PowerSouth Energy Cooperative

South Mississippi Electric Power Association

Dalton Utilities

Southeastern Regional Transmission Planning Process

10 YEAR EXPANSION PLAN

December 4, 2009

Southern Company
Energy to Serve Your World℠

MEAG Power

GeorgiaTransmission

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10 YEAR EXPANSION PLAN
EAST REGION

EAST REGION PROJECTS

In Year: 2010

Project Name: **BARNESVILLE PRIMARY 115 KV CAPACITOR BANK**

Description: Install 45 MVAR, 115 kV capacitor bank at Barnesville.

Supporting Statement: With McDonough #2 off–line, the loss of the Thomaston – The Rock Junction 115 kV Transmission Line results in a need for the capacitor bank to provide area voltage support.

In Year: 2010

Project Name: **BOULEVARD SUBSTATION**

Description: Install five 230 kV 2 cycle IPO breakers at Boulevard

Supporting Statement: Breaker improvement.

In Year: 2010

Project Name: **CARTERSVILLE SUBSTATION**

Description: Replace seven 230 kV breakers with 2 cycle IPO breakers.

Supporting Statement: Breaker improvement.

In Year: 2010

Project Name: **CHEROKEE 46 KV CAPACITOR BANK**

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

Supporting Statement: Area voltage support.

In Year: 2010

Project Name: **EAST SOCIAL CIRCLE – MONROE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.1 miles of 636 ACSR at 100°C with 1351 ASCR at 100°C between East Social Circle and Social Circle Junction

Supporting Statement: The loss of the Bay Creek 230 / 115 kV transformer bank will overload the Social Circle Junction – East Social Circle segment of the East Social Circle – Monroe 115 kV Transmission Line.

EAST REGION PROJECTS

In Year: 2010

Project Name: **GOAT ROCK 230 / 115 KV SUBSTATION**

Description: Replace the 1590 AAC lowside jumpers with 2000 AAC jumpers on the Goat Rock 230 / 115 kV Transformer.

Supporting Statement: The loss of the First Avenue 230 / 115 kV Transformer overloads the Goat Rock 230 / 115 kV Transformer.

In Year: 2010

Project Name: **KLONDIKE 230 KV REACTOR PROJECT**

Description: Install a three phase set of 4000 A, 230 kV, series reactors, (approximately 0.5% @ 4000 A per phase), between the Transformer and 230 kV bus leading to the bus tie breakers.

Supporting Statement: The loss of the Klondike – Norcross 500 kV Transmission Line causes the Klondike 500/230 kV Transformer to overload.

In Year: 2010

Project Name: **KLONDIKE SUBSTATION**

Description: Replace five of the 230 kV Transmission Line breakers with 2 cycle IPO breakers at Klondike.

Supporting Statement: Breaker improvement.

In Year: 2010

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

Description: Construct the Jack McDonough – Smyrna 230 kV Transmission Line via Cumberland (convert from 115 kV) and GTC Galleria (new) substations. Add a five element GIS 230 kV ring bus at Smyrna and replace the 300 MVA 230 / 115 kV transformer with two 400 MVA transformers.

Supporting Statement: The loss of the Jack McDonough – Peachtree 230 kV Transmission Line will cause overloading of the facilities surrounding McDonough, including the Adamsville – Jack McDonough and East Point – Jack McDonough 230 kV Transmission Lines, the two Northwest 230 / 115 kV transformers, and the Northside Drive – Spring Street 115 kV Transmission Line. The new Jack McDonough – Smyrna 230 kV Transmission Line will solve or mitigate these thermal loading problems and provide a second transmission source into Smyrna, increasing reliability in the dense Smyrna / Cobb County load center.

EAST REGION PROJECTS

In Year: 2010

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

Description: Reconductor the McIntosh – West McIntosh 230 kV Black & White lines with 2–1351 ACSS at 160°C.

Supporting Statement: With Effingham CC generation running at 400 MW and the McIntosh CTs off–line, the loss of the McIntosh – West McIntosh 230 kV Black line and McIntosh CC 10 overloads the McIntosh – West McIntosh 230 kV White line.

In Year: 2010

Project Name: **MOBLEY BRIDGE CAPACITOR BANK**

Description: Install a two stage115 kV, 40 MVAR capacitor bank at Mobley Bridge.

Supporting Statement: With Yates 3 unit offline, the loss of the Lagrange #3 – Ragland section of the Lagrange – Yates 115 kV Transmission Line causes a voltage deviation at Lagrange #3.

In Year: 2010

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

Description: Replace 600 A switches with 1200 A switches.

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

In Year: 2010

Project Name: **NORTH AMERICUS REACTOR PROJECTS**

Description: Install a 2% 230 kV current limiting reactor on the North Americus – North Tifton 230 kV Transmission Line and a 2% 230 kV current limiting reactor on the North Americus – Talbot County #2 230 kV Transmission Line. Install insulator strings in the North Americus – North Tifton 230 kV Transmission Line and the North Americus – Talbot County #2 230 kV Transmission Lines.

Supporting Statement: With an outage of the Hatch #1 generating unit, the loss of the North Tifton 500 / 230 kV transformer overloads the North Americus – North Tifton 230 kV Transmission Line. With an outage of the Hatch #2 generating unit, the loss of the Fortson – N. Tifton 500 kV Transmission Line overloads the Tazwell – Talbot County #2 section of the North Americus – Talbot County #2 230 kV Transmission Line.

EAST REGION PROJECTS

In Year: 2010

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

Description: Rebuild the Offerman – Patterson sections of the Offerman – Gilman Paper 115 kV Transmission Line to 100°C. The Offerman – Gilman Jct. section is 2.08 miles of 50°C 336.4 ACSR conductor. The conductor can be reused. The Gilman Jct. – Patterson section is 1.8 miles of 50°C 4/0 ACSR and both sec tions will be constructed at 100°C 336 ACSR.

Supporting Statement: With the loss of the any section of line from Blackshear Junction (27), which is tapped off of the Kettle Creek – Offterman (White) 115 kV Transmission Line, to Blackshear, Blackshear must be restored from the Offerman – Gilman Paper 115 kV Transmission Line. With the conversion of College Avenue and Hoboken to 115 kV, and the resulting higher loading on Offerman – Gilman Paper line, these sections become overloaded.

In Year: 2010

Project Name: **OLA 230 KV PROJECT PHASE II**

Description: GTC: Create a 230 kV circuit from Klondike to Ola by way of two new GTC load stations, Jackson Creek and East Lake, by constructing a 1351 ACSR line from Jackson Creek to East Lake and converting the existing East Lake – Ola 115 kV Transmission Line to 230 kV operation. Install a 400 MVA, 230 / 115 kV Transformer at OLA and three 115 kV breakers to terminate the lines to McDonough, Porterdale and Island Shoals. Upgrade relaying at McDonough and Klondike.

Supporting Statement: The loss of the 115 kV feed into McDonough, from Stockbridge, will overload the McDonough – Ola – Porterdale and McDonough – S.Griffin 115 kV Transmission Lines. Other contingencies overload McDonough – Stockbridge, McDonough – S.Griffin, Jonesboro – Stockbridge and the Stockbridge Transformer.

In Year: 2010

Project Name: **PEGAMORE 230 KV SWITCHING STATION**

Description: Construct a new 230 kV switching station (Pegamore 230 kV Switching Station) on the newly converted Bowen – Villa Rica 230 kV Transmission Line at Huntsville Junction, and install three 230 kV breakers to terminate the Bowen, Villa Rica, and McConnell Road 230 kV Transmission Lines. Construct a new 230kV Transmission Line from Pegamore to Huntsville and from Huntsville to the McConnell Road 230 / 115kV substation. Install a 23(kV breaker at McConnell substation and terminate the Pegamore line. Convert the Huntsville, Battlefield, and Cedarcrest substations to 230 kV operation.

Supporting Statement: The loss of the McConnell Rd. 230 / 115 kV transformer, the Big Shanty – McConnell Rd. 230 kV Transmission Line or the McConnell Rd. – Hwy. 120 115 kV Transmission Line segment will overload the Portland – Huntsville Junction 115 kV line segment. This project will alleviate the thermal overload and provide approximately 100 MVAR's of reactive support in the area.

EAST REGION PROJECTS

In Year: 2010

Project Name: **PLANT BOWEN UNIT #1**

Description: Convert Bowen Unit #1 to 230 kV operation by installing a new GSU and connecting to the re–configured 230 kV bus

Supporting Statement: The conversion of Bowen Unit #1 to 230 kV operation will provide approximately 450 dynamic MVAR's.

In Year: 2010

Project Name: **PROCTOR & GAMBLE TRANSMISSION CONNECTION MODIFICATION**

Description: Remove the breaker, CCVT, and line trap at Proctor & Gamble and replace with a N.O. RLB switch w/ motor operator. The 115 / 13.8 kV Bank B at Proctor &Gamble will be reconfigured to be served off the new Albany – Mitchell (BLACK) 115 kV Transmission Line. The 115 / 13.8 kV Bank A & C at Proctor & Gamble will be reconfigured to be served off the Albany – Radium Springs 115kV Transmission Line

Supporting Statement: The loss of either end of the Albany – Proctor & Gamble – Mitchell 115 kV Transmission Line overloads the other end and causes voltage drop at Proctor & Gamble.

In Year: 2010

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

Description: Increase the 13.6 MVAR and 15 MVAR, 115 kV capacitor banks to a two stage 60 MVAR capacitor bank

Supporting Statement: The loss of the Dorchester – Cay Creek 115 kV Transmission Line section will produce voltage drops in Cay Creek, Riceboro and Interstate Paper 115 kV.

In Year: 2010

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

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

Supporting Statement: Area voltage support.

In Year: 2010

Project Name: **SOUTH MACON SUBSTATION**

Description: At South Macon, upgrade the buses to 2 – 1590 AAC; Replace the two lowside switches with 2500 A switches.

Supporting Statement: The loss of one 230 / 115 kV bank at South Macon will overload the other bank.

