Southeastern Regional Transmission Planning Process

PRELIMINARY 10 YEAR EXPANSION PLAN

Original: June 13, 2013

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[1]The projects described in this document represent the current ten year expansion plan. The expansion plan is periodically reviewed and may be revised due to changes in assumptions. This document does not represent a commitment to build for projects listed in the future.

Section 1.

10 YEAR EXPANSION PLAN

EAST

EAST PROJECTS

In Year: 2014

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

Description: Reconfigure the Bremen – Hickory Level 115 kV white transmission line so that it terminates at Bremen Bus #2 as opposed to Bus #1.

Supporting Statement: The loss of the Bremen 115 kV bus tie causes the Hickory Level – Possum Branch 115 kV transmission line to become overloaded and also results in a need for additional voltage support along the Bremen – South Tallapoosa 115 kV transmission line.

In Year: 2014

Project Name: **DAWSON CROSSING – GAINESVILLE #1 115 KV TRANSMISSION LINE**

Description: Rebuild the 6.35 mile, 100°C 336.4 ACSR, Leach Road – Gainesville #1 section of the Dawson Crossing – Gainesville #1 115 kV transmission line with 100°C 795 ACSR Drake conductor. Replace the 600 A switch with a 1200 A switch and replace the 350 Cu jumpers at Gainesville #1 with 1590 AAC jumpers.

Supporting Statement: The loss of the South Hall 500 / 230 kV transformer causes the Dawsonville – Gainesville #1 sections of the Dawson Crossing – Gainesville #1 115 kV line to become overloaded.

In Year: 2014

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

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

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

In Year: 2014

Project Name: **DRESDEN AREA PROJECT**

Description: Construct approximately 6.3 miles of new 500 kV transmission line between Heard County and Dresden. Remove the two parallel 2%, 230 kV reactors on the low side of the 500 / 230 kV transformer "A" at Villa Rica substation. Loop the existing Wansley – O'Hara 500 kV transmission line into the expanded Dresden 500 / 230 kV substation to allow it to cross the new Heard County – Dresden 500 kV line. Install 2% reactors on the Dresden – Yates 230 kV transmission line.

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

EAST PROJECTS

In Year: 2014

Project Name: **DYER ROAD SUBSTATION**

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

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

In Year: 2014

Project Name: **FORT BENNING #2 CAPACITOR BANK**

Description: At the Fort Benning #2 substation, install a 115 kV, 15 MVAR capacitor bank.

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

In Year: 2014

Project Name: **JUDY MOUNTAIN SUBSTATION**

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

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

In Year: 2014

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

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

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

In Year: 2014

Project Name: **YATES SUBSTATION**

Description: Replace eight 230 kV breakers at Plant Yates.

Supporting Statement: Breaker improvement.

EAST PROJECTS

In Year: 2015

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

Description: Construct the Gamble Road 230 / 115 kV substation with a 400 MVA transformer and 60 MVAR, 115 kV capacitor bank. At the new substation, terminate the Little Ogeechee Black/White 115 kV transmission lines, the Boulevard Black/White 115 kV transmission lines, and the Dean Forest 115 kV and 230 kV transmission lines. Construct a new 230 kV substation, Cemetary Hill, and loop in the Kraft – McIntosh White 230 kV transmission line. Construct approximately 5.5 miles of new 230 kV transmission line from Cemetery Hill to Dean Forest with 1351 ACSS at 170 °C. At Dean Forest substation, expand the 230 kV ring bus and terminate the Gamble Road 115 and 230 kV transmission lines as well as the Cemetery Hill 230 kV transmission line. Rebuild the Dean Forest – Gamble Road 115 kV transmission lines with 1351 ACSS at 170 °C and convert one to 230 kV operation.

Supporting Statement: The loss of one Kraft 230 / 115 kV transformer causes the other to become overloaded. The loss of one Deptford – Kraft 115 kV transmission line causes the parallel line to become overloaded. Project also provides additional voltage support in the Savannah area.

In Year: 2015

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

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

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

In Year: 2015

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

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

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

EAST PROJECTS

In Year: 2015

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

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

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

In Year: 2015

Project Name: **MCINTOSH – PURRYSBURG #2 230 KV TRANSMISSION LINE**

Description: Connect the second Purrysburg (SCPSA) 230 kV tie line to the McIntosh 230 / 115 kV substation and terminate the McIntosh CC #11 line from West McIntosh to McIntosh.

Supporting Statement: The loss of the McIntosh – Purrysburg (SCPSA) 230 kV transmission line causes the Mcintosh 230 / 115 kV transformer and the McIntosh – Yemassee (SCE&G) 115 kV transmission line to become overloaded. Also, the loss of a McIntosh – West Mcintosh 230 kV transmission line will cause the other McIntosh – West Mcintosh 230 kV transmission line to become overloaded.

In Year: 2015

Project Name: **NORTH TIFTON SUBSTATION**

Description: Replace the existing 1344 MVA 500 / 230 kV transformer with a 2016 MVA 500 / 230 kV transformer.

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

In Year: 2015

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

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

Supporting Statement: The loss of the Kraft 115 / 46 kV transformer, with a Kraft 46 kV generating unit offline, causes a need for additional voltage support.

In Year: 2016

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

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

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

EAST PROJECTS

In Year: 2016

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

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

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

In Year: 2016

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

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

Supporting Statement: The loss of the Cartersville end of the Cartersville – Cartersville #11 115 kV transmission line causes a need for additional voltage support.

