Southeastern Regional Transmission Planning Process

PRELIMINARY 10 YEAR EXPANSION PLAN

Original: June 17, 2011
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Section 1.

PRELIMINARY 10 YEAR EXPANSION PLAN

EAST

EAST PROJECTS

In Year: 2012

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. Install two 115 kV breakers at Daniel Siding. Network the line coincident with the Daniel Siding – Little Ogeechee 115 kV transmission line reconductor project.

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: 2012

Project Name: **DAVIS ST – WEST END 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 2.7 miles of existing 1033 AAC with 795 ACSS at 170°C along the Davis Street – West End 115 kV transmission line.

Supporting Statement: The loss of the Jack McDonough – Peachtree 230 kV transmission line causes the Davis Street – West End 115 kV transmission line to become overloaded.

In Year: 2012

Project Name: **GASTON – YELLOWDIRT 230 KV TRANSMISSION LINE**

Description: Upgrade approximately 9.28 miles of the existing Gaston – Roopville section of the Gaston – Yellowdirt 230 kV transmission line that is located within Georgia to 100°C operation.

Supporting Statement: With the MEAG Wansley (Yellow Dirt) Unit offline, the loss of the Conasauga – Mosteller Springs 500 kV transmission line causes the Gaston – Roopville section of the Gaston – Yellow Dirt 230 kV transmission line to exceed its thermal rating.

In Year: 2012

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

Description: Reconductor approximately 3.5 miles of existing 636 ACSR along the Grady – Moreland Avenue 115 kV transmission line with a 1500 A rated conductor or greater.

Supporting Statement: The loss of the Scottdale 230 / 115 kV transformer causes the Moreland end of the Grady – Moreland Avenue 115 kV transmission line to become overloaded.

In Year: 2012

Project Name: **KRAFT – MCINTOSH 230 KV BLACK / WHITE TRANSMISSION LINES**

Description: Rebuild approximately 16 miles along the Kraft – McIntosh 230 kV Black & White transmission lines (double circuit towers) with 1622/TW ACCR.

Supporting Statement: The loss of a Kraft – McIntosh 230 kV transmission line causes the remaining Kraft – McIntosh 230 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2012

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

Description: Replace two 115kV breakers at North Marietta substation and one at Lockheed Martin #1 substation.

Supporting Statement: Breaker improvement.

In Year: 2012

Project Name: **PETTIT CREEK 115 KV CAPACITOR BANK**

Description: Upgrade the existing 115 kV capacitor bank at Pettit Creek 115 / 46 / 12kV substation to 60 MVAR.

Supporting Statement: Area voltage support.

In Year: 2012

Project Name: **ROSSIGNOL HILL 46 KV CAPACITOR BANK**

Description: Install a 20 MVAR, 46 kV capacitor bank in the Rossignol Hill 46 / 13.8 kV substation.

Supporting Statement: Area voltage support

In Year: 2013

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: 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.

EAST PROJECTS

In Year: 2013

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

Description: Reconductor approximately 12.6 miles of existing 336 ASCR with 795 ACSR between Dawsonville and Gainesville #1. 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.

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 exceed its thermal rating due to the forecasted load increase at Annewakee, Camp Creek and Ben Hill substations.

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 operation to 75°C.

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.

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 line to become overloaded.

In Year: 2013

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

Description: At Peachtree, convert all load transformers to 230 kV highside, remove the 230 / 115 kV transformer (Bank 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: **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 exceed its thermal rating.

In Year: 2013

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

Description: At the South Columbus substation, replace the existing 4/0 copper jumpers with 750 AAC on the Dawson Primary 115 kV transmission line.

Supporting Statement: The loss of the North Tifton 500 / 230 kV transformer causes the existing 4/0 copper jumpers, in the South Columbus substation, to exceed their thermal rating.

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: 2013

Project Name: **UPPER PIKE CAPACITOR BANK**

Description: Install a 30 MVAR, 115 kV capacitor bank at Upper Pike.

Supporting Statement: The loss of the South Griffin – Griffin #8 section of the Barnesville Primary – South Griffin 115 kV transmission line results in a need for additional area voltage support.

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 Pitts – Crisp #1 115 kV transmission line results in a need for area voltage support in the Crisp County area.

In Year: 2014

Project Name: **DRESDEN – HEARD COUNTY 500 KV TRANSMISSION LINE**

Description: Construct approximately 8.0 miles of new 500 kV transmission line between Heard County and Dresden.

Supporting Statement: Needed to accommodate the 575 MW network service request from the Wansley CC7 Generation Facility.

In Year: 2014

Project Name: **DRESDEN 500 / 230 KV SUBSTATION**

Description: Expand the Dresden 500 / 230 kV substation related to the Wansley 7 network improvements. Install 2% reactors on the Dresden – Yates 230 kV transmission line.

Supporting Statement: Needed to accommodate the 575 MW network service request from the Wansley CC7 Generation Facility.

EAST PROJECTS

In Year: 2014

Project Name: **HORSELEG CREEK CAPACITOR BANK**

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

Supporting Statement: Area voltage support.

In Year: 2014

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

Description: Reconductor approximately 2.6 miles of 1033 ACSR conductor with 1351 ACSS conductor at 170°C from Boggs Road to Purcell Road along th e Lawrenceville – Norcross 230 kV transmission line.

Supporting Statement: The loss of 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: 2014

Project Name: **LLOYD SHOALS / PORTERDALE AREA IMPROVEMENT PROJECT PHASE 1**

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.

In Year: 2014

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

Description: Reconductor approximately 18.2 miles with 1–1622 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 (BLACK) TRANSMISSION LINE**

Description: Construct approximately 8.0 miles of new 795 ACSR 115 kV transmission line from West Brunswick to Altamaha.

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.

EAST PROJECTS

In Year: 2014

Project Name: **OHARA – WANSLEY 500 KV TRANSMISSION LINE**

Description: Reconfigure an approximately 1.0 mile section of the existing Wansley – O'Hara 500 kV transmission line to avoid crossing of the new Heard County – Dresden 500 kV line.

Supporting Statement: Needed to accommodate the 575 MW network service request from the Wansley CC7 Generation Facility.

In Year: 2014

Project Name: **VILLA RICA SUBSTATION**

Description: Remove the two parallel 2%, 230 kV reactors on the low side of the 500 / 230kV autobank "A" at Villa Rica substation.

Supporting Statement: Reactors initially needed to accommodate the 575 MW network service request from the Wansley CC7 Generation Facility. In 2014, they are no longer necessary due to other network improvements.

In Year: 2015

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 exceed its thermal rating.

In Year: 2015

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

Description: At the Boulevard 115 / 46 / 13.8 kV substation, construct a 230 kV switchyard and install a 400 MVA, 230 / 115kV Transformer. Rebuild the Boulevard – Dean Forest 115 kV Black/White double circuit lines to 230 kV specifications using bundled (2) 795 ACSR. Operate one circuit at 230 kV and the other at 115 kV. Tap the Kraft – McIntosh 230 kV white transmission line and build a three breaker, 230 kV Switching Station. Build approximately 5.0 miles of new 230 kV transmission line from the new switching station to Dean Forest. Rebuild the Dean Forest – Kraft 230 kV transmission line using bundled (2) 795 ACSR.

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

EAST PROJECTS

In Year: 2015

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: 2015

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

Description: Rebuild approximately 7.5 miles with double circuit construction for 1351 ACSR at 230 kV specifications along the existing Hampton – McDonough 115 kV tap line. Serve Dailey Mill and Greenwood Park from McDonough.

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

In Year: 2015

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 exceed its thermal rating.

In Year: 2015

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

Description: Install a second 115 / 46 kV (112 MVA) transformer in 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.

In Year: 2015

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: 2016

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: 2016

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 exceed its thermal rating.

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 ℃.

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: **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.

