# Southeastern Regional Transmission Planning Process

# PRELIMINARY 10 YEAR EXPANSION PLAN

**June 18, 2010**

# Table of Contents

**Section 1: PRELIMINARY 10 YEAR EXPANSION PLAN – EAST REGION**

**Section 2: PRELIMINARY 10 YEAR EXPANSION PLAN – WEST REGION**

# Section 1.

# PRELIMINARY 10 YEAR EXPANSION PLAN

# EAST REGION

# EAST REGION PROJECTS

In Year: 2011

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

Description: Rebuild approximately 23.6 miles with 795 ACSR at 100°C along the Arkwright – Gordon #1 115 kV Transmission Line.

Supporting Statement: The Gordon – Mixon section of the Arkwright – Gordon #1 115 kV Transmission Line becomes overloaded and reconductoring only this section of the line overloads the remaining section of the line.

---

In Year: 2011

Project Name: **DEPTFORD – WHITEMARSH 115 KV TRANSMISSION LINE**

Description: Build a new Deptford – Whitemarsh 115 kV Transmission Line using 795 ACSR while keeping the existing line in service. Once the new line is in service, remove the old line.

Supporting Statement: The Deptford – Whitemarsh 115 kV Transmission Line becomes overloaded during hot weather conditions.

---

In Year: 2011

Project Name: **FACTORY SHOALS 230 / 115 KV EXPANSION**

Description: Create a 230 / 115kV network substation at Factory Shoals. Install one 230 / 115kV 300 MVA or greater Transformer. Tap the Adamsville – Douglasville 230 kV Transmission Line from Buzzard Roost. Create a 115 kV network station along the Douglasville – Greenbriar 115kV Transmission Line. Install three 230 kV breakers at Buzzard Roost, looping in the Adamsville – Douglasville 230 kV Transmission Line, with a third terminal serving Factory Shoals.

Supporting Statement: The loss of the Douglasville – Groover Lake segment of the Douglasville – Greenbriar 115 kV Transmission Line overloads the Gordon Road – Hightower, Adamsville – Hightower, and Adamsville – Greenbriar segments of the Douglasville – Greenbriar 115 kV Transmission Line. The loss of the Mason Creek – Post Road segment of the Douglasville – Post Road 115 kV Transmission Line overloads the 230 / 115 kV Bank A at Douglasville.

---

In Year: 2011

Project Name: **GRADY SUBSTATION**

Description: Replace the Klondike and Morrow 230 kV Transmission Line breakers with 2 cycle gang operated breakers at Grady Substation

Supporting Statement: Breaker improvement.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2011

Project Name: **LOUVALE 115 KV SUBSTATION**

Description: Rebuild the existing 2/0 Cu. bus and jumpers with 750 AAC at the Louvale 115 / 25 kV Substation.

Supporting Statement: The loss of the Americus to West Americus 115 kV Transmission Line section or the loss of the Palmyra 230 / 115kV transformer causes the existing 2/0 copper string bus and jumpers at the Louvale substation to become overloaded.

---

In Year: 2011

Project Name: **MCDONOUGH 115 KV SUBSTATION**

Description: Install a 115 kV Transmission Line breaker in the Greenwood Park / Hampton tap line bay at the McDonough substation.

Supporting Statement: Circuit breaker installation improves system reliability through relay scheme simplification and a reduction of 115 kV Transmission Line exposure on the Greenwood Park substation.

---

In Year: 2011

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

Description: Rebuild approximately 3.7 miles of 657 ACAR and 397 ACSR 115 kV Transmission Line from Smyrna to the Lockheed tap with 1033 Composite Conductor @ 200°C on the Black and White lines

Supporting Statement: The loss of the North Mar – Smyrna 115 kV White line causes the North Mar – Smyrna 115 kV Black line to overload and vice versa..

---

In Year: 2011

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

Description: Reconductor approximately 5.7 miles with 1033 ACSR along the McManus – West Brunswick 115 kV Transmission Line.

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

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2011

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

Description: At the Meldrim Substation, construct a 230 kV yard and install a 300 MVA, 230 / 115 kV transformer. Loop the Blanford – Little Ogeechee Black and White lines into Meldrim, creating the Blandford – Meldrim 230 kV Black and White and Little Ogeechee – Meldrim 230 kV Black and White lines.

Supporting Statement: The loss of the McIntosh – Treutlen 115 kV Transmission Line section overloads the Dean Forest – Meldrim 115 kV Transmission Line. The loss of the McIntosh – Treutlen 115 kV Transmission Line section causes a voltage drop on the 115 kV bus at Treutlin.

---

In Year: 2011

Project Name: **MORROW SUBSTATION**

Description: Replace five of the 230 kV Transmission Line breakers with 2 cycle gang operated breakers and replace the 230 kV bus tie breaker with 2 cycle gang operated breaker.

Supporting Statement: Breaker improvement.

---

In Year: 2011

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

Description: Reconductor approximately 2.66 miles of existing 636 ACSR with 1033 ACSR along the North Marietta – Marietta #4 – Marietta / Roswell Road segments on the North Marietta – Roswell 115 kV Transmission Line.

Supporting Statement: The loss of the Parkaire 230 / 115 kV bank or loss of the Morgan Falls – Parkaire segment of the Parkaire – Roswell 115 kV Transmission Line overloads the North Marietta – Marietta #4 segment on the North Marietta – Roswell 115 kV Transmission Line.

---

In Year: 2011

Project Name: **VILLA RICA 230 KV SUBSTATION**

Description: Replace four 230 kV Transmission Line breakers with 2000 A, 63 kA, 2–cycles breakers and modify relaying at Villa Rica.

Supporting Statement: Breaker improvement.

---

In Year: 2012

Project Name: **2012 BASE REACTIVE POWER SUPPORT**

Description: At Soperton Primary, install a 30 MVAR, 115 kV capacitor bank. At Moreland Avenue, install a 60 MVAR, 115 kV capacitor bank. At Moon Road, install a 30 MVAR, 115 kV capacitor bank. At Lick Creek, install a 30 MVAR, 115 kV capacitor bank.

Supporting Statement: Area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2012

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

Description: Install a 60 MVAR, 115 kV capacitor bank at Daniel Siding.

Supporting Statement: Area voltage support.

---

In Year: 2012

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

Description: Reconductor approximately 4 miles of 115 kV Transmission Line from the Plant McDonough 115 kV Substation to King Springs with 1033 ACSR.

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

---

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 2–1033 ACSR conductor on two single circuit towers.

Supporting Statement: The loss of a Kraft – McIntosh 230 kV Transmission Line will overload the remaining Kraft – McIntosh 230 kV Transmission Line.

---

In Year: 2012

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

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 overload.

---

In Year: 2012

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

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 Grady – Moreland Avenue 115 kV Transmission Line becomes overloaded for several contingencies.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2013

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 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 – Little Ogeechee 115 kV Transmission Line.

---

In Year: 2013

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

Description: Create the Daniel Siding – Riceboro 115 kV Transmission Line by building the approximately 11.65 mile Burnt Church – Tradeport 115 kV Transmission Line section. Install two 115 kV breakers at Daniel Siding. Reconductor approximately 8.5 miles along the Daniel Siding – Sterling Creek – Burnt Church line sections with 795 ACSR.

Supporting Statement: The loss of the Dorchester – Cay Creek section of the Dorchester – Riceboro 115 kV Transmission Lines causes a need for additional area voltage support.

---

In Year: 2013

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 conductor. Upgrade 750 AAC jumpers at Due West to 1590 AAC and replace a 1200 A switch with 2000 A switch. At Proctor Creek, upgrade 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 overload. Also, the loss of the South Acworth – Due West segment causes the South Acworth – Proctor Creek segment to overload.

---

In Year: 2013

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

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.

---

PRELIMINARY

# EAST REGION 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 to increase capacity between Northside Drive and Northwest.

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 overload.

---

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 overload.

---

In Year: 2013

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

Description: Upgrade the two existing 230 kV Transmission Lines from 50°C operation to 75°C.

Supporting Statement: The loss of either of the Jack McDonough – Northwest 230 kV Transmission Lines causes the other line to overload.

---

In Year: 2013

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

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

Supporting Statement: The loss of the East Point – Georgia Tech 230 kV Transmission Line causes the Davis Street – Northwest 115 kV Transmission Line to overload.

---

In Year: 2013

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

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 overload.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2013

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: 2013

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

Description: Install a second 115 / 46 kV transformer in the Plant Kraft Substation using the Treutlen 112 MVA, 115 / 46 kV Transformer. Replace the Meldrim 112 MVA, 115 / 46 kV transformer with a 60 MVA transformer.

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

---

In Year: 2013

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.

---

In Year: 2013

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

Description: Construct a three breaker 115 kV switching station at the East Colquitt / West Donalsonville junction of the Blakely – East Bainbridge 115 kV Transmission Line. Upgrade the short line section between Donalsonville and West Donalsonville.

Supporting Statement: The loss of the Farley – South Bainbridge 230 kV Transmission Line, with Lansing Smith 3 offlline, overloads the Blakely – East Bainbridge115 kV Transmission Line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2014

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 SSAC at 170°C along the Morrow – Ellenwood se ction of the Austin Drive – Morrow 115kV Transmission Line.

Supporting Statement: The loss of the Austin Dr. 230 / 115 kV transformer will overload the River Road to 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 to Ellenwood section of the Austin Drive – Morrow 115 kV Transmission Line.

---

In Year: 2014

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

Description: Upgrade approximately 3.5 miles of 397 ACSR conductor to 100°C 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 to South Covington Junction section of the Lloyd Shoals – Porterdale 115 kV Transmission Line.

---

In Year: 2014

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

Description: Construct 8 miles of 795 ACSR 115 kV Transmission Line from West Brunswick to Altamaha.

Supporting Statement: Area voltage support.

---

In Year: 2014

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 tap from the Ponce deLeon – Snellville 115 kV Transmission Line, which serves bank (#2) at Walton EMC #6 Substation, overloads the underground Transmission Line from Snellville that serves bank (#1) at Walton EMC #6 Substation.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2014

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: 2015

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

Description: At the Boulevard 115 / 46 / 13.8 kV substation, construct a 230 kV yard and install a 400 MVA, 230 / 115kV Transformer. Rebuild the Boulevard – Dean Forest 115 kV Black/White double circuit lines to 230 kV using 2–795 ACSR. Tap the Kraft – McIntosh 230 kV White line and build a three breaker, 230 kV Switching Station. Build approximately 5 miles of new 230 kV Transmission Line from the new switching station to Dean. Rebuild the Dean Forest – Kraft 230 kV Transmission Line using 2–795 ACSR.