EAST REGION PROJECTS

In Year: 2010

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

Description: Upgrade the 2.6 mile Swainsboro – Nunez tap line section of the Statesboro – Wadley 115 kV Transmission Line to 100° C.

Supporting Statement: The loss of the Statesboro end of the Statesboro – Wadley 115 kV Transmission Line, Statesboro – Metter, will overload the Swainsboro – Nunez tap section.

In Year: 2010

Project Name: **THOMSON 500 / 230 KV PROJECT**

Description: Expand the 500 kV ring bus at Warthen and terminate the Thomson Primary 500 kV Transmission Line. Construct a 500 kV switchyard and expand the 230 kV switchyard at Thomson Primary. Install a 1344 MVA, 500 / 230 kV transformer at Thomson Primary. Replace the 140 MVA, 230 / 115 kV transformer at Thomson Primary with a 300 MVA transformer. Build 23 miles of 230 kV Transmission Line from Thomson Primary to Dum Jon. Install a 230 kV breaker at Dum Jon to terminate the Thomson Primary line. Replace the 125 MVA, 230 / 115–kV Transformer at Evans Primary with a 300 MVA transformer. Construct 35 miles of 500 kV Transmission Line from Warthen to Thomson Primary

Supporting Statement: The loss of the Goshen – Peach Orchard section of the Dum Jon – Goshen 230 kV Transmission Line will overload the Dum Jon – West Augusta 115 kV Transmission Line. An outage of the Goshen 230 kV #1 bus will overload both the Goshen – Vogtle 230 kV Black Transmission Line and the Goshen 230 / 115 kV #2 transformer.

In Year: 2010

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

Description: Install a 115 kV 36 MVAR capacitor bank in the Treutlen 115 / 46 / 25 / 13.8 kV substation. Allow for a future 115 kV Transmission Line termination for the Old Louisville Road 115 kV Transmission Line.

Supporting Statement: The loss of the McIntosh – EFACEC 115 kV tap section of the McIntosh – Treutlen 115 kV Transmission Line causes the voltage at EFACEC to drop.

In Year: 2010

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

Description: Rebuild the Union Point – Warrenton 115 kV Transmission Line (26.7 miles of 336 ACSR) with 1351 ACSR conductor at 230 kV specs. Replace OPGW 18 – fiber cable with 36 – fiber

Supporting Statement: The loss of the East Social Circle – Rutledge 115 kV Transmission Line section will overload the Union Point – Warrenton 115 kV Transmisson Line .

EAST REGION PROJECTS

In Year: 2010

Project Name: **WAYNESBORO PRIMARY JUMPER/SWITCH PROJECT**

Description: Replace the 4/0 copper jumpers and 600 A switches on the Goshen line termination with 2000 A rated equipment.

Supporting Statement: The loss of the Waynesboro – Wilson 230 kV Transmission Line will overload the Goshen – Waynesboro 115 kV Transmission Line.

In Year: 2011

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

Description: Rebuild the Arkwright – Gordon #1 115 kV Transmission Line (23.6 miles of 75° C 4/0 FCW) with 100° C 795 ACSR conductor. P & C settings and relaying to be re–evaluated.

Supporting Statement: The Gordon – Mixon section of the Arkwright – Gordon #1 115 kV Transmission Line becomes overloaded in 2011. Reconductoring only this section of the line overloads the remaining section of the line, thus establishing the need to reconductor the entire Arkwright – Gordon #1 115 kV Transmission 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.

In Year: 2011

Project Name: **ECHECONNEE SUBSTATION CAPACITOR BANK**

Description: Install a two stage 115 kV 120 MVAR capacitor bank at Echeconne substation .

Supporting Statement: With Branch 4 generating unit off–line, the loss of South Macon – Graphic Packaging 115 kV Transmission Line causes significant voltage drop on several industrial customers on the South Macon – Broadway 115 kV Transmission Line.

EAST REGION PROJECTS

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 125MVA 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 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

Supporting Statement: Breaker improvement.

In Year: 2011

Project Name: **HEATH ROAD 115 KV SWITCHING STATION**

Description: Construct a new 115 kV switching station and install two 30 MVAR capacitor banks at Lizella Junction. Terminate the Forrest Road, Dorsett, South Macon and Thomaston 115 kV Transmission Lines.

Supporting Statement: The loss of the Dorsett – Hartley Bridge Jct. line section causes a voltage deviation on both regulated and industrial customers.

In Year: 2011

Project Name: **MCDONOUGH 115 KV TRANSMISSION LINE BREAKER INSTALLATION**

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, by at least 12 miles.

EAST REGION PROJECTS

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 115 kV construction on the Black and White lines

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

In Year: 2011

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: 2011

Project Name: **MCDONOUGH 4 & 5 NETWORK IMPROVEMENT (DAVIS ST – WEST END 115 KV)**

Description: Rebuild the Davis Street – West End 115 kV Transmission Line (2.7 miles of 1033 AAC) using 170°C 795 ACSS.

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: 2011

Project Name: **MCDONOUGH 4 & 5 NETWORK IMPROVEMENT (GRADY – MORELAND AVE 115 KV)**

Description: Reconductor the Grady – Moreland Avenue (approximately 3.5 miles of 636 ACSR) with conductor capable of 1500 amps.

Supporting Statement: The Grady – Moreland Avenue 115 kV Transmission Line becomes overloaded in contingency situations in 2011.

In Year: 2011

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

Description: Reconductor the Davis Street – Northwest 115 kV Transmission Line (approximately 2.6 miles of 1033 AAC) with conductor capable of at least 1500 amperes.

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.

EAST REGION PROJECTS

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 the North Marietta – Marietta #4 – Marietta / Roswell Rd. segments (1.86 miles & 0.8miles) on the North Marietta – Roswell 115 kV Transmission Line, from 636 ACSR to at least 1033 ACSR.

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: **NORTH MILLEDGEVILLE CAPACITOR BANK**

Description: Install two stage 30 MVAR capacitor bank at North Milledgeville Substation and expand the existing 115 kV bus.

Supporting Statement: The loss of Milledgeville – Meriwether 115 kV section of Milledgeville – Sinclair Dam Hydr 115 kV Transmission Line causes voltage drop on six 115 kV substations between Warrenton and Milledgeville.

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 115 kV 30 MVAR capacitor bank. At Moreland Avenue, install a two stage 115 kV 60 MVAR capacitor bank. At Moon Road, install a 115 kV 30 MVAR capacitor bank. At Lick Creek, install a 115 kV 30 MVAR capacitor bank.

Supporting Statement: This project is continuation of an attempt to levelize and to improve the voltage profile in the Georgia ITS by optimally installing a number of shunt capacitors in the system. 150 MVAR of shunt reactive support is proposed for allocation in 2012.

EAST REGION PROJECTS

In Year: 2012

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

Description: Install motor operators and SCADA control on select switches on the Cartersville – South Acworth 115 kV Transmission Line to allow sectionalizing.

Supporting Statement: The loss of the Cartersville 230 / 115 kV Transformer overloads the Bowen – Cartersville 115 kV Transmission Line.

In Year: 2012

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: In 2012, the loss of the Yates – Newnan Primary 115 kV Transmission Line segment overloads the Yates end of the Thomaston – Yates 115 kV Transmission Line. In 2013, 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 load to overload.In 2016, the loss of either end of the Thomaston – Yates 115 kV Transmission Line causes the opposite end to overload. The loss of the Mountain Creek – Newnan #2 segment of the Yates – Thomaston 115 kV line causes a voltage deviation Mountain creek.

In Year: 2012

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

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

Supporting Statement: The loss of the Little Ogeechee – Richmond Hill tap section of the Daniel Siding – Little Ogeechee 115 kV Transmission Lines causes a voltage drop at Fleming.

In Year: 2012

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 Ave. or Emory – Scottdale 115 kV Transmission Lines will cause the Decatur – Moreland Ave line to overload.

EAST REGION PROJECTS

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 (3.18 miles of 739 ACAR, 0.88 miles of 636)

Supporting Statement: The loss of the West Marietta – Fairoaks line section of the JackMac – West Marietta 115 kV Transmission Line overloads the JackMac – King Springs section of the line

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In Year: 2012

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

Description: Install motor operator and SCADA control on switch tap serving Lawrencevill #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: 2012

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 overloads the Boulevard – Peachtree 115 kV Transmission Line tand Peachtree 230 / 115 kV Transformer.

In Year: 2012

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

Description: Reconductor the Northside Drive – Spring Street 115 kV Transmission Line (approximately 1.2 miles of 1033 AAC) with conductor capable of carrying 1500 amperes. Reuse the existing structures. No substation work required at this time.

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.

In Year: 2012

Project Name: **MCDONOUGH 6 NETWORK IMPROVEMENT**

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

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

EAST REGION PROJECTS

In Year: 2012

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

Description: At the Meldrim 115 / 46 / 13.8 kV 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: 2012

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

Description: Reconductor the Norcross – Berkeley Lake section of the Norcross – Ocee 230 kV Transmission Line using bundled 2–1033 ACSR conductor at 100°C., approximately 3.45 miles.

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: 2012

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

Description: Upgrade 11.64 miles of the Crisp #2 to Doles section of the North Americus – North Tifton 115 kV Transmission Line from 50°C 336.4 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: 2012

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

Description: Upgrade the existing 115 kV capacitor bank at Pettit Creek 115 / 46 / 12kV substation to 45MVAR. Install second stage 115 kV, 45 MVAR capacitor bank.

Supporting Statement: Area voltage support.

In Year: 2012

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 .

EAST REGION PROJECTS

In Year: 2012

Project Name: **UPPER PIKE CAPACITOR BANK**

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

Supporting Statement: The loss of the South Griffin – Griffin #8 section of the Barnesville Primary – South Griffin 115 kV Transmission Line causes a voltage deviation at Griffin #8.

In Year: 2013

Project Name: **CAGLES 115 KV JUMPER REPLACEMENT**

Description: Replace the 115 kV switch jumpers at Cagle with 1590 AAC jumpers

Supporting Statement: The loss of the Bonaire – Hwy 96 115 kV Transmission Line section overloads the Cagle 115 kV, 350 AAC switch jumpers.