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: 2016

Project Name: **GOSHEN – WAYNESBORO 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 18.7 miles of 115 kV transmission line with 1033 ACSR along the Goshen – Waynesboro 115 kV transmission line.

Supporting Statement: The loss of the Wilson – Waynesboro 230 kV transmission line, with Hatch Unit #1 offline, causes the Goshen – Waynesboro 115 kV transmission line to become overloaded.

In Year: 2016

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 740 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.

In Year: 2016

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: With Kraft Unit #3 offline, the loss of the Meldrim 230 / 115 kV transformer causes the McIntosh 230 / 115 kV transformer to exceed its thermal rating.

In Year: 2016

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

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

Supporting Statement: Area voltage support.

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: To support the expansion of Plant Vogtle, a new 500 kV transmission line will be required from Plant Vogtle to Thomson Primary to address transmission thermal and generator statbility issues.

EAST PROJECTS

In Year: 2016

Project Name: **SHARON SPRINGS 230 / 115 KV PROJECT**

Description: Construct a new 6.6 mile, 230 kV transmission line (1351 ACSR at 100°C) from Cumming to Sharon Springs. Install a 230 / 115 kV, 300 MVA 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: 2017

Project Name: **2017 BASE REACTIVE SUPPORT**

Description: Install a 120 MVAR, 230 kV capacitor bank at Boulevard 230 kV Substation. Install a 160 MVAR, 230 kV second capacitor bank at Suwanee 230 kV Substation. Upgrade the existing 230 kV capacitor bank at Suwanee from 120 MVAR to 160 MVAR.

Supporting Statement: Area Voltage Support.

In Year: 2017

Project Name: **ALPHARETTA – WOODSTOCK 230 KV TRANSMISSION LINE**

Description: Replace the 1200 A line trap and line switches at Woodstock on the Alpharetta – Woodstock 230 kV transmission line with 2000 A equipment.

Supporting Statement: The loss of the Bull Sluice – Big Shanty 500 kV transmission line causes the terminal equipment at Woodstock along the Alpharetta – Woodstock 230 kV transmission line to exceed its thermal rating.

In Year: 2017

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 exceed its thermal rating.

EAST PROJECTS

In Year: 2017

Project Name: **BARNEYVILLE – DOUGLAS 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 11.54 miles of 477 ACSR along the Barneyville – Douglas 115 kV transmission line from 50°C to 100°C operation.

Supporting Statement: The loss of the Tifton Junction – South Tifton or North Tifton – Tifton Junction sections of the Barneyville – Douglas 115 kV transmission line cause the Barneyville – Nashville #1 section of the line to become overloaded.

In Year: 2017

Project Name: **BAY CREEK 230 / 115 KV SUBSTATION**

Description: Install a second 230 / 115 kV, 400 MVA transformer in the Bay Creek Substation.

Supporting Statement: The loss of the Bay Creek 230 / 115 kV transformer will overload the Bay Creek – Monroe 115 kV transmission line.

In Year: 2017

Project Name: **BETHABARA – EAST WATKINSVILLE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.8 miles of 336 ACSR 115 kV transmission line along the Georgia Square Junction – Mars Hill Junction and Mars Hill Junction – Mars Hill sections of the Bethabara – East Watkinsville 115 kV transmission line with 795 ASCR.

Supporting Statement: The loss of the East Watkinsville – Watkinsville section of the Bethabara – East Watkinsville 115 kV transmission line causes the Mars Hill Junction – Mars Hill and Mars Hill Junction – Georgia Square Junction 115 kV sections of the line to exceed their thermal rating.

In Year: 2017

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

Description: Reconductor approximately 4.2 miles of existing 336 ACSR 115 kV transmission line from Kathleen – Waterford with 795 ACSR at 100°C.

Supporting Statement: The loss of the Bonaire – Kathleen 230 kV transmission line causes the Kathleen – Waterford 115 kV transmission line section to exceed its thermal rating.

In Year: 2017

Project Name: **BOSTWICK – EAST WATKINSVILLE 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 11.4 miles of existing 230 kV transmission line with 1351 ACSS at 170°C from Bostwick to East Watkinsville. Replace the 1200 A jumpers and line trap with those rated at 2000 A at East Watkinsville.

Supporting Statement: The loss of the Bethabara – East Walton 230 kV transmission line causes the Bostwick – East Watkinsville 230 kV transmission line to exceed its thermal rating.

EAST PROJECTS

In Year: 2017

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.

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

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In Year: 2017

Project Name: **CENTER PRIMARY – COMMERCE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 16.22 miles of existing 115 kV transmission line from Center Primary – Commerce Primary with 795 ACSR at 100°C. Upgrade the 115 kV bus at Commerce Primary. Replace breaker disconnect switches and jumpers at Center Primary.

Supporting Statement: The loss of the Middle Fork 230 / 115 kV transformer causes the Center Primary – Nicholson Junction line section of the Center Primary – Commerce Primary 115 kV transmission line to become overloaded.

In Year: 2017

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

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

Supporting Statement: Area voltage support.

In Year: 2017

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

Description: Reconductor approximately 4.8 miles of 636.0 ACSR with 1351 ACSR at 100°C constructed at 230 kV specifications along the Cornish Mountain – Sigman Road section of the Conyers – Cornish Mountain 115 kV transmission line.

Supporting Statement: The loss of the Conyers 230 / 115 kV transformer will overload the Cornish Mountain – Sigman Road section of the Conyers – Cornish Mountain 115 kV transmission line.

EAST PROJECTS

In Year: 2017

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 exceed its thermal rating. 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: 2017

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) 636 ACSR conductor.

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

In Year: 2017

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 exceed their thermal ratings.

In Year: 2017

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 or Emory – Scottdale 115 kV transmission lines will cause the Decatur – Moreland Avenue 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2017

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

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

Supporting Statement: The loss of the McCall – Thalmann 500 kV transmission line causes multiple 115 kV transmission lines in the Hinesville area to exceed their thermal ratings.

In Year: 2017

Project Name: **DOUGLAS – KETTLE CREEK 115 KV TRANSMISSION LINE**

Description: Upgrade the 4.3 mile Douglas – Oak Park section of the Douglas - Kettle Creek Primary 115 kV transmission line from 75°C to 100°C operation.

Supporting Statement: The loss of the Douglas – Wilsonville 230 kV transmission line causes the Douglas – Oak Park section of the Douglas – Kettle Creek Primary 115 kV transmission line to exceed its thermal rating.

In Year: 2017

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.

In Year: 2017

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 exceed its thermal rating.

EAST PROJECTS

In Year: 2017

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.

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: 2017

Project Name: **EAST WALTON 500 / 230 KV PROJECT**

Description: Construct a 500 kV transmission line from the new Rockville 500 kV Switching Station to the new East Walton 500 / 230 Substation. Construct new 230 kV transmission lines from East Walton to Jack's Creek Switching Station (1351 ACSS at 200°C), from East Walton to the new Bostwick Switching Station (1351 ACSS at 200°C), and from Bethabara to East Walton (1351 ACSS at 200°C). Loop the East Social Circle – East Watkinsville 230 kV transmission line into Bostwick substation. Replace the line trap at East Watkinsville on the Bostwick 230 kV transmission line. Loop the Scherer – Warthen 500 kV transmission line into Rockville. Loop the Doyle – LG&E Monroe 230 kV transmission line into Jack's Creek substation.

Supporting Statement: The loss of the Klondike – Scherer 500 kV transmission line will overload the Klondike – O'Hara 500 kV transmission line. This project also supports several 230 kV overloads as a result of increasing loads in Northeast Georgia.

In Year: 2017

Project Name: **FIFE CAPACITOR BANK**

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

Supporting Statement: Area voltage support.

In Year: 2017

Project Name: **GORDON – SANDERSVILLE #1 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 30.0 miles of 336 ACSR along the Gordon – Robin Springs section of 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 Springs section of the Gordon – Sandersville 115 kV transmission line to become overloaded.