In Year: 2016

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

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

Supporting Statement: The loss of the Thomson Primary – East Thomson segment of the Thomson Primary – Warrenton Primary 115 kV Black line causes a need for additional voltage support.

In Year: 2017

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 at 100 °C.

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.

EAST PROJECTS

In Year: 2017

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

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

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

In Year: 2017

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

Description: Construct approximately 55.0 miles of new 500 kV transmission line from Plant Vogtle to the Thomson Primary 500 / 230 kV substation.

Supporting Statement: Needed to support the expansion of Plant Vogtle.

In Year: 2018

Project Name: **CAGLES SUBSTATION**

Description: Replace the 350 AAC jumpers at Cagles 115 kV substation with 1590 AAC jumpers.

Supporting Statement: The loss of Bonaire Primary – Highway 96 section of the Bonaire Primary – Perry 115 kV transmission line causes terminal equipment at Cagles on the Kathleen – Perry 115 kV transmission line to become overloaded.

In Year: 2018

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

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

Supporting Statement: The loss of the Vidalia – Loop Road section of the Claxton – Vidalia 115 kV transmission line causes the Claxton – Statesboro 115 kV transmission line to become overloaded.

In Year: 2018

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

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

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

EAST PROJECTS

In Year: 2018

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

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

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

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In Year: 2018

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

Description: Rebuild approximately 5.6 miles along the South Covington Junction – Jackson Lake section of the Lloyd – Porterdale 115 kV transmission line with 795 ACSR at 100 °C.

Supporting Statement: The loss of the South Griffin end of the Lloyd Shoals – South Griffin 115 kV transmission line causes the Jackson Lake – South Covington Junction section of the Lloyd Shoals – Porterdale 115 kV transmission line to become overloaded.

In Year: 2018

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 on the Barnesville – South Griffin 115 kV transmission line causes a need for additional voltage support.

In Year: 2018

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

Description: Construct a new 500 kV substation on the Vogtle – Warthen 500 kV transmission line. Install a 2016 MVA, 500 / 230 kV transformer that ties to the Wadley 230 kV bus. Upgrade the 230 kV bus at Wadley with 2–1590 AAC.

Supporting Statement: Project to enhance reliability in the Augusta area and to support the expansion of Plant Vogtle.

In Year: 2019

Project Name: **ANTHONY SHOALS – WASHINGTON 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 15.1 miles along the Anthony Shoals – Buckhead Point – Double Branches Tap 115 kV sections with 795 ACSR at 100 °C. Replace the line switch at Delhi Tap with a 2000 A switch.

Supporting Statement: The loss of the Thurmond Dam – Double Branches 115 kV section causes the Anthony Shoals – Buckhead Point – Double Branches Tap 115 kV sections to become overloaded under load restoration conditions.

EAST PROJECTS

In Year: 2019

Project Name: **BAXLEY – SOUTH HAZLEHURST 115 KV TRANSMISSION LINE**

Description: At Pine Grove substation, replace the 115kV bus as well as the line switch and jumpers on the Baxley – South Hazlehurst 115 kV transmission line.

Supporting Statement: The loss of the East Vidalia – West Lyons section of the Baxley – Vidalia 115 kV transmission line causes the bus and terminal equipment at Pine Grove to become overloaded.

In Year: 2019

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

Description: Reconductor approximately 5.9 miles of existing 336 ACSR 115 kV transmission line from Bonaire – Kathleen with 795 ACSR at 100° C.

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

In Year: 2019

Project Name: **BONAIRE SUBSTATION**

Description: Replace the 115 kV, 600 A switches and 500 CU jumpers at Bonaire on the Bonaire – Eastman 115 kV transmission line with 1200 A switches and 1590 jumpers.

Supporting Statement: The loss of the Bonaire Primary – Hatch 500 kV transmission line causes the terminal equipment at Bonaire on the Bonaire Primary – Eastman Primary 115 kV transmission line to become overloaded.

In Year: 2019

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

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

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

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 Meldrim 115 / 46 kV transformer or the Meldrim – Rossignol Hill 46 kV transmission line causes a need for additional voltage support.

EAST PROJECTS

In Year: 2019

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

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

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

In Year: 2019

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

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

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

In Year: 2019

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

Description: Reconductor approximately 8.9 miles from South Columbus to Fort Mitchell Junction and Fort Mitchell Junction to Fort Benning #2 along the Dawson Primary – South Columbus 115 kV transmission line with 795 ACSR at 100 °C.

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

In Year: 2019

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

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

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

EAST PROJECTS

In Year: 2019

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 at 100 °C.

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

In Year: 2019

Project Name: **EAST POINT SUBSTATION**

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

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

In Year: 2019

Project Name: **EAST VIDALIA SUBSTATION**

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

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

In Year: 2019

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

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

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

In Year: 2019

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

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

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

EAST PROJECTS

In Year: 2019

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

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

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

In Year: 2019

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

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

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

In Year: 2019

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

Description: Reconductor approximately 23 .0 miles along the Hatch – Vidalia 230 kV transmission line with 1033 ACSS at 170 °C. At Vidalia, replace the 800 CU jumpers with 2–1590 AAC jumpers, the 1200 A switches with 2000 A switches and the main 1590 AAC bus with 3" AL Tube bus. At Hatch, replace the 1590 AAC jumpers with 2–1590 AAC jumpers.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV transmission line causes the Hatch – Vidalia 230 kV transmission line to become overloaded.