In Year: 2013

Project Name: **CUMMING – MCGRAU FORD 230 KV TRANSMISSION LINE REACTOR**

Description: Install 230 kV, 2000 A, 2% three phase set of series line reactors on the Cumming – McGrau Ford 230 kV Transmission Line.

Supporting Statement: The loss of the South Hall 500 / 230 kV Transformer causes the Cumming – McGrau 230 kV Transmission Line to limit imports across the TVA interface. Installing a 2% reactor on the Cumming – McGrau 230 kV Transmission Line was identified as the optimal solution to resolve the loading issue.

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 Burnt Church – Tradeport 115 kV Transmission Line section (11.65 miles). Install two 115 kV breakers at Daniel Siding. Reconductor the Daniel Siding – Sterling Creek – Burnt Church line sections (8.5 miles) with 795 ACSR.

Supporting Statement: The loss of the Dorchester – Cay Creek section of the Dorchester – Riceboro 115 kV Transmission Lines causes voltage drops at Riceboro and Interstate Paper.

EAST REGION PROJECTS

In Year: 2013

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: The Annewakee, Camp Creek and Ben Hill loads are forecasted to be larger than the capacity of the short section of 397 ACSR, 115 kV conductor, in the alternate feed from East Point.

In Year: 2013

Project Name: **EAST SOCIAL CIRCLE 230 KV SERIES REACTORS**

Description: Install 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 Franklin 2 unit and Branch – Eatonton SW 230 kV Transmission Line overloads Branch – East Social Circle 230 kV Transmission Line.

In Year: 2013

Project Name: **FIFE CAPACITOR BANK**

Description: Add a two stage 115 kV, 60 MVAR capacitor bank to the Fife 115 kV bus.

Supporting Statement: Area voltage support.

In Year: 2013

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 First Avenue.

Supporting Statement: The loss of the Goat Rock 230/115 kV Transformer causes the North Columbus – First Avenue 115 kV Transmission Line to overload.

In Year: 2013

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

Description: Rebuild the existing Hampton – McDonough 115 kV tap line with double circuit construction for 1351 ACSR conductor at 230 kV specifications

Supporting Statement: The Hampton – McDonough tap line will overload while serving the Dailey Mill and Greenwood Park loads radially from either end in 2013.

EAST REGION PROJECTS

In Year: 2013

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

Description: Rebuild the Kraft – McIntosh 230 kV Black & White Transmission Lines (double circuit towers) with 2–1033 ACSR conductor on two single circuit towers (approximately 16 miles)

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

In Year: 2013

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

Description: Upgrade 3.5 miles of 397 ACSR conductor to 100° C f rom Porterdale to the S. Covington Junction., on the Lloyd Shoals – Porterdale 115 kV Transmission Line.

Supporting Statement: The loss of the S.Griffin end of the Lloyd Shoals – S.Griffin 115 kV Transmission Line overloads the Porterdale to S. Covington Junction section of the Lloyd Shoals – Porterdale 115 kV Transmission Line.

In Year: 2013

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

Description: Reconductor the North Marietta – Marietta #5 section (approximately 1.2 miles of 636 ACSR) with conductor capable of carrying 1500 amperes. Replace termination equipment at North Marietta.

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

In Year: 2013

Project Name: **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 Shoal Creek – Gwinnet WFP section of the McEver Rd – Shoal Creek 115 kV Transmission Line overloads the McEver Rd – College Square segment of the same line.

In Year: 2013

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

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

Supporting Statement: Area voltage support.

EAST REGION PROJECTS

In Year: 2013

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: 2013

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

Description: Install a second 115 / 46 kV transformer in the Plant Kraft switchyard 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: With a Kraft 46 kV unit off–line, the loss of the Kraft 115 / 46 kV transformer will overload the existing Millhaven 115 / 46 kV transformer. Also, the loss of the Millhaven 115 / 46 kV transformer will overload the Kraft 115 / 46 kV transformer.

In Year: 2013

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

Description: Construct a 230 kV Transmission Line from Cumming to Sharon Springs. Install in the Sharon Springs distribution substation a 230 / 115 kV, 300 MVA transformer with two 115 kV breakers. Terminate 115 kV lines from Hopewell and Suwanee. Install a 230kV PCB 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. By 2014, the Brandywine – Highway 141 segment loads above its rating.

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 overloads the Snellville 230 / 115 kV transformer, which is currently limited by its low–side switch.

EAST REGION PROJECTS

In Year: 2014

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.

In Year: 2014

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

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

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

In Year: 2014

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

Description: Install a 2 stage 115 kV 120 MVAR capacitor bank at Arkwright

Supporting Statement: Area voltage support.

In Year: 2014

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

Description: Construct new breaker and a half scheme substation with 3000 A capacity adjacent to the existing 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 MEAG Wansley generating unit along with a loss of South Macon – Vineville 115 kV section of the South Macon – Forrest Road 115 kV Transmission Line overloads the bus at Arkwright.

EAST REGION PROJECTS

In Year: 2014

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

Description: Reconductor the Austin Drive – River Road (7.1 miles of 336 ACSR with 795 ACSR at 100°C operation) and the Morrow – Ellenwood (2.0 m iles of 795 ACSR with 1351 SSAC at 170°C operation) sections 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 Dr. 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 Austin Drive – Morrow 115 kV Transmission Line.

In Year: 2014

Project Name: **BETHABARA 230 / 115 KV SUBSTATION PROJECT**

Description: Build a new 230 / 115kV substation at Bethabara. Build a new 230 kV Switching Station at Clarksboro. Build a new 115 kV switching station at Jefferson Road. Build a new 230kV Transmission Line from Bethabara to Clarksboro (160°C 1351 SACC). Build a new 115kV Transmission Line segment from Bethabara to the Georgia Square substation (100°C 795 ACSR). Loop the Athens – Winder 115 kV Transmission Line into the 115 kV Jefferson Road Switching Station.

Supporting Statement: The loss of the East Watkinsville 230 / 115 kV transformer bank will cause Athena – N. Athens and University of Georgia – North Oconee Water Treatment Plant Junction segments of the Athena – East Watkinsville 115 kV Transmission Line to overload. In addition, the loss of the Winder Primary – Richardson Junction section of the Winder Primary – Athens 115 kV Transmission Line will overload the Athens 2 – Winder Junction section of the same line.

In Year: 2014

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

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

Supporting Statement: The loss of Hatch 1 unit along with a loss of Branch – West Milledgeville 230 kV Transmission Line, causes Branch – Gordon 230 kV Transmission Line to overload.

In Year: 2014

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

Description: Increase the capacity of Branch – West Milledgeville 230 kV Transmission Line by bundling the 100°C 1351 ACSR conductor. Replace bu s, transfer bus, trap, jumpers at West Milledgeville. Bundle jumpers at Branch.

Supporting Statement: The loss of the Bonaire – Scherer 500 kV Transmission Line with Hatch 1 off–line causes the Branch – West Milledgeville 230 kV Transmission Line to overload.

EAST REGION PROJECTS

In Year: 2014

Project Name: **BRANCH RING BUS UPGRADE PHASE 1**

Description: Replace 3000 A 230 kV breakers and associated switches with 4000 A 230 kV breakers and switches. 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 Branch overloads other breaker(s).

In Year: 2014

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

Description: Reconductor the Brunswick – Stonewall Street section (1.27 miles of 75°C 477 ACSR on SSP and 1.35 miles of 100 °C 477 ACSR on CSP) usin g 100°C 795 ACSR. 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 – Saint Simons 115 kV Transmission Line.

In Year: 2014

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

Description: Rebuild the Meldrim – River – Georgia Pacific tap section (7.2mi + 0.5mi) of the Claxton – Meldrim 115 kV Transmission Line with 1033 ACSR conductor.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV Transmission Line will overload the Claxton – Meldrim 115 kV Transmission Line.

In Year: 2014

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

Description: Install a 2 stage 115 kV 50 MVAR capacitor bank. Replace the AOM/AGS with AIM 2010 circuit switcher. Convert three distribution circuits to underground.

Supporting Statement: Area voltage support.

In Year: 2014

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

Description: Reconductor the Douglasville – Anneewakee Junction section of the Douglasville – Post Road 115 kV Transmission Line (6.0 miles of 336 ACSR and 397 ACSR) using 1033 ACSR.

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

EAST REGION PROJECTS

In Year: 2014

Project Name: **EATONTON PRIMARY SWITCHING STATION SERIES REACTORS**

Description: Install a 1600 A 1% 230 kV reactor at Eatonton Primary switching station on Eatonton Primary – East Social Circle 230 kV Transmission Line. Relocate the trap and coupling capacitors.

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 exceed its rating.

In Year: 2014

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

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

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

In Year: 2014

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

Description: Build the Gordon – N Dublin 230 kV Transmission Line using 1351 ACSR (approximately 32 miles). Install two new 230 kV breakers to allow for line termination.

Supporting Statement: Area voltage support.

In Year: 2014

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 off line will overload the Goshen – Waynesboro 115 kV Transmission Line.

In Year: 2014

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.

EAST REGION PROJECTS

In Year: 2014

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

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

Supporting Statement: The loss of the 500 / 230 kV transformer bank at Thalmann with Farley unit #1 off line causes the Appling Bio – Offerman 230 kV Transmission Line to become overloaded.

In Year: 2014

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

Description: Install a 230 / 115 kV transformer at the Highway 54 Substation. Also, at Hwy 54, install 115 kV circuit breakers and terminate two new 115 kV Transmission Lines from Tyrone and Ebenezer Rd., a distance of approximately 4.0 and 4.5 miles respectively. Add approximately 1.5 miles of 115 kV Transmission Line to loop the Tyrone substation into the Line Creek – S.Coweta Transmission Line and re–terminate the Ebenezer tap, (off the O'Hara – S.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 – S.Coweta 115 kV Transmission Line will overload the other end. The same situation will occur on the Line Creek – S.Coweta 115 kV Transmission Line.

In Year: 2014

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

Description: Install a 2 stage 115 kV 30 MVAR capacitor bank at Willacoochee substation.