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

---

In Year: 2015

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 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.

---

In Year: 2015

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

Description: Construct a 500 kV Transmission Line from the new Rockville 500 kV Switching Station to the new East Walton 500 / 230 / 115 kV Substation. Construct 230 kV Transmission Lines from East Walton to Jack's Creek Switching Station (1351 ACSR), from East Walton to the new Bostwick Switching Station (2–795.0 ACSR), and from Bethabara to East Walton (White Line – 1351.5 ACSR). Reconductor Bostwick – East Watkinsville with bundled 2–795 ACSR at 100°C. Replace line traps at Center and East Watkinsville. Construct a new Rockville 500 kV substation. Construct a new 230kV line from East Walton to Bethabara (Black Line – 1351 ACSR). Construct a new 230 kV Transmission Line from LPM Monroe to Cornish Mountain (1351 ACSR at 100°C )

Supporting Statement: The loss of the Klondike – Scherer 500 kV Transmission Line will overload the Klondike – O'Hara 500 kV Transmission Line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2015

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

Description: Rebuild approximately 7.1 miles with double circuit construction for 1351 ACSR at 230 kV specifications along the existing Hampton – McDonough 115 kV tap line.

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: **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 section of this line from Norcross – Berkely Lake.

---

In Year: 2015

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

Description: Construct a 230 kV Transmission Line 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 230kV breaker in the Cumming Substation and terminate 230kV Transmission Line to Sharon Springs. Re–rate the Hopewell 230 / 115 kV Transformer.

Supporting Statement: The loss of the Hopweell – 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: 2016

Project Name: **2016 BASE REACTIVE SUPPORT**

Description: Increase the size of the 230 kV capacitor bank at Suwannee from 120 MVAR to 160 MVAR.

Supporting Statement: Area Voltage Support.

---

In Year: 2016

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

Description: Replace the 230 kV 1200 A line trap at Alpharetta with a 1600 A line trap.

Supporting Statement: The loss of the Norcross end of the Norcross – Ocee 230 kV Transmission line overloads the Alpharetta – Northwinds section of this line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

Project Name: **ARKWRIGHT – SOUTH MACON 115 KV (BLACK) TRANSMISSION LINE**

Description: Reconductor approximately 1.6 miles with 795 ASCR from South Macon to Ocmulgee Junction along the Arkwright – South Macon 115 kV (Black) 115 kV Transmission Line.

Supporting Statement: The loss of the South Macon end of the Forrest Road – South Macon 115 kV Transmission Line overloads the South Macon end of the Arkwright – South Macon (Black) 115 kV Transmission line.

---

In Year: 2016

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

Description: Install a 120 MVAR, 115 kV capacitor bank at Arkwright

Supporting Statement: Area voltage support.

---

In Year: 2016

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: 2016

Project Name: **ATHENA – EAST WATKINSVILLE 115 KV TRANSMISSION LINE.**

Description: Reconductor approximately 1.84 miles of 336 ACSR with 1033 ACSR from East Athens to STR 108/31 on the East Watkinsville to East Athens line segment. Replace 600 A switch at East Athens with a 1200A switch and replace jumpers with 1033 ACSR or better.

Supporting Statement: The loss of the Athena 230 / 115 kV transformer bank or the East Watkinsville – Barnett Shoals line segment of the Athena – East Watkinsville 230 kV Transmission Line will overload the East Athens – East Watkinsville line segment of the Athena – East Watkinsville 115 kV Transmission Line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: Reconductor approximately 0.5 miles of existing 336 ACSR from Georgia Square Junction to Mars Hill Junction and approximately 2.3 miles from Mars Hill Junction to Mars Hill with 636 ASCR.

Supporting Statement: The loss of the East Watkinsville – Watkinsville 115 kV segment 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 Bethabara – East Watkinsville 115 kV Transmission Line to overload.

---

In Year: 2016

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

Description: Reconductor approximately 3.2 miles with 795 ACSR at 100°C along the Bonaire – Peach Blossom 115 kV Transmission Line.

Supporting Statement: The loss of Perry – PPG Tap 2 115 kV Transmission Line overloads the Bonaire – Peach Blossom 115 kV Transmission Line

---

In Year: 2016

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

Description: Reconductor the Barneyville – Adel #1 Junction and Adel #1 Junction – South Adel Junction sections of the Barneyville – Pine Grove Primary 115 kV Transmission Line with 795 ACSR at 100°C. Replace 600 A switch at Adel #1 with a 1200 A switch.

Supporting Statement: The loss of the Pine Grove Primary – North Tifton 230 kV Transmission Line causes the Barneyville – South Adel Junction section of the Barneyville – Pine Grove Primary 115 kV Transmission Line to become overloaded.

---

In Year: 2016

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: 2016

Project Name: **BRANCH – EAST SOCIAL CIRCLE 230 KV TRANSMISSION LINE**

Description: Install a 2% reactor at East Social Circle on Branch – East Social Circle 230 kV Transmission Line (the line through Forrest Lake & Eatonton Primary)

Supporting Statement: The loss of the Branch – Eatonton SW 230 kV Transmission Line, with Franklin Unit #2 offline, causes the Branch – East Social Circle 230 kV Transmission Line to overload.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: At Gordon substation, replace 1200 A line trap with a 3000 A line trap and replace 1590 AAC jumpers with 1351 ACSR jumpers.

Supporting Statement: The loss of Branch – West Milledgeville 230 kV Transmission Line, with Hatch Unit #1 offline, causes the Branch – Gordon 230 kV Transmission Line to become overloaded.

---

In Year: 2016

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

Description: Bundle the Branch – West Milledgeville 230 kV Transmission Line with 2-1351 ACSR at 100°C. Replace bus, transfer bus, trap, and jumpers at West Milledgeville. Bundle jumpers at Branch.

Supporting Statement: The loss of the Bonaire – Scherer 500 kV Transmission Line with Hatch Unit #1 offline causes the Branch – West Milledgeville 230 kV Transmission Line to become overloaded.

---

In Year: 2016

Project Name: **BRANCH SUBSTATION UPGRADE PHASE 1**

Description: Replace two 3000 A 230 kV breakers and four associated switches with 4000 A 230 kV breakers and switches at Branch Substation. In addition, replace 4" AL bus with 6" AL bus on both side of each of the two breakers.

Supporting Statement: The loss of one breaker at plant Branch, causes the other breaker to overload and vice versa.

---

In Year: 2016

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

Description: Reconductor approximately 2.62 miles with 795 ACSR at 100°C along the Brunswick – Stonewall Street section of the Brunswick – St. Simons 115 kV Transmission Line. Replace three 600 A switches at Brunswick with 1200 A switches.

Supporting Statement: The loss of the Brunswick – East Beach 115 kV Transmission Line overloads the Brunswick – St. Simons 115 kV Transmission Line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: Reconductor approximately 5.5 miles with 795 ACSR at 100°C from Center to Nicholson Junction along the Center Primary – Commerce 115kV Transmission Line.

GTC —– Replace breaker disconnect switches and jumpers at Center Primary."

Supporting Statement: The loss of the Middle Fork 230 / 115 kV transformer bank or the loss of the Winder Primary – Gum Sp.115 kV Transmission Line segment of the Winder – Middle Fork 115 kV line will cause the Center – Nicholson Junction line segment of the Center – Commerce 115 kV Transmission Line to overload.

---

In Year: 2016

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

Description: Rebuild approximately 7.7 miles along the Meldrim – River – Georgia Pacific tap sections of the Claxton – Meldrim 115 kV Transmission Line with 1033 ACSR.

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

---

In Year: 2016

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

Description: Construct a new 230 / 115kv substation with a 300 MVA Transformer. 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 Yates – Newnan Primary 115 kV Transmission Line segment overloads the Yates end of the Thomaston – Yates 115 kV Transmission Line.The loss of the South Coweta to Sharpsburg section of the Yates – South Coweta 115 kV Transmission Line causes the Lagrange – Ragland section of the Lagrange – Yates 115 kV Transmission Line to overload. The loss of either end of the Thomaston – Yates 115 kV Transmission Line causes the opposite end to overload. Also, the loss of the Mountain Creek – Newnan #2 segment of the Yates – Thomaston 115 kV line causes a need for additional area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: Upgrade approximately 1.6 miles of 636 ACSR along Decatur to Kirkwood 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 line to overload.

---

In Year: 2016

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

Description: Install a 50 MVAR, 115 kV capacitor bank at Donalsonville. Replace the AOM/AGS with AIM 2010 circuit switcher. Convert three distribution circuits to underground.

Supporting Statement: Area voltage support.

---

In Year: 2016

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

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

Supporting Statement: The loss of the Post Road end of the Dougslasville – Post Road 115 kV Transmission Line overloads the Douglasville end.

---

In Year: 2016

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 to Lithia Springs on the Douglasville – West Marietta 115 kV Transmission Line.

Supporting Statement: The loss of the West Marietta – Mulkey Rd segment overloads the Douglasville – Lithia Springs segment of the Douglasville – West Marietta 115 kV Transmission Line.

---

In Year: 2016

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

Description: Reconductor, using 230 kV specs, approximately one span of the existing 397 ACSR conductor with 1351 ACSR, on the East Point – Camp Creek 115 kV Transmission Line starting at the East Point substation. Replace 600 A line switches at East Point.

Supporting Statement: Reconductor necessary in order to serve area load growth.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

Project Name: **EAST VIDALIA SWITCH REPLACEMENT**

Description: Replace 600 A switch at East Vidalia

Supporting Statement: The loss of the Hatch – South Hazelhurst 230 kV Transmission Line, with Lansing Smith Unit #3 offline, causes the Vidalia – West Lyons Junction 2 115 kV Transmission Line to become overloaded.

---

In Year: 2016

Project Name: **EATONTON PRIMARY – EAST SOCIAL CIRCLE 230 KV TRANSMISSION LINE**

Description: Install a 1600 A, 1% 230 kV reactor at Eatonton Primary switching station on Eatonton Primary – East Social Circle 230 kV Transmission Line.

Supporting Statement: The loss of the Branch – East Social Circle 230 kV Transmission Line causes the Eatonton Primary – East Social Circle 230 kV Transmission Line to become overloaded.