In Year: 2019

Project Name: **JUDY MOUNTAIN – ROME 115 KV TRANSMISSION LINE**

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

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

In Year: 2019

Project Name: **LITTLE OGEECHEE 230 KV CAPACITOR BANK**

Description: Install a 120 MVAR, 230 kV capacitor bank at the Little Ogeechee 230 / 115 kV substation.

Supporting Statement: The loss of a McIntosh – West McIntosh 230 kV transmission line causes a need for additional voltage support in the Savannah and Hinesville areas.

EAST PROJECTS

In Year: 2019

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

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

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

In Year: 2019

Project Name: **NORTH TIFTON SUBSTATION**

Description: Replace 500 CU jumpers at North Tifton along the Moultrie – North Tifton 115 kV transmission line with 750 CU jumpers.

Supporting Statement: The loss of North Tifton – East Moultrie transmission line causes the North Tifton – Tifton Junction section of the Moultrie – North Tifton 115 kV transmission line to become overloaded.

In Year: 2019

Project Name: **OFFERMAN SUBSTATION**

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

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

In Year: 2019

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

Description: Reconductor approximately 8.8 miles of 230 kV transmission line from Raccoon Creek to Cotton along the Raccoon Creek – Thomasville 230 kV transmission line with 1033 ACSS at 170 °C. Replace 1600 A switches and 1590 AAC jumpers at Cotton Primary with 2000 A switches and 2500 AAC jumpers.

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

EAST PROJECTS

In Year: 2019

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

Description: Construct a new 6.6 mile, 230 kV transmission line from Cumming to Sharon Springs with 1351 ACSR at 100 °C. Install a 230 / 115 kV, 300 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 section of the Hopewell – Suwanee 115 kV transmission line overloads the Suwanee – Old Atlanta Road section 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: 2019

Project Name: **STATESBORO – WADLEY 115 KV TRANSMISSION LINE**

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

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV transmission line causes the Nunez tap – Stillmore – Metter section of the Statesboro – Wadley 115 kV transmission line to become overloaded.

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.

In Year: 2020

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 section 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 under load restoration conditions.

EAST PROJECTS

In Year: 2020

Project Name: **DEAN FOREST 230 KV CAPACITOR BANK**

Description: Install a 120 MVAR, 230 kV capacitor bank at the Dean Forest substation.

Supporting Statement: The loss of a McIntosh – West McIntosh 230 kV transmission line causes a need for additional voltage support in the Savannah and Hinesville areas.

In Year: 2020

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

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

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

In Year: 2020

Project Name: **YATES SUBSTATION**

Description: Replace the 115 kV bus at Yates with buswork capable of at least 2000 A.

Supporting Statement: The loss of either of the Dyer Road – Yates 115 kV transmission lines, causes the Yates 115 kV bus to become overloaded.

In Year: 2021

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

Description: Reconductor approximately 1.99 miles along the Sleepy Hollow – Peach Blossom 115 kV transmission line section of the Aultman Road – Bonaire 115 kV transmission line with 795 ACSR at 100°C.

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

In Year: 2021

Project Name: **BULL CREEK – FIRST AVENUE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 4.7 miles along the Bull Creek – First Avenue 115 kV transmission line with ACSS at 160 °C.

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

EAST PROJECTS

In Year: 2021

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 115 kV transmission line will cause the Decatur – Moreland Avenue 115 kV transmission line to become overloaded.

In Year: 2021

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

Description: Reconductor approximately 7.34 miles along the Eatonton – Lake Oconee 115 kV transmission line with 795 ACSR at 100 °C.

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

In Year: 2021

Project Name: **GOAT ROCK SUBSTATION**

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

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

In Year: 2021

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

Description: Reconductor approximately 8.3 miles along the Goshen – McIntosh 115 kV transmission line with 1351 ACSR at 100 °C.

Supporting Statement: The loss of the Cemetery Hill – McIntosh 230 kV transmission line causes the Goshen – McIntosh 115 kV transmission line to become overloaded.

In Year: 2021

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

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

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

EAST PROJECTS

In Year: 2021

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

Description: Upgrade approximately 3.7 miles of the Jamestown – Northeast Waycross section of the Kettle Creek – Offerman 115 kV transmission line from 50 °C to 100 °C operation.

Supporting Statement: The loss of the Kettle Creek – Glenmore Junction section causes the Jamestown – Northeast Waycross section of the Kettle Creek – Offerman 115 kV transmission line to become overloaded.

In Year: 2021

Project Name: **LAWRENCEVILLE – LAWRENCEVILLE #4 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.05 miles along the Lawrenceville – North Lawrenceville section of the Lawrenceville – Lawrenceville #4 115 kV transmission line with a conductor capable of carrying at least 1000 A. Replace the jumpers at Lawrenceville.

Supporting Statement: The loss of the Lawrenceville #4 tap on the Bay Creek – Moon Road 115 kV transmission line causes the Lawrenceville – North Lawrenceville 115 kV transmission line section to become overloaded under load restoration conditions.

