to 1590 AAC and replace a 1200 A switch with 2000 A switch. At Proctor Creek, replace a 1200 A switch with a 2000 A switch. Upgrade the 750 AAC jumpers at Cobb Mar. Water to 1590 AAC.

Supporting Statement: The loss of the South Acworth – Proctor Creek segment of the McConnell – South Acworth 115 kV transmission line causes the McConnell – Due West segment to become overloaded. Also, the loss of the McConnell – Due West segment causes the South Acworth – Proctor Creek segment to become overloaded.

EAST PROJECTS

In Year: 2021

Project Name: **MORELAND AVENUE 115 KV CAPACITOR BANK**

Description: Install a new 115 kV, 60 MVAR capacitor bank at Moreland Avenue.

Supporting Statement: Area voltage support.

In Year: 2021

Project Name: **MORROW – MOUNTAIN VIEW 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.0 miles of existing 397 ACSR 115 kV transmission line along the Mountain View – Barnett Road section of the Morrow – Mountain View 115 kV transmission line with 1033 ACSR.

Supporting Statement: The loss of the East Point end of the East Point – Mountain View 115 kV transmission line causes the Morrow – Mountain View 115 kV transmission line to overload between Mountain View and Barnett Road.

In Year: 2021

Project Name: **OHARA – RIVERDALE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.6 miles of 636 ACSR with 1033 ACSR from O'Hara to Corinth Road along the Riverdale - O'Hara 115 kV transmission line.

Supporting Statement: The loss of the Line Creek transformer, or 230 kV radial line, causes the O'Hara to King Street section of the Riverdale - O'Hara 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **PALMYRA – SLAPPY DRIVE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.5 miles of existing 477 ACSR 115 kV transmission line along the Slappy Drive – Albany #2 Junction with 795 ACSR conductor at 100°C.

Supporting Statement: The loss of the Albany – Palmyra 115 kV transmission line causes the Slappy Drive – Albany #2 Junction section of 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **PINE GROVE PRIMARY – WEST VALDOSTA 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.7 miles of 4/0 ACSR at 100°C with 795 ACSR at 100°C on the Bemiss – Pine Grove Primary section of the Pine Grove Primary – West Valdosta 115 kV transmission line.

Supporting Statement: The loss of the West Valdosta 230 / 115 kV transformer causes the Pine Grove – Bemiss 115 kV transmission line section to become overloaded.

EAST PROJECTS

In Year: 2021

Project Name: **PORTERDALE SUBSTATION**

Description: Replace the 1200 A line trap and switches at Porterdale on the Eatonton Primary #3 230 kV transmission line.

Supporting Statement: The loss of the Scherer – Rockville 500 kV transmission line causes terminal equipment at Porterdale on the Eatonton Primary #3 230 kV transmission line to become overloaded.

In Year: 2021

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

Description: Replace the 1590 AAC jumpers on the low side of the Scottdale 230 / 115 kV transformer with 2500 AAC jumpers.

Supporting Statement: Jumper replacement necessary to allow for increasing the rating of the Scottdale 230 / 115 kV transformer rating to 364 MVA.

In Year: 2021

Project Name: **SUMMER GROVE 115 KV CAPACITOR BANK**

Description: Install a 45 MVAR, 115 kV filtered capacitor bank at Summer Grove.

Supporting Statement: The loss of the South Coweta end of the South Coweta – Yates 115 kV transmission line causes a need for additional voltage support.

In Year: 2021

Project Name: **THOMSON – WARRENTON 115 KV WHITE TRANSMISSION LINE**

Description: Reconductor approximately 16.8 miles along the Thomson – Warrenton 115 kV transmission line with 1033 ACSR at 100°C.

Supporting Statement: The loss of the Thomson – Warrenton 230 kV transmission line causes the Thomson – Warrenton 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **THOMSON SUBSTATION**

Description: Install a second 300 MVA, 230 / 115 kV transformer at Thomson.

Supporting Statement: The loss of the existing Thomson 230 / 115 kV transformer causes the Evans Primary – Thomson Primary 115 kV transmission line to become overloaded. Also, the loss of the Warrenton – Thomson 230 kV transmission line causes the Thomson 230 / 115 kV transformer to become overloaded.

EAST PROJECTS

In Year: 2021

Project Name: **UNION POINT – WARRENTON 115 KV TRANSMISSION LINE**

Description: Replace the 1200 A breaker at Union Point Primary on the Warrenton Primary 115 kV transmission line with a breaker rated at least 1600 A.

Supporting Statement: The loss of the Scherer – Warthen 500 kV transmission line causes the Union Point – Washington Junction segment of the Union Point – Warrenton Primary 115 kV transmission line to become overloaded.

In Year: 2022

Project Name: **DORCHESTER – WEST BRUNSWICK 230 KV TRANSMISSION LINE**

Description: Construct approximately 45 miles of new 230 kV transmission line from Dorchester – West Brunswick. Install a second 400 MVA, 230 / 115 kV transformer at Dorchester. Construct the Dorchester - Walthoursville 115 kV transmission line section. Reconductor the Dorchester – Little Ogeechee 230 kV transmission line with bundled (2) 1351 ACSR.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line causes the Claxton – Meldrim and Dorchester – Hinesville 115 kV transmission lines, as well as the Dorchester 230 / 115 kV transformer to become overloaded.

In Year: 2022

Project Name: **DORCHESTER SUBSTATION**

Description: Upgrade the 115 kV bus and 230 / 115 kV transformer low side equipment at Dorchester substation to equipment rated at least 2500 A.

Supporting Statement: The loss of the Little Ogeechee – Richmond Hill 115 kV transmission line causes the 115 kV bus work at Dorchester to become overloaded.

Section 2.

10 YEAR EXPANSION PLAN

WEST

WEST PROJECTS

In Year:	2013
Project Name:	**KELLERMAN DS CAPACITOR BANK**
Description:	Install a 15 MVAR Cap Bank at Kellerman DS.
Supporting Statement:	The loss of the Holt – Kellerman 115 kV transmission line, with Gorgas Unit #9 offline, causes a need for additional voltage support.