Supporting Statement: Area voltage support.

In Year: 2014

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

Description: Reconductor 1.05 miles of 336 ACSR 115 kV Transmission Line from Lawrenceville to North Lawrenceville with a conductor capable of carrying at least 1000 amps. Replace jumpers at Lawrenceville.

Supporting Statement: The loss of the Lawrenceville #4 tap and subsequent switching to pick up load overloads the Lawrenceville – North Lawrenceville line section.

EAST REGION PROJECTS

In Year: 2014

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 S. Acworth – Proctor Crk segment of the McConnell – S. Acworth 115 kV Transmission Line causes overload on the McConnell – Due West segment Also, loss of the S. Acworth – Due West segment causes overload on the S. Acworth – Proctor Creek segment.

In Year: 2014

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

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

Supporting Statement: Area voltage support.

In Year: 2014

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

Description: Construct approximately 8 miles of new 115 kV Transmission Line between Milledgeville – West Milledgeville with 100°C ACSR conductor. Term inate the new line at Milledgeville and West Milledgeville substations.

Supporting Statement: The loss of the Mid Georgia Cogeneration generating unit, and Branch – Gordon 230 kV Transmission Line, causes the existing line to overload.

In Year: 2014

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

Description: Reconductor the 2.1 mile West Point #2 – West Point section of the Pittman Road – West Point 115 kV Transmission Line from 100°C 636 ACSR to 100°C 1033 ACSR.

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 overload.

EAST REGION PROJECTS

In Year: 2014

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

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

Supporting Statement: Area voltage support.

In Year: 2014

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 off overloads the Blakely – East Bainbridge115 kV Transmission Line.

In Year: 2015

Project Name: **ATHENS AREA 115 KV TRANSMISSION LINE**

Description: Reconductor the 336 ACSR line segments line from Georgia Square Junction to Mars Hill Junction (approximately 0.5 mi) and from Mars Hill Junction to Mars Hill (approximately 2.3 mi) with 636 ASCR.

Supporting Statement: The loss of the East Watkinsville – Watkinsville 115 kV segment of the Bethabara – East Watkinsville 115 kV Transmission Line will cause 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: 2015

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.

EAST REGION PROJECTS

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 B/W 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 a new 230 kV line from the new 230 kV switching station to Dean Forest (approximately 5 miles). Rebuild the Dean Forest – Kraft 230 kV Transmission Line using 2–795 ACSR.

Supporting Statement: Loss of one Deptford – Kraft 115 kV Transmission Line will overload the other line.

In Year: 2015

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

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

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: 2015

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

Description: Reconductor the Cornish Mountain – Sigman Road section of the Conyers – Cornish Mtn. 115 kV Transmission Line (4.8 miles of 636.0 ACSR) with 1351 ACSR at 100° C.

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

EAST REGION PROJECTS

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 2–795 ACSR at 100°C. Replace line traps at Center and East Watki nsville. Construct a new Rockville 500 kV substation. Construct a new 230kV line from East Walton to Bethabara (Black Line – 1351.5 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.

In Year: 2015

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 switch(es) at the Kiokee Road tap.

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

In Year: 2015

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

Description: Rerate both Gainesville #2 230 / 115 kV Transformers. Replace lowside equipment including LSBB on Bank D. On 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 230 / 115kV Bank D, bundle the 1590 AAC lowside jumpers and the 1590 AAC lowside main bus #2. 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 bank overloads the Gainesville #2–1 230 / 115 kV, 280 MVA, transformer bank.

In Year: 2015

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

Description: Reconductor the Ludowici – Horse Creek section (8.1 miles of 477 ACSR) of the Hinesville – Ludowici 115 kV Transmission Line with 795 ACSR conductor.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV Transmission Line with Hatch unit #2 off–line will overload the Ludowici – Horse Creek section of the Hinesville – Ludowici 115 kV Transmission Line.

EAST REGION PROJECTS

In Year: 2015

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

Description: Reconductor the Rayonier – North Jesup – Jesup section (7.5 miles of 336 ACSR) of the Jesup – Ludowici Primary 115 kV Transmission Line with 795 ACSR conductor.

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: 2015

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

Description: Rebuild the Lawrenceville – Winder 230 kV Transmission Line (15.31 miles) using 1351 ACSS conductor with a 170 ° C rating of 833 MVA. Re place the 800 CU jumpers, 1200 A switches and line trap, and 1600 A breaker at Winder on the Lawrenceville – Winder 230kV Transmission ine with equipment capable of carrying 2000A. Replace the 1590 AAC jumpers and 1600A switches at Progress Center on the Lawrenceville – Winder 230kV Transmission Line with equipment capable of carrying 2000A. Replace the 1590 AAC jumpers and 1351 ACSR main bus at Old Freeman Mill Road on the Lawrenceville – Winder 230kV Transmission Line with equipment capable of carrying 2000A. Replace the 1590 AAC jumpers, 1600A switches & breaker, and 1200 A line trap at Lawrenceville on the Lawrenceville – Winder 230kV Transmission Line with equipment capable of carrying 2000A

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: 2015

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

Description: Install a 60 MVAR capacitor bank.

Supporting Statement: Area voltage support.

In Year: 2015

Project Name: **NELSON JUMPER UPGRADE**

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 will overload the Holly Springs – Nelson 115 kV Transmission Line. The line rating is limited by the jumpers at Nelson.

EAST REGION PROJECTS

In Year: 2015

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

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

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

In Year: 2015

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

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

Supporting Statement: Area voltage support.

In Year: 2015

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

Description: Install a two stage, 90 MVAR, 115 kV capacitor bank

Supporting Statement: Area voltage support.

In Year: 2015

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: 2015

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

Description: Install a two step 60 MVAR, 115 kV capacitor bank at Summer Grove.

Supporting Statement: Area voltage support.

EAST REGION PROJECTS

In Year: 2015

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: 2015

Project Name: **ZUTA JUMPER REPLACEMENT**

Description: Replace 350 AAC jumpers.

Supporting Statement: The loss of the McCall Road – Thalmann 500 kV Transmission Line overloads jumpers on the Ludowici – West Brunswick 115 kV Transmission Line.

In Year: 2016

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

Description: Reconductor 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.

In Year: 2016

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

Description: Reconductor the Barneyville – Adel1 Junction and Adel1 Junction – S. Adel Junction sections of the Barneyville – Pine Grove Primary 115 kV Transmission Line with 100° C 795 ACSR Drake 26/7. Replace 600 A at Adel #1 with a 1200A switch.

Supporting Statement: The loss of the Pine Grove Primary – N. Tifton 230 kV Transmission Line overloads the Barneyville – S Adel Jct. section of the Barneyville – Pine Grove Primary 115 kV Transmission Line.

In Year: 2016

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

Description: Rebuild approximately 2.3 miles of existing 477 ACSR from Douglasville to Lithia Springs on the Douglasville – West Marietta 115 kV Transmission Line using 795 ACSR conductor rated at 100° C.

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.

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 overloads the Vidalia – West Lyons Junction 2 115 kV Transmission Line.

In Year: 2016

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

Description: Upgrade the Deepstep – Robins Spring section (7.6 miles of 50C 336 ACSR) 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.

In Year: 2016

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

Description: Reconductor 7.48 miles of 4/0 ACSR conductor with 636 ACSR conductor between structure 238D and Lick Creek on Eatonton – Lick Creek 115 kV Transmission Line. Reconductor 3.63 miles line between Eatonton – Lower Harmony Junction with 100°C 795 ACSR.

Supporting Statement: In 2016, the Eatonton – Lake Oconee 115 kV Transmission Line will overload.

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 will load to above 100% of its line rating.

In Year: 2016

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

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

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

EAST REGION PROJECTS

In Year: 2016

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

Description: Reconductor 3.69 miles of 636 ACSR 115 kV Transmission Line using a conductor rated for at least 1400 A. The section of line to be reconductored is from Snellville – Five Forks on the Moon Road – Snellville 115 kV Transmission Line. 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

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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: **SOCIAL CIRCLE PROJECT**

Description: Reconductor 636 ASCR section(s) of the Covington #3 – East Social Circle 115 kV Transmission Line between Social Circle and East Social Circle (approximately 2.6 miles) with 1033 ACSR.

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 (100°C 636 ACSR) 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 bank.

EAST REGION PROJECTS

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 Rd Substation.

Supporting Statement: The installation of these capacitors will improve the overall voltage profile in the Georgia ITS.

In Year: 2017

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

Description: Upgrade the Nashville #1 – Nashville #2 section (2.5 miles of 50°C 477 ACSR) 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 Barneyville – Douglas 115 kV Transmission Line (Nashville #1–Nashville #2 section) to overload.

In Year: 2017

Project Name: **BRANCH RING BUS UPGRADE**

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, overloads the other breaker to above 100% of its nominal rating 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 will cause the Clarksboro – Winder Primary 230 kV Transmission Line to exceed its thermal rating.

In Year: 2017

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

Description: Reconductor 9.7 miles of the Clermont Jct. – 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 will cause the Clermont Junction – Gainesville #1 115 kV Transmission Line to exceed its thermal rating.

EAST REGION PROJECTS

In Year: 2017

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

Description: Reconductor the Cornelia – Leaf 115 kV Transmission Line segment (aproximatelly 8.3 miles long) with 795 ACSR. Replace 336.4 ACSR jumpers at Leaf and 750 AAC jumpers at Cornelia with at least 1000 A jumpers.

Supporting Statement: The loss of the Clermont Junction – Clermont line segment of the Clermont Junction – South Cleveland 115 kV Transmission Line causes the Cornelia – Leaf line segment (100° C 336 ACSR) of the Cornelia – South Cleveland 115 kV Transmission Line to overload.

In Year: 2017

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

Description: Reconductor the Cornelia – Tallulah Lodge 115 kV Transmission Line (approximately 16.7 miles) with 100°C 1033 ACSR. Replace two (2) 600 A switches and associated jumpers with 1600 A equipment at Cornelia.