EAST PROJECTS

In Year: 2017

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: 2017

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: 2017

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

Description: Construct a new 230 kV transmission line from Arnold Mill – Hopewell with 1033 ACSR. This involves 12.6 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. 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: 2017

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 will overload the Rayonier – North Jesup – Jesup sections of the Jesup – Ludowici Primary 115 kV transmission line.

EAST PROJECTS

In Year: 2017

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 a conductor capable of carrying at least 1500 A.

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 exceed its thermal rating.

In Year: 2017

Project Name: **LAWRENCEVILLE – MOON ROAD 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.98 miles of 636 ACSR from Lawrenceville – Lawrenceville City #3 along the Lawrenceville – Moon Road 115 kV transmission line with a 1500 A rated conductor or greater.

Supporting Statement: The loss of the Bay Creek 230 / 115 kV transformer or the Bay Creek – Moon Road 115 kV transmission line causes the Lawrenceville – Lawrenceville City #3 section of the Lawrenceville – Moon Road 115 kV transmission line to become overloaded.

In Year: 2017

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

Description: Rebuild approximately 15.31 miles with 1351 ACSS at 170°C along the Lawrenceville – Winder 230 kV transmission line. Replace the 800 CU jumpers, 1200 A switches and line trap, and 1600 A breaker at Winder on the Lawrenceville – Winder 230kV transmission line with 2000 A equipment. Replace the 1590 AAC jumpers and 1600 A switches at Progress Center on the Lawrenceville – Winder 230 kV transmission line with 2000 A equipment. Replace the 1590 AAC jumpers and 1351 ACSR main bus at Old Freeman Mill Road on the Lawrenceville – Winder 230kV transmission line with 2000 A equipment. Replace the 1590 AAC jumpers, 1600 A switches & breaker, and 1200 A line trap at Lawrenceville on the Lawrenceville – Winder 230kV transmission line with 2000 A equipment.

Supporting Statement: The loss of the Norcross end of the Lawrenceville – Norcross 230 kV transmission line causes the Lawrenceville – Old Freeman Mill section of the Lawrenceville – Winder 230 kV transmission line to become overloaded.

In Year: 2017

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: 2017

Project Name: **LLOYD SHOALS 115 KV CAPACITOR BANK**

Description: Install a 50 MVAR, 115 kV capacitor bank at Lloyd Shoals.

Supporting Statement: Provides voltage support along the Lloyd Shoals – Porterdale 115 kV transmission line for the loss of the Porterdale end of the Lloyd Shoal – Porterdale 115 kV transmission line.

In Year: 2017

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) and the Proctor Creek – STR8 segment (0.56 miles of 762 ACSR) using 1351 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.

In Year: 2017

Project Name: **MCEVER RD 115 KV CAPACITOR BANK**

Description: Install a 30 MVAR, 115 kV capacitor bank.

Supporting Statement: Area voltage support.

In Year: 2017

Project Name: **MCEVER ROAD - SHOAL CREEK 115 KV TRANSMISSION LINE**

Description: Reconductor the McEver – Shoal Creek 115 kV transmission line with 1033 ACSR at 100° C. Replace the existing 750 AAC jumpers at College Square with 1590 AAC jumpers.

Supporting Statement: The loss of the South Hall – Spout Sp. section of the South Hall – Shoal Creek 230 kV transmission line overloads the McEver Rd – College Square section of the McEver Road – Shoal Creek 115 kV transmission line.

EAST PROJECTS

In Year: 2017

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

Description: Construct approximately 8 miles of new 795 ACSR at 100°C 115 kV transmission line between Milledgeville – West Milledgeville.

Supporting Statement: The loss of the Branch – Gordon 230 kV transmission line, with Mid Georgia Cogeneration generating unit offline, causes the Milledgeville – West Milledgeville 115 kV transmission line to become overloaded.

In Year: 2017

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

Description: Reconductor approximately 3.45 miles with bundled 2--1033 ACSR at 100°C along the Norcross – Berkeley Lake section of the Norcross – Ocee 230 kV transmission line.

Supporting Statement: The loss of the Alpharetta end of the Alpharetta - Ocee 230 kV transmission line overloads the Norcross – Berkely Lake section of the Norcross – Ocee 230 kV transmission line.

In Year: 2017

Project Name: **NORTH MARIETTA – SMYRNA (BLACK & WHITE) 115 KV TRANSMISSION LINES**

Description: Reconductor approximately 2.4 miles of existing 657 ACAR 115 kV transmission line from North Marietta to the Lockheed Martin Tap with a conductor capable of carrying at least 1200 A.

Supporting Statement: The Marietta – Lockheed Martin Tap section of the North Marietta – Smyrna (White) 115 kV transmission line will exceed its thermal rating. The majority of this section is on double circuit towers (Black & White).

In Year: 2017

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 636 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.

In Year: 2017

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

Description: Replace the Snellville 230 / 115 kV, 1600A lowside switch with a 2000 A lowside switch.

Supporting Statement: The loss of the Bay Creek 230 / 115 kV transformer causes the switch on the lowside of Snellville 230 / 115 kV transformer to become overloaded.

EAST PROJECTS

In Year: 2017

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 exceed its thermal rating.

In Year: 2017

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 operate both auto-transformers to 334 MVA and 330 MVA respectively.

Supporting Statement: The loss of one 230 / 115 kV transformer at South Macon causes the other transformer to exceed its thermal rating.

In Year: 2017

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

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

Supporting Statement: Area voltage support.

In Year: 2017

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

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

Supporting Statement: Area voltage support.

In Year: 2017

Project Name: **ZUTA SUBSTATION**

Description: Replace 350 AAC jumpers at Zuta Substation.

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: 2018

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

Description: Reconductor approximately 27.9 miles of existing 336 ACSR 115 kV transmission line from Barneyville – Pine Grove Primary with 795 ACSR at 100°C. Replace 600 A switch at Adel #1 with a 1200 A switch. Replace the 750 AAC main bus and jumpers at Cecil with 1590 AAC.

Supporting Statement: The loss of the Pine Grove Primary – North Tifton 230 kV transmission line causes the Barneyville – Pine Grove Primary 115 kV transmission line to become overloaded.

In Year: 2018

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

Description: Install a 2% reactor at Eatonton Primary substation on the Branch 230 kV transmission line.

Supporting Statement: The loss of the Branch – Forrest Lake 230 kV transmission line, with McDonough Unit #6 offline, causes the Branch – Eatonton #3 230 kV Transmisison Line to become overloaded.

In Year: 2018

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 exceed its thermal rating.

In Year: 2018

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.

EAST PROJECTS

In Year: 2018

Project Name: **EAST SOCIAL CIRCLE - SNELLVILLE 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 19.8 miles of existing 1351 ACSR 230 kV transmission line along the East Social Circle – Little Ten section of the East Social Circle – Snellville 230 kV transmission line with 1351 ACSS at 160°C. Repl ace the 1200 A line trap at Snellville Primary with one rated at 2000 A. Replace associated jumpers at East Social Circle.

Supporting Statement: The loss of the Bay Creek – LG&E Monroe 230 kV transmission line causes the East Social Circle – Snellville Primary 230kV transmission line to become overloaded.

In Year: 2018

Project Name: **GAINESVILLE #2 230 / 115 KV SUBSTATION**

Description: Replace the existing 230 / 115 kV, 280 MVA transformers at Gainesville #2 with 400 MVA transformers and associated lowside equipment.

Supporting Statement: The loss of either the Gainesville #2–2 – South Hall 230 kV transmission line or the Gainesville #2–2 230 / 115 kV transformer overloads the Gainesville #2–1 230 / 115 kV Transformer. Also, for the loss of either the Gainesville #2–1 – South Hall 230 kV transmission line or the Gainesville #2–1 230 / 115 kV Transformer, the Gainesville #2–2 230 / 115 kV transformer becomes overloaded.