---

In Year: 2016

Project Name: **EVANS PRIMARY – FIFTEENTH STREET 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.5 miles with 795 ACSR along the Evans Primary – Furys Ferry tap section of the Evans Primary – Fiftenth Street 115 kV Transmission Line.

Supporting Statement: The loss of the Washington OPC – Warthen 500 kV Transmission Line causes the Evans Primary – Furys Ferry tap section of the Evans Primary – Fifteenth Street 115 kV Transmission Line to become overloaded.

---

In Year: 2016

Project Name: **EVANS PRIMARY – THOMSON PRIMARY 115 KV TRANSMISSION LINE**

Description: Reconductor Thomson Primary – Kiokee Road tap section of the Evans Primary – Thomson Primary 115 kV Transmission Line with 795 ACSR. Replace 600 amp switches at the Kiokee Road tap.

Supporting Statement: The loss of the Evans Primary – Thomson Primary 230 kV Transmission Line will overload the Thomson Primary – Kiokee Road tap section of the Evans Primary – Thomson Primary 115 kV Transmission Line.

---

In Year: 2016

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.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: Reconductor approximately 0.9 miles of 657 ACAR at 75°C 115 kV Transmission Line with 795 ACSR at 100°C from North Columbus to Firs t Avenue.

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: 2016

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

Description: Rerate both Gainesville #2 230 / 115 kV Transformers. On the 230 / 115 kV Bank C, replace the 1400 A lowside switch with a 3000 A switch, replace the lowside jumpers with jumpers rated for at least 2000 A. On the 230 / 115kV Bank D, bundle the 1590 AAC lowside jumpers and the 1590 AAC lowside main bus #2. Also, replace the lowside circuit breaker with a 3000 A breaker.

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. The loss of either the Gainesville #2–1 – South Hall 230 kV Transmission Line or the Gainesville #2–1 230 / 115 kV Transformer overloads the Gainesville #2–2 230 / 115 kV Transformer.

---

In Year: 2016

Project Name: **GORDON – NORTH DUBLIN 230 KV TRANSMISSION LINE**

Description: Construct approximately 32 miles of 1351 ACSR 230 kV Transmission Line from Gordon – North Dublin. Install two new 230 kV breakers to allow for line termination.

Supporting Statement: Area voltage support.

---

In Year: 2016

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

Description: Upgrade approximately 7.6 miles of 336 ACSR along the Deepstep – Robins Spring section of the Gordon – Sandersville 115 kV Transmission Line for 100 °C operation.

Supporting Statement: The loss of the Branch – West Milledgeville 230 kV Transmission Line will overload the Deepstep – Robin Spring section of the Gordon – Sandersville 115 kV Transmission Line.

---

PRELIMINARY

# EAST REGION 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 will overload the Goshen – Waynesboro 115 kV Transmission Line.

---

In Year: 2016

Project Name: **GRADY – MORROW (BLACK) 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.3 miles of 397 ACSR at 100 °C 115 kV Transmission Line with 1033 ACSR at 100 °C along the Morrow to Murra y Lake Tap segment of the Grady to Morrow (Black) 115 kV Transmission Line.

Supporting Statement: The loss of the Klondike – Norcross 500 kV Transmission Line overloads the Morrow to Murray Lake tap section of the Grady – Morrow 115 kV (Black) Transmission Line.

---

In Year: 2016

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

Description: Reconductor approximately 27.1 miles of 1033 ACSR at 100°C with 1351 ACSR at 100° C between the Appling Biomass – Offerman section on the Hatch – Offerman 230 kV Transmission Line.

Supporting Statement: The loss of the Thalmann 500 / 230 kV transformer causes the Appling Biomass – Offerman 230 kV Transmission Line to become overloaded.

---

In Year: 2016

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 Ebenezer Road., approximately 4.0 and 4.5 miles Transmission Lines respectively. Install approximately 1.5 miles of 115 kV Transmission Line to loop the Tyrone substation into the Line Creek – South Coweta Transmission Line 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. The same situation will occur on the Line Creek – South Coweta 115 kV Transmission Line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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 overload.

---

In Year: 2016

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.

---

In Year: 2016

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

Description: Reconductor a 7.48 mile section of 4/0 ACSR conductor with 636 ACSR conductor along the Eatonton – Lick Creek 115 kV Transmission Line. Reconductor approximately 3.63 miles with 795 ACSR at 100°C from Eatonton – Lower Harmony Junction. Install 2 additional 115 kV breakers in the Greensboro 115 / 12 kV substation on the Madison Primary and Union Point 115 kV Transmission Lines.

Supporting Statement: The Eatonton – Lake Oconee 115 kV Transmission Line will exceed its thermal rating. Also, Greensboro substation does not have breakers for the Union Point Primary and Madison Primary 115 kV Transmission Lines.

---

In Year: 2016

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

Description: Reconductor approximately 1.05 miles of 336 ACSR 115 kV Transmission Line from Lawrenceville to 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 need to serve load overloads the Lawrenceville – North Lawrenceville line section.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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: 2016

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 230kV 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 Lawrenceville – Norcross 230 kV Transmission Line at Norcross will overload the Lawrenceville – Old Freeman Mill section of the Lawrenceville – Winder 230 kV Transmission Line.

---

In Year: 2016

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

Description: Install remotely controlled motor operator on switch tap serving Lawrenceville #4 on the Bay Creek – Moon Road 115 kV Transmission Line.

Supporting Statement: The loss of the Bay Creek 230 / 115 kV Transformer overloads the Lawrenceville – Moon 115 kV Transmission Line.

---

In Year: 2016

Project Name: **LLOYD SHOALS – SOUTH GRIFFIN 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 18.62 miles with 795 ACSR at 100°C from South Griffin to Jackson along the Lloyd Shoals – South Griffin 115 kV Transmission Line.

Supporting Statement: The loss of the feed from Lloyd Shoals will thermally overload the existing line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: Install a 60 MVAR, 115 kV capacitor bank.

Supporting Statement: Area voltage support.

---

In Year: 2016

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

Description: Reconductor the McEver – Shoal Creek 115 kV Transmission Line with 1033 ACSR. 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 segment of the McEver Rd – Shoal Creek 115 kV Transmission Line.

---

In Year: 2016

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: With Mid Georgia Cogeneration generating unit offline, the loss of the Branch – Gordon 230 kV Transmission Line causes the existing 115 kV Transmission Line between Milledgeville and West Milledgeville to overload.

---

In Year: 2016

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

Description: Reconductor approximately 3.69 miles of existing 636 ACSR along the Snellville – Five Forks section of the Moon Road – Snellville 115 kV Transmission Line with a 1400 A rated conductor or greater. At Five Forks 115 / 25 kV Substation, replace the 750 AAC main bus and the 636 ACSR jumpers.

Supporting Statement: The loss of Bay Creek – Moon Road 115 kV Transmission Line at Bay Creek overloads the Snellville – Five Forks section of the Moon Road – Snellville 115 kV Transmission Line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

Project Name: **MOUNTAIN VIEW AREA IMPROVEMENT PROJECT**

Description: Reconductor approximately 4 miles of the existing 115 kV Transmission Line from East Point to the College Park #3 tap. Reconductor the existing 115 kV Transmission Line section of approximately 2 miles from Barnett Road to Mountain View.

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. Also, 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: 2016

Project Name: **NELSON SUBSTATION**

Description: Upgrade the jumpers at Nelson on the Holly Springs – Nelson 115 kV Transmission Line, from 500 CU to 1590 AAC.

Supporting Statement: The loss of the Blankets Creek – Holly Springs 115 kV Transmission Line causes the Holly Springs – Nelson 115 kV Transmission Line to become overloaded.

---

In Year: 2016

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 to Doles Junction section of the North Americus – North Tifton 115 kV Transmission Line to overload.

---

In Year: 2016

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

Description: Reconductor 5.8 miles with 795 ACSR at 100°C from North Americus to New Era on the North Americus – Perry 115 kV Transmission Line.

Supporting Statement: The loss of the North Americus – Weyerhaeuser 115 kV Transmission Line overloads the North Americus – Perry 115 kV Transmission Line.

---

In Year: 2016

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

Description: Install a 30 MVAR 115 kV capacitor bank at Orange

Supporting Statement: Area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

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

Supporting Statement: Area voltage support.

---

In Year: 2016

Project Name: **PITTMAN ROAD – WEST POINT 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.1 miles of existing 636 ACSR with 1033 ACSR at 100°C along the West Point #2 – West Point section of the Pittman Road – West Point 115 kV Transmission Line.

Supporting Statement: The loss of the Fortson – Mulberry section of the Fortson – Lagrange 230 kV Transmission Line causes the West Point #2 – West Point 115 kV Transmission Line to become overloaded.

---

In Year: 2016

Project Name: **PITTMAN ROAD CAPACITOR BANK**

Description: Install a second 30 MVAR 115 kV capacitor bank at Pittman Road

Supporting Statement: Area voltage support.

---

In Year: 2016

Project Name: **PLANT VOGTLE NETWORK IMPROVEMENT PROJECT**

Description: Construct a 500 kV Transmission Line from Plant Vogtle to the new 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.

---

In Year: 2016

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

Description: Install a 90 MVAR, 115 kV capacitor bank

Supporting Statement: Area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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

Description: At the River, on the Claxton – Meldrim 115 kV Transmission Line, install a 30 MVAR, 115 kV capacitor bank and two 115 kV Transmission Line breakers.

Supporting Statement: Area voltage support.

---

In Year: 2016

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

Description: Construct a 230 kV Transmission Line from Parkaire to the Roswell substation, (approximately 4.5 miles) . 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 to Morgan Fall section of the Parkaire – Roswell 115 kV Transmission Line will overload the North Marietta – Roswell 115 kV Transmission Line.

---

In Year: 2016

Project Name: **SOCIAL CIRCLE PROJECT**

Description: Reconductor approximately 2.6 miles of existing 636 ASCR with 1033 ACSR 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, among other different contingencies, overloads the East Social Circle – Social Circle line segment of the Covington #3 – East Social Circle 115 kV Transmission Line.

---

In Year: 2016

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

Description: Increase the size of the 2 capacitor banks from 15 MVAR each to 30 MVAR each.

Supporting Statement: Area voltage support.

---

In Year: 2016

Project Name: **SOUTH MACON 230 / 115 KV SUBSTATION**

Description: Replace the existing 230 / 115 kV transformers with 400 MVA transformers and associated substation equipment at South Macon Substation.