In Year:	2013
Project Name:	**PLANT GREENE COUNTY SUBSTATION**
Description:	Install a 400MVA 230 / 115 kV Transformer #2 at Greene County Plant Substation.
Supporting Statement:	The loss of the existing 230 / 115 kV Transformer at Greene County SP causes the South Tuscaloosa – Eutaw 115 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**PINCKARD – SLOCOMB 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 12.5 miles of 115 kV transmission line from Pinckard TS to Slocomb TS with 1033 ACSS at 160 ºC, constructed at 230 kV specifications. Upgrade the Holmes Creek Terminals at Pinckard TS to 2000 A.
Supporting Statement:	The loss of the Farley – Sinai Cemetery 230 kV transmission line, with Lansing Smith Unit #3 offline, causes the Pinckard TS – Slocomb TS 115 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**SOUTH MONTGOMERY – UNION SPRINGS 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 5.95 miles with 795 26/7 ACSR at 100 ºC along the South Montgomery to ECI Halstead section of the South Montgomery – Pinedale 115 kV transmission line.
Supporting Statement:	The loss of the Snowdoun – Farley 500 kV transmission line, with Farley Unit #1 offline, causes the South Montgomery – Pinedale 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2013
Project Name:	**WEST MONTGOMERY 115 KV TRANSMISSION LINES**
Description:	Reconfigure the Well Road, Woodcrest, and Lamar Road Substations to be fed from the West Montgomery – GE Burkville 115 kV transmission line instead of the West Montgomery – Greenville 115 kV transmission line. Install a 15 MVAR capacitor bank at Hope Hull Substation.
Supporting Statement:	The loss of the Greenville 230 / 115 kV transformer, with Barry Unit #5 offline, causes sections of the West Montgomery – Greenville 115 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**WESTGATE – RUCKER BOULEVARD TAP 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 2.4 miles along the Westgate to Rucker Boulevard Tap 115 kV transmission line to 100°C operation.
Supporting Statement:	The loss of the Pinckard end of the Pinckard – Enterprise South 115 kV transmission line, with Lansing Smith Unit #3 offline, causes the Westgate – Rucker Boulevard Tap 115 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**FULTON SWITCHING STATION**
Description:	Construct a new, four terminal switching station near Fulton, AL that ties the McIntosh - Thomasville 115 kV transmission line and Jackson – Millers Ferry 115 kV transmission line.
Supporting Statement:	The loss of the Octagon SS – Dixon Mills 115 kV transmission line or the Boise – Lowman 115 kV transmission line, with Barry Unit #5 offline, results in a need for additional voltage support.

WEST PROJECTS

In Year:	2013
Project Name:	**JACKSON AREA IMPROVEMENTS**
Description:	Construct approximately 1.52 miles of new double (2) circuit 115 kV transmission line, creating the McIntosh – Jackson 115 kV transmission line and the Lowman S.P. – Millers Ferry 115 kV transmission line.
Supporting Statement:	The loss of the Lowman – Boise Cascade section of the Lowman – Jackson 115 kV transmission line, with Washington County Unit #1 offline, causes a low voltage condition at Jackson TS, with the load being served radial out of Selma TS.

In Year:	2013
Project Name:	**MONTGOMERY SS – SOUTH MONTGOMERY 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 7.71 miles along the Montgomery – South Montgomery 230 kV transmission line with bundled (2) 795 ACSS at 200 ºC.
Supporting Statement:	The loss of the Snowdoun – Autaugaville 500 kV transmission line, with Farley Unit #2 offline, causes the Montgomery – South Montgomery 230 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**WEBB CAPACITOR BANK**
Description:	Install a 120 MVAR Capacitor Bank at Webb Substation.
Supporting Statement:	Area voltage support.

In Year:	2013
Project Name:	**HIGHLAND CITY – CALLAWAY 230 KV TRANSMISSION LINE**
Description:	Convert the Highland City – Callaway 115 kV transmission line to 230 kV operation and install a 400 MVA, 230 / 115 kV transformer at Highland City.
Supporting Statement:	The loss of the Smith 230 / 115 kV Transformer, with Smith Unit #1 offline, causes the Laguna Beach – Lullwater Tap 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2013
Project Name:	**LAGUNA BEACH 230 / 115 KV SUBSTATION**
Description:	Install a second 230 / 115 kV 400 MVA transformer at Laguna Beach.
Supporting Statement:	The loss of the Smith 230 / 115 kV transformer, with Smith Unit #1 offline, causes the Laguna Beach 230 / 115 kV transformer to become overloaded.

In Year:	2013
Project Name:	**SCENIC HILLS 115 KV SWITCHING STATION**
Description:	Construct a new switching station at Scenic Hills. Loop in the Crist – Goulding and Crist – Brentwood 115 kV transmission lines.
Supporting Statement:	The loss of the Crist – Scenic Hills #1 115 kV transmission line, with Crist Unit #7 offline, causes the Goulding – Oakfield 115 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**SMITH – LAGUNA BEACH 230 KV TRANSMISSION LINE**
Description:	Convert the Smith – Laguna Beach 115 kV transmission line to 230 kV operation.
Supporting Statement:	The loss of one of the Laguna Beach 230 / 115 kV Transformers, with Crist Unit #7 offline, causes the Smith – Laguna Beach 115 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**MERIDIAN NE 230 / 115 KV SUBSTATION**
Description:	Replace both Meridian NE 230 / 115 kV transformers with 400 MVA transformers.
Supporting Statement:	The loss of one 230 / 115 kV transformer at Meridian NE causes the other transformer to become overloaded.

WEST PROJECTS

In Year:	2014
Project Name:	**ANNISTON AREA TRANSMISSION IMPROVEMENT**
Description:	Reconductor 1.5 miles of 2/0 Cu in the existing Anniston – Oxanna 115 kV transmission line with 795 ACSR. Reconnect 0.67 miles of 397 ACSR tap to Oxanna TS to the Anniston – Bynum 115 kV transmission line (1351 ACSS) with a 3–way 115 kV switch at the tap point. Add a second 795 ACSR circuit to existing double circuit structures on the West End – Greenbrier pole line and reconductor to the Cheaha tap with 795 ACSR to complete the new Anniston – Crooked Creek 115 kV transmission line.
Supporting Statement:	The loss of the West End DS – Oxanna Tap 115 kV line section causes the southern end of the Anniston – Crooked Creek 115 kV transmission line to become overloaded. This contingency also results in a need for additional voltage support.

In Year:	2014
Project Name:	**EPES – EUTAW 115 KV TRANSMISSION LINE**
Description:	Construct approximately 22.5 miles of 115 kV transmission line from Epes to Eutaw with 1033 54/7 ACSS at 160 ºC.
Supporting Statement:	The loss of Duncanville – Bradley Road 230 kV transmission line, with Gorgas Unit #10 offline, causes the Green County – Eutaw 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**NORTH SELMA – INTERNATIONAL PAPER TAP 115 KV TRANSMISSION LINE**
Description:	Construct approximately 6.9 miles of new, double circuit 115 kV transmission line from North Selma TS – International Paper Tap with 795 ACSR at 100 ºC. Replace low–side equipment on North Selma 230 / 115 kV #1 transformer.
Supporting Statement:	The loss of Selma – West Selma, RF Henry – IP Load Tap, or Jordan Dam – Holtville 115 kV transmission lines causes the West Selma – South Selma 115 kV transmission line and the South Selma – Alamet Tap 115 kV transmission line to become overloaded and results in the need for additional voltage support.