In Year: 2018

Project Name: **HOPEWELL – MCGRAU FORD 230 KV TRANSMISSION LINE**

Description: Construct a second 230 kV transmission line between McGrau Ford and Hopewell. At Hopewell, terminate the new McGrau Ford 230 kV transmission line and remove the 2% reactors on the existing McGrau Ford – Hopewell 230 kV transmission line.

Supporting Statement: Remove the reactor in the Hopewell – McGrau Ford 230 kV transmission line in order to provide voltage support and serve the load growth on the 230 kV system in the area between Hopewell – Ocee – Norcross. Removing the reactor will overload the existing Hopewell – McGrau Ford 230 kV transmission line.

EAST PROJECTS

In Year: 2018

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

Description: Reconductor approximately 3.21 miles of 477 ACSR 115 kV transmission line from West Marietta – Hicks Road with 1033 ACSR. Upgrade approximately 0.60 miles of 397 ACSR 115 kV transmission line from South Cobb Drive – Oakdale Junction to 100°C operation. Replace 600 A switches at the Mableton junction with 1200 A swicthes. Replace 750 AAC jumpers at Hicks Road with 1590 AAC jumpers.

Supporting Statement: The loss of the Jack McDonough – South Cobb Drive section of the Jack McDonough – West Marietta 115 kV (Black) transmission line causes the West Marietta – Hicks Road section and Fontaine Road switches to exceed their thermal ratings. Also, the loss of the West Marietta – Hicks Road section of the Jack McDonough – West Marietta 115 kV (Black) transmission line causes the South Cobb Drive to Oakdale Junction section of this same line to exceed its thermal rating.

In Year: 2018

Project Name: **LASSITER ROAD – ROSWELL 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 4.8 miles of existing 636 ACSR with 1351 ACSR at 100°C along the Lassiter Road – Roswell 115 kV transmission line.

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

In Year: 2018

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: 2018

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

Description: Construct approximately 4.5 miles of new 230 kV transmission line from Parkaire – Roswell. Install a 230 / 115 kV transformer and low side bank breaker at Roswell. Terminate the new 230 kV transmission line from Roswell and split the 230 kV bus with a bus–tie breaker.

Supporting Statement: The loss of the Parkaire – Morgan Fall section of the Parkaire – Roswell 115 kV transmission line will overload the North Marietta – Roswell 115 kV transmission line.

EAST PROJECTS

In Year: 2018

Project Name: **SOUTH COWETA – YATES 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 19 miles of existing 477 ACSR with 1033 ACSR along the South Coweta – Yates 115 kV transmission line from Yates to Madras, Madras to Yamaha and South Coweta to the Sharpsberg tap.

Supporting Statement: The loss of either end of the South Coweta – Yates 115 kV transmission line, with Yates Unit #3 offline, causes the South Coweta – Sharpesburg or the Yates – Madras – Yamaha sections of the South Coweta – Yates 115 kV transmission line to become overloaded.

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: **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 Rockville – Warthen 500 kV transmission line causes the Union Point – Washington Junction segment of the Union Point – Warrenton Primary 115 kV transmission line to exceed its thermal rating.

In Year: 2019

Project Name: **2019 BASE REACTIVE SUPPORT**

Description: At Ocee, install a 90 MVAR, 230 kV capacitor bank. At Factory Shoals, install a 30 MVAR, 115 kV capacitor bank.

Supporting Statement: Area voltage support.

EAST PROJECTS

In Year: 2019

Project Name: **ARKWRIGHT 115 KV SWITCHING STATION**

Description: Construct a new breaker and a half scheme substation with 3000 A capacity adjacent to the existing Arkwright substation. Allow for future 230 kV and 115 kV expansion. Retire the existing substation and install a new control house.

Supporting Statement: The loss of South Macon – Vineville 115 kV section of the South Macon – Forrest Road 115 kV transmission line overloads the bus at Arkwright.

In Year: 2019

Project Name: **BARNEYVILLE – DOUGLAS 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 4.1 miles of existing 336 ACSR along the Baker Highway – Douglas section of the Barneyville – Douglas 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the South Tifton – Tifton Junction causes the Baker Highway – Douglas section of the Barneyville – Douglas 115 kV transmission line to exceed its thermal rating.

In Year: 2019

Project Name: **BAY CREEK – MOON ROAD 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.9 miles of existing 1033 ACSR with 1351 ACSS at 160°C from Bay Creek to Lawrenceville #4 tap along the Bay Creek – Moon Road 115 kV transmission line.

Supporting Statement: The loss of the Bay Creek to Vulcan Material Junction section of the Bay Creek – Snellville 115 kV transmission line causes the Bay Creek – Lawrenceville #4 tap section of the Bay Creek – Moon Road 115 kV transmission line to become overloaded.

In Year: 2019

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.

EAST PROJECTS

In Year: 2019

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

Description: Add a second conductor to the existing the Branch – West Milledgeville 230 kV transmission line making the conductor bundled (2) 1351 ACSR at 100° C. Replace bus, transfer bus, line trap, and jumpers at West Milledgeville. Bundle the jumpers at Branch.

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.

In Year: 2019

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 exceed its thermal rating.

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: **DANIEL SIDING 115 KV CAPACITOR BANK**

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

Supporting Statement: Area voltage support.

In Year: 2019

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

Description: Replace the 800 CU Jumpers at Vidalia on the Hatch – Vidalia 230 kV transmission line.

Supporting Statement: The loss of the Thalmann – McCall Road 500 kV transmission line causes the terminal equipment along the Hatch – Vidalia 230 kV transmission line to exceed its thermal rating.

EAST PROJECTS

In Year: 2019

Project Name: **JACKS CREEK – CORNISH MOUNTAIN 230 KV TRANSMISSION LINE**

Description: Construct approximately 20 miles of new 230 kV transmission line from Jack's Creek to Cornish Mountain.

Supporting Statement: The loss of the Carter Hill – Doyle section of the Doyle – Winder 230 kV transmission line causes the Bay Creek – LG&E Monroe 230 kV transmission line to exceed its thermal rating.

In Year: 2019

Project Name: **JASPER (PEF) – WEST HOMERVILLE (GTC) 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 32.0 miles of existing 4/0 6/1 115 kV transmission line from Jasper (PEF) – West Homerville with 795 ACSR at 100°C.

This project replaces TEAMS #11188

Supporting Statement: The loss of the Thalmann – Duval 500 kV transmission line causes the Jasper (PEF) – West Homerville 115 kV transmission line to exceed its thermal rating.

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 Kettle Creek Primary – Offerman White 115 kV transmission line to become overloaded.

In Year: 2019

Project Name: **KETTLE CREEK PRIMARY – WEST HOMERVILLE 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 28.0 miles along the Kettle Creek Primary – West Homerville 115 kV transmission line with 795 ACSR at 100°C.

Supporting Statement: The loss of the Thalmann – Duval 500 kV transmission line causes the Kettle Creek Primary – West Homerville 115 kV transmission line to exceed its thermal rating.

EAST PROJECTS

In Year: 2019

Project Name: **LAWRENCEVILLE – NORTH AWRF 115 KV TRANSMISSION LINE**

Description: Replace 1590 AAC jumpers, 1200 A switches and line traps at Lawrenceville on the Lawrenceville – North AWRF 115 kV transmission line. Replace 1200 A switches and 1590 AAC jumpers at Exit 44.

Supporting Statement: The Lawrenceville – Exit 44 section of the Lawrenceville – North AWRF 115 kV transmission line becomes overloaded.

In Year: 2019

Project Name: **MCCONNELL ROAD – WEST MARIETTA 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.72 miles of existing 636 ACSR with 1033 ACSR along the West Marietta – Mill Creek Junction section of the McConnell Road – West Marietta 115 kV transmission line.