In Year: 2021

Project Name: **O'HARA – MCDONOUGH 230 KV TRANSMISSION LINE**

Description: Rebuild the existing O'hara – Bonanza – Hampton 115 kV tranmission line sections (approximately 12.0 miles), with double circuit, 1351 ACSR at 230 kV specifications and rebuild approximately 5.5 miles from Hampton to Dailey Mill Tap at 230 kV specifications to create a new 230 kV circuit from O'Hara to McDonough. Add a 230 / 115 kV, 400 MVA transformer at McDonough.

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 O'hara end of the O'hara – South Griffin 230 kV transmission line will overload the South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line.

In Year: 2021

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

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

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

EAST PROJECTS

In Year: 2021

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

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

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

In Year: 2021

Project Name: **WADLEY SUBSTATION**

Description: Replace the Wadley Primary 125 MVA, 230 / 115 kV transformer with a 300 MVA transformer.

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV transmission line causes the Wadley 230 / 115 kV transformer to become overloaded.

In Year: 2022

Project Name: **ALBANY – PALMYRA 115 KV TRANSMISSION LINE**

Description: Install a motor operatored switch on the Albany – Palmyra 115 kV transmission line.

Supporting Statement: The loss of the Slappey Drive – Albany #2 Junction section causes the Albany #7 Junction – Albany 7 section of the Albany – Palmyra 115 kV transmission line to become overloaded.

In Year: 2022

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

Description: Upgrade approximately 1.5 miles along the Cochran – Cochran Junction section of the Bonaire – Eastman 115 kV transmission line to 100 °C operation.

Supporting Statement: The loss of the 115 kV source from Kathleen causes the Cochran – Cochran Junction section of the Bonaire – Eastman 115 kV transmission line to become overloaded under load restoration conditions.

In Year: 2022

Project Name: **BONAIRE PRIMARY 230 KV CAPACITOR BANK**

Description: Install a 230 kV, 170 MVAR capacitor Bank at Bonaire Primary substation.

Supporting Statement: The loss of the Bonaire 500/230 kV transformer causes a need for additional voltage support.

EAST PROJECTS

In Year: 2022

Project Name: **FIRST AVENUE SUBSTATION**

Description: Replace the First Avenue 300 MVA, 230 / 115 kV transformer #6 with a 400 MVA transformer.

Supporting Statement: The loss of the First Avenue 230 / 115 kV transformer #4 causes the First Avenue 230 / 115 kV transformer #6 to become overloaded.

In Year: 2022

Project Name: **GEORGIA TECH SUBSTATION**

Description: At the Georgia Tech Switching Station, construct a four element 115 kV ring bus. Terminate the Goshen, Kraft and Godley Tract 115 kV transmission lines into the new ring bus. Install a new 115 kV, 45 MVAR capacitor bank at the Georgia Tech SS.

Supporting Statement: The loss of the McIntosh – GP Rincon section of the McIntosh – Goshen – Kraft 115 kV transmission line causes a need for additional voltage support.

In Year: 2022

Project Name: **GOSHEN SUBSTATION**

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

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

In Year: 2022

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

Description: Reconductor approximately 38.5 miles along the Hatch – Offerman 230 kV transmission line with 1351 ACSR at 100 °C.

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

EAST PROJECTS

In Year: 2022

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 the Bernhard Road substation. Install three 115 kV circuit breakers at Tyrone and three breakers at Bernhard Road.

Supporting Statement: The loss of the O'hara 500 / 230 kV transformer causes the South Coweta 230 / 115 kV transformer to become overloaded. The loss of either 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: 2022

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 to King Springs with 1033 ACSR at 100 °C. Replace the 750 AAC jumpers at King Spring Road with 1590 AAC.

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

In Year: 2022

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

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

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

In Year: 2022

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

Description: Reconductor approximately 19.4 miles along the Millen – Waynesboro 115 kV transmission line with 1033 ACSR at 100 °C. Replace 750 AAC jumpers on the Waynesboro Primary 115 kV transmission line with 1590 AAC jumpers.

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

EAST PROJECTS

In Year: 2022

Project Name: **NORTH TIFTON 230 / 115 KV SUBSTATION**

Description: Replace the two 230 / 115 kV, 300 MVA transformers at North Tifton with 400 MVA transformers.

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

In Year: 2022

Project Name: **REIDSVILLE JUNCTION 115 KV CAPACITOR BANK**

Description: Increase each of the two 115 kV capacitor banks at Reidsville Junction from 15 MVAR to 22 MVAR.

Supporting Statement: The loss of the Vidalia – Loop Road section of the Claxton – Vidalia 115 kV transmission line causes a need for additional voltage support.

In Year: 2022

Project Name: **STATESBORO – WADLEY 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 22.3 miles of 115 kV transmission line along the Wadley Primary – Wadley – Swainsboro sections of the Statesboro – Wadley 115 kV transmission line with 1033 ACSR at 100 °C.

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

In Year: 2022

Project Name: **THOMASTON SUBSTATION**

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

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

In Year: 2022

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

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

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

EAST PROJECTS

In Year: 2022

Project Name: **THOMSON SUBSTATION**

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

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

In Year: 2022

Project Name: **VIDALIA – WADLEY 230 KV TRANSMISSION LINES**

Description: Replace the 800 CU jumpers and 1200 A line traps at Wadley and Vidalia on the Wadley – Vidalia 230 kV black and white lines.

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV transmission line causes the terminal equipment on the Vidalia – Wadley Primary 230 kV black / white transmission lines to become overloaded.

Section 2.