WEST PROJECTS

In Year:	2014
Project Name:	**PINCKARD – FORT RUCKER NORTH 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.32 miles of 115 kV transmission line from Pinckard to Fort Rucker North with 795 26/7 ACSR at 100° C.
Supporting Statement:	The loss of the Pinckard end of the Pinckard – Enterprise South 115 kV transmission line, with Lansing Smith Unit #3 offline, causes the Pinckard – Fort Rucker North 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**SLOCOMB – HOLMES CREEK 115 KV TRANSMISSION LINE**
Description:	Reconductor the 10.4 mile Slocomb TS – Holmes Creek 115 kV transmission line with 1033 ACSS 160 ºC, constructed at 230 kV specifications. Upgrade the Pinckard terminal at Holmes Creek to 2000 A.
Supporting Statement:	The loss of the Farley – Sinai Cemetery 230 kV transmission line, with Smith Unit #3 offline, causes the Pinckard TS – Slocomb TS 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**BIG CREEK – LYNNDELL AREA 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Construct approximately 7.78 miles of 795 26/7 ACSS 115 kV transmission line from Big Creek Substation to a point east of Lynndell D.S.
Supporting Statement:	Network reliability improvement.

In Year:	2014
Project Name:	**CHICKASAW – SOUTH MOBILE – NORTH MOBILE 115 KV (MOBILE AREA 115 KV NETWORKING)**
Description:	Reconductor 13.52 miles of existing 397 ACSR 115 kV transmission line with 397 ACSS from North Crichton to South Mobile along the Chickasaw – South Mobile and North Mobile – South Mobile 115 kV transmission lines.
Supporting Statement:	Network reliability improvement.

WEST PROJECTS

In Year:	2014
Project Name:	**BYNUM – ANNISTON 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 12.0 miles along the Bynum – Anniston 115 kV transmission line to 200 ºC operation.
Supporting Statement:	The loss of the Bynum – Anniston 230 kV transmission line, with Bowen Unit #4 offline, causes the Bynum – Anniston 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**COUNTY LINE ROAD SUBSTATION**
Description:	Install a 2nd 230 / 115 kV transformer at County Line Road Substation.
Supporting Statement:	The loss of the County Line Road 230 / 115 kV Transformer #1, with Lowndes County generation offline, causes the West Montgomery 230 / 115 kV transformer to become overloaded.

In Year:	2014
Project Name:	**SNOWDOUN – PIKE COUNTY 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 32.42 miles with 3M 1033 ACCR along the Snowdoun – Pike County 230 kV transmission line.
Supporting Statement:	The loss of the Snowdoun – Farley 500 kV transmission line, with Farley Unit #1 offline, causes the Snowdoun – Pike County 230 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**HATTIESBURG SW – HATTIESBURG 28TH AVENUE – WEST HATTIESBURG 115 KV TRANSMISSION LINE**
Description:	Reconductor 3.24 miles of 266 ACSR 115 kV transmission line with 1033 ACSR along the Hattiesburg SW – Hattiesburg 28th Avenue Tap – West Hattiesburg line segments.
Supporting Statement:	The loss of the Hattiesburg SW – West 7th Street 115 kV transmission line causes the parallel circuit to become overloaded.

WEST PROJECTS

In Year:	2014
Project Name:	**HATTIESBURG SW – HIGHWAY 11 115 KV TRANSMISSION LINE**
Description:	Replace the 600 A switch in Hattiesburg SW substation and reconductor the 1.7 mile line segment from Hattiesburg SW to Highway 11 with 795 ACSR at 100° C.
Supporting Statement:	The loss of the Hattiesburg North – Hattiesburg SW #1 115 kV transmission line between Hattiesburg SW and 28th Ave Tap causes the Hattiesburg SW – Highway 11 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**KEMPER COUNTY GENERATION**
Description:	IGCC plant addition in Kemper County, Mississippi and construct all transmission facilities required for firm service from the plant.
Supporting Statement:	Necessary to serve new base load generation.

In Year:	2014
Project Name:	**KILN CAPACITOR BANK**
Description:	Install a 120 MVAR 230 kV Capacitor Bank at Kiln Substation.
Supporting Statement:	Watson Unit #5 results in a need for additional voltage support.

In Year:	2014
Project Name:	**QUITMAN NW – WAYNESBORO 115 KV TRANSMISSION LINE**
Description:	Convert the primary 46 kV transmission line from Quitman to Desoto to 115 kV operation and construct approximately 20 miles of new 115 kV transmission line between Desoto and Waynesboro with 795 ACSR.
Supporting Statement:	The loss of the Laurel East to Hattiesburg SW 230 kV transmission line with, Watson Unit #5 offline, causes the Lost Gap – Newton 115 kV transmission line and Laurel East – Waynesboro 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2014
Project Name:	**MERIDIAN PRIMARY CAPACITOR BANK**
Description:	Install a 15 MVAR Capacitor Bank in the Meridian Primary substation (additional to the existing 30 MVAR capacitor at Meridian Primary).
Supporting Statement:	The loss of the Lauderdale East – Greene County 230 kV transmission line results in a need for additional voltage support.

In Year:	2014
Project Name:	**NW D'IBERVILLE CAPACITOR BANK**
Description:	Install a 120 MVAR 230 kV Capacitor Bank at D'Iberville Substation.
Supporting Statement:	Watson Unit #5 offline results in a need for additional voltage support.

In Year:	2014
Project Name:	**OCEAN SPRINGS SUBSTATION**
Description:	Install a second 230 / 115 kV transformer at Ocean Springs substation.
Supporting Statement:	The loss of the Ocean Springs 230 / 115 kV transformer #1, with Watson Unit #5 offline, overloads Ocean Springs – Pascagoula Telephone Road 115 kV transmission line.

In Year:	2015
Project Name:	**GASTON – EAST PELHAM 230 KV TRANSMISSION LINE**
Description:	Upgrade 11.97 miles of 1033 45/7 ACSR along the Gaston – East Pelham 230 kV transmission line from 75 ºC to 100 ºC operation.
Supporting Statement:	The loss of the Gaston – North Helena 230 kV transmission line or South Bessemer 500 / 230 kV transformer, with Gorgas Unit #10 offline, causes the Gaston – East Pelham 230 kV line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**LEEDS – WESTBURY 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 8.0 miles of bundled (2) 397 ACSR along the Leeds – Westbury 115 kV transmission line from 50 ºC to 100 ºC operation.
Supporting Statement:	The loss of the Leeds – South Jefferson 230 kV transmission line, with Gorgas Unit #10 offline, causes the Leeds – Westbury 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**ALEXANDRIA CROSSROADS – JACKSONVILLE TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.0 miles of the Alexandria Crossroads – Jacksonville Tap 115 kV transmission line with 795 26/7 ACSR at 100 ºC.
Supporting Statement:	The loss of the Clay – Oneonta 230 kV transmission line, with Gadsden offline, causes the Alexandria Crossroads – Jacksonville Tap 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**HENRY DAM – GULF STATES STEEL 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 12.1 miles of 397 ACSR, 115 kV transmission line from Henry Dam to Rainbow City to 125 ºC operation.
Supporting Statement:	The loss of the Clay – Oneonta 230 kV transmission line, with Gadsden Unit #2 offline, causes the Henry Dam – Rainbow City 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**31ST AVENUE – KAUL TAP – SOUTH TUSCALOOSA 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 5.9 miles along the 31st Avenue – Kaul Tap – South Tuscaloosa 115 kV transmission line with 1033 54/7 ACSS at 160 ºC .
Supporting Statement:	The loss of Hargrove – South Tuscaloosa 115 kV transmission line causes the 31st Avenue – Kaul Tap – South Tuscaloosa 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**TUSCALOOSA AREA IMPROVEMENT**
Description:	Convert Moundville (to be called North Moundville) and Akron 44 kV substations to 115 kV substations. Construct approximately 5.2 miles of new 1033 ACSS, 115 kV transmission line at 200 ºC from North Moundville to Big Sandy / Englewood Tap. Install a 230 / 115 kV Transformer at a new Moundville TS and construct a new 115 kV transmission line from North Moundville to Moundville.
Supporting Statement:	The loss of the Duncanville – Bradley Road 230 kV transmission line overloads the section of 115 kV transmission line from Eutaw to Big Sandy Tap. The loss of the Duncanville – Bradley Road 230 kV transmission line also causes the need for additional voltage support.