Supporting Statement: The loss of the McConnell 230 / 115 kV transformer overloads the West Marietta – Mill Creek Junction segment of the McConnell Road – West Marietta 115 kV transmission line.

In Year: 2019

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

Description: Upgrade the 4.43 mile McIntosh – Jasper section of the McIntosh – Yemassee (SCE&G) 115 kV transmission line from 75°C to 100°C operation.

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

In Year: 2019

Project Name: **MOULTRIE – NORTH TIFTON 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.0 miles of existing 636 ACSR 115 kV transmission line from North Tifton – Tifton Junction with 795 ACSS at 170°C.

Supporting Statement: The loss of the North Tifton – East Moultrie 115 kV transmission line causes the North Tifton – Tifton Junction section of the Moultrie – North Tifton 115 kV transmission line to exceed its thermal rating.

In Year: 2019

Project Name: **NORTH TIFTON – PINE GROVE PRIMARY 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 46.0 miles of existing 1033 ACSR 230 kV transmission line from North Tifton – Pine Grove with 1033 ACSS at 170°C.

Supporting Statement: The loss of the East Moultrie – East Berlin 230 kV transmission line causes the North Tifton – Pine Grove 230 kV transmission line to exceed its thermal rating.

EAST PROJECTS

In Year: 2019

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

Description: Install a third 140 MVA 230 / 115 kV transformer and lowside breaker at Offerman Substation

Supporting Statement: The loss of one of the Offerman 230 / 115 kV transformers overloads the second.

In Year: 2019

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

Description: Reconductor approximately 15.5 miles of 1033 ACSR 230 kV transmission line along the Raccoon Creek – Cotton section of the Raccoon Creek – Thomasville 230 kV transmission line with 1033 ACSS at 170°C.

Supporting Statement: The loss of South Bainbridge – Farley 230 kV transmission line causes the Raccoon Creek – Cotton 230 kV section of the Raccoon Creek – Thomasville 230 kV transmission line to exceed its thermal rating.

In Year: 2019

Project Name: **VOGTLE – WILSON 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.4 miles of existing 1351 ACSS at 160°C 230 kV transmission line with bundled (2) 1033 ACSR at 100°C from Vogtle to Wilson.

Supporting Statement: The loss of the Vogtle – West Mcintosh 500 kV transmission line, with Hatch Unit #1 offline, causes the Vogtle – Wilson 230 kV transmission line to exceed its thermal rating.

In Year: 2019

Project Name: **WADLEY 230 KV SUBSTATION**

Description: Replace the 230 kV 1000 CU bus at Wadley

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line causes the bus at Wadley to exceed its thermal rating.

In Year: 2019

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.

EAST PROJECTS

In Year: 2020

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

Description: Reconductor approximately 3.2 miles of existing 477 ACSR with 636 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: 2020

Project Name: **CORNISH MOUNTAIN 230 KV CAPACITOR BANK**

Description: Install a 117 MVAR, 230 kV capacitor bank at Cornish Mountain Substation.

Supporting Statement: Area voltage support.

In Year: 2020

Project Name: **EAST WALTON – SOUTH HALL 500 KV TRANSMISSION LINE**

Description: Construct a new 500 kV transmission line from the South Hall 500 / 230 kV Substation to the East Walton 500 / 230 kV Substation.

Supporting Statement: The need for this 500 kV transmission line is driven by several 230 kV transmission line overloads. The loss of the Bethabara – East Walton 230 kV transmission line causes the Bostwick – East Walton 230 kV transmission line to become overloaded. The loss of the Bay Creek – LG&E Monroe 230 kV transmission line causes the Doyle – Jack's Creek and Doyle – Winder 230 kV transmission lines to become overloaded. The loss of the Rockville – Scherer 500 kV transmission line causes the East Walton 500 / 230 kV transformer to become overloaded. The loss of the Klondike – Norcross 500 kV transmission line causes the Austin Drive – Klondike and Conyers – Lithonia 230 kV transmission lines to become overloaded.

In Year: 2020

Project Name: **GAINESVILLE #1 – GAINESVILLE #2 (WHITE) 115 KV TRANSMISSION LINE**

Description: Reconductor the Gainesville # 1 – Gainesville # 2 (White) 115 kV transmission line with 1351 ACSR at 100°C.

Supporting Statement: The loss of the Gainesville #1 – Gainesville #2 (Black) 115 kV transmission line causes the Gainesville # 2 – Eureka Junction section of the Gainesville #1 – Gainesville #2 (White) 115 kV transmission line to exceed its thermal rating.

EAST PROJECTS

In Year: 2020

Project Name: **GAINESVILLE #2 – MCEVER ROAD 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 5.3 miles with 1033 ACSR at 100°C along the Gainesville #2 – McEver Rd 115 kV transmission line.

Supporting Statement: The loss of the Gainesville #1 – Linwood line segment will overload Chicopee – Gainesville #2–2 line segment and the Chicopee – Oakwood line segment of the Gainesville #2 – McEver Rd 115 kV transmission line.

In Year: 2020

Project Name: **LAWRENCEVILLE – LAWRENCEVILLE #4 115 KV TAP**

Description: Reconductor approximately 1.05 miles of 336 ACSR 115 kV transmission line from Lawrenceville – North Lawrenceville with a 1000 A rated conductor or greater. Replace jumpers at Lawrenceville.

Supporting Statement: The loss of the Lawrenceville #4 tap and subsequent switching needed to serve load causes the Lawrenceville – North Lawrenceville 115 kV transmission line section to become overloaded.

In Year: 2020

Project Name: **LAWRENCEVILLE – NORTH AWRF 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.5 miles of 115 kV transmission line along the Exit 44 – North AWRF section of the Lawrenceville – North AWRF 115 kV transmission line.

Supporting Statement: The loss of the Suwanee 230 / 115 kV transformer causes the Exit 44 – North AWRF section of the Lawrenceville – North AWRF 115 kV transmission line to exceed its thermal rating.

In Year: 2020

Project Name: **LAWRENCEVILLE – WINDER 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.2 miles of 636 ACSR 115 kV transmission line from Winder – Johns Manville with 795 ACSS at 160°C.

Supporting Statement: The loss of sections of the Lawrenceville – Winder 230 kV transmission line will overload the Winder – Johns Manville section of the line.

In Year: 2020

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

Description: Install a 60 MVAR, 115 kV capacitor bank at Locust Grove 115 kV Substation.

Supporting Statement: Area voltage support.

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: Voltage support on the Watkinsville 115 kV bus for the loss of the East Watkinsville – Watkinsville 115 kV transmission line section.

In Year: 2020

Project Name: **MCCONNELL ROAD – VILLA RICA 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 4.1 miles of 636 ACSR 115 kV transmission line along the McConnell Road – Highway 120 section of the McConnell Road – Villa Rica 115 kV transmission line with 1351 ACSR.

Supporting Statement: The loss of the Villa Rica – New Georgia section of the McConnell – Villa Rica 115 kV transmission line causes the McConnell Road – Highway 120 115 kV section of the line to exceed its thermal rating.

In Year: 2020

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: 2020

Project Name: **NORTH AMERICUS – NORTH TIFTON 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 11.64 miles of the Crisp #2 to Doles section of the North Americus – North Tifton 115 kV transmission line from 50°C operation to 100°C.

Supporting Statement: The loss of the North Tifton 500 / 230 Transformer causes the Crisp #2 – Doles Junction section of the North Americus – North Tifton 115 kV transmission line to become overloaded.

In Year: 2020

Project Name: **POSSUM BRANCH 115 KV CAPACITOR BANK**

Description: Install a 90 MVAR, 115 kV capacitor bank

Supporting Statement: Area voltage support.

EAST PROJECTS

In Year: 2020

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 a bonus rating of 364 MVA on the Scottdale 230 / 115 kV transformer.