10 YEAR EXPANSION PLAN

WEST

WEST PROJECTS

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

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

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

WEST PROJECTS

In Year:	2014
Project Name:	**MERIDIAN NE SUBSTATION**
Description:	Add (2) 230 kV breakers at Meridian NE and reconfigure 230 kV side of substation to a ring bus
Supporting Statement:	Network reliability improvement.

In Year:	2014
Project Name:	**MERIDIAN – SWEATT #1 115 KV TRANSMISSION LINE**
Description:	Rebuild Meridian – Plant Sweatt #1 115 kV transmission 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 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**GATLIN ROAD SUBSTATION**
Description:	Construct a new 115 / 23 kV substation, Gatlin Road, and serve by constructing a 3.7 mile 115 kV tap from the Laurel East – Waynesboro 115 kV transmission line and convert existing 46 kV service delivery points to 115 kV service.
Supporting Statement:	Needed to support load growth in the area

In Year:	2014
Project Name:	**LAUREL NORTH – HEIDELBERG 115 KV TRANSMISSION LINE**
Description:	Reconductor the Laurel North – 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 – Stonewall 115 kV transmission line causes the Laurel North – Heidelberg 115 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 – Highway 11 115 kV transmission line to become overloaded.

In Year:	2014
Project Name:	**CEDAR LAKE ROAD 115 KV SUBSTATION**
Description:	Install motor operators at Cedar Lake Road for isolating the bus tie breakers.
Supporting Statement:	The Fernwood – Stelley 115 kV transmission line becomes overloaded for the failure of the bus tie breaker at Cedar Lake Road substation.

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

WEST PROJECTS

In Year:	2014
Project Name:	**THURLOW DAM – UNION SPRINGS 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 3.1 miles of 266.8 26/7 ACSR at 100 ºC with 795 ACSR at 100 ºC on the GKN Westland – Halla Climate Tap 115 kV transmission line.
Supporting Statement:	The loss of the Snowdoun – Pike Co. 230 kV transmission line with Farley Unit #1 offline causes the GKN Westland – Halla Climate Tap 115 kV transmission line to become overloaded.

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

WEST PROJECTS

In Year:	2015
Project Name:	**GASTON – EAST PELHAM 230 KV TRANSMISSION LINE**
Description:	Upgrade 11.97 miles of 1033 45/7 ACSR along the Gaston – East Pelham 230 kV transmission line from 75 ºC to 110 ºC operation.
Supporting Statement:	The loss of the Gaston – North Helena 230 kV transmission line or South Bessemer 500 / 230 kV transformer, with Gorgas Unit #10 offline, causes the Gaston – East Pelham 230 kV line to become overloaded.

In Year:	2015
Project Name:	**CROOKED CREEK – MARTIN DAM #1 (WEST) 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 15.7 miles of the Crooked Creek – Martin Dam #1 (West) 115 kV transmission line (397.5 30/7 ACSR).
Supporting Statement:	The loss of the Anniston – Golden Springs 115 kV transmission line causes the Crooked Creek – Martin Dam #1 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**HENRY DAM – RAINBOW CITY 115 KV TRANSMISSION LINE**
Description:	Upgrade 12.1 miles of the Henry Dam – Cedar Bend – North Cedar Bend Tap – Rainbow City 115 kV transmission line to 125 ºC operation.
Supporting Statement:	The loss of the Clay – Oneonta 230 kV transmission line, with Gadsden Unit #2 offline, causes the Henry Dam – Rainbow City 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2015
Project Name:	**ENTERPRISE AREA PROJECT**
Description:	Install a new 230 / 115 kV substation, called South Enterprise TS, that taps the Pinckard – Opp 230 kV transmission line. Construct approximately 6.0 miles 115 kV transmission line from South Enterprise TS to Enterprise TS with 795 ACSS at 160 ºC.
Supporting Statement:	The loss of the Pinckard – Enterprise #1 115 kV transmission line, with 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:	**PINCKARD – HOLMES CREEK – HIGHLAND CITY 230 KV TRANSMISSION LINE**
Description:	Convert the Pinckard TS – Holmes Creek 115 kV transmission line to 230 kV operation. Construct a new 230 kV transmission line from Holmes Creek to Highland City.
Supporting Statement:	The loss of Farley – Sinai Cemetery 230 kV transmission line, with Smith Unit #3 offline, causes the Pinckard – Holmes Creek 115 kV transmission line to become overloaded. The loss of the Farley – Cottonwood 230 kV transmission line, with Smith Unit #3 offline, causes the Farley – South Bainbridge and Samson – Shoal River 230 kV transmission lines to become overloaded.

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

WEST PROJECTS

In Year:	2015
Project Name:	**CHICKASAW–BLAKELEY ISLAND 115 KV TRANSMISSION LINE**
Description:	Upgrade terminal equipment at Chickasaw, Kimberly Clark, and Blakeley Island substations to 2000A
Supporting Statement:	The loss of the Chickasabogue – One Mile Creek Tap 115 kV transmission line causes the terminal equipment at Kimberly Clark on the Blakely Island – Chickasaw 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**NORTH BREWTON – ALLIGATOR SWAMP 230 KV TRANSMISSION LINE**
Description:	Construct a new 54.7 mile 230 kV transmission line from North Brewton to Alligator Swamp with 1351 54/19 ACSS.
Supporting Statement:	The loss of the Chickasaw – Silverhill 230 kV transmission line #2, with Crist offline, causes the Chickasaw – Silverhill #1 230 kV and Barry – Crist 230 kV transmission lines to become overloaded.