In Year:	2015
Project Name:	**GKN WESTLAND – HALLA CLIMATE TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.1 miles of 115 kV transmission line from GKN Westland – Halla Climate Tap with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Snowdoun – Pike County 230 kV transmission line, with Farley Unit #1 offline, causes the GKN Westland – Halla Climate Tap 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**GREENVILLE – GEORGIANA 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 12.63 miles along the Greenville – Georgiana 115 kV transmission line with 795 26/7 ACSR at 100 ºC
Supporting Statement:	The loss of the North Brewton 230 / 115 kV transformer, with Crist offline, causes the Greenville – Georgiana 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**LAMAR ROAD – HOPE HULL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 1.3 miles along the Lamar Road – Hope Hull 115 kV transmission line with 795 26/7 ACSR at 100 ºC.
Supporting Statement:	The loss of the Greenville – Snowdoun 230 kV transmission line, with Crist offline, causes the Lamar Road – Hope Hull 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**MONTGOMERY SS – COUNTY LINE ROAD 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 7.9 miles along the Montgomery SS – County Line Road 230 kV transmission line with 1033–T13 3M ACCR at 210 ºC.
Supporting Statement:	The loss of the Autaugaville – Snowdoun 500 kV transmission line, with Farley Unit #2 offline, causes the Montgomery SS – County Line Road 230 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**POWER SYSTEMS DEVELOPMENT FACILITY – COUNTY LINE ROAD 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 51.0 miles of 230 kV transmission line from Power Systems Development Facility to County Line Road to 125 ºC operation.
Supporting Statement:	The loss of the Autaugaville – Billingsly 500 kV transmission line, with Harris Unit #1 offline, causes the Power Systems Development Facility – County Line Road 230 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**DOTHAN – WEBB 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.7 miles along the Dothan –Webb 115 kV transmission line with 1351 ACSS at 160 ºC.
Supporting Statement:	The loss of Webb – Pinckard 230 kV transmission line, with Crist offline, causes the Dothan – Webb 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**ENTERPRISE AREA PROJECT**
Description:	Install a new 230 / 115 kV substation, called South Enterprise TS, that taps the Pinckard – Opp 230 kV transmission line. Construct approximately 6.0 miles 115 kV transmission line from South Enterprise TS to Enterprise TS with 795 ACSS at 160 ºC.
Supporting Statement:	The loss of the Pinckard – Enterprise #1 115 kV transmission line, with Lansing Smith Unit #3 offline, causes sections of the Pinckard – Enterprise #2 115 kV transmission line to overload and vice versa.

In Year:	2015
Project Name:	**FARLEY SUBSTATION**
Description:	Upgrade low side equipment on the Farley 500 / 230 kV Transformer #1 and #2.
Supporting Statement:	The loss of one Farley 500 / 230 kV Transformer, with Farley Unit #1 offline, causes the other transformer to become overloaded.

In Year:	2015
Project Name:	**PINCKARD – HOLMES CREEK 230 KV TRANSMISSION LINE**
Description:	Convert the Pinckard TS – Holmes Creek 115 kV transmission line to 230 kV operation. Construct a new 230 kV transmission line from Holmes Creek to Highland City.
Supporting Statement:	The loss of Farley – Sinai Cemetery 230 kV transmission line, with Smith Unit #3 offline, causes the Pinckard – Holmes Creek 115 kV transmission line to become overloaded. The loss of the Farley – Cottonwood 230 kV transmission line, with Smith Unit #3 offline, causes the Farley – South Bainbridge and Samson – Shoal River 230 kV transmission lines to become overloaded.

In Year:	2015
Project Name:	**BARRY – CHICKASAW 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 19.2 miles along the Barry S.P. – Chickasaw 230 kV transmission line with bundled (2) 959 TW/ACSS at 150 ºC.
Supporting Statement:	The loss of the Barry – Crist 230 kV transmission line, with Crist Unit #7 offline, causes the Barry – Chickasaw 230 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**DANIEL – BIG CREEK – WADE 230 KV TRANSMISSION LINES**
Description:	Construct approximately 18.9 miles of new 230 kV transmission line from Wade to Big Creek with 1351 ACSS at 200 ºC. Add a new 3000 A 230 kV terminal at Big Creek. Construct approximately 8.9 miles of new 230 kV transmission line from Daniel to Wade with 1351 ACSS at 200 ºC.
Supporting Statement:	The loss of Big Creek – Daniel 230 kV transmission line, with Crist offline, causes the Daniel – Moss Point East and Moss Point East – North Theodore 230 kV transmission lines to become overloaded.

In Year:	2015
Project Name:	**CHICKASAW – SOUTH MOBILE 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Loop the Chickasaw – South Mobile 115 kV transmission line into North Crichton Switching Station.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**GREENE COUNTY – BASSETT CREEK 230 KV TRANSMISSION LINE**
Description:	Construct approximately 58.0 miles of new 230 kV transmission line from Greene County to Bassett Creek with 1351 54/19 ACSS at 200 ºC. Convert Bassett Creek 115 kV switching station to a 230 / 115 kV substation.
Supporting Statement:	The loss of Millers Ferry – Camden Tap 115 kV transmission line, with Crist offline, causes the Octagon SS – Thomasville 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**MICHAEL BOULEVARD D.S. – MICHAEL BOULEVARD TAP 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Upgrade approximately 0.96 miles of 397 ACSR 115 kV transmission line from Michael Boulevard D.S. – Michael Boulevard Tap to 100 ºC operation.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**NORTH CRICHTON SWITCHING STATION (MOBILE AREA 115 KV NETWORKING)**
Description:	Construct a six terminal 2000 A 115 kV ring bus at the new North Crichton switching station.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**NORTH MOBILE – CRICHTON #1 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Reconductor approximately 2.81 miles along the existing North Mobile – Crichton #1 115 kV transmission line with 795 ACSS. Loop the North Mobile – Crichton #1 115 kV transmission line into the North Crichton Switching Station. Reconnect Wolf Ridge Tap to the Crichton 115 kV transmission line between North Mobile and new North Crichton Switching Station. Install a Transrupter at Wolf Ridge DS and retire the high side fuse.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**NORTH MOBILE – SOUTH MOBILE 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Loop the North Mobile – South Mobile 115 kV transmission line into the North Crichton Switching Station.
Supporting Statement:	Network reliability improvement.