Supporting Statement: The loss of either of the 230 / 115 kV transformers at South Macon Substation overloads the other transformer.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2016

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: 2016

Project Name: **WEST BRUNSWICK 230 KV CAPACITOR BANK**

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

Supporting Statement: Area voltage support.

---

In Year: 2016

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.

---

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. Install a 30 MVAR, 115 kV second Capacitor Bank at Moon Road Substation.

Supporting Statement: Area Voltage Support.

---

In Year: 2017

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

Description: Upgrade approximately 2.5 miles of 477 ACSR along the Nashville #1 – Nashville #2 section of the Barneyville – Douglas 115 kV Transmission Line to 100°C operation.

Supporting Statement: The loss of the North Tifton end of the North Tifton – Pine Grove 115 kV Transmission Line causes the Nashville #1– Nashville #2 section of the Barneyville – Douglas 115 kV Transmission Line to overload.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2017

Project Name: **BRANCH SUBSTATION UPGRADE PHASE 2**

Description: Replace two 3000 A 230 kV breakers and four associated switches with 4000 A 230 kV breakers and switches at Branch Substation. In addition, replace 4" AL bus with 6" AL bus on both sides of each of the two breakers.

Supporting Statement: The loss of one breaker at plant Branch, causes the other breaker to overload and vice versa.

---

In Year: 2017

Project Name: **CLARKSBORO – WINDER PRIMARY 230 KV TRANSMISSION LINE**

Description: Reconductor the Clarksboro – Winder 230 kV Transmission Line with 1351 ACSR.

Supporting Statement: The loss of the Middle Fork – South Hall 500 kV Transmission Line causes the Clarksboro – Winder Primary 230 kV Transmission Line to become overloaded.

---

In Year: 2017

Project Name: **CLERMONT JUNCTION – GAINESVILLE #1 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 9.7 miles of the Clermont Junction – Gainesville #1 115 kV Transmission Line with 1033 ACSR conductor. Replace 750 AAC jumpers at Hagar Creek and Kubota Drive with 1590 AAC jumpers.

Supporting Statement: The loss of the Middle Fork – South Hall 500 kV Transmission Line causes the Clermont Junction – Gainesville #1 115 kV Transmission Line to exceed its thermal rating.

---

In Year: 2017

Project Name: **CORNELIA – SOUTH CLEVELAND 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 8.3 miles with 795 ACSR along the Cornelia – Leaf section of the Cornelia – South Cleveland 115 kV Transmission Line. Replace 336.4 ACSR jumpers at Leaf and 750 AAC jumpers at Cornelia with 1000 A jumpers or greater.

Supporting Statement: The loss of the Clermont Junction – Clermont section of the Clermont Junction – South Cleveland 115 kV Transmission Line causes the Cornelia – Leaf line section of the Cornelia – South Cleveland 115 kV Transmission Line to overload.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2017

Project Name: **CORNELIA – TALLULAH LODGE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 16.7 miles of 1033 ACSR at 100°C along the Cornelia – Tallulah Lodge 115 kV Transmission Line . Replace two 600 A switches and associated jumpers with 1600 A equipment at Cornelia.

Supporting Statement: The loss of the Clermont Junction 230 / 115 kV Transformer causes the Cornelia – Clarksville segment of the Cornelia – Tallulah Lodge 115 kV Transmission Line to overload.

---

In Year: 2017

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

Description: Build a new 230 kV Transmission Line from Cornelia to Middle Fork. Terminate the Cornelia – Middle Fork 230 kV Transmission Line at Cornelia and Middle Fork and add a 400 MVA Transformer at Cornelia.

Supporting Statement: Needed to alleviate the overloads on the Middle Fork – Toccoa 115 kV Transmission Line, Avalon Junction – Middle Fork 115 kV Transmission Line, Clermont Junction – Middle Fork 230 kV Transmission Line , and Middlefork 230 / 115 kV transformer.

---

In Year: 2017

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

Description: Reconductor approximately 6.6 miles of existing 336 ASCR with 795 ACSR between Leach Rd. and Gainesville #1. Replace the 600 A switches at Gainesville #1 with 1200 A switches or greater.

Supporting Statement: The loss of the McGrau Ford 500 / 230 kV transformer bank will overload the Bark Camp – Gainesville #1 segment of the Dawson Crossing – Gainesville #1 115 kV Transmission Line. The Bark Camp – Leach Rd. segment of the Dawson Crossing – Gainesville #1 115 kV Transmission Line will start overloading for certain single element outages.

---

In Year: 2017

Project Name: **DORCHESTER 230 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 and 117 MVAR, 230 kV capacitor bank at Dorchester. Construct the Dorchester – Walthoursville 115 kV line section. Install a 115 kV breaker at Hinesville for the new Dorchester 115 kV Transmission Line. Install a new 230 kV breaker at West Brunswick to terminate the new Dorchester 230 kV Transmission Line. Reconductor the Dorchester – Little Ogeechee 230 kV Transmission Line with 2–1351 ACSR.

Supporting Statement: The loss of the Dorchester – Little Ogeechee 230 kV Transmission Line or the Dorchester 400 MVA, 230 kV transformer overloads the Little Oggeechee – Daniel Siding 115 kV Transmission Line section. The loss of the Little Ogeechee – Richmond Hill 115 kV Transmission Line section overloads the Dorchester 400 MVA, 230 / 115 kV transformer.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2017

Project Name: **EAST CARROLLTON 230 / 115 KV SUBSTATION**

Description: Construct the E. Carrollton 230 / 115 kV substation, looping the Hickory Level – Yellowdirt 230 kV Transmission Line and the Possum Branch – Yates 115 kV Transmission Line. Reconductor 1.5 miles of 477 ACSR with 1351 ACSR 115 kV Transmission Line from Clem – Oak Mtn. – Holox – E. Carrollton – Southwire – Carrollton #2 Junction.

Supporting Statement: With Yates 3 offline, the loss of the Hickory Level – Sand Hill section of the Hickory Level – Possum Branch 115 kV Transmisison Line causes the Mt. Zion – Jonesville Jct. section of the Bremen – Possum Branch 115 kV Transmission Line to overload. The loss of either the Bremen or Hickory Level 230/115 kV transformers will cause the other transformer to exceed its 400 MVA rating. The loss of the Possum Branch – Tisinger 115 kV segment overloads the Yates end of Possum Branch – Yates 115 kV Transmission Line.

---

In Year: 2017

Project Name: **EATONTON – PORTERDALE 230 KV TRANSMISSION LINE**

Description: Replace 1200 A switches, 1200 A line trap, and 1590 AAC jumpers at Porterdale on the Eatonton – Porterdale 230 kV Transmission Line.

Supporting Statement: The loss of the Klondike – Scherer 500 kV Transmission Line causes the Porterdale to North Monticello section of the Eatonton – Porterdale 230 kV Transmission Line to become overloaded.

---

In Year: 2017

Project Name: **GAINESVILLE #2 – MCEVER RD. 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 Chicopee – Oakwood line segment of the Gainesville #2 – McEver Rd 115 kV Transmission Line.

---

In Year: 2017

Project Name: **HOPEWELL – MCGRAU FORD SECOND 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.

Supporting Statement: The reactor in the Hopewell – McGrau Ford 230 kV Transmission Line to be removed 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.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2017

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 overloads the Kettle Creek Primary – Offerman White 115 kV Transmission Line.

---

In Year: 2017

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

Description: Reconductor approximately 2.6 miles of existing 636 ACSR with 1351 ACSR at 100°C along the Roswell – McPherson section of 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 will overload the Roswell to McPherson section of the Lassiter Road – Roswell 115 kV Transmission Line.

---

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 will overload the Lawrenceville – Lawrenceville City #3 section of the Lawrenceville – Moon Road 115 kV Transmission Line.

---

In Year: 2017

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

Description: Reconductor approximately 7.06 miles of 636 ACSR conductor with 1351 ACSR from Winder to Dacula.

Supporting Statement: The loss of the Lawrenceville – Winder 230 kV Transmission Line will overload the Winder to Dacula section of this line.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2017

Project Name: **MIDDLE FORK – THOMSON 500 KV TRANSMISSION LINE**

Description: Build approximately 110 miles of new 500 kV Transmission Line from Middle Fork to Thomson.

Supporting Statement: This project is required to support the expected generation expansion plan in the Wallace Dam area along with the Middle Fork 500/230 kV project and the East Walton – South Hall 500 kV project.

---

In Year: 2017

Project Name: **MIDDLE FORK 500 / 230 KV PROJECT**

Description: Install a 500 / 230 kV, 1344 MVA Transformer at Middle Fork and loop the South Hall – Oconee 500 kV Transmission Line into the Substation. Replace the existing 300 MVA 230 / 115 kV transformer with a 400 MVA transformer.

Supporting Statement: This project is required to support the expected generation expansion plan in the Wallace Dam area along with Middle Fork – Thomson 500 kV project and East Walton – South Hall 500 kV project.

---

In Year: 2017

Project Name: **OFFERMAN 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: 2017

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

Description: Install a second 500 / 230 kV transformer at the O'Hara substation.

Supporting Statement: The loss of the 500 / 230 kV transformer at O'Hara causes Union City's 500 / 230 kV transformer to overload.

---

In Year: 2017

Project Name: **PITTMAN ROAD – WEST POINT 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.3 miles of existing 636 ACSR with 1033 ACSR at 100°C along the Pittman Road – West Point #2 section of the Pittman Road – West Point 115 kV Transmission Line.

Supporting Statement: The loss of the Fortson – Mulberry section of the Fortson – Lagrange 230 kV Transmission Line causes the Pittman Road – West Point #2 section of the Pittman Road – West Point 115 kV Transmission Line to become overloaded.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2017

Project Name: **SOUTH HALL – SUWANEE 230 KV TRANSMISSION LINE**

Description: Construct approximately 19 miles of 1622 ACSR/TW 230 kV Transmission Line from South Hall – Suwanee.

Supporting Statement: The loss of the Norcross – South Hall 500 kV Transmission Line will overload the South Hall – Shoal Creek 230 kV Transmission Line.

---

In Year: 2017

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: **BRANCH – EATONTON 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: **BULL CREEK – VICTORY DRIVE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.5 miles of 115 kV Transmission Line with 795 ACSR from Victory Drive to St. Marys Junction on the Bull Creek – Victory Drive 115 kV Transmission Line.

