West





- PS (PowerSouth Energy Cooperative)
- Georgia Transmission
- SMEPA (South Mississippi Electric Power Association)

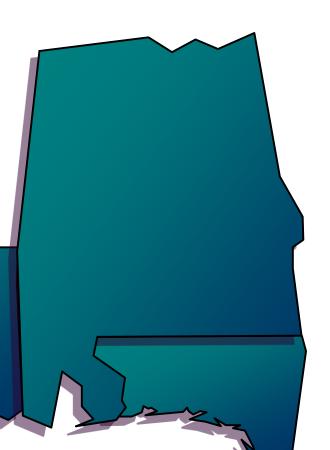
Southern Company













Expansion Item W-1

2014





- Reconductor 1.5 miles with 795 ACSR along the Anniston – Oxanna 115 kV T.L.
- Create a new 115 kV T.L. from Anniston to Crooked Creek.





Georgia Transmission

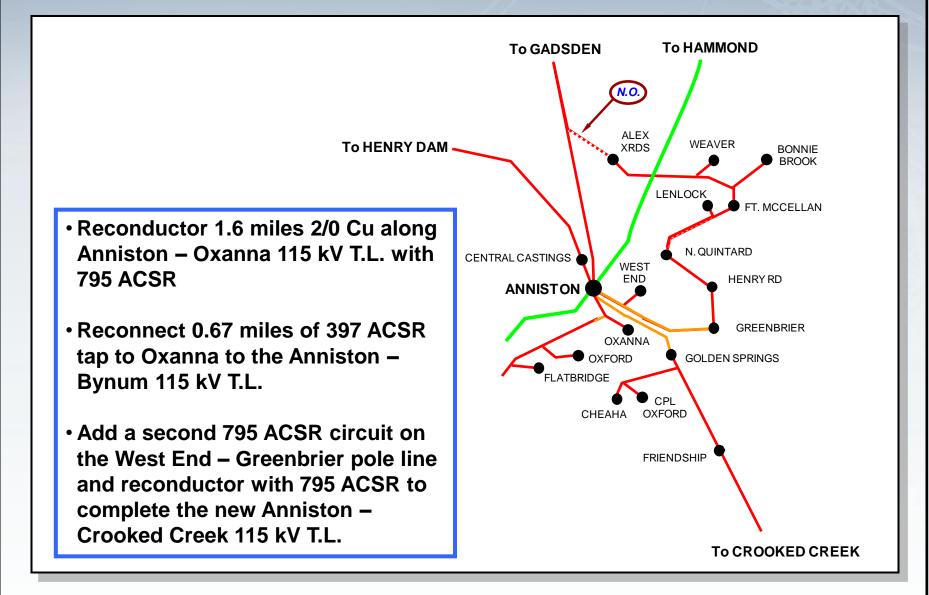


The loss of the West End DS – Oxanna Tap 115 kV line section, causes the southern end of the Anniston – Crooked Creek 115 kV T.L. to become overloaded.



Voltage Support.

Anniston Area Improvement



Expansion Item W-2

2015









Reconductor 47.8 miles of 115 kV T.L. from Marianna to Highland City with 1033 ACSR at 100° C.