WEST PROJECTS

In Year:	2015
Project Name:	**NORTH MOBILE – SPRINGHILL 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Reconductor approximately 1.83 miles with 795 26/7 ACSR at 100 ºC from Wolf Ridge Tap – Springhill D.S. along the North Mobile – Springhill 115 kV transmission line.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**RACETRACK – LOTT ROAD 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Construct 3.7 miles of 795 ACSS 115 kV transmission line at 160 ºC from Racetrack D.S. to Lott Road D.S.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**SHILLINGER ROAD – LOTT ROAD 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Construct 2.1 miles of 795 ACSS 115 kV transmission line at 160 ºC from Schillinger Road to Lott Road Tap.
Supporting Statement:	Network reliability improvement.

In Year:	2015
Project Name:	**WEST MCINTOSH – CALVERT #2 230 KV TRANSMISSION LINE**
Description:	Construct approximately 11.4 miles of new 230 kV transmission line from West McIntosh to Calvert with 1351 54/19 ACSS at 100 ºC. Add new 3000 A, 230 kV terminals at West McIntosh and Calvert.
Supporting Statement:	The loss of West McIntosh – Calvert #1 230 kV transmission line, with Crist offline, causes the Barry – McIntosh "A" 115 kV transmission line and the Barry – CAES 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**ALLIGATOR SWAMP SUBSTATION**
Description:	Install a 100 MVAR, 230 kV filtered capacitor bank at Alligator Swamp Substation.
Supporting Statement:	Crist offline results in a need for additional voltage support.

In Year:	2015
Project Name:	**ALLIGATOR SWAMP SVC**
Description:	Install a +/– 100 MVAR SVC at Alligator Swamp and Bellview.
Supporting Statement:	Crist offline results in a need for additional voltage support.

In Year:	2015
Project Name:	**BARRY – CRIST 230 KV TRANSMISSION LINE**
Description:	Upgrade the Barry – Crist 230 kV transmission line to 125°C operation.
Supporting Statement:	The loss of Barry – Chickasaw 230 kV transmission line, with Crist Unit #7 offline, causes the Barry – Crist 230 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**BELLVIEW SUBSTATION**
Description:	Install 100 MVAR, 230 kV filtered capacitor bank at Bellview Substation.
Supporting Statement:	Crist offline results in a need for additional voltage support.

WEST PROJECTS

In Year:	2015
Project Name:	**BRENTWOOD – SCENIC HILLS #2 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.8 miles along the Brentwood – Scenic Hills 115 kV transmission line with 1033 ACSS at 200°C.
Supporting Statement:	The loss of the Crist – Scenic Hills #1 115 kV transmission line, with Crist Unit #7 offline, causes the Goulding – Oakfield 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**SINAI CEMETARY / HOLMES CREEK CAPACITOR BANKS**
Description:	Install new 100 MVAR, 230 kV filtered capacitor banks at Sinai Cemetery and Holmes Creek.
Supporting Statement:	The loss of the Pinckard – Holmes Creek 230 kV transmission line, with Smith Unit #3 offline, causes a need for additional voltage support. Also, the loss of the Farley – Sinai Cemetary 230 kV transmission line, with Smith Unit #3 offline, causes a need for additional voltage support.

In Year:	2015
Project Name:	**CRIST – SHOAL RIVER 230 KV TRANSMISSION LINE**
Description:	Loop the Crist – Shoal River 230 kV transmission line into Alligator Swamp
Supporting Statement:	The loss of the existing Crist – Alligator Swamp 230 kV transmission line causes a need for additional voltage support.

In Year:	2015
Project Name:	**GENEVA TAP – GLENDALE TAP 115 KV TRANSMISSION LINE**
Description:	Upgrade the Geneva Tap – Glendale Tap 115 kV transmission line to 100℃ operation.
Supporting Statement:	Loss of the Pinckard – Samson 230 kV transmission line, with Crist offline, causes the Geneva Tap – Glendale Tap 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**HOLMES CREEK – MARIANNA 115 KV TRANSMISSION LINE**
Description:	Replace the 800 A, 115 kV breaker at Marianna on the Holmes Creek – Marianna 115 kV transmission line.
Supporting Statement:	The loss of the Farley – Cottonwood 230 kV transmission line, with Smith Unit #3 offline, causes terminal equipment at Marianna on the Holmes Creek – Marianna 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**HOLMES CREEK – PITTMAN – GENEVA TAP 115 KV TRANSMISSION LINE**
Description:	Upgrade the Holmes Creek – Pittman – Geneva Tap 115 kV transmission line to 125 ℃ operation.
Supporting Statement:	The loss of the Pinckard – Samson 230 kV transmission line, with Crist offline, causes the Holmes Creek – Pittman – Geneva Tap 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**MARIANNA – HIGHLAND CITY 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 47.8 miles of 115 kV transmission line from Marianna to Highland City with 1033 ACSR at 100 ºC.
Supporting Statement:	The loss of the Sinai – Smith 230 kV transmission line, with Lansing Smith Unit #3 offline, causes the Marianna – Alford Tap section of the Marianna – Highland City 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**SAMSON – SHOAL RIVER 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 13 miles along the Samson – Shoal River 230 kV transmission line with 1351 ACSR.
Supporting Statement:	The loss of the Pinckard – Slocomb 230 kV transmission line, with Crist offline, causes the Samson – Shoal River 230 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**SANTA ROSA – LAGUNA BEACH 230 KV TRANSMISSION LINES**
Description:	Construct a new Santa Rosa 230 kV substation with two (2) 400 MVA 230 / 115 kV transformers. Build a new 230 kV transmission line from Laguna Beach to Santa Rosa with 1351 ACSR. Replace Laguna Beach – Santa Rosa #1 115 kV transmission line with a new 1351 ACSR 230 kV transmission line.
Supporting Statement:	The loss of the Powell Lake – Laguna Beach 115 kV transmission line, with Smith Unit #3 offline, causes the Bluewater – Crystal Beach submarine cable to become overloaded. In addition, the loss of the Valparaiso – Niceville 115 kV transmission line, with Smith Unit #3 offline, causes the Freeport – Villa Tasso 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**SHOAL RIVER SUBSTATION**
Description:	Install a second 230 / 115 kV Bank at Shoal River Substation
Supporting Statement:	The loss of the Wright – Shoal River 230 kV transmission line, with Crist offline, causes the existing 230 / 115 kV transformer at Shoal River to become overloaded.

In Year:	2015
Project Name:	**SMITH SVC**
Description:	Install a +/– 100 MVAR SVC at Callaway and Highland City
Supporting Statement:	Smith Unit #3 offline results in a need for additional voltage support.