Supporting Statement: The loss of the First Avenue end of the Bull Creek – First Avenue 115 kV Transmission Line causes the Victory Drive – Chloride segment of the Bull Creek – Victory Drive 115 kV Transmission Line to overload.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2018

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

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

Supporting Statement: Area voltage support.

---

In Year: 2018

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: 2018

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

Description: Construct a 500 kV Transmission Line from the South Hall 500 / 230 kV Substation to the new East Walton 500 / 230 / 115 kV Substation.

Supporting Statement: This project is required to support the expected generation expansion plan in the Wallace Dam area along with Middle Fork – Thomson 500 kV project and Middle Fork 500 / 230 kV project.

---

In Year: 2018

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

Description: Install a 45 MVAR, 115 kV capacitor bank at Emory substation.

Supporting Statement: Area volltage support.

---

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 lowside breakers.

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.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2018

Project Name: **HOLLY SPRING – HOPEWELL 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 3.27 miles of 636 ACSR with 1033 ACSR along the Holly Springs – Hopewell 115 kV Transmission Line.

Supporting Statement: The loss of the Holly Springs end of the Holly Springs – Hopewell 115 kV Transmission Line overloads the Hopewell – Birmingham segment of the line.

---

In Year: 2018

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

Description: Reconductor approximately 5.49 miles along the Kathleen – Cagles section of the Kathleen – Perry 115 kV Transmission Line. Replace 350 AAC jumpers on both sides of the Cagles – Medusa section.

Supporting Statement: The loss of Bonaire – Hwy 96 115 kV Transmission Line, with Branch Unit #4 or Yates Unit #7 offline, causes the Kathleen – Cagles 115 kV section to become overloaded.

---

In Year: 2018

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

Description: Upgrade the Jamestown – Northeast Waycross section of the Kettle Creek – Offerman (White) 115 kV Transmission Line to 100°C operatio n.

Supporting Statement: The loss of the Kettle Creek – Glenmore Junction line section of the Kettle Creek – Offerman 115 kV Transmission Line overloads the Jamestown – NE Waycross line section of the line.

---

In Year: 2018

Project Name: **LLOYD SHOALS / PORTERDALE AREA IMPROVEMENT**

Description: Upgrade approximately 5.6 miles of 397 ACSR conductor to 100°C from the South Covington Junction to Jackson Lake section of the Lloyd Shoals – Porterdale 115 kV Transmission Line. Install a 50 MVAR, 115 kV capacitor bank on the Lloyd Shoals 115 kV bus.

Supporting Statement: The loss of the South Griffin end of the Lloyd Shoals – South Griffin 115 kV Transmission Line causes the South Covington Junction – Jackson Lake section of the Lloyd Shoals – Porterdale 115 kV Transmission Line to overload. Capacitor Bank provides area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2018

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: 2018

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: Base loading on the McIntosh 230 / 115 kV transformer will be 100% of its nameplate.

---

In Year: 2018

Project Name: **NORCROSS – DERING CIRCLE 230 KV TRANSMISSION LINE**

Description: Replace the 1200 A line traps and 1200 A switches at Dering Circle.

Supporting Statement: The loss of the Bull Sluice to North Spring section of the Bull Sluice – North Park 230 kV Transmission Line will overload the Dering Circle – Norcross 230 kV Transmission Line.

---

In Year: 2018

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

Description: Reconductor approximately 3.97 miles with 1033 ACSS at 160°C along the Berkeley Lake to Spruill Road section of the Norcross – Ocee 230 kV Transmission Line. Replace terminal equipment at Atlanta Fulton County Water and Ocee.

Supporting Statement: The loss of the Alpharetta – Glaze Drive 230 kV Transmission Line causes the Berkeley Lake to Spurill Road section of the Norcross – Ocee 230 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 overload.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2018

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

Description: Install a 238 MVAR, 230 kV at Porterdale substation.

Supporting Statement: Area voltage support.

---

In Year: 2018

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

Description: Install a second 230 / 115 kV Transformer in the Scottdale 230 / 115 kV Substation.

Supporting Statement: The loss of the existing Scottdale 230 / 115 kV transformer will overload the Austin Drive – Decatur 115 kV Transmission Line and the Grady – Moreland Avenue 115 kV reactor.

---

In Year: 2018

Project Name: **SHARON SPRINGS – SUWANEE 230 KV TRANSMISSION LINE**

Description: Construct approximately 14.5 miles of 1351 ACSR 230 kV Transmission Line from Sharon Springs to Suwanee. Install a 230 kV breaker at Suwanee to terminate 230 kV Transmission Line to Sharon Springs.

Supporting Statement: The loss of the Norcross – South Hall 500 kV Transmission Line causes the South Hall – Spout Springs 230 kV Transmission Line to become overloaded.

---

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: For the loss of either end of the South Coweta – Yates 115 kV Transmission Line with Yates 3 offline, the South Coweta - Sharpesburg or the Yates - Madras - Yamaha sections of the South Coweta – Yates 115 kV Transmission Line become overloaded.

---

In Year: 2019

Project Name: **2019 BASE REACTIVE SUPPORT**

Description: At Ocee, install a 90 MVAR, 230 kV capacitor bank. At Moon Road, replace the existing 60 MVAR capacitor bank with a 90 MVAR, 115 kV capacitor bank. At Factory Shoals, install a 30 MVAR, 115 kV capacitor bank.

Supporting Statement: Area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2019

Project Name: **ADAMSVILLE – DOUGLASVILLE 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 1.6 miles of 1033 AAC in the Adamsville – Bakers Ferry section of the Adamsville – Douglasville 230 kV Transmission Line.

Supporting Statement: The loss of the Douglasville – Villa Rica 230 kV Transmission Line causes the Adamsville – Bakers Ferry section of the Adamsville – Douglasville 230 kV Transmission Line to become overloaded.

---

In Year: 2019

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: 2019

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

Description: Reconductor approximately 2.9 miles of existing 1033 ACSR with 1351 SSAC 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: **BLANKETS CREEK – HOLLY SPRINGS 115 KV TRANSMISSION LINE**

Description: Construct a second Blankets Creek – Holly Springs 115 kV Transmission Line and install a 115 kV breaker at Blankets Creek and Holly Springs

Supporting Statement: The loss of the Blankets Creek – Holly Springs 115 kV Transmission Line causes the Nelson – North Keithsburg section of the Holly Springs – Nelson 115 kV Transmission Line to become overloaded.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2019

Project Name: **BOULEVARD – BUCKHEAD 230 KV TRANSMISSION LINE**

Description: Replace the 1200 A switches and 1590 AAC jumpers at Boulevard, as well as the 1590 AAC jumpers at Lindbergh on the Boulevard – Buckhead 230 kV Transmission Line.

Supporting Statement: The loss of the Bull Sluice – Sandy Springs section of the Bull Sluice – North Park 230 kV Transmission Line causes the Boulevard – Buckhead 230 kV Transmission Line to become overloaded.

---

In Year: 2019

Project Name: **BREMEN – POSSUM BRANCH 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 5.07 miles of 115 kV Transmission Line with 1033 ACSR from Bremen to North Mt Zion, and 1.02 miles from North Mt. Zion to Jonesville Junction.

Supporting Statement: With Yates #3 offline, the loss of the Hickory Level – Sandhill segment of the Hickory Level – Possum Branch 115 kV Transmission Line causes the Bremen - Mt. Zion section of the Bremen – Possum Branch 115 kV Transmission Line to become overloaded.

---

In Year: 2019

Project Name: **BUCKHEAD AREA 230 KV CAPACITOR BANK**

Description: Install a 120 MVAR 230 kV capacitor bank

Supporting Statement: Area voltage and VAR support.

---

In Year: 2019

Project Name: **COCHRAN CAPACITOR BANK**

Description: Install 15 MVAR capacitor bank at Cochran Substation.

Supporting Statement: Area voltage support.

---

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.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2019

Project Name: **COMMERCE PRIMARY – MIDDLE FORK 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 13.9 miles with 1033 ACSR at 100°C along the Middle Fork – North Commerce Junction 115 kV Transmission Line segment. Replace 500 Cu jumpers at Commerce Primary with 1590 AAC jumpers.

Supporting Statement: The loss of the Middlefork – South Hall 500 kV Transmission Line causes the Middle Fork – North Commerce Junction section of the Commerce Primary – Middle Fork 115 kV Transmission Line to become overloaded.

---

In Year: 2019

Project Name: **DAWSON AREA CAPACITOR BANKS**

Description: Install a 90 MVAR, 230 kV capacitor with associated equipment at Dawson Crossing 230 / 115 kV Substation. Install a 30 MVAR, 115 kV capacitor with associated equipment in the Hammond Crossing 115 / 25 kV Substation.

Supporting Statement: Area voltage support.

---

In Year: 2019

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

Description: Upgrade approximately 16.4 miles along the Sylvania – King Mfg – Dover tap sections of the Statesboro Primary – Sylvania 115 kV Transmission Line to 100 °C.

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV Transmission Line causes the Sylvania - King Mfg - Dover Tap sections of the Statesboro Primary – Sylvania 115 kV Transmission Line to become overloaded.

---

In Year: 2019

Project Name: **GILMAN PAPER – PATTERSON 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 7.0 miles along the Gilman – Patterson section of the Offerman – Gilman Paper 115 kV Transmission Line from 50°C op eration to 100°C.

Supporting Statement: The loss of the Blackshear Junction – Blacshear Tap section of the Offerman – Kettle Creek Primary (White) 115 kV Transmission Line causes the Gilman Paper – Patterson section to become overloaded.

---

In Year: 2019

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

Description: Reconductor approximately 8 miles of 230 kV Transmission Line with 1351 SSAC at 160 ° C from the Jonesboro Substation to the O'Hara Substation.

Supporting Statement: The loss of the Union City 500 / 230 kV transformer causes the Jonesboro – O'Hara 230 kV Transmission Line to become overloaded.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2019

Project Name: **KLONDIKE – PORTERDALE 230 KV TRANSMISSION LINE**

Description: Replace 1200 A switches, 1200 A trap, and 1590 AAC jumpers at Porterdale, and 1200 A trap and 1590 AAC jumpers at Klondike on the Klondike – Porterdale 230 kV Transmission Line.

Supporting Statement: The loss of the Branch – Eatonton 230 kV Transmission Line causes the Klondike to Smyrna Church section of the Klondike – Porterdale 230 kV Transmission Line to become overloaded.

---

In Year: 2019

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

Description: Install a 162 MVAR, 230 kV capacitor bank at the Klondike 500 / 230 kV substation.