In Year: 2020

Project Name: **SOUTH CLEVELAND 115 KV CAPACITOR BANK**

Description: Increase the two capacitor banks at South Cleveland from 15 MVAR each to 45 MVAR each.

Supporting Statement: Area voltage support.

In Year: 2020

Project Name: **WAYNESBORO – WILSON 230 KV TRANSMISSION LINE**

Description: At Waynesboro Primary, replace the 2000 A breaker, switches, and line trap with 3000 A equipment on the Wilson 230 kV transmission line

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV transmission line, with Hatch Unit #1 offline, causes terminal equipment along the Waynesboro – Wilson 230 kV transmission line to exceed its thermal rating.

Section 2.

PRELIMINARY 10 YEAR EXPANSION PLAN

WEST

WEST PROJECTS

In Year:	2012
Project Name:	**BARNWELL TAP – BARNWELL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.03 miles with 795 26/7 ACSR at 100°C along the Barnwell Tap – Barnwell 115 kV transmission line.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, overloads the Barnwell Tap – Barnwell 115 kV transmission line.

In Year:	2012
Project Name:	**BIG CREEK SUBSTATION (MOBILE AREA 115 KV NETWORKING)**
Description:	Install a 115 kV line terminal for the North Mobile #3 line at Big Creek Substation. Install network relaying on the North Theodore 115 kV transmission line.
Supporting Statement:	Network improvement.

In Year:	2012
Project Name:	**SILVERHILL – FOLEY "B" 115 KV TRANSMISSION LINE**
Description:	Relocate the Foley end of the Silverhill – Foley “B” 115 kV transmission line and terminate it into the Turkey Hill Switching Station
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist #7 offline, overloads the Silverhill – Magnolia 115 kV transmission line.

In Year:	2012
Project Name:	**GASTON – ROOPVILLE 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 72 miles of 1351 ACSR along the section of the Gaston SP to Roopville SS 230 kV transmission line that is within Alabama to 100 ºC operation.
Supporting Statement:	With the MEAG Wansley (Yellow Dirt) Unit offline, the loss of the Conasauga – Mosteller Springs 500 kV transmission line causes the Gaston – Roopville section of the Gaston – Yellow Dirt 230 kV transmission line to exceed its thermal rating.

WEST PROJECTS

In Year:	2012
Project Name:	**GOLDEN SPRINGS – ANNISTON TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.84 miles with 795 26/7 ACSR at 100°C along the Golden Springs to Anniston Tap 115 kV transmission line.
Supporting Statement:	The loss of the Autaugaville – Snowdoun 500 kV transmission line causes the Golden Springs – Anniston Tap 115 kV transmission line to exceed its thermal rating.

In Year:	2012
Project Name:	**MONTGOMERY SS – SOUTH MONTGOMERY 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 7.71 miles with 1351 54/19 ACSS at 160 ºC along the Montgomery SS to South Montgomery 230 kV transmission line.
Supporting Statement:	The loss of the Snowdoun – Autaugaville 500 kV transmission line, with Farley Unit #2 offline, causes the Montgomery SS – South Montgomery 230 kV transmission line to become overloaded when the Autaugaville 500/230 kV transformer in 2013.

In Year:	2012
Project Name:	**HATTIESBURG NORTH – PETAL GEORGE STREET 115 KV TRANSMISSION LINE**
Description:	Replace the 600 A switches at Hattiesburg North and Petal George Street substations with 1200 A switches.
Supporting Statement:	The loss of the Hattiesburg Southwest – Highway 11 115 kV transmission line overloads the terminal equipment at Hattiesburg North and Petal George Street substations.

In Year:	2012
Project Name:	**SMITH – LAGUNA BEACH 115 KV TRANSMISSION LINE**
Description:	Reconductor the Smith – Laguna Beach 115 kV transmission line with 1351 ACSR constructed at 230 kV specifications.
Supporting Statement:	The loss of the Laguna Beach 230 / 115 kV Transformer, with Crist Unit #7 offline, causes the Smith – Laguna Beach 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2012
Project Name:	**PINE FOREST – MOLINO 115 KV TRANSMISSION LINE**
Description:	Reconductor the Pine Forest – Molino 115 kV transmission line with 1033 ACSR at 100°C.
Supporting Statement:	The loss of the Barry SP – Crist SP 230 kV transmission line, with Crist Unit #1 offline, causes the Pine Forest – Molino 115 kV transmission line to become overloaded.

In Year:	2012
Project Name:	**GOULDING – OAKFIELD 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.35 miles of 336 ACSR 115 kV transmission line from Goulding – Oakfield with 1033 ACSR and replace 600 A switches on the Oakfield terminal at Goulding.
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:	**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 / 115kV Transformer at Greene County SP causes the South Tuscaloosa – Eutaw 115kV transmission line to become overloaded.

In Year:	2013
Project Name:	**PINCKARD – SLOCOMB 115 KV TRANSMISSION LINE**
Description:	Reconductor the 12.5 mile Pinckard TS – Slocomb TS 115 kV transmission line 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 to become overloaded.

WEST PROJECTS

In Year:	2013
Project Name:	**AUTAUGAVILLE 500 / 230 KV SUBSTATION**
Description:	Install a new 2016 MVA 500 / 230 kV Transformer at Autaugaville and construct 1.3 miles of 230 kV transmission line.
Supporting Statement:	The loss of the Snowdoun – Autaugaville 500 kV transmission line, with Harris Unit #1 offline, causes the Gaston – County Line Road 230 kV transmission line to become overloaded.

In Year:	2013
Project Name:	**SOUTH MONTGOMERY – PINEDALE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.45 miles with 795 26/7 ACSR at 100 ºC along the South Montgomery to 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.

In Year:	2013
Project Name:	**WEST MONTGOMERY 115 KV TRANSMISSION LINES RECONFIGURE**
Description:	Reconfigure the Weil 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:	**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 115kV 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.

WEST PROJECTS

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:	**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.

In Year:	2013
Project Name:	**PLANT EATON SUBSTATION**
Description:	Replace all 600 A switches and copper jumpers at Plant Eaton substation
Supporting Statement:	The loss of the Hattiesburg SW – Hwy 11 115 kV transmission line overloads the jumpers at Eaton.

WEST PROJECTS

In Year:	2013
Project Name:	**MERIDIAN NE 230 / 115 KV SUBSTATION**
Description:	Replace both Meridian NE 230 / 115 kV transformer with 400 MVA transformers
Supporting Statement:	The loss of one 230 / 115 kV transformer at Meridian NE causes the other transformer 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:	**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:	**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:	2014
Project Name:	**EPES – EUTAW 115 KV TRANSMISSION LINE**
Description:	Construct approximately 22.5 miles of 1033 54/7 ACSS at 160 ºC 115 kV transmission line from Epes – Eutaw.
Supporting Statement:	The loss of Duncanville – Bradley Road 230 kV transmission line, with Gorgas Unit #10 offline, causes the Green County – Eutaw 115kV transmission line to become overloaded.

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 creates thermal loading issues on the southern end of the Anniston – Crooked Creek 115 kV transmission line. This contingency also causes voltage problems throughout the Anniston area.

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 Improvement.

WEST PROJECTS

In Year:	2014
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 115kV Tap 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 Improvement.

In Year:	2014
Project Name:	**PINCKARD – FORT RUCKER NORTH 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.32 miles along the Pinckard to Fort Rucker North 115 kV transmission line 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:	**NORTH SELMA – INTERNATIONAL PAPER TAP 115 KV TRANSMISSION LINE**
Description:	Construct a new 115 kV Double Circuit from North Selma TS – International Paper Tap. 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 cause voltage issues in the Selma area and thermal constraints on the West Selma – South Selma 115 kV transmission line and the South Selma – Alamet Tap 115 kV transmission line.