In Year:	2015
Project Name:	**ALLIGATOR SWAMP & BELLVIEW 230 kV SUBSTATIONS**
Description:	Add 100 MVAR 230 kV filtered capacitors at Alligator Swamp and Bellview.
Supporting Statement:	Crist offline results in a need for additional voltage support.

In Year:	2015
Project Name:	**ALLIGATOR SWAMP SUBSTATION**
Description:	Add +125 / –100 MVAR 230 kV SVC at Alligator Swamp
Supporting Statement:	Crist offline results in a need for additional voltage support.

WEST PROJECTS

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

In Year:	2015
Project Name:	**SANTA ROSA – LAGUNA BEACH 230 KV TRANSMISSION LINE**
Description:	Construct a new Santa Rosa 230 kV substation with one (1) 400 MVA 230 / 115 kV transformer. 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:	**Highland City Substation**
Description:	Add + / – 100 MVAR SVC at Highland City substation.
Supporting Statement:	Smith Unit #3 offline results in a need for additional voltage support.

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

WEST PROJECTS

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

In Year:	2015
Project Name:	**MARIANNA – HIGHLAND CITY 115 KV TRANSMISSION LINE**
Description:	Reconductor the 47.8 mile Marianna – Highland City 115 kV transmission line with 1033.5 45/7 ACSR.
Supporting Statement:	The loss of the Holmes Creek – Highland City 230 kV transmission line, with Lansing Smith Unit #3 offline, causes the Marianna – Bay County section of the Marianna – Highland City 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**ALBERTA CITY SWITCHING STATION**
Description:	Construct a new115 kV switching station adjacent to Alberta City DS and construct approximately 3.5 miles of 795 45/7 ACSS at 200 ºC to the South Tuscaloosa substation.
Supporting Statement:	The loss of Hargrove – South Tuscaloosa 115 kV transmission line causes the 31st Avenue – Kaul Tap – South Tuscaloosa 115 kV transmission line to become overloaed. The loss of the South Tuscaloosa – Kaul Tap 115 kV transmission line, with Gorgas Unit #10 offline, causes the South Tuscaloosa – Holt 115 kV transmission line to become overloaded.

WEST PROJECTS

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

In Year:	2015
Project Name:	**TUSCALOOSA – BANKHEAD 115 KV TRANSMISSION LINE**
Description:	Install two (2) new 115 kV transmission switches on the Tuscaloosa – Bankhead 115 kV transmission line. Shift Lakeland D.S., Caroll's Creek D.S. and Sokol Park D.S. from the Tuscaloosa – Gorgas 115 kV transmission line to the Tuscaloosa – Bankhead 115 kV transmission line.
Supporting Statement:	The loss of the Gorgas – Drummond Tap 115 kV transmission line, with Gorgas Unit #10 offline, causes the Tuscaloosa – Sokol Park – Carroll's Creek 115 kV sections of the Tuscaloosa – Gorgas 115 kV transmission line to become overloaded.

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

WEST PROJECTS

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

In Year:	2015
Project Name:	**LAMAR – HOPE HULL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 1.3 miles from Lamar Rd Tap – Hope Hull 115 kV transmission line with 795 26/7 ACSR at 100°C.
Supporting Statement:	The loss of the Snowdoun – Pike County 230 kV transmission line causes the West Montgomery – Greenville 115 kV transmission line to become overloaded.

In Year:	2015
Project Name:	**HATTIESBURG SW – HATTIESBURG 28TH AVENUE – WEST HATTIESBURG 115 KV TRANSMISSION LINE**
Description:	Reconductor the existing 4.5 mile, 266 ACSR Hattiesburg SW – Hattiesburg 28th Ave Tap – West Hattiesburg Tap 115 kV line segments to 1033 ACSR. Replace 600 A line switches at Hattiesburg SW & 28th AVE taps.
Supporting Statement:	The loss of the Hattiesburg SW – West 7th Street 115 kV transmission line causes the parallel circuit to become overloaded.

In Year:	2015
Project Name:	**HATTIESBURG SW 230 KV SUBSTATION**
Description:	Reconfigure the 230 kV substation layout to separate the 230 / 115 kV transformers (i.e. prevent them from sharing a common breaker).
Supporting Statement:	Failure of breaker at Hattiesburg SW will trip both 230 / 115 kV transformers.

WEST PROJECTS

In Year:	2016
Project Name:	**CROOKED CREEK – MARTIN DAM #2 (EAST) 115 KV TRANSMISSION LINE**
Description:	Upgrade approximately 46.5 miles of the Crooked Creek – Martin Dam #2 (East) 115 kV transmission line
Supporting Statement:	The loss of the Crooked Creek – Martin Dam #1 115 kV transmission line causes the Crooked Creek – Martin Dam #2 115 kV transmission line to become overloaded.

In Year:	2016
Project Name:	**YACHT CLUB DS**
Description:	Install two new 15 MVAR Capacitor Bank at Yacht Club DS
Supporting Statement:	The loss of Gorgas generation results in the need for additional voltage support.

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

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

WEST PROJECTS

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

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

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

WEST PROJECTS

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

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

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

In Year:	2016
Project Name:	**WATSON 115 KV SUBSTATION**
Description:	Install motor operators at Watson to isolate the bus tie breakers.
Supporting Statement:	The Cedar Lake Road – Rodenberg – Fernwood 115 kV transmission line becomes overloaded for the failure of the bus tie breaker at Watson substation.