Supporting Statement: Area voltage support.

---

In Year: 2019

Project Name: **LAFAYETTE – LAFAYETTE #3 115 KV TRANSMISSION LINE**

Description: Constuct approximately 2.1 miles of 115 kV Transmission Line with 795 ACSR at 100°C from LaFayette to LaFayette #3.

Supporting Statement: The loss of the Lafayette end of the Hammond – LaFayette 115 kV Transmission Line results in low voltage at Lafayette.

---

In Year: 2019

Project Name: **LICK CREEK CAPACITOR BANK**

Description: Replace existing 30 MVAR capacitor bank with 60 MVAR capacitor bank.

Supporting Statement: Area voltage support.

---

In Year: 2019

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

Description: Replace the existing 58.5 MVAR capacitor bank with a 90 MVAR, 115 kV capacitor bank at Lilburn

Supporting Statement: Area voltage support.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2019

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

Description: Add a second stage 35MVAR, 115 kV capacitor bank at Line Creek 230 / 115 kV Substation.

Supporting Statement: Area voltage support.

---

In Year: 2019

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.

---

In Year: 2019

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

Description: Install a 90 MVAR capacitor bank at Monroe 115 kV Substation.

Supporting Statement: Area Voltage Support.

---

In Year: 2019

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 100°C 636 ACSR 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 overload.

---

In Year: 2019

Project Name: **RIVER – GP ELLABELL 115 KV TRANSMISSION LINE**

Description: Construct approximately 0.5 miles of new 115 kV Transmission Line from River to Georgia Pacific Ellabell Substation with 336 ACSR at 100°C .

Supporting Statement: The loss of the River – Old Louisville Road tap section of the Claxton – Meldrim 115 kV Transmission Line results in unacceptable area bus voltages.

---

PRELIMINARY

# EAST REGION PROJECTS

In Year: 2019

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

Description: Upgrade the Stillmore – Metter section of the Statesboro – Wadley 115 kV Transmission Line to 100°C operation. Increase the capacitance at Swainsboro by 11 MVARs.

Supporting Statement: The loss of the Wadley Primary – Wadley section of the Statesboro – Wadley 115 kV Transmission Line overloads the Stillmore – Metter section of the line.

---

In Year: 2019

Project Name: **UNION POINT PRIMARY 115 KV CAPACITOR BANK**

Description: Install a second 30 MVAR capacitor bank.

Supporting Statement: Area voltage support.

---

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: 2019

Project Name: **WEST MCINTOSH – MCINTOSH 230 KV TRANSMISSION LINES**

Description: Install 1%, 4000 A reactors at West McIntosh on the McIntosh – West McIntosh 230 kV Black and White Transmission Lines.

Supporting Statement: The loss of a McIntosh – West McIntosh 230 kV Transmission Line causes the other line to become overloaded.

---

In Year: 2019

Project Name: **WILSON 230 KV SUBSTATION**

Description: Replace 1600 A line switches on the Vogtle and Waynesboro 230 kV Transmission Lines with 2500 A switches.

Supporting Statement: The loss of the Vogtle – West McIntosh 500 kV Transmission Line overloads the Vogtle – Wilson
230 kV and Waynesboro – Wilson 230 kV Transmission Lines.

---

PRELIMINARY

# Section 2.

# PRELIMINARY 10 YEAR EXPANSION PLAN

# WEST REGION

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **SIMCALA CAPACITOR BANK** |
| Description: | Replace the 30 MVAR capacitor bank at Simcala with a 30 MVAR harmonic filtered bank. |
| Supporting Statement: | A harmonic filtered capacitor bank needed to alleviate harmonics in area. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **CHELSEA TAP – DOUBLE OAK MOUNTAIN TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor 1.76 miles of 397 ACSR 115 kV Transmission Line with 795 ACSR between Chelsea Tap and Double Oak Mountain |
| Supporting Statement: | Chelsea Tap to Double Oak Mountain Tap 115 kV changes from a radial tap to part of a new 115 kV network between East Pelham Substation and East Chelsea Switching Station. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **HILLABEE – NORTH OPELIKA 230 KV TRANSMISSION LINE** |
| Description: | Upgrade approximately 37.6 miles 1351 ACSR from Hillabee to Danway 230 kV Transmission Line to 110º C operation. |
| Supporting Statement: | The loading on the Hillabee – North Opelika 230 kV Transmission Line exceeds the thermal rating of the transmission line under contingency conditions and certain generation scenarios. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **HOLT – TUSCALOOSA 230 KV TRANSMISSION LINE** |
| Description: | Construct 6.9 miles of new 1351 54/19 ACSS at 200°C 230 kV Transmission Line from Holt to Tuscaloosa. |
| Supporting Statement: | The loss of the Holt – NUCOR Steel 115 kV Transmission Line, with Greene County Unit #1 and the Greene County CTs off-line, causes thermal overloads in the Tuscaloosa area. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **NORTH THEODORE – DAWES TAP 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)** |
| Description: | Reconductor approximately 9.9 miles of 397 ACSR at 75°C with 795 ACSS at 160°C along the North Theodore – Dawes Tap 115 kV Transmission Line. |
| Supporting Statement: | Network Improvement. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **GARDENDALE CAPACITOR BANK** |
| Description: | Install a 15 MVAR Capacitor Bank at Gardendale DS. |
| Supporting Statement: | Area voltage support. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **INTERNATIONAL PAPER RIVERDALE CAPACITOR BANK** |
| Description: | Install a 15 MVAR Capacitor Bank in the International Paper Riverdale Area |
| Supporting Statement: | Area voltage support. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **CARRIERE SW 230 / 115 KV SUBSTATION** |
| Description: | Continue the Kiln–Necaise 115 kV Transmission Line to Salem. Install a 400 MVA rated Transformer at Logtown and move the existing Logtown Transformer to Carriere SW. Construct new 230 / 115 kV Substation at Carriere SW and complete the 230 kV line from Kiln to Carriere SW. Upgrade the Picayune 115 kV substation. |
| Supporting Statement: | The loss of the Necaise – Spence 115 kV Transmission line results in overload of Kiln – Nicholson Tap 115 kV line and vice versa. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **PASCAGOULA BAYOU CASOTTE – GULF LNG PROJECT** |
| Description: | Replace the second 115 / 23 kV transformer at Bayou Casotte with a larger transformer. Replace three sets of 400 copper jumpers at Bayou Casotte Substation with 750 copper jumpers on the Chevron Cogen – Bayou Casotte Transmission Line. |
| Supporting Statement: | Upgrade Bayou Casotte substation for new customer to be served off the 23 kV system. |

PRELIMINARY

# WEST REGION 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: | **NORTH THEODORE SUBSTATION (MOBILE AREA 115 KV NETWORKING)** |
| Description: | Install distance relaying and retire existing over–current relaying on two line terminals at North Theodore Substation. Upgrade the Big Creek line terminal to 2000 A. |
| 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 off-line, overloads the Silverhill – Magnolia 115 kV Transmission Line. |

| | |
|---|---|
| In Year: | 2012 |
| Project Name: | **HILLABEE – DANWAY 230 KV TRANSMISSION LINE** |
| Description: | Upgrade approximately 32 miles of 1351 ACSR from Hillabee to Danway SS 230 kV Transmission Line to 110º C operation. |
| Supporting Statement: | The loading on the Hillabee – Danway 230 kV Transmission Line exceeds the thermal rating of the transmission line under contingency conditions and certain generation scenarios. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| 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 160º C 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 and the Autaugaville 500 / 230 kV Transformer installed in 2013, causes the Montgomery SS – South Montgomery 230 kV Transmission Line to become overloaded. |

| | |
|---|---|
| In Year: | 2012 |
| Project Name: | **CLARKEDALE DELIVERY POINT** |
| Description: | New 115 kV service point for EMEPA to shift load from Lost Gap, Vimville and Quitman substations to their new substation. |
| Supporting Statement: | Customer driven project. Depends on EMEPA load exceeding area bank capacities. |

| | |
|---|---|
| In Year: | 2012 |
| 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: | 2012 |
| Project Name: | **EATON – HATTIESBURG COUNTY DRIVE 115 KV TRANSMISSION LINE** |
| Description: | Replace 4/0 Cu jumpers at Eaton with 1033 ACSR. |
| Supporting Statement: | The loss of the Hattiesburg SW - Hwy 11 115 kV Transmission Line overloads the jumpers at Eaton. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2012 |
| Project Name: | **HATTIESBURG SW TO 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 overloads this line. |

| | |
|---|---|
| In Year: | 2012 |
| Project Name: | **PLANT SWEATT – CLARKEDALE TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor the Plant Sweatt to Clarkedale Tap 115 kV Transmission Line with 795 ACSR at 100°C and replace 600 A switches and jumpe rs at Plant Sweatt. |
| Supporting Statement: | The loss of the Laurel North – Denbury Heidelberg 115 kV Transmission Line overloads this line segment. |

| | |
|---|---|
| In Year: | 2012 |
| Project Name: | **CLARKEDALE TAP – STONEWALL 115 KV TRANSMISSION LINE** |
| Description: | Reconductor the Clarkedale Tap to Stonewall 115 kV Transmission Line with 795 ACSR at 100°C and replace switches and jumpers at Stonewall Substation. |
| Supporting Statement: | The loss of the Laurel North – Denbury Heidelberg 115 kV Transmission Line overloads this line segment. |

| | |
|---|---|
| In Year: | 2013 |
| Project Name: | **GOLDEN SPRINGS – CHEAHA TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 0.79 miles of 397 ACSR at 75º C with 795 ACSR at 100º C. |
| Supporting Statement: | The loading on the Golden Springs – Cheaha Tap 115 kV Transmission Line section exceeds the thermal rating in 2013. |

| | |
|---|---|
| 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2013 |
| Project Name: | **PINCKARD – SLOCOMB 115 KV TRANSMISSION LINE** |
| Description: | Reconductor 12.5 miles with 1033 ACSS at 160º C along the Pinckard TS – Slocomb TS 115 kV Transmission Line. 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 overload. |

| | |
|---|---|
| In Year: | 2013 |
| Project Name: | **WESTGATE – RUCKER BOULEVARD TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 2.4 miles with 795 26/7 ACSR at 100º C along the Westgate to Rucker Boulevard Tap 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Pinckard – Fort Rucker Tap (South) 115 kV Transmission Line, with Lansing Smith Unit #3 offline, causes the Westgate – Rucker Boulevard Tap 115 kV Transmission Line to overload. |