Supporting Statement: The loss of the Clermont Junction 230 / 115 kV transformer bank 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: This project will help eliminate overloading of the following facilities:

1. Middle Fork – Toccoa 115 kV Transmission Line
2. Avalon Jct. – Middle Fork 115 kV Transmission Line
3. Clermont Jct. – Middle Fork 230 kV Transmission Line
4. Middlefork 230 / 115 kV transformer.

In Year: 2017

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

Description: Reconductor 336 ASCR conductor between Leach Rd. and Gainesville #1 (approximately 6.6 miles between) with a 795 ACSR conductor. Replace the 600 A switches at Gainesville #1 to carry at least 1200 A.

Supporting Statement: The loss of the McGrau Ford 500 / 230 kV transformer bank will overload the Bark Camp – Gainesville #1 segment (100C 336 ACSR) of the Dawson Crossing – Gainesville #1 115 kV Transmission Line in 2017. In 2019, the Bark Camp – Leach Rd. segment of the Dawson Crossing – Gainesville #1 115 kV Transmission Line will start overloading for certain single element outages.

EAST REGION PROJECTS

In Year: 2017

Project Name: **DORCHESTER 230 KV PROJECT**

Description: Provide a second 230 kV source into the Dorchester substation and voltage support for the Hinesville area.
Construct a 45 mile 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 line. Install a new 230 kV breaker at West Brunswick to terminate the new Dorchester 230 kV line. Reconductor the Dorchester – Little Ogeechee 230 kV 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.

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 with 1351 ACSR 115 kV Transmission Line from Clem – Oak Mtn. – Holox – E. Carrollton – Southwire – Carrollton #2 Junction.

Supporting Statement: With Yates 3 out, 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 nameplate 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 overloads the Porterdale to North Monticello section of the Eatonton – Porterdale 230 kV Transmission Line.

EAST REGION PROJECTS

In Year: 2017

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

Description: Rebuild the Gainesville #2 – McEver Rd 115 kV Transmission Line (approximately 5.3 miles long) with 1033 ACSR conductor constructed for 100°C operation.

Supporting Statement: The loss of the Gainesville #1 – Linwood line segment will overload Chicopee – Gainesville #2–2 line segment (as of 2017) and Chicopee – Oakwood line segment (as of 2018) 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: By 2017, the reactor in the Hopewell – McGrau Ford 230 kV Transmission Line needs to be removed to provide voltage support and serve the load growth on the 230 kV system in the area between Hopewell – Ocee – Norcross.

In Year: 2017

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

Description: Rebuild the Offerman – Blackshear Junction section (9.4 miles of 100°C 336 ACSR Linnet 26/7) with 100°C 795.0 ACSR Drake.

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 the Roswell – McPherson section of the Lassiter Road – Roswell 115 kV Transmission Line (2.6 miles of 636.0 ACSR) with 100°C 1351 ACSR conductor.

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.

EAST REGION PROJECTS

In Year: 2017

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

Description: Reconductor 2.98 miles of 636 ACSR conductor on the Lawrenceville – Moon Road 115 kV Transmission Line from Lawrenceville – Lawrenceville City #3 using a conductor rated for at least 1500 amps.

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 conductor 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.

In Year: 2017

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

Description: Reconductor the McIntosh – Blandford – Meldrim 230 kV Black/White lines (8.6 + 9.6 miles) with 2–1033 ACSR conductor.

Supporting Statement: The loss of one of the McIntosh – Meldrim 230 kV Transmission Lines will load the other line to above 100% of its line rating.

In Year: 2017

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

Description: Build a new 500 kV Middle Fork – Thomson 500 kV Transmission Line (approximately 110 miles long).

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.

EAST REGION PROJECTS

In Year: 2017

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

Description: Install a 500 / 230 kV, 1344 MVA transformer bank at Middle Fork and loop in the South Hall – Oconee 500 kV line. 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 projectand East Walton – South Hall 500 kV project.

In Year: 2017

Project Name: **OFFERMAN THIRD 230 / 115 KV TRANSFORMER**

Description: Install a third 140 MVA 230 / 115 kV transformer

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 TRANSFORMER #2 ADDITION**

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 the 2.3 mile Pittman Road – West Point #2 section of the Pittman Road – West Point 115 kV Transmission Line from 100° C 636 ACSR to 100° C 1033 ACSR.

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 overload.

In Year: 2017

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

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

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

EAST REGION PROJECTS

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 between the Peeksville and Ingram Substations and add three breakers at the Locust Grove substation to terminate lines from McDonough, S.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 S.Griffin end of the McDonough – S.Griffin 115 kV Transmission Line will overload the opposite end from McDonough to Locust Grove.

In Year: 2018

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

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

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

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In Year: 2018

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

Description: Install 2% reactor at Eatonton Primary substation on the Branch 230 kV Transmission Line

Supporting Statement: The loss of Mcdonough 6 unit and the loss of the Branch – Forrest lake 230 kV Transmission Line, overloads the Branch – Eatonton #3 230 kV Transmisison Line.

In Year: 2018

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

Description: Reconductor 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.

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. Terminate at South Hall. Terminate at East Walton

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 transformer banks at Gainesville #2 with 400 MVA Transformers and lowside bank 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 bank 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 bank, the Gainesville #2–2 230 / 115 kV transformer becomes overloaded.

EAST REGION PROJECTS

In Year: 2018

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

Description: On the Holly Springs – Hopewell 115 kV Transmission Line, replace 3.27 mi of 636 ACSR with 1033 ACSR.

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

Description: Upgrade the Jamestown – Northeast Waycross section to 100° C operation.

Supporting Statement: The loss of the Kettle Creek – Glenmore Jct. 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 5.6 miles of 397 ACSR conductor to 100° C from the S. Covington Junction to Jackson Lake section of the Lloyd Shoals – Porterdale 115 kV Transmission Line. Install a two stage 115 kV 50 MVAR capacitor bank, on the Lloyd Shoals 115 kV bus.

Supporting Statement: Area voltage support.

In Year: 2018

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

Description: Reconductor 2.72 miles on the West Marietta – Mill Creek Jct. segment of the McConnell Road – West Marietta 115 kV Transmission Line, from 636 ACSR to 1033 ACSR

Supporting Statement: The loss of the McConnell 230/115 Transformer overloads the West Marietta – Mill Creek Jct segment of the McConnell Rd – 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.

EAST REGION PROJECTS

In Year: 2018

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: 2018

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

Description: Replace the1200 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 the Berkeley Lake to Spruill Road section of the Norcross – Ocee 230 kV Transmission Line using 160°C 1033 ACSS conductor (approximately 3.97 miles). Replace terminal equipment at Atlanta Fulton County Water and Ocee.

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

In Year: 2018

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

Description: Reconductor 1.6 miles of 636 ACSR with 1033 ACSR from O'hara to the Corinth Rd. substation, on 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 St. section of the Riverdale – O'hara 115 kV Transmission Line to overload.

In Year: 2018

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

Description: Install a 2 stage 238 MVAR 230 kV at Porterdale substation.

Supporting Statement: Area voltage support.

EAST REGION PROJECTS

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 14.5 miles of 230 kV Transmission Line from Sharon Springs to Suwanee using 1351 ACSR conductor. Install a 230 kV breaker at Suwanee to terminate 230 kV Transmission Line to Sharon Springs.

Supporting Statement: For the loss of the Norcross – South Hall 500 kV Transmission Line, the South Hall – Spout Springs 230 kV Transmission Line becomes overloaded.

In Year: 2018

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

Description: Reconductor approximately 19 miles of the S.Coweta – Yates 477 ACSR, 115 kV Transmission Line with 1033 ACSR, from Yates to Madras, Madras to Yamaha and S.Coweta to the Sharpsberg tap.

Supporting Statement: For the loss either end of the S. Coweta – Yates 115 kV Transmission Line with Yates unit #3 off line, 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 230 kV 90 MVAR capacitor bank. At Moon Rd replace the existing 60 MVAR capacitor bank a 2 stage, 115 kV 90 MVAR capacitor bank. At Factory Shoals install a 115 kV 30 MVAR capacitor bank.

Supporting Statement: Area voltage support.

In Year: 2019

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

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

Supporting Statement: For the loss of the Douglasville – Villa Rica 230 kV Transmission Line, sections of the Adamsville – Douglasville 230 kV Transmission Line become overloaded.

EAST REGION PROJECTS

In Year: 2019

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

Description: Reconductor the 3.2 mile Americus – North Americus (Black) 115 kV Transmission Line (100°C 477 ACSR) with 100°C 636 ACSR.

Supporting Statement: For the loss of the Americus to North Americus (White) 115 kV Transmission Line with Mitchell unit #3 off line, the Americus – North Americus (Black) 115 kV Transmission Line becomes overloaded.

In Year: 2019

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

Description: Reconductor approximately 2.9 miles of 1033 ACSR at 100 °C with 1351 SSAC 160°C from Bay Creek to Lawrenceville #4 tap along the Bay Creek – Moon Road 115 kV Transmission Line.

Supporting Statement: For the loss of the Bay Creek to Vulcan Material Junction section of the Bay Creek – Snellville 115 kV Transmission Line, the Bay Creek – Lawrenceville #4 tap section of the Bay Creek – Moon Road 115 kV Transmission Line becomes 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: For the loss of the Blankets Creek– Holly Springs 115 kV Transmission Line, sections of the Holly Springs – Nelson 115 kV Transmission Line become overloaded.

In Year: 2019

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

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

Supporting Statement: For the outage of the Bull Sluice – Sandy Springs section of the Bull Sluice – North Park 230 kV Transmission Line, the Boulevard – Buckhead 230 kV Transmission Line becomes overloaded.

EAST REGION PROJECTS

In Year: 2019

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

Description: Reconductor 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: For the loss of the Hickory Level – Sandhill segment of the Hickory Level – Possum Branch 115 kV Transmission Line, sections of the Bremen – Possum Branch 115 kv Transmission Line 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 115 / 46 kV, 60 MVA, LTC 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: For the loss of the Grange Road – Georgia Port 46 kV Transmission Line the Millhaven – Rossignol Hill 46 kV Transmission Line becomes overloaded.