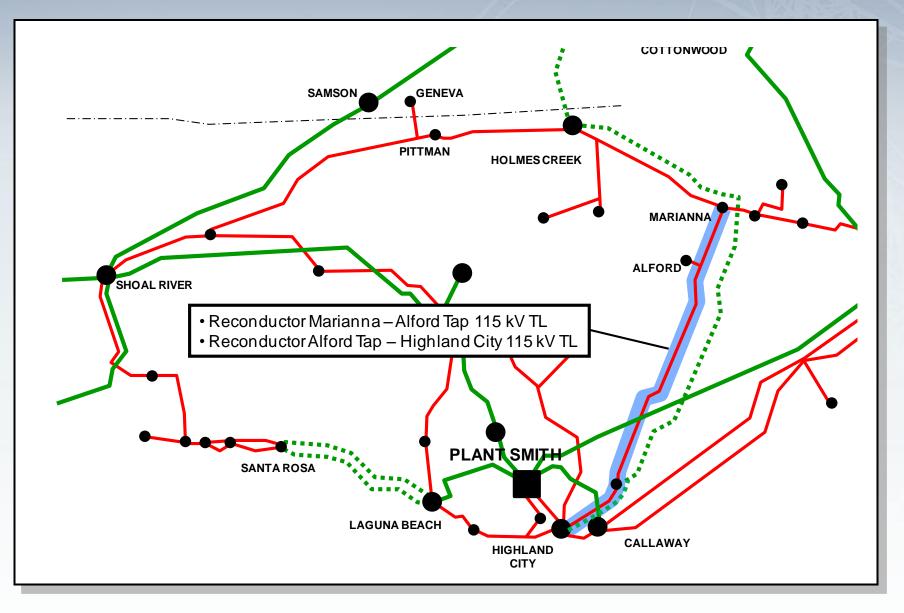




The loss of Holmes Creek – Highland City 230 kV T.L., with Smith Unit #3 offline, causes the Marianna – Highland City 115 kV T.L. to become overloaded.



Marianna – Highland City 115 kV T.L.





Expansion Item W-3

2015



Georgia Transmission

MEAGPOWER

Santa Rosa – Laguna Beach 230 kV T.L.

- Construct a new Santa Rosa 230 kV substation with one 230 / 115 kV transformer.
- Replace Laguna Beach Santa Rosa #1 115 kV T.L. with a new 230 kV T.L (1351 ACSR).

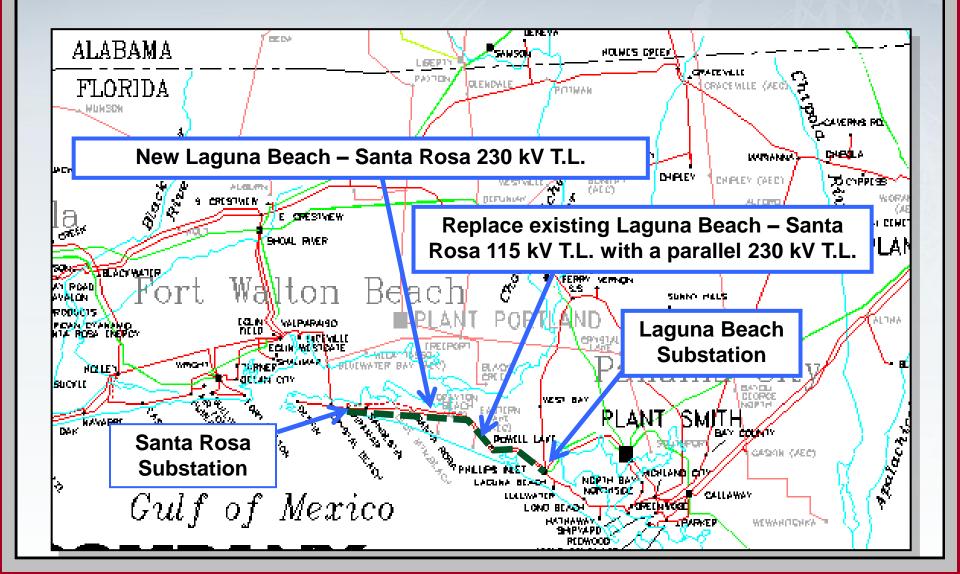




Several transmission lines in the Fort Walton Beach area exceed their thermal ratings under contingency conditions.



Santa Rosa – Laguna Beach 230 kV T.L.





Expansion Item W-4

ACSS at 200° C.

to a 230 / 115 kV substation.

2015



T.L.







The loss of Millers Ferry – Camden Tap 115 kV T.L., with Crist offline, causes the Octagon – Thomasville 115 kV T.L. to become overloaded.