| | |
|---|---|
| In Year: | 2013 |
| Project Name: | **AUTAUGAVILLE 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 3.38 miles with 795 26/7 ACSR at 100º C 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: | **FARLEY CAPACITOR BANK** |
| Description: | Install a 120 MVAR Capacitor Bank at Farley Substation. |
| Supporting Statement: | Area Voltage Support. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2013 |
| Project Name: | **PLANT DANIEL – MOSS POINT EAST 230 KV TRANSMISSION LINE** |
| Description: | Replace the 2000 A line traps at Plant Daniel and at Moss Point East 230 kV substations. |
| Supporting Statement: | Line traps will be replaced in conjunction with a relay upgrade at the substation. In addition, the loss of the Plant Daniel - Big Creek 230 kV Transmission Line, with Barry #5 off-line, causes the line traps at Plant Daniel and at Moss Point East (on the Daniel – Moss Point East 230 kV line) to overload in future years. |

| | |
|---|---|
| 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 overload. |

| | |
|---|---|
| In Year: | 2013 |
| 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 overloads the parallel circuit. |

| | |
|---|---|
| In Year: | 2013 |
| 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 Wigg ins 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2013 |
| Project Name: | **SMITH – LAGUNA BEACH 230 KV TRANSMISSION LINE** |
| Description: | Reconductor the Smith – Laguna Beach 115 kV Transmission Line with 1351 ACSR and convert the line to 230 kV operation. |
| 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 exceed its thermal limit. |

| | |
|---|---|
| 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 #1 offline, overloads the Laguna Beach 230 / 115 kV Transformer. |

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **EPES – EUTAW 115 KV TRANSMISSION LINE** |
| Description: | Construct approximately 22.5 miles of 1033 54/7 ACSS at 160º C 115 kV Transmission Line from Epes to 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: | **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 125º C operation. |
| Supporting Statement: | The thermal rating of the Henry Dam – Cedar Bend 115 kV Transmission Line is exceeded during summer contingency conditions. |

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **CEDAR BEND – NORTH CEDAR BEND 115 KV TRANSMISSION LINE** |
| Description: | Upgrade approximately 0.62 miles along the Cedar Bend – N. Cedar Bend 115 kV Transmission Line to 100º C operation. |
| Supporting Statement: | The thermal rating of the Henry Dam – Cedar Bend 115 kV Transmission Line is exceeded during 2014 summer contingency conditions. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **ANNISTON AREA TRANSMISSION IMPROVEMENT** |
| Description: | Reconductor 1.5 miles of 2/0 Cu in the existing Anniston – Oxanna 115 kV Transmission Line with 795 ACSR. Reconnect 0.67 miles of 397 ACSR tap to Oxanna TS to the Anniston – Bynum 115 kV Transmission Line (1351 ACSS) with a 3–way 115 kV switch at the tap point. Add a second 795 ACSR circuit to existing double circuit structures on the West End – Greenbrier pole line and reconductor to the Cheaha tap with 795 ACSR to complete the new Anniston – Crooked Creek 115 kV Transmission Line. |
| Supporting Statement: | The loss of the West End DS – Oxanna Tap 115 kV line section 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: | **NORTH MOBILE – CRICHTON #1 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)** |
| Description: | Reconductor 2.81 miles in the existing North Mobile – Crichton #1 115 kV Transmission Line with 795 ACSS to construct the new North Mobile – North Crichton line and terminate this line into North Crichton Switching Station. |
| Supporting Statement: | Network improvement. |

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

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **GASTON – ROOPVILLE 230 KV TRANSMISSION LINE** |
| Description: | Upgrade approximately 72 miles of 1351 ACSR from Gaston SP to Roopville SS 230 kV Transmission Line to 100º C operation. |
| Supporting Statement: | The loading on the Gaston - Roopville 230 kV Transmission Line exceeds the thermal rating of the transmission line under contingency conditions and certain generation scenarios. |

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **PINKARD – FORT RUCKER TAP NORTH 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 0.32 miles with 795 26/7 ACSR at 100°C along the Pinckard to Fort Rucker North 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Pinckard – Fort Rucker Tap (South) 115 kV Transmission Line, with Lansing Smith Unit #3 offline, causes the Pinkard – Fort Rucker Tap (North) 115 kV Transmission Line to overload. |

PRELIMINARY

# WEST REGION 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: | **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 loading on the Golden Springs – Anniston Tap 115 kV Transmission Line section exceeds the thermal rating under contingency conditions. |

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **GASTON – EAST PELHAM 230 KV TRANSMISSION LINE** |
| Description: | Upgrade the Gaston – Twelve Oaks – East Pelham 230 kV Transmission Line to 100° C operation. |
| Supporting Statement: | The loading on the Gaston – East Pelham 230 kV Transmission Line exceeds its thermal rating under contingency conditions. |

| | |
|---|---|
| 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 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: | **NORTH SELMA – INTER PAPER TAP 115 KV TRANSMISSION LINE** |
| Description: | Construct a new 115 kV Double Circuit from North Selma TS – Inter 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 issues on the West Selma – South Selma 115 kV Transmission Line and the South Selma – Alamet Tap 115 kV Transmission Line. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **SLOCOMB – AL / FL STATE LINE 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 8.23 miles with 1033 ACSS 160º C along the Slocomb TS – AL / FL State 115 kV Transmission Line. |
| Supporting Statement: | Outage of Farley – Sinai Cemetery 230 kV Transmission Line with Smith #3 off-line causes the Pinckard TS – Slocomb TS 115 kV to overload. |

| | |
|---|---|
| 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 to Anniston 115 kV Transmission Line to 200º C 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 overload. |

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **SNOWDOUN – PIKE COUNTY 230 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 32.42 miles with 1351 54/19 ACSS at 160º C along the Snowdoun to 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| 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 Laure l North and one switch at Heidelberg. |
| Supporting Statement: | The loss of the Plant Sweatt to Clarkedale Tap 115 kV Transmission Line overloads this line segment. |

| | |
|---|---|
| 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. |

| | |
|---|---|
| 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2014 |
| 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: | 2014 |
| Project Name: | **PINE FOREST – MOLINO 115 KV TRANSMISSION LINE** |
| Description: | Reconductor the Pine Forest – Molino 115 kV Transmission Line with 1033 ACSR. |
| Supporting Statement: | The loss of the Barry SP – Crist SP 230 kV Transmission Line, with Crist Unit #1 offline, causes the Molino – Champion 115 kV Transmission Line to exceed its thermal rating. |

| | |
|---|---|
| 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 160º C 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. |

| | |
|---|---|
| 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| 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 ACSR 115 kV Tranmission Line from Schillinger Road to Lott Road Tap. |
| Supporting Statement: | Network 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 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: | 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 & new North Crichton Switching Station. Install a Transrupter 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. |

PRELIMINARY

# WEST REGION 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: | Reconduct approximately 1.83 miles with 795 26/7 ACSR at 100º C along the Wolf Ridge Tap to Springhill D.S. 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 along the Michael Boulevard D.S. to Michael Boulevard Tap 115 kV Transmission Line to 100º C operation. |
| Supporting Statement: | Network improvement. |

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **DALEVILLE – RUCKER BOULEVARD TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 4.5 miles with 795 26/7 ACSR at 100°C along the Daleville to Rucker Boulevard Tap 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Pinckard – Fort Rucker Tap (South) 115 kV Transmission Line, with Lansing Smith Unit #3 offline, causes the Daleville – Rucker Boulevard 115 kV Transmission Line to overload. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **WESTGATE – ENTERPRISE TAP – SOUTH ENTERPRISE 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 0.25 miles with 795 26/7 ACSR at 100°C along the Westgate to Enterprise Tap to South Enterprise 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Pinckard – Fort Rucker Tap (South) 115 kV Transmission Line, with Lansing Smith Unit #3 offline, causes the Westgate – Enterprise Tap – South Enterprise 115 kV Transmission Line to overload. |

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **KIMBERLY CLARK SUBSTATION** |
| Description: | Upgrade the terminals 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. |

| | |
|---|---|
| In Year: | 2015 |
| 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: | 2015 |
| Project Name: | **MERIDIAN INDUSTRIAL 115 KV TRANSMISSION LINES PROJECT** |
| Description: | Tap the Meridian NE to Hawkins Crossing 115 kV Transmission Line and construct approximately 3.5 miles of new 795 ACSR 115 kV Transmission Line to a new Meridian Industrial Substation. Reconductor approximately 0.6 miles of existing 115 kV Transmission Line from the tap point to Meridian NE with 795 ACSR and install a 3–way switch. |
| Supporting Statement: | Necessary to serve area load growth. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **BILOXI OAK STREET 115 KV TRANSMISSION LINE** |
| Description: | Construct a new 115 kV 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 exceeds its existing capacity. |

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **SHOAL RIVER – SANTA ROSA – LAGUNA BEACH 230 KV TRANSMISSION LINE** |
| 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: | This project is in conjunction with Santa Rosa 230 / 115 kV substation and rebuild of the Smith – Laguna Beach line. |

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **ALLIGATOR SWAMP SUBSTATION** |
| Description: | Install a 100 MVAR 230 kV filtered capacitor bank at Alligator Swamp Substation. |
| Supporting Statement: | Area voltage support. |

| | |
|---|---|
| In Year: | 2015 |
| Project Name: | **AIR PRODUCTS – AVALON TAP 115 KV TRANSMISSION LINE** |
| Description: | Construct a new 5.0 mile 477 ACSR 115 kV Transmission Line from Air Product to Avalon Tap. |
| Supporting Statement: | The loss of the Crist S.P. – Pace #1 115 kV Transmission Line, with Smith Unit #3 offline, causes thermal and voltage issues on the Crestview – Holt–Munson – Jay Road 2 115 kV Transmission Line. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2015 |
| 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, overloads the Laguna Beach – Lullwater Tap 115 kV Transmission Line. |