WEST PROJECTS

In Year:	2015
Project Name:	**HATTIESBURG NORTH – PETAL GEORGE ST – PLANT EATON 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 1 mile of 115 kV transmission line along the Hattiesburg North and Plant Eaton circuits, where they loop into Petal George Street, with 795 ACSR at 100°C.
Supporting Statement:	The loss of the Hattiesburg SW – Eaton #1 115 kV transmission line between Hattiesburg SW and Hwy 11 Tap causes segments of the Hattiesburg North and Plant Eaton circuits to become overloaded where they loop into Petal George Street.

In Year:	2015
Project Name:	**HIGHWAY 11 – COUNTY DRIVE 115 KV TRANSMISSION LINE**
Description:	Replace the (2) 600 A switches and copper jumpers in County Drive substation and reconductor the 3.3 mile line segment from Highway 11 to County Drive with 795 ACSR at 100°C.
Supporting Statement:	The loss of the Hattiesburg North – Hattiesburg SW #1 115 kV transmission line between Hattiesburg SW and 28th Ave Tap causes the Hattiesburg SW – Highway 11 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**LAUDERDALE EAST – GREENE COUNTY 230 KV TRANSMISSION LINE**
Description:	Upgrade the Lauderdale East – Greene County 230 kV transmission line to 100°C operation.
Supporting Statement:	The loss of the Greene Co – Sykes 230 kV transmission line, with Kemper offline, causes the Lauderdale East – Greene County 230 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**MERIDIAN – SWEATT 115 KV TRANSMISSION LINES**
Description:	Rebuild Meridian – Plant Sweatt #1 115 kV line with 795 ACSR (where line segments are not 477 ACSR) and replace switches and jumpers. Replace the jumpers on the Meridian – Sweatt #2 115 kV transmission line.
Supporting Statement:	The loss of the Sweatt 230 / 115 kV transformer, with Watson Unit #5 offline, causes the Meridian – Sweatt 115 kV transmission lines to become overloaded.

In Year:	2015
Project Name:	**QUITMAN NW – DESOTO 115 KV TRANSMISSION LINE**
Description:	Construct a 115 / 46 kV substation at the Desoto switching station, retire the Quitman NW 115 / 46 kV substation and convert the primary 46 kV transmission line to Desoto to 115 kV operation (already constructed to 115 kV specifications).
Supporting Statement:	Load growth from the Desoto switching station causes the 46 kV system between Quitman NW and Desoto to become overloaded.

In Year:	2016
Project Name:	**SOUTH TUSCALOOSA – HOLT 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 8.2 miles with 1033 54/7 ACSS at 160 ºC along the South Tuscaloosa – Holt 115 kV transmission line.
Supporting Statement:	The loss of the South Tuscaloosa – Kaul Tap 115 kV transmission line, with Gorgas Unit #10 offline, causes the South Tuscaloosa – Holt 115 kV transmission line to become overloaded.

In Year:	2016
Project Name:	**TUSCALOOSA AREA IMPROVEMENT**
Description:	Construct a new 115 kV transmission line from Englewood – South Tuscaloosa with 1033 ACSS at 200 ºC. Reconductor approximately 3.6 miles of existing 115 kV transmission line from Big Sandy Tap – Big Sandy with 397 ACSR at 100 ºC.
Supporting Statement:	The loss of the Duncanville – Bradley Road 230 kV transmission line, with Gorgas Unit #10 offline, overloads the Eutaw – Colonial Pipeline (Moundville) Tap 115 kV transmission line.

WEST PROJECTS

In Year:	2016
Project Name:	**YACHT CLUB CAPACITOR BANK**
Description:	Install a 30 MVAR 115 kV capacitor bank at Yacht Club DS.
Supporting Statement:	The loss of the Tuscaloosa – Sokol Park 115 kV transmission line, with Gorgas offline, causes the need for additional voltage support.

In Year:	2016
Project Name:	**SPRINGDALE – SPRINGHILL 115 KV TRANSMISSION LINE (MOBILE AREA NETWORKING)**
Description:	Reconductor approximately 2.5 miles along the Springdale – Springhill 115 kV transmission line with 795 26/7 ACSR at 100 ºC .
Supporting Statement:	Network reliability improvement.

In Year:	2016
Project Name:	**BILOXI OAK STREET 115 KV TRANSMISSION LINE**
Description:	Tap the Percy Street to Keesler 115 kV transmission line and loop the line into a new 115 kV substation called Biloxi Oak Street. Once service is installed, some of the load from the Percy Street substation will shift to the new substation.
Supporting Statement:	Necessary to serve area load growth. Percy Street Substation will exceed its existing capacity.

In Year:	2017
Project Name:	**SOUTH BIRMINGHAM 115 KV IMPROVEMENTS**
Description:	Construct a 115 kV switching station near Bessemer TS that loops in the existing Bessemer to Magella 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.

WEST PROJECTS

In Year:	2017
Project Name:	**AIRPORT SUBSTATION**
Description:	Install Kentuck DS and a new 115 kV breaker along the 31st Ave – Tuscaloosa #1 115 kV transmission line.
Supporting Statement:	Network reliability improvement.

In Year:	2017
Project Name:	**JASPER AREA IMPROVEMENTS**
Description:	Construct a new, five breaker switching station, called Jasper SS, and loop in the Jasper TS – Oakman 161 kV and Jasper DS – Taft Coal 161 kV transmission lines. Reconductor approximately 13.81 miles along the Gorgas – Taft Coal – Jasper Tap 161 kV transmission line with 795 26/7 ACSR at 100 ºC. Reconductor approximately 5.3 miles along the Jasper TS – Parkland – Parkland SS 161 kV with 795 26/7 ACSR at 100 ºC. Construct 0.8 miles of new 161 kV transmission line parallel to the existing Jasper Tap – Jasper TS 161 kV transmission line with 795 26/7 ACSR at 100 ºC.
Supporting Statement:	The loss of the Gorgas Scrubber #1 – Gorgas 161 kV transmission line causes the Gorgas – Taft Coal – Jasper Tap 161 kV transmission line to become overloaded.

In Year:	2017
Project Name:	**TUSCALOOSA – CARROLL'S CREEK TAP 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 3.7 miles of 397 ACSR along the Tuscaloosa – Sokol Park – Carroll's Creek Tap 115 kV transmission line from 75 ºC to 125 ºC operation.
Supporting Statement:	The loss of Gorgas – Drummond Tap 115 kV transmission line, with Gorgas Unit #10 offline, causes the Tuscaloosa – Sokol Park – Carroll's Creek 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2017
Project Name:	**BARNWELL – POINT CLEAR TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.03 miles with 795 26/7 ACSR at 100°C along the Barnwell to Point Clear Tap 115 kV transmission line.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Barnwell – Point Clear 115 kV Tap to become overloaded.

In Year:	2017
Project Name:	**BLAKELEY ISLAND 115 KV SUBSTATION**
Description:	Upgrade the Kimberly Clark terminal at the Blakeley Island 115 kV Substation to 2000 A.
Supporting Statement:	The loss of the Chickasabogue – One Mile 115 kV transmission line causes the terminal equipment at Blakely Island on the Kimberly Clark – Blakely Island 115 kV transmission line to become overloaded.