WEST PROJECTS

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:	**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:	**BYNUM – ANNISTON 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 6.0 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 Hammond Unit #4 offline, causes the Bynum – Anniston 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**SNOWDOUN – PIKE COUNTY 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 32.42 miles with 1351 54/19 ACSS at 160 ºC 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.

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 to Highway 11 115 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 Southwest – West 7th Street 115 kV transmission line causes the parallel circuit to become overloaded.

In Year:	2014
Project Name:	**LAUREL NORTH – HEIDELBERG 115 KV TRANSMISSION LINE**
Description:	Reconductor the Laurel North to Heidelberg 115 kV transmission line with 795 ACSR at 100° C and replace switches and jumpers at Laurel North and one switch at Heidelberg.
Supporting Statement:	The loss of the Plant Sweatt to Clarkedale Tap 115 kV transmission line causes the Laurel North – Heidelberg 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**OCEAN SPRINGS SUBSTATION**
Description:	Install a 2nd 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.

WEST PROJECTS

In Year:	2014
Project Name:	**KILN CAPACITOR BANK**
Description:	Install a 120 MVAR 230 kV Capacitor Bank at Kiln Substation.
Supporting Statement:	Area 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:	Area voltage support.

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

WEST PROJECTS

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:	**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 of 795 ACSS at 160 ºC 115 kV transmission line from South Enterprise TS to Enterprise TS.
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 exceed its thermal rating.

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 improvement.

WEST PROJECTS

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 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 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 reconductored Crichton 115 kV transmission line between North Mobile and new North Crichton Switching Station. Install a Trancrupter at Wolf Ridge DS and retire the high side fuse.
Supporting Statement:	Network 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 improvement.

WEST PROJECTS

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 improvement.

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 improvement.

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 improvement.

In Year:	2015
Project Name:	**BARRY – CHICKASAW 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 19.18 miles with bundled (2) 959 TW/ACSS at 150 ºC along the Barry S.P. – Chickasaw 230 kV transmission line.
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 exceed its thermal rating.

WEST PROJECTS

In Year:	2015
Project Name:	**MARIANNA – HIGHLAND CITY 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.98 miles with 1033 ACSR at 100 ºC along the Marianna – Alford Tap section of the Marianna – Highland City 115 kV transmission line.
Supporting Statement:	The loss of the Sinai – Smith SP 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:	**TUSCALOOSA AREA IMPROVEMENT**
Description:	Convert 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 Moundville to Big Sandy/Englewood Tap. Install a 230 / 115 kV Transformer at South Duncanville and construct a new 115 kV transmission line from Moundville to South Duncanville.
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. It also resolves low voltage concerns experienced at several 115 kV buses in the Tuscaloosa area as a result of the loss of the Duncanville – Bradley Road 230 kV transmission line.

In Year:	2015
Project Name:	**MERIDIAN – SWEATT #1 115 KV TRANSMISSION LINE**
Description:	Rebuild Meridian Transmission to Plant Sweatt #1 115 kV line with 795 ACSR (where line segments are not 477 ACSR) and replace switches and jumpers
Supporting Statement:	The loss of the Sweatt 230 / 115 kV transformer, with Watson Unit #5 offline, causes the Meridian – Sweatt #1 115 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 banks. 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:	**BARRY SP – CRIST SP 230 KV TRANSMISSION LINE**
Description:	Upgrade the Barry SP – Crist SP 230 kV transmission line to 125°C operation.
Supporting Statement:	The loss of Barry S.P. – Chickasaw 230 kV transmission line, with Crist Unit #7 offline, causes the Barry S.P. – Crist S.P. 230 kV transmission line 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:	**HENRY DAM – CEDAR BEND 115 KV TRANSMISSION LINE**
Description:	Upgrade 9.03 miles of 397 ACSR 115 kV transmission line from Henry Dam to Cedar Bend 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 – Cedar Bend 115 kV transmission line to exceed its thermal rating.

WEST PROJECTS

In Year:	2016
Project Name:	**TUSCALOOSA AREA IMPROVEMENT**
Description:	Install a new 1033 ACSS 115 kV transmission line at 200 ºC from Englewood – South Tuscaloosa. 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.

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

In Year:	2016
Project Name:	**SOUTH TUSCALOOSA – HARGROOVE – COTTONDALE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.2 miles with 1033 54/7 ACSS at 160 ºC along the South Tuscaloosa – Hargrove – Cottondale 115 kV transmission line.
Supporting Statement:	The loss of the South Tuscaloosa – Kaul Tap 115kV transmission line, with Gorgas Unit #10 offline, causes the South Tuscaloosa – Cottondale 115kV transmission line to become overloaded.

In Year:	2016
Project Name:	**BARRY SP – NORTH MOBILE #2 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 20.42 miles with 1351 54/19 ACSR along the Barry – North Mobile #2 115 kV transmission line.
Supporting Statement:	The loss of the Barry – Chickasaw 230 kV transmission line, with Crist Unit #7 offline, causes the Barry – North Mobile #2 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2016
Project Name:	**BILOXI OAK STREET 115 KV TRANSMISSION LINE**
Description:	Construct a new 115 kV transmission line to a new substation serving area load growth. Tap the Percy Street to Keesler 115 kV transmission line and loop the line to the new East Biloxi Substation. 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:	**GOLDEN SPRINGS – CHEAHA TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.79 miles of 397 ACSR at 75 ºC with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Anniston – Goshen 230 kV transmission line causes the Golden Springs – Cheaha Tap 115 kV transmission line section to exceed its thermal rating.

In Year:	2017
Project Name:	**GORGAS – TAFT COAL – JASPER TAP 161 KV TRANSMISSION LINE**
Description:	Reconductor approximately 13.81 miles along the Gorgas – Taft Coal – Jasper Tap 161 kV transmission line with 397 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 exceed its thermal rating.

In Year:	2017
Project Name:	**PRATTVILLE AREA SOLUTION**
Description:	Construct a new 6.5 mile 115 kV transmission line from County Line Road to the Prattville area with 795 ACSR at 100 ºC. Construct a new 115 kV switching station at GE Burkville Tap.
Supporting Statement:	The loss of the West Montgomery – Montgomery 230 kV transmission line, with Lowndes County Generation offline, causes the County Line Road – East Prattville 115 kV transmission line to exceed its thermal rating.

WEST PROJECTS

In Year:	2017
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 115kV Tap to become overloaded.

In Year:	2017
Project Name:	**AIRPORT SUBSTATION**
Description:	Construct approximately 1.75 miles of 795 ACSR 115 kV transmission line at 100° C from Airport Substation – Hunt Oil.
Supporting Statement:	Network Reliability Improvement.

In Year:	2017
Project Name:	**HURRICANE CREEK – WIGGINS 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 8.85 miles with 795 ACSR along the Hurricane Creek – Wiggins 115 kV transmission line. Replace the 600 A switches and 795 ACSR jumpers at Wiggins Switching Station.
Supporting Statement:	The loss of the Gulfport Landon – Hwy 53 115 kV line segment overloads the Hurricane Creek - Wiggins 115kV line segment when serving load radially from the north.

In Year:	2018
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 115kV transmission line causes the terminal equipment at Kimberly Clark on the Kimberly Clark – Chickasaw 115kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2018
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 115kV transmission line causes the terminal equipment at Blakely Island on the Kimberly Clark – Blakely Island 115kV transmission line to become overloaded.

In Year:	2018
Project Name:	**CHICASAW 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 115kV transmission line causes the terminal equipment at Chickasaw on the Kimberly Clark – Chickasaw 115kV transmission line to become overloaded.

In Year:	2018
Project Name:	**LEEDS – WESTBURY 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 8.0 miles of 1033 45/7 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:	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 SP – Pace circuit #2 115 kV transmission line, with Lansing Smith Unit #3 offline, causes the Holt – Crestview 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2018
Project Name:	**SILVERHILL SUBSTATION**
Description:	Install a 3rd 230 / 115 kV Autobank (400 MVA) at Silverhill TS
Supporting Statement:	The loss of Silverhill 230 / 115 kV Autobank #1, with Daniel Unit #1 offline, overloads the Silverhill 230 / 115 kV Autobank #2.