In Year: 2019

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

Description: Reconductor the Middle Fork – N. Commerce Jct. 115 kV Transmission Line segment (approximatelly13.9 miles long) with 100°C 1033 AS CR. Replace 500 Cu jumpers at Commerce Primary with 1590 AAC jumpers.

Supporting Statement: For the loss of the Middlefork – South Hall 500 kV Transmission Line sections of the Commerce Primary – Middle Fork 115 kV Transmission Line will become overloaded.

EAST REGION PROJECTS

In Year: 2019

Project Name: **DAWSON AREA CAPACITORS**

Description: Install a 90 MVAR, 230 kV capacitor with associated equipment in the 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 the Sylvania – King Mfg – Dover tap sections, 16.4 miles, of the Statesboro Primary (Deal Branch – Sylvania 115 kV Transmission Line to 100 °C.

Supporting Statement: For the loss of the Vogtle – West McIntosh 500 Kv Transmission Line, sections of the Statesboro Primary – Sylvania 115 kV Transmission Line become overloaded.

In Year: 2019

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

Description: Upgrade the Gilman – Patterson section of the Offerman – Gilman Paper 115 kV Transmission Line. This section is 7.0 miles of 50° C 4/0 ACSR conductor which should be upgraded to 100°C 4/0 ACSR.

Supporting Statement: For the loss of the Blackshear Jct – Blacshear tap section of the Offerman – Kettle Creek Primary (White) 115 kV Transmission Line, the Gilman Paper – Patterson section becomes 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: For the loss of the Union City 500 / 230 kV transformer, the Jonesboro – O'Hara 230 kV Transmission Line becomes overloaded.

In Year: 2019

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

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

Supporting Statement: For the loss of the Branch – Eatonton 230 kV Transmission Line, the Klondike to Smyrna Church section of the Klondike – Porterdale 230 kV Transmission Line becomes overloaded.

EAST REGION PROJECTS

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 2 stage 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 2 stage 90 MVAR capacitor bank.

Supporting Statement: Area voltage support.

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: Add a two stage, 60 MVAR 115 kV capacitor bank at Locust Grove 115 kV Substation.

Supporting Statement: Area voltage support.

EAST REGION PROJECTS

In Year: 2019

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

Description: Install second 45 MVAR capacitor bank at Monroe 115 kV Substation.

Supporting Statement: The loss of Bay Creek – Monroe 115 kV Transmission Line at Bay Creek results in low voltage at Split Silk.

In Year: 2019

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

Description: Reconductor 3.7 miles of 4/0 ACSR at 100°C with 10 0°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 a 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.

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

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.

EAST REGION PROJECTS

In Year: 2019

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

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 overloads the Waynesboro 230 / 115 kV transformer.

In Year: 2019

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

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 will overload the other line.

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.

Section 2.

10 YEAR EXPANSION PLAN
WEST REGION

WEST REGION PROJECTS

In Year:	2009 – 2010 – 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:	2010
Project Name:	**BARRY – IPSCO 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 4.16 Miles of 1351.5 54/19 ACSR @ 100º C to 125º C operation along the Barry – IPSCO 230 kV Transmission Line.
Supporting Statement:	The loss of the Barry – Chickasaw 230 kV Transmission Line with Daniel #1 off-line, overloads the Barry – IPSCO 230 kV Transmission Line.

In Year:	2010
Project Name:	**SILVERHILL SUBSTATION**
Description:	Install two (2) series bus tie breakers at Silverhill Substation
Supporting Statement:	A failure of the bus tie breaker at Silverhill Substation can cause potential loss of load.

In Year:	2010
Project Name:	**MCINTOSH – CAES 115 KV TRANSMISSION LINE**
Description:	Reconductor 1.74 miles of bundled (2) 795 ACSR 115 kV Transmission Line with bundled (2) 795 ACSS at 160°C from McIntosh to C.A .E.S. Loop Barry S.P. – McIntosh Substation “B” 115 kV Transmission Line into C.A.E.S. Upgrade the C.A.E.S. and Barry S.P. “B” 115 kV terminals at McIntosh Substation to 3000 A. Replace the main bus at McIntosh Substation with 2 – 1590 AAC.
Supporting Statement:	McIntosh – CAES 115 kV Transmission Line improvements due to New PowerSouth Generation.

WEST REGION PROJECTS

In Year:	2010
Project Name:	**EAST PELHAM 230 / 115 KV SUBSTATION**
Description:	Construct a 400 MVA 230 / 115 kV substation with three 230 kV terminals and breakers, and three 115 kV terminals and breakers. Two 230 kV network lines are formed (Gaston – East Pelham and Bessemer – East Pelham). Construct a 115 kV switching station at Chelsea SS with three 115 kV terminals and breakers creating three new network 115 kV transmission lines (East Pelham – Chelsea SS, Leeds – Chelsea SS, Lay Dam – Chelsea SS). Construct a 115 kV switching station at Alabaster SS with four 115 kV terminals and breakers creating three new network 115 kV transmission lines (East Pelham – Alabaster SS, North Helena – Alabaster SS, and Calera – Alabaster SS).
Supporting Statement:	High load growth in the Pelham, Helena, and South Jefferson area require additional transformer capacity to relieve thermal and voltage issues.

In Year:	2010
Project Name:	**LAY DAM – MITCHELL DAM 115 KV TRANSMISSION LINE**
Description:	Retire Lay – Mitchell Dam (B) and reconductor Lay Dam– Mitchell Dam (A) 115 kV Transmission Line with a minimum of 795 ACSS at 160°C.
Supporting Statement:	Lay Dam and Mitchell Dam are connected by two parallel 115 kV transmission lines. These lines may overload for the loss of the other line, or for the loss of the Billingsley SS – South Bessemer 500 kV Transmission Line.

In Year:	2010
Project Name:	**DEER CREEK CAPACITOR BANK**
Description:	Install a 15 MVAR capacitor bank at Deer Creek Substation
Supporting Statement:	A 15 MVAR capacitor bank at Deer Creek Substation is needed for voltage support with a loss of the Pinedale – ECI Halstead 115 kV Transmission Line.

In Year:	2010
Project Name:	**ALABAMA RIVER PULP CAPACITOR BANK**
Description:	Upgrade 15 MVAR Capacitor Bank at Alabama River Pulp
Supporting Statement:	The existing capacitor bank was built as a temporary fix. New permanent bank to be built.

WEST REGION PROJECTS

In Year:	2010
Project Name:	**PLANT WATSON – LUCEDALE 115 KV TRANSMISSION LINE**
Description:	Upgrade Three Rivers Road to Vestry tap line segment from 50°C to 100°C operation.
Supporting Statement:	Multiple line outages overload the first two line segments (from the old O'Neal Road tap up to Vestry tap).

In Year:	2010
Project Name:	**COLUMBIA CAPACITOR BANK**
Description:	Disconnect / retire a series of cans at the Columbia substation to reduce the capacitor bank from 32.4 MVAR capacity down to 21.7 MVAR and add a new 15 MVAR capacitor bank at Columbia.
Supporting Statement:	Operational flexibility for voltage control during off peak time periods necessitates need for staging the capacitor bank at Columbia.

In Year:	2010
Project Name:	**MISSISSIPPI CHEMICAL – CHEVRON COGEN 115 KV TRANSMISSION LINE**
Description:	Upgrade 600 A switches at MS Chemical and reconductor the MS Chemical – Chevron 115 kV the Transmission Line with 1033 ACSR
Supporting Statement:	The loss of Moss Point East to Chevron East 115 kV (direct) line with Chevron #5 generator offline overloads this circuit.

In Year:	2010
Project Name:	**NASA NORTH 115 KV TRANSMISSION LINE**
Description:	Construct 4 miles of new 115 kV line from the NASA Saturn Drive Substation to a new three breaker ring bus tapping the Kiln – Picayune #2 115 kV Transmission Line.
Supporting Statement:	Customer requested upgrade (NASA) of transmission system.

WEST REGION PROJECTS

In Year:	2010
Project Name:	**BRENTWOOD – PINE FOREST 115 KV TRANSMISSION LINE**
Description:	Reconductor 5.7 miles of 477 ACSR at 100°C 115 kV Transmission Line with 1033 ACSR at 100°C from Brentwood to Pine Forest.
Supporting Statement:	The loss of the Byrneville – Flomaton 115 kV Transmission Line causes the Brentwood – Pine Forest 115 kV Transmission Line to exceed its thermal limit.

In Year:	2010
Project Name:	**FAIRFIELD 115 KV SWITCHING STATION**
Description:	Construct a new Fairfield Switching Station which loops in the Brentwood – Bayou Chico 115 kV Transmission Line and construct a double circuit 1033 ACSR 115 kV Transmission Line from Fairfield to Brentwood.
Supporting Statement:	The loss of the Bayou – Chico – Brentwood 115 kV Transmission Line causes the Bellview – Bayou Marcus 115 kV Transmission Line to exceed it thermal limit.

In Year:	2010
Project Name:	**SINAI CEMETERY 230 KV REACTOR**
Description:	Install 50 MVARs of 230 kV reactor at Sinai.
Supporting Statement:	Reactor needed to control high voltages during spring and fall light load conditions.

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.

WEST REGION PROJECTS

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:	**HOLT – TUSCALOOSA 115 KV TRANSMISSION LINE**
Description:	Construct 9.54 miles of new 1351 ACSR at 100°C 115 kV Transmission Line from Holt to Tuscaloosa.
Supporting Statement:	With Greene County Unit #1 and the Greene County CTs off-line, the loss of the Holt - NUCOR Steel 115 kV Transmission Line causes thermal overloads in the Tuscaloosa area.

In Year:	2011
Project Name:	**NORTH THEODORE – DAWES TAP 115 KV TRANSMISSION LINE**
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:	**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.

WEST REGION PROJECTS

In Year:	2011
Project Name:	**LAGUNA BEACH 230 / 115 KV SUBSTATION**
Description:	Install a second 230 / 115 kV 400 MVA Autotransformer at Laguna Beach.
Supporting Statement:	The loss of the Smith 230 / 115 kV Autotransformer with Smith #1 off-line overloads the Laguna Beach 230 / 115 kV Autotransformer.