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **TUSCALOOSA SOLUTION PHASE 2** |
| Description: | Install a 230 / 115 kV Transformer at South Duncanville; construct a new 1033 ACSS 115 kV Transmission Line from South Tuscaloosa – South Duncanville. Reconductor existing 2/0 115 kV Transmission Line to Big Sandy Tap with 397 ACSR. |
| 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: | 2016 |
| Project Name: | **BARRY – CHICKASAW 230 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 19.18 miles with bundled (2) 959 TW/ACSS at 150º C along the Barry S.P. to Chickasaw TS 230 kV Transmission Line. |
| Supporting Statement: | The loss of the Barry – Crist 230 kV Transmission Line, with Crist Unit #7 and Hog Bayou Units offline, causes the Barry – Chickasaw 230 kV Transmission Line to exceed its thermal rating . |

| | |
|---|---|
| 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 160º C along the Springdale to Springhill 115 kV Transmission Line. |
| Supporting Statement: | Network improvement. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **WEST MONTGOMERY – WELL ROAD TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 2.45 miles with 795 ACSS 160º C along the West Montgomery to Well Road Tap 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Greenville 230 / 115 kV transformer causes the West Montgomery – Well Road Tap 115 kV Transmission Line to exceed its thermal rating. |

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **WOODCREST TAP – WELL ROAD TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 2.5 miles with 795 ACSS at 160º C along the Woodcrest Tap to Well Road Tap 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Greenville 230 / 115 kV Transformer causes the loading on Woodcrest Tap – Well Road Tap 115 kV Transmission Line to exceed its thermal rating. |

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **WOODCREST TAP – LAMAR ROAD 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 0.3 miles with 795 ACSS at 160º C along the Woodcrest Tap to Lamar Road 115 kV Transmission Line. |
| Supporting Statement: | The loss of the Greenville 230 / 115 kV Transformer causes the loading on Woodcrest Tap – Lamar Road 115 kV Transmission Line to exceed its thermal rating. |

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **BARNWELL TAP – TURKEY HILL 115 KV TRANSMISSION LINE** |
| Description: | Construct a 2.75 mile 795 ACSR 115 kV Transmission Line 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 #7 off-line, overloads the Silverhill – Magnolia 115 kV Transmission Line. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **SILVERHILL SUBSTATION** |
| Description: | Update relaying at Silverhill Substation on the three networked 115 kV Transmission Lines between Silverhill and Turkey Hill. |
| Supporting Statement: | The loss of the Silverhill - SW Foley 115 kV Transmission Line, with Crist Unit #7 offline, overloads the Silverhill – Magnolia 115 kV Transmission Line. |

| | |
|---|---|
| In Year: | 2016 |
| Project Name: | **FOLEY SWITCHING STATION** |
| Description: | Install a two (2) 15 MVAR 115 kV Capacitor Bank at Foley Switching Station |
| Supporting Statement: | The loss of Silverhill – Fish River 115 kV Transmission Line with Crist #7 off-line presents a need for additional voltage support at Foley Switching Station. |

| | |
|---|---|
| In Year: | 2016 |
| 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: | 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2016 |
| 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 #1 offline, causes a low voltage condition at Jackson TS with the load being served radial out of Selma TS. |

| | |
|---|---|
| In Year: | 2017 |
| Project Name: | **INTERNATIONAL PAPER TAP – INTERNATIONAL PAPER LOAD TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor 3.95 miles of International Paper Tap – International Paper Load Tap 115 kV Transmission Line with 795 ACSR at 100°C. |
| Supporting Statement: | The loss of Selma – West Selma, RF Henry – International Pape Load Tap, or Jordan Dam – Holtville 115 kV Transmission Lines cause voltage issues in the Selma area and thermal issues on the West Selma – South Selma 115 kV Transmission Line and the South Selma – Alamet Tap 115 kV Transmission Line. |

| | |
|---|---|
| In Year: | 2017 |
| Project Name: | **AIRPORT SUBSTATION** |
| Description: | Construct approximately 1.75 miles of 795 ACSR 115 kV Transmission Line at 100°C Airport Substation to Hunt Oil. |
| Supporting Statement: | Network Reliability Improvement. |

| | |
|---|---|
| In Year: | 2017 |
| Project Name: | **WEST MONTGOMERY – HUNTER SS - PRATTBROOK TAP 115 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 12.31 miles of 795 26/7 ACSR at 160°C along the West Montgomery to Hunter SS to Prattbrook Tap 115 kV Transmission Line. |
| Supporting Statement: | The loss of the County Line Road – East Prattville 115kV Transmission Line, with Lowndes County Unit #1 offline, causes the West Montgomery – Prattbrook Tap 115kV Transmission Line to become overloaded. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2017 |
| Project Name: | **SHOAL RIVER CAPACITOR BANK** |
| Description: | Install a 100 MVAR, 230 kV filtered capacitor bank at Shoal River. |
| Supporting Statement: | Area voltage support. |

| | |
|---|---|
| In Year: | 2017 |
| Project Name: | **GOULDING – OAKFIELD 115 V 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 exceed its thermal limit. |

| | |
|---|---|
| In Year: | 2018 |
| Project Name: | **TUSCALOOSA – FAYETTE HWY 115 KV TRANSMISSION LINE** |
| Description: | Reconductor 2.8 miles of 795 ACSR at 100°C Tuscaloosa TS – Fayette Highway 115 kV Transmission Line with 795 26/7 ACSS at 160°C. |
| Supporting Statement: | With Gorgas #10 off-line, the loss of the 31st Avenue – Goodrich 115 kV Transmission, the Tuscaloosa - Fayette Hwy 115 kV Transmission Line becomes overloaded. |

| | |
|---|---|
| In Year: | 2019 |
| 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 #1 unit off-line, causes the other Transformer to exceed its thermal rating. |

| | |
|---|---|
| In Year: | 2019 |
| Project Name: | **BELLAMY SWITCHING STATION – CUBA 115 KV TRANSMISSION LINE** |
| Description: | Upgrade approximately 16.3 miles along the Bellamy Switching Station to Cuba 115 kV Transmission Line to 125° C operation. |
| Supporting Statement: | With Kemper County IGCC offline, the loss of Greene County – Meridian NE 230 kV Transmission Line causes the Bellamy SS – Cuba 115 kV Transmission Line to overload. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2019 |
| Project Name: | **NORTH OPELIKA SUBSTATION** |
| Description: | Install a second 230 / 115 kV Transformer at North Opelika Substation. |
| Supporting Statement: | The loss of the North Auburn 230 / 115 kV Transformer overloads the Transformer at North Opelika. |

| | |
|---|---|
| In Year: | 2019 |
| Project Name: | **COUNTY LINE ROAD – ELMORE COUNTY 230 KV TRANSMISSION LINE** |
| Description: | Reconductor approximately 18.2 miles with 1351 ACSS at 160º C along the County Line Road to Elmore County 230 kV Transmission Line. |
| Supporting Statement: | Needed for the addition of Elmore County Generation. |

| | |
|---|---|
| In Year: | 2019 |
| Project Name: | **MADISON PARK – ELMORE COUNTY 230 KV TRANSMISSION LINE** |
| Description: | Construct approximately 29 miles of 1351 ACSS at 160º C 230 kV Transmission Line from Madison Park to Elmore County. |
| Supporting Statement: | Needed for the addition of Elmore County Generation. |

| | |
|---|---|
| In Year: | 2019 |
| Project Name: | **DEMOPOLIS – CEMEX 115 KV TRANSMISSION LINE** |
| Description: | Upgrade approximately 0.7 miles along the Demopolis to CEMEX 115 kV Transmission Line to 125º C operation. |
| Supporting Statement: | With Kemper Co IGCC offline, the loss of Greene County – Meridian NE 230 kV Transmission Line causes a thermal overload on the Demopolis – CEMEX 115 kV Transmission Line. |

| | |
|---|---|
| In Year: | 2019 |
| 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 exceed its rating. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2019 |
| Project Name: | **SINAI CEMETERY – WOODRUFF 115 KV TRANSMISSION LINE** |
| Description: | Upgrade the Sinai – Woodruff 115 kV Transmission Line to 110°C operation. |
| Supporting Statement: | The loss of the South Bainbridge – Sub 20 230 kV Transmission Line causes the Sinai Cemetery – Woodruff 115 kV Transmission Line to become overloaded. |

PRELIMINARY

## WEST REGION PROJECTS

# POWERSOUTH

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **LIBERTY – GLENDALE – DEFUNIAK TRANSMISSION LINE** |
| Description: | Reconductor Liberty – Glendale – Defuniak Springs with 1033 ACSS conductor for 300 MVA path. Approx. 21 miles. |
| Supporting Statement: | High North – South flow with Smith #3 out causes overloads. This is a project to strengthen the system to respond to single contingency conditions. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **DALE COUNTY – BAY SPRINGS JUNCTION TRANSMISSION LINE** |
| Description: | Upgrade to 100º C operation. |
| Supporting Statement: | This line overloads under a Unit out and N-1 contingencies. This is a project to strengthen the system to respond to single contingency conditions. |

| | |
|---|---|
| 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<br>2) Upgrade the Brundidge – Clio 115 kV Transmission Line to 100º C 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| 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. |

| | |
|---|---|
| In Year: | 2014 |
| Project Name: | **NORTHERN SYSTEM VOLTAGE SUPPORT** |
| Description: | 1) Gantt 230 /115 kV Transformation 2) Gantt – Luverne115kV Transmission Line 3) Fuller – Luverne 115 kV Reconductor to 795 ACSR |
| Supporting Statement: | Northern part of system experiences difficulty supporting voltage under certain N-1 contingencies. This is a project to strengthen the Dublin area to better handle contingencies such as loss of the West Point or RF Henry sources. |

PRELIMINARY

# WEST REGION PROJECTS

## SMEPA

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **POLKVILLE 161KV SOURCE** |
| Description: | Tap 161kV Line 172 with the White Oak Switching Station, Build 161/69 kV Polkville Substation |
| Supporting Statement: | Outage of 69 kV causes overloads and under voltages. |

| | |
|---|---|
| In Year: | 2011 |
| Project Name: | **SILVER CREEK 161 / 115 KV INTERCONNECTION** |
| Description: | Build Silver Creek 115 / 161 kV Substation (300 MVA). Tap 161 kV Line 168 and build 161 kV Transmission Line |
| Supporting Statement: | Single Interconnection with Entergy (Magee), outage impacts SMEPA's ability to serve off–system load. |

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

| | |
|---|---|
| In Year: | 2013 |
| 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. |

PRELIMINARY

# WEST REGION PROJECTS

| | |
|---|---|
| In Year: | 2017 |
| Project Name: | **EAST WAYNESBORO 230 / 69 KV SUBSTATION** |
| Description: | Tap 230 kV PowerSouth Interconnection Line 230 and Build E.Waynesboro 230 / 69 kV substation, Tap 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. |

PRELIMINARY