Greene County – Bassett Creek 230 kV

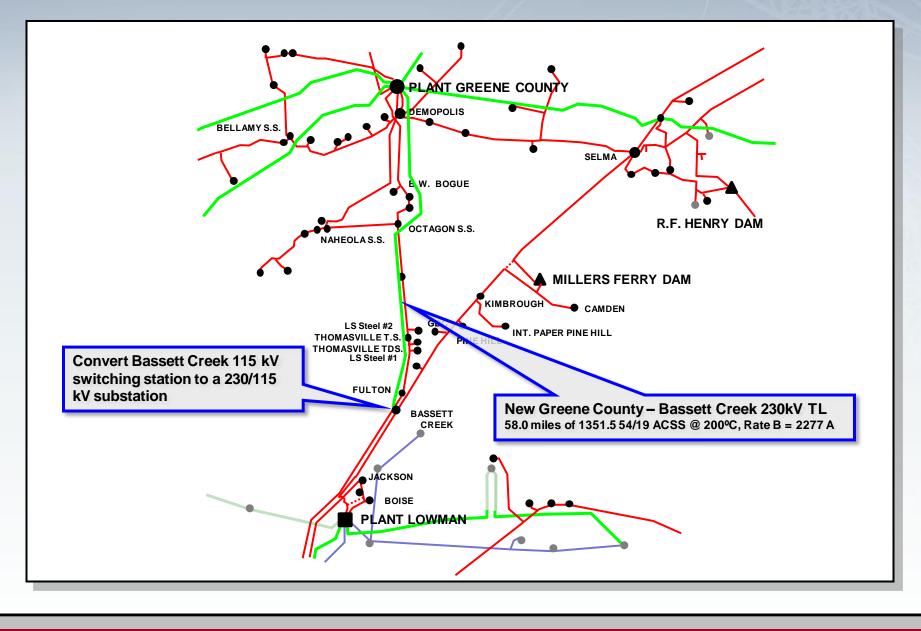
Construct 58.0 miles of new 230 kV T.L. from

Greene County to Bassett Creek with 1351

Convert Bassett Creek 115 kV switching station



Greene County – Bassett Creek 230 kV T.L.





Expansion Item W-5

2015



Georgia Transmissior

North Brewton – Alligator Swamp 230 kV T.L.

Construct approximately 56 miles of new 230 kV transmission line from North Brewton – Alligator Swamp with 1351 ACSS at 200° C.



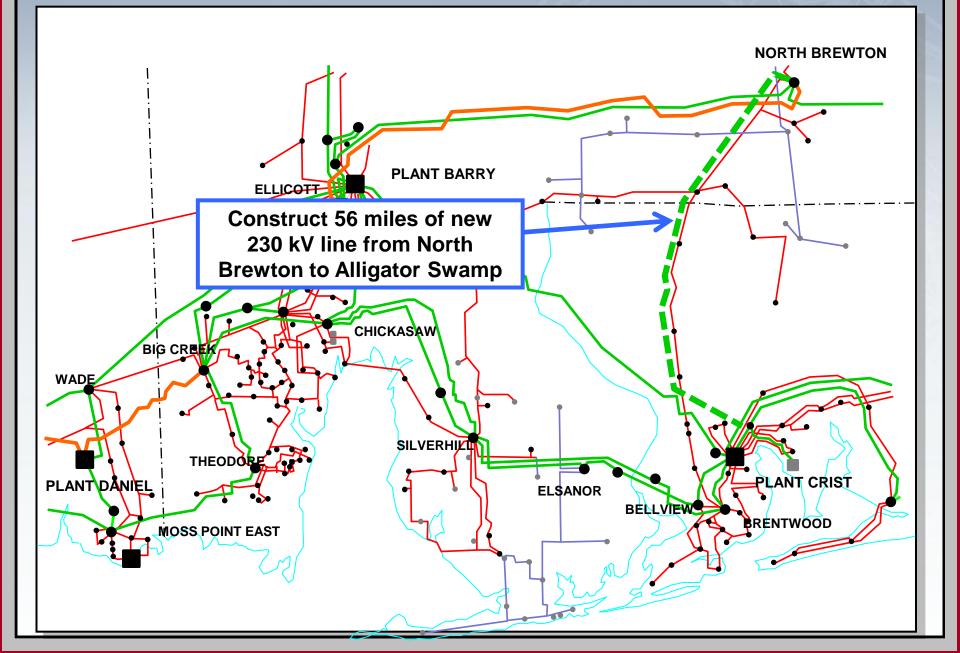




The loss of one Chickasaw – Silverhill 230 kV T.L., with Crist offline, causes the parallel Chickasaw – Silverhill 230 kV T.L. and Barry – Crist 230 kV T.L. to become overloaded.



North Brewton – Alligator Swamp 230 kV T.L.





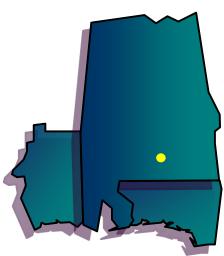


2015



Enterprise Area Project

- Construct a new 230 / 115 kV substation, South Enterprise TS that taps the Pinckard – Opp 230 kV T.L.
- Construct 6.0 miles of 115 kV transmission line from South Enterprise – Enterprise with 795 ACSS at 160 °C.