In Year:	2011
Project Name:	**LAGUNA BEACH – HOLIDAY 115 KV TRANSMISSION LINE** **HOLIDAY – HATHAWAY TAP 115 KV TRANSMISSION LINE**
Description:	Construct a new 115 kV Transmission Line from Laguna Beach to Holiday of 1351.5 54/19 ACSR insulated for 230 kV operation and construct 1.25 miles of double circuit 115 kV Transmission Line from Holiday to Hathaway Tap.
Supporting Statement:	With Smith # 1 off-line, the loss of the Smith 230 / 115 kV Autotransformer causes the Laguna Beach – Lullwater Tap 115 kV Transmission Line to exceed its thermal rating.

In Year:	2011
Project Name:	**SMITH – LAGUNA BEACH 115 KV TRANSMISSION LINE**
Description:	Convert the Smith – Laguna Beach 115 kV Transmission Line to 230 kV operation.
Supporting Statement:	With Crist #7 off-line, the loss of the Laguna Beach 230 / 115 kV bank causes the Smith – Laguna Beach 115 kV Transmission Line to exceed its thermal limit.

In Year:	2011
Project Name:	**BRENTWOOD 230 / 115 KV SUBSTATION**
Description:	Install a second Brentwood 230 / 115 kV bank.
Supporting Statement:	With Crist #6 off-line, the loss of Brentwood 230 / 115 kV Autotransformer #1 causes the 230 / 115 kV Bank at Bellview to exceed its rating.

WEST REGION PROJECTS

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:	**HURRICANE CREEK – WIGGINS 115 KV TRANSMISSION LINE**
Description:	Reconductor the 8.85 mile long, Hurricane Creek – Wiggins 115 kV Transmission Line with 795 ACSR. Replace the 600 A switches at Wiggins Switching Station and the 795 ACSR jumpers.
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:	**HATTIESBURG SW – HATTIESBURG 28TH AVE – WEST HATTIESBURG 115 KV LINE SEGMENTS**
Description:	Reconductor 4.5 miles of 266 ACSR 115 kV Transmission Line with 1033 ACSR along the Hattiesburg 28th Ave Tap – West Hattiesburg Tap – Hattiesburg North line segments.
Supporting Statement:	The loss of the Hattiesburg Southwest - West 7th Street 115 kV Transmission Line overloads the parallel circuit.

WEST REGION PROJECTS

In Year:	2012
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. Shoal River to Santa Rosa 230 kV Transmission Line. Replace Laguna Beach – Santa Rosa #1 115 kV Transmission Line with a new 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:	2013
Project Name:	**ANNISTON TAP – 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:	**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.

In Year:	2013
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 100º 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.

WEST REGION PROJECTS

In Year:	2013
Project Name:	**BARRY – CHICKASAW 230 KV TRANSMISSION LINE**
Description:	Reconductor 19.18 miles of line from Barry S.P. to Chickasaw TS. Replace 17.14 miles of bundle (2) 795 45/7 ACSR with bundle (2) 1033.5 ACSS and add a second 1351.5 ACSS to the existing 1.49 miles of 1351.5 ACSS.
Supporting Statement:	With Crist #7 and Hog Bayou Units off-line, the loss of the Barry – Crist 230 kV causes overloading issues.

In Year:	2013
Project Name:	**EPES – EUTAW 115 KV TRANSMISSION LINE**
Description:	Construct Epes – Eutaw 115 kV Transmission Line with 1033 ACSS
Supporting Statement:	The loss of Duncanville – Bradley Road 230 kV Transmission Line causes overloading issues.

In Year:	2013
Project Name:	**31ST AVE – KAUL TAP – SOUTH TUSCALOOSA 115 KV TRANSMISSION LINE**
Description:	Reconductor the 31ST Ave – Kaul Tap – South Tuscaloosa 115 kV Transmission Line with 1033 ACSS.
Supporting Statement:	The loss of Hargrove – South Tuscaloosa 115 kV Transmission Line overloads the 31ST Ave – Kaul Tap – South Tuscaloosa 115 kV Transmission Line.

In Year:	2013
Project Name:	**PLANT GREENE COUNTY SUBSTATION**
Description:	Install a 400MVA 230 / 115 kV Transformer #2 at Plant Greene County Substation
Supporting Statement:	Needed to alleviate thermal overloading.

WEST REGION PROJECTS

In Year:	2013
Project Name:	**PINCKARD – SLOCOMB 115 KV TRANSMISSION LINE**
Description:	Reconductor 12.5 miles of Pinckard TS – Slocomb TS 115 kV Transmission Line with 1033.5 ACSS at 160º C. 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 Smith #3 generator off–line causes the Pinckard TS – Slocomb TS 115 kV to overload.

In Year:	2013
Project Name:	**HATTIESBURG SW TO WEST HATTIESBURG 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:	2013
Project Name:	**WIGGINS – WIGGINS 5TH AVE 115 KV TRANSMISSION LINE**
Description:	Reconductor the Transmission Line with 795 ACSR at 100°C and replace the switches at Wiggins Switching Station.
Supporting Statement:	The loss of Gulfport Landon – Hwy 53 115 kV line segment overloads this line segment when serving load radially from Wiggins.

In Year:	2013
Project Name:	**EATON – HATTIESBURG COUNTY DRIVE 115 KV TRANSMISSION LINE**
Description:	Replace jumpers at Eaton.
Supporting Statement:	The loss of the Hattiesburg SW - Hwy 11 115 kV Transmission Line overloads the jumpers at Eaton.

WEST REGION PROJECTS

In Year:	2013
Project Name:	**CLARKEDALE DELIVERY POINT**
Description:	New 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:	2013
Project Name:	**LAUREL NORTH – HEIDELBERG 115 KV TRANSMISSION LINE**
Description:	Reconductor the Transmission Line with 795 ACSR at 100°C and replace switches and jumpers at Laurel North and one switch at Heidelberg.
Supporting Statement:	The loss of the Plant Sweatt to Clarkedale tap overloads this line segment.

In Year:	2013
Project Name:	**PLANT SWEATT – CLARKEDALE TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor with 795 ACSR at 100°C and replace 600 A switches and jumpers at Plant Sweatt.
Supporting Statement:	The loss of the Laurel North – Denbury Heidelberg 115 kV Transmission Line overloads this line segment.

In Year:	2013
Project Name:	**PINE FOREST – MOLINO 115 KV TRANSMISSION LINE**
Description:	Reconductor the Pine Forest – Molino 115 kV Transmission Line with 1033.5 ACSR.
Supporting Statement:	With Crist #1 off-line, the loss of the Barry SP – Crist SP 230 kV Transmission Line causes the Molino – Champion 115 kV Transmission Line to exceed its thermal rating.

WEST REGION PROJECTS

In Year:	2013
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 #3 Off-line, causes thermal and voltage issues on the Crestview – Holt–Munson – Jay Road 2 115 kV Transmission Line

In Year:	2014
Project Name:	**HENRY DAM – CEDAR BEND 115 KV TRANSMISSION LINE**
Description:	Upgrade 9.03 miles of 397 ACSR from Henry Dam to Cedar Bend 115 kV Transmission Line to 125º C operation.
Supporting Statement:	The designed thermal rating of the Henry Dam – Cedar Bend 115 kV Transmission Line is exceeded during 2014 summer contingency conditions.

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

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.

WEST REGION PROJECTS

In Year:	2014
Project Name:	**SPANISH FORT – BELFOREST 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 7.01 miles of existing 795 ACSR 115 kV Transmission Line from Riviera Utilities (Spanish Fort) tap to Riviera Utilities (Belforest) tap in the Blakeley Island – Silverhill 115 kV Transmission Line with 1033 54/7 ACSS conductor at 160º C.
Supporting Statement:	The reconductor of Spanish Fort – Belforest 115 kV Transmission Line was proposed due to the loss of either Chickasaw – Silverhill 230 kV Transmission Line with Crist #7 off, resulting in overloads on the Spanish Fort - Belforest 115 kV Transmission Line.

In Year:	2014
Project Name:	**NORTH BREWTON T.S. – NORTH BREWTON D.S. 115 KV TRANSMISSION LINE**
Description:	Construct approximately 6 miles of 795 ACSS 115 kV Transmission Line from North Brewton TS to North Brewton DS.
Supporting Statement:	The loss of Barry SP – Stockton Tap 115 kV Transmission Line with Crist #7 off-line causes the N. Brewton TS – Brewton Tap 115 kV Transmission Line to overload.

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.

WEST REGION PROJECTS

In Year:	2014
Project Name:	**BIG CREEK – LYNNDELL AREA 115 KV TRANSMISSION LINE (MOBILE AREA 115 KV NETWORKING)**
Description:	Construct 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:	**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:	2014
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:	2014
Project Name:	**NORTH SELMA – INTER PAPER TAP 115 KV TRANSMISSION LINE**
Description:	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.

WEST REGION PROJECTS

In Year:	2014
Project Name:	**SLOCOMB – AL / FL STATE LINE 115 KV TRANSMISSION LINE**
Description:	Reconductor 8.23 miles Slocomb TS – AL / FL State Line with 1033 ACSS 160º C.
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:	**SNOWDOUN – PIKE COUNTY 230 KV TRANSMISSION LINE**
Description:	Upgrade 32.3 miles along the Snowdoun – Pike Co 230 kV Transmission Line to 100º C.
Supporting Statement:	The loss of the Snowdoun – Farley 500 kV Transmission Line causes the Snowdoun – Pike Co 230 kV Transmission Line to exceed its thermal limit.

In Year:	2014
Project Name:	**CLARKEDALE TAP – STONEWALL 115 KV TRANSMISSION LINE**
Description:	Reconductor the Clarkedale Tap - 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 line overloads this line segment.

In Year:	2014
Project Name:	**OCEAN SPRINGS – INGALLS 115 KV TRANSMISSION LINE**
Description:	Reconductor of the Ingalls Tap – Singing River Mall 115 kV Transmission Line segment with 1033 ACSR.
Supporting Statement:	The loss of the Ocean Springs 230 / 115 kV transformer with Watson #5 off-line overloads Ingalls – SR Mall.