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 #7 offline, requires additional voltage support at Foley Switching Station.

In Year:	2018
Project Name:	**BARNWELL TAP – TURKEY HILL 115 KV TRANSMISSION LINE**
Description:	Construct approximately 2.73 miles of 795 ACSR 115 kV transmission line at 100 ºC from Barnwell Tap – 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 #7 offline, causes the Silverhill – Magnolia 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 #7 offline, causes the Fish River Tap – Fairhope 115 kV transmission line to become overloaded.

WEST PROJECTS

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 #7 offline, causes the Point Clear Tap – Fairhope 115 kV transmission line to become overloaded.

In Year:	2018
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 line segment overloads this line segment when serving load radially from Wiggins.

In Year:	2019
Project Name:	**THEODORE TS – SOUTH IRVINGTON DS 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 1.41 miles of 115 kV transmission line from Theodore TS – South Irvington DS to 100 ºC operation.
Supporting Statement:	The loss of the North Theodore 230 / 115 kV transformer #2, with Theodore Unit #1 offline, causes the Theodore TS – South Irvington DS 115 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:	**POWER SYSTEMS DEVELOPMENT FACILITY – COUNTY LINE ROAD 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 51.0 miles of 230 kV transmission line from Power Systems Development Facility – 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 Power Systems Development Facility – County Line Road 230 kV transmission line to become overloaded.

In Year:	2019
Project Name:	**DEMOPOLIS – MARION TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 27.0 miles of 115 kV transmission line from Demopolis – Marion Tap with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Greene County – North Selma 230 kV transmission line causes the Demopolis – Marion Tap 115 kV transmission line to become overloaded.

In Year:	2019
Project Name:	**CHICKASAW – BLAKELEY ISLAND 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.57 miles of existing 795 ACSR 115 kV transmission line at 100 ºC with 1033 ACSS at 160 ºC from Chickasaw – Blakeley Island.
Supporting Statement:	The loss of the One Mile Tap – Chickasabogue 115 kV transmission line, with Crist Unit #7 offline, causes the Chickasaw – Blakeley Island 115 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 795 ACSS 115 kV transmission line from North Brewton TS – North Brewton DS.
Supporting Statement:	The loss of Barry SP – Stockton Tap 115 kV transmission line, with Crist Unit #7 offline, causes the N. Brewton TS – Brewton Tap 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2020
Project Name:	**BREWTON TAP – FLOMATON 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 12.98 miles along the Brewton Tap – Flomaton 115 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of the Barry – Stockton Tap 115 kV TL, with Crist Unit #7 offline, causes the Brewton Tap – Flomaton 115 kV transmission line to become overloaded.

In Year:	2020
Project Name:	**BELLWOOD – MT. MEIGS 115 KV TRANSMISSION LINE**
Description:	Construct approximately 4.5 miles of 795 26/7 ACSR at 100 ºC 115 kV transmission line from Bellwood – Mt. Meigs.
Supporting Statement:	The loss of the Madison Park – AUM Tap 115kV transmission line, with Farley Unit #1 offline, causes low voltage conditions.

In Year:	2020
Project Name:	**COLUMBUS 1ST AVENUE – PHENIX 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 1.33 miles of the Columbus 1st Avenue – Phenix D.S. 115 kV transmission line with 795 26/7 ACSR at 100 ºC.
Supporting Statement:	The loss of the Goat Rock – Fuller Road 230 kV transmission line, with Harris Unit #1 offline, causes the Phenix City – Columbus First Avenue 115kV transmission line to become overloaded.

In Year:	2020
Project Name:	**CHACE LAKE – CHACE LAKE #2 115 KV TRANSMISSION LINE**
Description:	Construct approximately 3.75 miles of new 115 kV transmission line from Chace Lake DS to a new tap point on the North Helena – Patton Chapel 115 kV transmission line.
Supporting Statement:	The loss of the South Jefferson – Bluelake 115 kV transmission line, with Gaston Unit #5 offline, causes the North Helena – Valleydale 34 115 kV transmission line to become overloaded and vice versa.

WEST PROJECTS

In Year:	2020
Project Name:	**TUSCALOOSA AREA IMPROVEMENT**
Description:	Install approximately 2.8 miles of new 1033 ACSS at 200 ºC 115kV transmission line from South Duncanville 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 397 ACSR at 100 ºC.
Supporting Statement:	The loss of the Greene County – South Duncanville 230kV transmission line, with Gorgas Unit #10 offline, causes the Colonial Pipeline (Moundville) – Eutaw 115kV transmission line to become overloaded.

In Year:	2020
Project Name:	**ALLIGATOR SWAMP SUBSTATION**
Description:	Install a 100 MVAR 230 kV filtered capacitor bank at Alligator Swamp Substation.
Supporting Statement:	Area voltage support.

WEST PROJECTS

SMEPA

In Year:	2012
Project Name:	**MOSELLE 161 KV GENERATION EXPANSION AND REPOWER**
Description:	Add 2– 83MW Combustion Turbines at SMEPA's Moselle Generation Station and Re–power Steam Units with HRSGs
Supporting Statement:	Generation Deficient in 2012.

In Year:	2012
Project Name:	**PRENTISS 161 / 69 KV SUBSTATION**
Description:	Tap Silver Creek Interconnection and build Prentiss 161 / 69 kV substation
Supporting Statement:	69 kV under voltages and line overloads during 69 kV contingency. 69 kV Transmission Capacity problem

In Year:	2014
Project Name:	**SOUTH HOY 161 KV SOURCE**
Description:	Build 161 / 69 kV Substation at South Hoy. Build 161 kV Line Moselle to South Hoy.
Supporting Statement:	69 kV Low voltages and line overloads during 69 kV Contingency

In Year:	2017
Project Name:	**EAST WAYNESBORO 230 / 69 KV SUBSTATION**
Description:	Tap the 230 kV PowerSouth Interconnection Line 230 and build the East Waynesboro 230 / 69 kV substation. Tap the 69 kV Line 23 and upgrade supporting 69 kV transmission.
Supporting Statement:	69 kV contingencies in area cause 69 kV under voltages and overloads. 69 kV Transmission capacity problem.

POWERSOUTH

In Year:	2012
Project Name:	**BALDWIN COUNTY PROJECT**
Description:	Construct Miflin Junction - Florida Ave 115 kV transmission line 1033 ACSS with one mile underground cable water crossing. Construct Miflin Switching Station. Thermal uprate of Miflin Junction - Wolf Bay. 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:	2012
Project Name:	**CLIO AREA PROJECT**
Description:	1) Construct 14 mile Texasville Junction – Judson 115kV transmission line 795 ACSR 2) Upgrade the Brundidge - Clio 115 kV Transmission Line to 100 ºC operation.
Supporting Statement:	This is a project to uprate aging lines to handle more loading under contingency conditions and to provide an additional source for a radial load.

In Year:	2013
Project Name:	**BREWTON / ATMORE AREA 115 KV CONVERSION**
Description:	Upgrade approximately 40 miles of 46kV to 115kV 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. We have chosen to fix both problems by providing a parallel 115kV path that eliminates the overload and assures that the voltage is supported for the loss of 2 sources.

WEST PROJECTS

In Year:	2013
Project Name:	**TURKEY HILL SS**
Description:	Upgrade Turkey Hill Switching Station to a 6 terminal Ring Bus.
Supporting Statement:	This is part of the Baldwin County Improvement Project. This project involves constructing a 6 terminal ring bus on the existing site, terminating APCO's two lines currently at Foley Tap into this station and moving PowerSouth's two lines into the new bus. This new bus configuration will eliminate a single point of failure that exists at the current time and increase reliability to the area.