In Year:	2017
Project Name:	**KIMBERLY CLARK – BLAKELEY ISLAND 115 KV TRANSMISSION LINE**
Description:	Reconductor a 0.57 mile section of existing 795 ACSR 115 kV transmission line at 100 ºC with 1033 ACSS at 160 ºC along the Kimberly Clark – Blakeley Island 115 kV transmission line.
Supporting Statement:	The loss of the One Mile Tap – Chickasabogue 115 kV transmission line, with Crist Unit #7 offline, causes the Kimberly Clark – Blakeley Island 115 kV transmission line to become overloaded.

In Year:	2017
Project Name:	**KIMBERLY CLARK SUBSTATION**
Description:	Upgrade the Blakeley Island terminal at Kimberly Clark 115 kV substation to 2000 A.
Supporting Statement:	The loss of the Chickasabogue – One Mile Creek Tap 115 kV transmission line causes the terminal equipment at Kimberly Clark on the Kimberly Clark – Chickasaw 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2017
Project Name:	**MOSS POINT ELDERS FERRY ROAD SUBSTATION**
Description:	Replace the 230 / 23 kV transformer at Moss Point Elders Ferry Road with two 115 / 23 kV transformers and convert the substation high side voltage to 115 kV operation.
Supporting Statement:	Improved reliability serving the 23 kV system from Moss Point Elders Ferry Road.

In Year:	2018
Project Name:	**BARNWELL TAP – TURKEY HILL 115 KV TRANSMISSION LINE**
Description:	Construct approximately 2.75 miles of 795 ACSR 115 kV transmission line at 100 ºC from Barnwell Tap to Turkey Hill to create a new Silverhill – Fairhope – Turkey Hill "C" 115 kV transmission line.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Silverhill – Magnolia 115 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**BASSETT CREEK – LOWMAN 115 KV TRANSMISSION LINE**
Description:	Upgrade the Bassett Creek – Lowman 115 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of Bassett Creek – McIntosh 115 kV transmission line, with Crist offline, causes the Bassett Creek – Lowman 115 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**BASSETT CREEK – MCINTOSH 115 KV TRANSMISSION LINE**
Description:	Upgrade the Bassett Creek – McIntosh 115 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of Bassett Creek – Lowman 115 kV transmission line, with Crist offline, causes the Bassett Creek – McIntosh 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2018
Project Name:	**CHICKASAW SUBSTATION**
Description:	Upgrade the Kimberly Clark terminal at the Chickasaw 115 kV Substation to 2000 A.
Supporting Statement:	The loss of the Chickasabogue – One Mile Creek Tap 115 kV transmission line causes the terminal equipment at Chickasaw on the Kimberly Clark – Chickasaw 115 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**FISH RIVER TAP – FAIRHOPE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.54 miles of 115 kV transmission line from Fish River Tap – Fairhope with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Fish River Tap – Fairhope 115 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**FOLEY SWITCHING STATION**
Description:	Install two (2) 15 MVAR 115 kV Capacitor Banks at Foley Switching Station.
Supporting Statement:	The loss of the Silverhill – Fish River 115 kV transmission line, with Crist Unit #7 offline, requires additional voltage support at Foley Switching Station.

In Year:	2018
Project Name:	**POINT CLEAR TAP – FAIRHOPE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 1.0 miles of 115 kV transmission line from Point Clear Tap – Fairhope with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Point Clear Tap – Fairhope 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2018
Project Name:	**SILVERHILL – FISH RIVER TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.0 miles with 795 26/7 ACSR at 100 ºC along the Silverhill – Fish River Tap 115 kV transmission line.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Silverhill – Fish River 115 kV Tap to become overloaded.

In Year:	2018
Project Name:	**AMERICAN CYNAMID – AVALON 115 KV TRANSMISSION LINE**
Description:	Construct approximately 4.0 miles of 1033 45/7 ACSR 115 kV transmission line at 100 ºC from American Cynamid to Avalon.
Supporting Statement:	The loss of Crist – Pace #2 115 kV transmission line, with Lansing Smith Unit #3 offline, causes the Holt – Crestview 115 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**NORTH BREWTON – CRIST 230 KV TRANSMISSION LINE**
Description:	Construct a new 230 kV transmission line from North Brewton to Crist.
Supporting Statement:	The loss of the Chickasaw – Silverhill 230 kV transmission line #2, with Crist offline, causes the Chickasaw – Silverhill #1 230 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**SHOAL RIVER CAPACITOR BANK**
Description:	Install 100 MVAR 230 kV filtered capacitor bank at Shoal River.
Supporting Statement:	Crist offline results in a need for additional voltage support.

WEST PROJECTS

In Year:	2019
Project Name:	**DEMOPOLIS – SELMA 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 43.0 miles of 115 kV transmission line from Demopolis – Selma with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Greene County – North Selma 230 kV transmission line causes the Demopolis – Selma 115 kV transmission line to become overloaded.

In Year:	2019
Project Name:	**TUSCALOOSA AREA IMPROVEMENTS**
Description:	Construct approximately 6.2 miles of new 1033 ACSS at 200 ºC 115 kV transmission line from Moundville TS to Colonial Pipeline (Moundville). Reconductor approximately 5.02 miles of existing 115 kV transmission line from Colonial Pipeline (Moundville) Tap to Colonial Pipeline (Moundville) with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Greene County - Moundville 230 kV transmission line, with Gorgas Unit #10 offline, causes the South Tuscaloosa – Eutaw 115 kV transmission line to become overloaded.

In Year:	2019
Project Name:	**GASTON – COUNTY LINE ROAD 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 52.8 miles of 230 kV transmission line from Gaston – County Line Road with 1351 ACSS at 200 ºC.
Supporting Statement:	The loss of the Autaugaville – Billingsly 500 kV transmission line, with Harris Unit #1 offline, causes the Gaston – County Line Road 230 kV transmission line to become overloaded.

In Year:	2019
Project Name:	**GKN WESTLAND – HALLA CLIMATE TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.1 miles of 115 kV transmission line from GKN Westland – Halla Climate Tap with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the South Montgomery – Pinedale 115 kV transmission line, with Farley Unit #1 offline, causes the GKN Westland – Halla Climate Tap 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2019
Project Name:	**WIGGINS – WIGGINS 5TH AVENUE 115 KV TRANSMISSION LINE**
Description:	Reconductor the Wiggins SS to Wiggins 5th Avenue 115 kV transmission line with 795 ACSR at 100°C and replace the switches at Wiggins Switching Station.
Supporting Statement:	The loss of Gulfport Landon – Hwy 53 115 kV transmission line segment causes Wiggins – Wiggins 5th Avenue 115 kV transmission line to become overloaded when serving load radially from Wiggins.

In Year:	2020
Project Name:	**GREENE COUNTY – NORTH SELMA 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 47.6 miles of 115 kV transmission line from Greene County to North Selma with 1351 ACSS at 100 ºC.
Supporting Statement:	The loss of Billingsley – Autauga 230 kV transmission line, with Harris Unit #1 offline, causes the Greene County – North Selma 230 kV transmission line to become overloaded.