WEST REGION PROJECTS

In Year:	2014
Project Name:	**BILOXI OAK STREET 115 KV TRANSMISSION LINE**
Description:	Construct a new 115 kV line to new substation serving area growth. Tap the Percy Street to Keesler 115 kV Transmission Line and loop 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:	Exceeding existing capacity at Percy Street Substation (Planned Capacity Increase).

In Year:	2014
Project Name:	**MERIDIAN INDUSTRIAL 115 KV TRANSMISSION LINES PROJECT**
Description:	Construct approximately 4 miles of new 795 ACSR 115 kV Transmission Line. Reconductor approximately 0.6 miles of existing 115 kV Transmission Line from tap point to Meridian NE and install a 3–way switch.
Supporting Statement:	Necessary to serve area load growth.

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

In Year:	2015
Project Name:	**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 100% by 2016 under contingency conditions.

WEST REGION PROJECTS

In Year:	2015
Project Name:	**BREWTON TAP – FLOMATON 115 KV TRANSMISSION LINE**
Description:	Upgrade 12.98 miles Brewton Tap – Flomaton 115 kV Transmission Line to 125º C operation.
Supporting Statement:	The loss of the Barry – Stockton Tap 115 kV TL, with Crist #7 off-line, overloads the Brewton Tap – Flomaton 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.

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 N Mobile & new North Crichton Switching Station. Install a Transrupter II EX at Wolf Ridge DS and retire the high side fuse.
Supporting Statement:	Network improvement.

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

WEST 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 1.83 miles Wolf Ridge Tap – Springhill D.S. 115 kV Transmission Line segment with 795 ACSR.
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 0.958 miles Michael Boulevard D.S. – Michael Boulevard Tap 115 kV Transmission Line to 100º C operation.
Supporting Statement:	Network improvement.

In Year:	2015
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 to increase the ampacity of the circuit up to the limit of the conductor.
Supporting Statement:	The loss of the Plant Daniel - Big Creek 230 kV Transmission Line, with Barry #5 off-line, cause the line traps at Plant Daniel and at Moss Point East (on the Daniel – Moss Point East 230 kV line) to overload.

WEST REGION PROJECTS

In Year:	2015
Project Name:	**ALLIGATOR SWAMP SUBSTATION**
Description:	Install a 90 MVAR 230 kV filtered capacitor bank at Alligator Swamp Substation.
Supporting Statement:	Area voltage support.

In Year:	2016
Project Name:	**SPRINGDALE – SPRINGHILL 115 KV TRANSMISSION LINE (MOBILE AREA NETWORKING)**
Description:	Reconductor 2.5 miles of 556.6 AAC 115 kV Transmission Line from Springdale – Springhill with 795 ACSR.
Supporting Statement:	Network improvement.

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

In Year:	2016
Project Name:	**FARLEY 500 / 230 KV TRANSFORMER #1 AND #2**
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.

WEST REGION PROJECTS

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.

In Year:	2016
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:	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 #7 off-line, 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.

WEST REGION PROJECTS

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 SP – CRIST SP 230 KV TRANSMISSION LINE**
Description:	Upgrade the Barry SP – Crist SP 230 kV Transmission Line to @ 125°C operation.
Supporting Statement:	With Crist #7 off-line, the loss of Barry S.P. – Chickasaw 230 kV Transmission Line causes the Barry S.P. – Crist S.P. 230 kV Transmission Line to exceed its rating.

In Year:	2016
Project Name:	**GOULDING – OAKFIELD 115 V TRANSMISSION LINE**
Description:	Reconductor 4.35 miles of 336.4 ACSR 115 kV Transmission Line from Goulding – Oakfield with 1033 ACSR and replace 600 A switches on the Oakfield terminal at Goulding prior to 2016.
Supporting Statement:	The loss of the Crist – Scenic Hills #1 115 kV Transmission Line, with Crist #7 off-line, causes the Goulding – Oakfield 115 kV Transmission Line to exceed its thermal limit.

WEST REGION PROJECTS

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 100C.
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:	**IMPROVE RELIABILITY AT AIRPORT SUBSTATION**
Description:	Build 1.75 mile of 795 ACSR @100°C 115 kV tap from Airport Substation to Hunt Oil.
Supporting Statement:	Network Reliability Improvement.

In Year:	2017
Project Name:	**ORANGE GROVE 230 / 115 KV PROJECT**
Description:	Construct a new 230 / 115 kV substation by tapping the Moss Point East – North Theodore 230 kV line and the Moss Point East – Bayou Casotte substations, construct a new 115 kV line between the new substation and Chevron PRCP and rebuild the line between the new substation and Bayou Casotte.
Supporting Statement:	The loss of one Moss Point East 230 / 115 kV transformer, with Chevron #5 off-line causes the parallel bank to overload. Additional 230 / 115 kV transformation required for serving load in Pascagoula area.

In Year:	2017
Project Name:	**SHOAL RIVER SUBSTATION**
Description:	Install a 90 MVAR 230 kV filtered capacitor bank at Shoal River.
Supporting Statement:	Area voltage support.

WEST REGION PROJECTS

In Year:	2017
Project Name:	**SHOAL RIVER SUBSTATION**
Description:	Install 2nd 230 / 115 kV Bank at Shoal River (400 MVA)
Supporting Statement:	The loss of the Wright – Shoal River 230 kV Transmission Line overloads the Shoal River Bank.

In Year:	2018
Project Name:	**TUSCALOOSA – FAYETTE HWY 115 KV TRANSMISSION LINE**
Description:	Reconductor 2.8 miles of 795 ACSR @100°C Tuscaloosa TS – Fayette Highway 115 kV Transmission Line with 795 ACSS @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:	2018
Project Name:	**CALLAWAY – GASKIN 115 KV TRANSMISSION LINE**
Description:	Reconductor the Callaway Gaskin 115 kV Transmission Line with 795 ACSR for a in service date of 2019.
Supporting Statement:	The loss of the Bay Springs Tap – Dale County 115 kV Transmission Line causes the Callaway – Gaskin 115 kV Transmission Line to reach its thermal limit.

In Year:	2019
Project Name:	**BELLAMY SWITCHING STATION – CUBA 115 KV TRANSMISSION LINE**
Description:	Upgrade the Bellamy Switching Station – Cuba 115 kV Transmission Line to 100˚ C operation.
Supporting Statement:	With Kemper Co IGCC offline, the loss of Greene County – Meridian NE 230 kV Transmission Line causes the Bellamy SS – Cuba 115 kV Transmission Line to overload.

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:	**HOLT – TUSCALOOSA 115 KV TRANSMISSION LINE**
Description:	Convert Holt T.S. – Tuscaloosa T.S. 115 kV Transmission Line to 230 kV (line was built at 230 kV specifications).
Supporting Statement:	This 230 kV conversion will relieve the loadings on several lines and increase the Transformer capacity in the Tuscaloosa area.

In Year:	2019
Project Name:	**WOODCREST TAP – WELL ROAD TAP 115 KV TRANSMISSION LINE**
Description:	Reconductor 2.5 miles Woodcrest Tap – Well Road Tap 115 kV Transmission Line with 795 ACSS at 160º C.
Supporting Statement:	The loss of the Greenville 230 / 115 kV Transformer causes the loading on this line to exceed its thermal rating.

In Year:	2019
Project Name:	**COUNTY LINE ROAD – ELMORE COUNTY 230 KV TRANSMISSION LINE**
Description:	Reconductor 18.2 miles Co Line Rd – Elmore Co 230 kV Transmission Line with 1351 ACSS 160º C (Elmore Co CC Project).
Supporting Statement:	Needed for the addition of Elmore County Generation.

WEST REGION PROJECTS

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

In Year:	2019
Project Name:	**DEMOPOLIS – CEMEX 115 KV TRANSMISSION LINE**
Description:	Upgrade Demopolis – 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 thermal issues on the Demopolis – CEMEX 115 kV Transmission Line.

In Year:	2019
Project Name:	**WRIGHT – SULLIVAN STREET 115 KV TRANSMISSION LINE**
Description:	Reconductor the Wright – Sullivan Street 115 kV Transmission Line with 795 ACSR.
Supporting Statement:	The loss of the Wright – Fort Walton 115 kV Transmission Line, with Crist #6 off-line, causes the Wright – Sullivan Street 115 kV Transmission Line to exceed its thermal limit.

In Year:	2019
Project Name:	**WRIGHT – FORT WALTON 115 KV TRANSMISSION LINE**
Description:	Reconductor the Wright – Fort Walton 115 kV Transmission Line with 795 ACSR.
Supporting Statement:	The loss of the Wright – Sullivan Street 115 kV Transmission Line, with Crist #6 off-line, causes the Wright – Fort Walton 115 kV Transmission Line to exceed its thermal limit.

WEST REGION PROJECTS

SMEPA

In Year:	2009
Project Name:	**COLE ROAD TRANSFORMER REPLACEMENT**
Description:	Upgrade 2 Cole Road 161 / 69 kV
Supporting Statement:	Transformer overloads during the outage of the adjacent Unit.

In Year:	2010
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:	2010
Project Name:	**PURVIS BULK TRANSFORMER REPLACEMENT**
Description:	Install (2) 448MVA, 230 / 161kV Transformers, Relocate 2158 MVA units to West Waynesboro
Supporting Statement:	Transformers limit export capability with MPCo during outage of one unit.

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.

WEST REGION PROJECTS

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.

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.

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.

WEST REGION PROJECTS

In Year:	2012
Project Name:	**CLIO AREA PROJECT**
Description:	1) Construct 14 mile Texasville Junction – Judson 115kV transmission line 795 ACSR 2) Upgrade the Brundidge – Clio 115 kV Transmission Line to 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.

In Year:	2012
Project Name:	**BREWTON – FREEMANVILLE 115 KV TRANSMISSION LINE**
Description:	Upgrade to 100º C operation.
Supporting Statement:	This line overloads under several Unit out and N-2 contingencies. This is a project to strengthen the system to respond to single and double contingency conditions.

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.