WEST PROJECTS

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

In Year:	2016
Project Name:	**BARNWELL – POINT CLEAR TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 6.03 miles with 795 26/7 ACSR at 100° C along the Barnwell to Point Clear Tap 115 kV transmission line.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Barnwell – Point Clear 115 kV Tap to become overloaded.

In Year:	2017
Project Name:	**SOUTH BIRMINGHAM 115 KV IMPROVEMENTS**
Description:	Construct a 115 kV switching station near Bessemer TS that loops in the existing Bessemer to Magella 115 kV transmission line. Construct another 115 kV switching station by expanding Massey Road DS and looping in the South Jefferson to North Helena 115 kV transmission line.
Supporting Statement:	Network Reliability Improvement.

WEST PROJECTS

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

In Year:	2017
Project Name:	**THEODORE AREA SOLUTION**
Description:	Construct a new 115 kV transmission line to the Praxair Tap from North Theodore and add a switching station near Tronox LLC.
Supporting Statement:	Network reliability improvement.

In Year:	2017
Project Name:	**PRATTVILLE AREA SOLUTION**
Description:	Construct 6.5 miles of 795 26/7 ACSR 115 kV transmission line from County Line Road – Prattville DS. Construct a new 115 kV switching station at the GE Burkeville Tap.
Supporting Statement:	The loss of the County Line Road – East Prattville 115 kV transmission line, with Lowndes County Generation offline, causes the West Montgomery – Hunter 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2017
Project Name:	**BARRY – CRIST 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 31.6 miles along the Barry – Crist 230 kV transmission line to 125° C operation.
Supporting Statement:	The loss of Barry – Chickasaw 230 kV transmission line, with Crist Unit #7 offline, causes the Barry – Crist 230 kV transmission line to become overloaded.

In Year:	2017
Project Name:	**FISH RIVER TAP – FAIRHOPE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 4.54 miles of 115 kV transmission line from Fish River Tap – Fairhope with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Fish River Tap – Fairhope 115 kV transmission line to become overloaded.

In Year:	2017
Project Name:	**POINT CLEAR TAP – FAIRHOPE 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 1.0 miles of 115 kV transmission line from Point Clear Tap – Fairhope with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Silverhill – SW Foley 115 kV transmission line, with Crist Unit #7 offline, causes the Point Clear Tap – Fairhope 115 kV transmission line to become overloaded.

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 115 kV Tap to become overloaded.

WEST PROJECTS

In Year:	2017
Project Name:	**DANIEL – MOSS POINT EAST 230 KV TRANSMISSION LINE**
Description:	Install a 2% series line reactor on the Daniel – Moss Point East 230 kV transmission line.
Supporting Statement:	The loss of the Big Creek – Daniel 230 kV transmission line, with Barry Unit #5 offline, causes the Daniel – Moss Point East 230 kV and the Moss Point East – North Theodore 230 kV transmission lines to become overloaded.

In Year:	2018
Project Name:	**AUBURN – OPELIKA AREA 115 KV TRANSMISSION LINE NETWORKING**
Description:	Add a new 115 kV switching station at East Loop, at West North Auburn and construct approximately 8.0 miles of 115 kV transmission line from West North Auburn to Wire Road. Construct a new 115 kV switching station west of Marvyn and near Chewacla Tap. Reconductor approximately 1.8 miles of 115 kV transmission line between Opelika #1 and Opelika #3 with 795 26/7 ACSR at 100 ºC.
Supporting Statement:	The loss of the North Auburn – East Loop 115 kV transmission line, with Farley Unit #1 offline, causes the Opelika #5 – Opelika #8 115 kV transmission line to become overloaded.

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

WEST PROJECTS

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

In Year:	2018
Project Name:	**BRENTWOOD – SCENIC HILLS #2 115 KV TRANSMISSION LINE**
Description:	Reconductor 4.8 miles of existing 1033.5 45/7 ACSR 115 kV transmission line with 1033.5 54/7 ACSS at 200°C from Brentwood to Scenic Hills 115 kV #2 transmission line.
Supporting Statement:	The loss of the Crist 230 / 115 kV transformer, with Crist Unit #7 offline, causes the Brentwood – Scenic Hills #2 115 kV transmission line to become overloaded.

In Year:	2018
Project Name:	**MERIDIAN INDUSTRIAL SUBSTATION**
Description:	Construct a new 115 / 12 kV substation by tapping the Meridian NE – Vimville 115 kV transmission line
Supporting Statement:	Needed to support area load growth.

In Year:	2018
Project Name:	**HURRICANE CREEK – WIGGINS SS 115 KV TRANSMISSION LINE**
Description:	Reconductor Hurricane Creek – Wiggins SS 115 kV transmission line with 795 ACSR at 100 ºC.
Supporting Statement:	The loss of the Landon – Hwy 53 115 kV transmission line line causes the Hurricane Creek – Wiggins SS 115 kV transmission line to become overloaded.

WEST PROJECTS

In Year:	2018
Project Name:	**BILOXI OAK STREET SUBSTATION**
Description:	Construct a new 115 / 23 kV substation at Biloxi Oak street and loop in the Percy Street – Keesler 115 kV transmission line.
Supporting Statement:	The loss of Percy Street transformer results in the need for an additional source to serve area load growth.