In Year:	2020
Project Name:	**NORTH BREWTON T.S. – NORTH BREWTON D.S. 115 KV TRANSMISSION LINE**
Description:	Construct approximately 6.0 miles of 115 kV transmission line from North Brewton TS – North Brewton DS with 795 ACSS .
Supporting Statement:	The loss of Barry SP – Stockton Tap 115 kV transmission line, with Crist Unit #7 offline, causes the North Brewton TS – Brewton Tap 115 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**BELLAMY – CUBA 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 16.3 miles along the Bellamy – Cuba 115 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of the Greene County – Lauderdale East 230 kV transmission line, with Kemper IGCC offline, causes the Bellamy – Cuba 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2021
Project Name:	**DEMOPOLIS – CEMEX 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 0.7 miles along the Demopolis – CEMEX 115 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of the Greene County – Lauderdale East 230 kV transmission line, with Kemper IGCC offline, causes the Demopolis – CEMEX 115 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**PRATTVILLE AREA SOLUTION**
Description:	Construct a new switching station at East Prattville Tap. Construct a new 230 / 115 kV substation at GE Burkeville Tap. Reconductor approximately 4.3 miles of 115 kV transmission line from West Montgomery to Hunter with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the County Line Road – East Prattville 115 kV transmission line, with Lowndes County Generation offline, causes the West Montgomery – Hunter 115 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**ELLICOTT – GEORGETOWN 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 18.9 miles along the Ellicott – Georgetown 230 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of the Barry – Chickasaw 230 kV transmission line, with Daniel Unit #1 offline, causes the Ellicott – Georgetown 230 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**ELLICOTT – SALCO 230 KV TRANSMISSION LINE**
Description:	Construct approximately 5.6 miles of new 230 kV transmission line from Ellicott to Salco SS with 1351 ACSS at 160 ºC.
Supporting Statement:	The loss of the Barry – Chickasaw 230 kV transmission line, with Daniel Unit #1 offline, causes the Barry – Salco 230 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2021
Project Name:	**NORTH BREWTON – CRIST 230 KV TRANSMISSION LINE**
Description:	Construct approximately 56 miles of new 230 kV transmission line from North Brewton to Crist with 1351 ACSS at 200 ºC.
Supporting Statement:	The loss of one Chickasaw – Silverhill 230 kV transmission line, with Crist Unit #7 offline, causes the parallel Chickasaw – Silverhill 230 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**SALCO – KUSHLA 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 13.3 miles along the Salco – Kushla 230 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of the Barry – Chickasaw 230 kV transmission line, with Daniel Unit #1 offline, causes the Salco – Kushla 230 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**SILVERHILL SUBSTATION**
Description:	Install a third 230 / 115 kV transformer (400 MVA) at Silverhill TS.
Supporting Statement:	The loss of Silverhill 230 / 115 kV transformer #1, with Daniel Unit #1 offline, causes the Silverhill 230 / 115 kV transformer #2 to become overloaded.

In Year:	2021
Project Name:	**HIGHLAND CITY – GREENWOOD 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.5 miles along the Highland City – Greenwood 115 kV transmission line with 1351 ACSR.
Supporting Statement:	The loss of the Laguna Beach – Lullwater Tap 115 kV transmission line, with Smith Unit #3 offline, causes the Highland City – Greenwood 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2022
Project Name:	**SINAI – ALTHA 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 16.85 miles along the Sinai – Altha 115 kV transmission line with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Sinai Cemetery – Smith 230 kV transmission line, with Smith Unit #3 offline, causes the Sinai – Altha 115 kV transmission line to become overloaded.

In Year:	2022
Project Name:	**ORANGE GROVE 230 / 115 KV SUBSTATION**
Description:	Construct a new 230 / 115 kV substation tapping the Moss Point East – North Theodore 230 kV transmission line, rebuild the 115 kV transmission line to Bayou Cassotte, and construct a new 115 kV transmission line from Orange Grove to Chevron PRCP.
Supporting Statement:	The loss of the Moss Point East – Kreole 115 kV transmission line, with Chevron Unit #5 offline, causes the Moss Point East – Chevron PRCP 115 kV transmission line to become overloaded. The loss of the Moss Point East – Chevron PRCP 115 kV transmission line overloads the Moss Point East – Kreole 115 kV transmission line.

WEST PROJECTS

SMEPA

In Year:	2014
Project Name:	**SOUTH HOY 161 KV SOURCE**
Description:	Build a 161 / 69 kV Substation at South Hoy. Build a 161 kV transmission line from Moselle to South Hoy.
Supporting Statement:	69 kV low voltages and line overloads during 69 kV contingencies.

In Year:	2016
Project Name:	**HOMEWOOD – STATION CREEK 161 KV TRANSMISSION LINE**
Description:	Construct a new 161 kV transmission line utilizing existing 69 kV line built with double circuit specifications
Supporting Statement:	Alleviates loading on the Homewood 161 / 69 kV auto transformers and multiple underlying 69 kV lines during high tie-line flow.

In Year:	2016
Project Name:	**NORTHWEST PERRY 161 / 69 KV SUBSTATION**
Description:	Tap the 161 kV Line 162 and 69 kV Line 114 and build the Northwest Perry 161 / 69 kV substation.
Supporting Statement:	69 kV contingencies in area cause 69 kV under voltages and overloads.

In Year:	2021
Project Name:	**PLANT MORROW – PURVIS BULK 161 KV TRANSMISSION LINE**
Description:	Tap the 161 kV Line 166 and construct a new 161 kV line from Plant Morrow to Tap Point. Uprate existing line section from Tap Point to Purvis Bulk.
Supporting Statement:	Alleviates loading on the 161 kV transmission system during certain transfers.

WEST PROJECTS

In Year:	2021
Project Name:	**LUMBERTON – BENNDALE 161 KV CONVERSION**
Description:	Rebuild/Convert the existing 69 kV lines and distribution substations from Lumberton Benndale GT at 161 kV insulation and operation.
Supporting Statement:	69 kV low voltages and line overloads during 69 kV contingencies.

POWERSOUTH

In Year:	2013
Project Name:	**BALDWIN COUNTY PROJECT**
Description:	Construct Miflin Junction -– Florida Ave 115 kV transmission line using 1033 ACSS with one mile underground cable water crossing. Construct Miflin Switching Station. Thermal uprate of Miflin Junction – Wolf Bay. Install 15 MVAR Cap banks at Florida Ave and Gulf shores.
Supporting Statement:	High load growth area (Orange Beach) being served radially. This is a project to strengthen the system to respond to single contingency conditions.

In Year:	2014
Project Name:	**BREWTON / ATMORE AREA 115 KV CONVERSION**
Description:	Upgrade approximately 40 miles of 46 kV to 115 kV and 795 ACSR conductor.
Supporting Statement:	This area experiences line overloads under single contingencies and unacceptable low voltage under a double contingency scenario. The overload could be fixed with a simple line upgrade however, the low voltage would persist. This project fixes both problems by providing a parallel 115 kV path that eliminates the overload and assures that the voltage is supported for the loss of 2 sources.