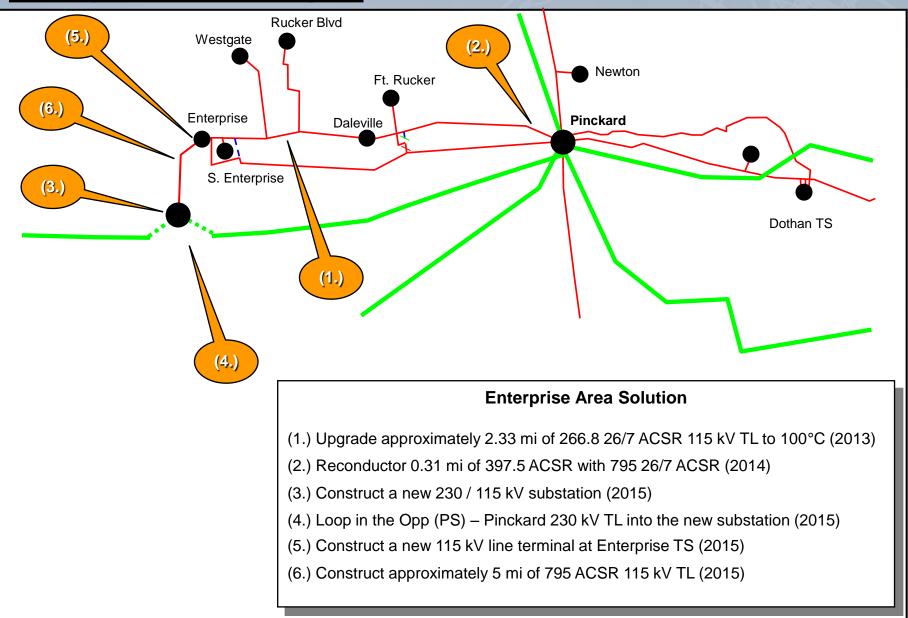
Georgia Transmission



The loss of the Pinckard – Enterprise #1 115 kV T.L., with Smith Unit #3 offline, causes sections of the Pinckard – Enterprise #2 115 kV T.L. to overload and vice versa.



Enterprise Area Project





Expansion Item W-7

2015



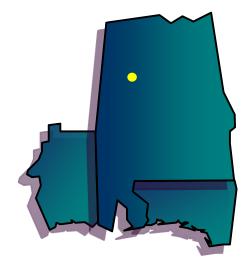


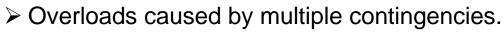


MEAGPOWER

Tuscaloosa Area Improvement

- Install a 230 / 115 kV transformer at a new substation, Moundville TS.
- Convert Moundville (to be called North Moundville DS) and Akron 44 kV substations to 115 kV
- Construct a new 115 kV T.L. from North Moundville to Moundville.
- Construct a new 115 kV T.L. from North Moundville to Big Sandy/Englewood Tap









OWER ASSOCIAT



Expansion Item W-8

2015



Georgia Transmission

Tuscaloosa Area Improvement

- Install a new 115 kV T.L. from Englewood to South Tuscaloosa
- Reconductor 3.6 miles of existing 115 kV T.L. from Big Sandy to Big Sandy Tap with 397 ACSR