In Year:	2018
Project Name:	**MOSS POINT ELDER FERRY SUBSTATION**
Description:	Retire the Moss Point Elder Ferry 230/23 kV transformers and replace with 115 kV service by tapping the Wade – Moss Point East 115 kV transmission line
Supporting Statement:	Support area load growth.

In Year:	2019
Project Name:	**EASTERN AREA 115 KV SOLUTION**
Description:	Reconductor approximately 5.3 miles of 397.5 26/7 ACSR at 75 ºC 115 kV transmission line between Gulf States Steel and Rainbow City SS with 795 ACSS at 200 ºC. Install new 115 kV switching station around Rainbow City. Install new 115 kV terminal at Clay TS. Construct approximately 34 miles of 795 26/7 ACSS at 200 ºC between Clay TS and the new Rainbow City SS.
Supporting Statement:	The loss of the Clay – Oneonta 230 kV transmission line causes high loadings on several 115 kV transmission lines in the Gadsden area and also limits maintenance flexibility.

WEST PROJECTS

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

In Year:	2019
Project Name:	**WIGGINS – WIGGINS 5TH AVENUE 115 KV TRANSMISSION LINE**
Description:	Reconductor the 3.75 mile, 266 ACSR, Wiggins SS – Wiggins 5th Ave 115 kV line segment with 795 ACSR.
Supporting Statement:	The loss of Gulfport Landon – Hwy 53 115 kV transmission line segment causes Wiggins – Wiggins 5th Avenue 115 kV transmission line to become overloaded when serving load radially from Wiggins.

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

WEST PROJECTS

In Year:	2020
Project Name:	**HOLMES CREEK – PITTMAN – GENEVA TAP 115 KV TRANSMISSION LINE**
Description:	Upgrade the 115 kV transmission line from Holmes Creek to Geneva Tap to 125°C operation.
Supporting Statement:	The loss of the Pinckard – Samson 230 kV transmission line, with Crist offline, causes the Holmes Creek – Pittman – Geneva Tap 115 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**BARRY – CHICKASAW 230 KV TRANSMISSION LINE**
Description:	Reconductor the 18.6 mile Barry – Chickasaw 230 kV transmission line with bundled (2) 795 ACSS 26/7 at 200°C.
Supporting Statement:	The loss of the Barry – Crist 230 kV transmission line, with Crist Unit #7 offline, causes the Barry – Chickasaw 230 kV transmission line to become overloaded.

In Year:	2021
Project Name:	**WEST MCINTOSH – CALVERT #2 230 KV TRANSMISSION LINE**
Description:	Construct approximately 11.4 miles of new 230 kV transmission line from West McIntosh to Calvert with 1351 54/19 ACSS at 200 ºC. Add new 3000 A, 230 kV terminals at West McIntosh and Calvert.
Supporting Statement:	The loss of West McIntosh – Calvert #1 230 kV transmission line, with Crist offline, causes the Barry – McIntosh "A" 115 kV transmission line and the Barry – CAES 115 kV transmission line to become overloaded.

In Year:	2022
Project Name:	**SHOAL RIVER SUBSTATION**
Description:	Install a 2nd +/– 100 MVAR SVC at Shoal River substation.
Supporting Statement:	Crist offline results in a need for additional voltage support.

WEST PROJECTS

SMEPA

In Year:	2015
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 contingencies.

In Year:	2016
Project Name:	**Homewood – Station Creek 161 kV Line**
Description:	Construct new 161 kV line utilizing existing 69 kV line built with double circuit specifications
Supporting Statement:	Alleviates loading on the Homewood 161 / 69 kV auto transformers and multiple underlying 69 kV lines during contingency conditions.

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

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

WEST PROJECTS

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

WEST PROJECTS

POWERSOUTH

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

In Year:	2015
Project Name:	**MCWILLIAMS–FULLER 115 KV CONVERSION**
Description:	Upgrade approximately 40 miles of 46 kV to 115 kV 795 ACSR conductor.
Supporting Statement:	This is a project to provide a second South to North 115 kV path that eliminates overloads on existing lines and provides for supporting voltage under multiple contingency scenarios.

In Year:	2015
Project Name:	**HAYES–BOTTOM'S MILL 115 KV TRANSMISSION LINE**
Description:	Build a new 115 kV 795 ACSR transmission line to connect Clayhatchee to Clio Swithing Stations
Supporting Statement:	This is a project to provide a second South to North 115 kV path that eliminates overloads on existing lines and provides for supporting voltage under multiple contingency scenarios.

WEST PROJECTS

In Year:	2016
Project Name:	**GASKIN–SOUTHPORT 115 KV TRANSMISSION LINE**
Description:	Build a new 115 kV 795 ACSR transmission line to provide looped service to 3 stations currently on radial lines.
Supporting Statement:	This is a project to increase reliability by providing looped service to existing substations that are currently on radial lines. It also converts one station to 115 kV from 46kV in the process.

In Year:	2016
Project Name:	**LIBERTY – GRACEVILLE 115 KV TRANSMISSION LINE**
Description:	Build a new 30 mile 115 kV 795 ACSR transmission line to connect Liberty to Graceville Swithing Stations
Supporting Statement:	This is a project to provide an additional source to the Gulf Coast service area to provide for supporting voltage under multiple contingency scenarios.