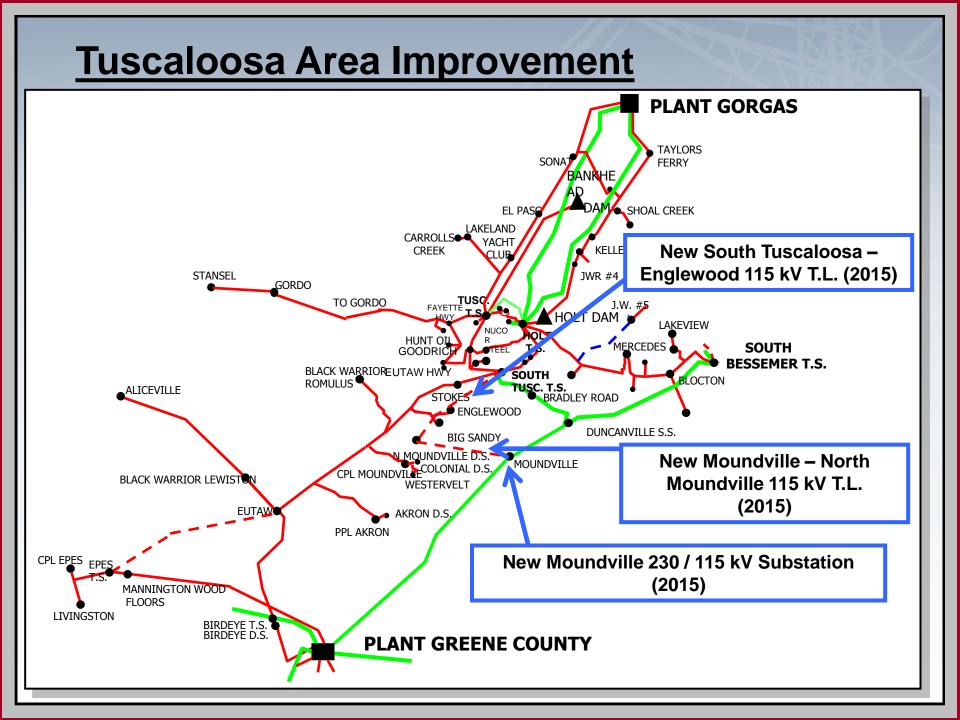






The loss of the Duncanville – Bradley Rd 230 kV T.L., with Gorgas unit #10 offline, causes the Eutaw – Moundville Tap 115 kV T.L. to become overloaded





Expansion Item W-9

2017



Barry – Crist 230 kV T.L.

- Dalton
- Upgrade 31.6 miles along the Barry SP Crist SP 230 kV T.L. to 125° C operation.





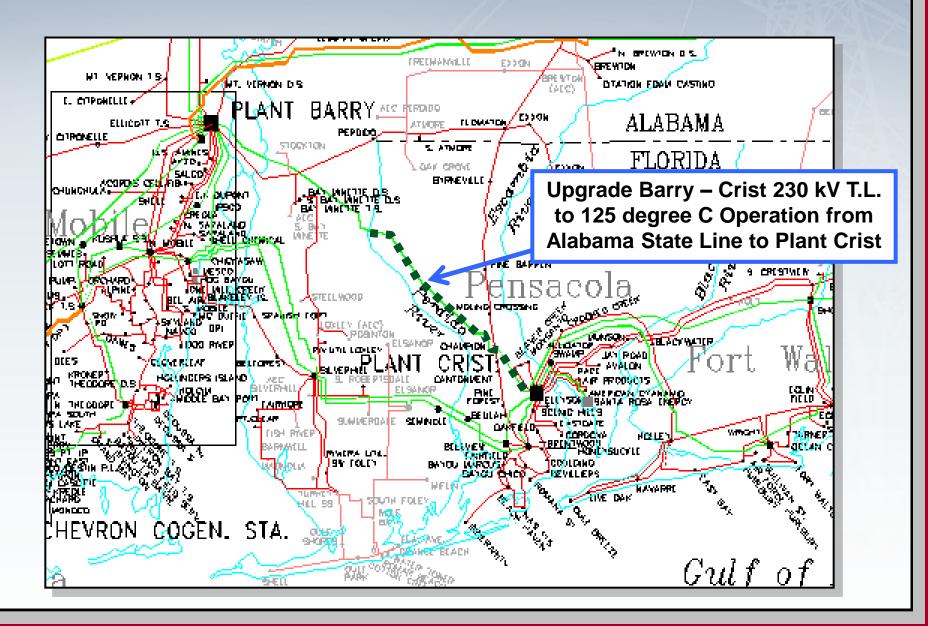
Georgia Transmission



The loss of Barry S.P. – Chickasaw 230 kV T.L., with Crist unit #7 offline, causes the Barry S.P. – Crist S.P. 230 kV T.L. to exceed its thermal rating.



Barry – Crist 230 kV T.L.





Expansion Item W-10

2017



Georgia Transmission

ELMEAGPOWF

Jasper Area Improvements

- Construct a new switching station, Jasper SS, near Jasper TS tap
- Loop in the Jasper TS Oakman and Jasper DS
- Taft Coal 161 kV transmission lines
- Reconductor 13.8 miles from Gorgas Jasper Tap 161 kV transmission line with 795 ACSR
- Reconductor 5.3 miles along the Jasper TS Parkland SS 161 kV with 795 ACSR.

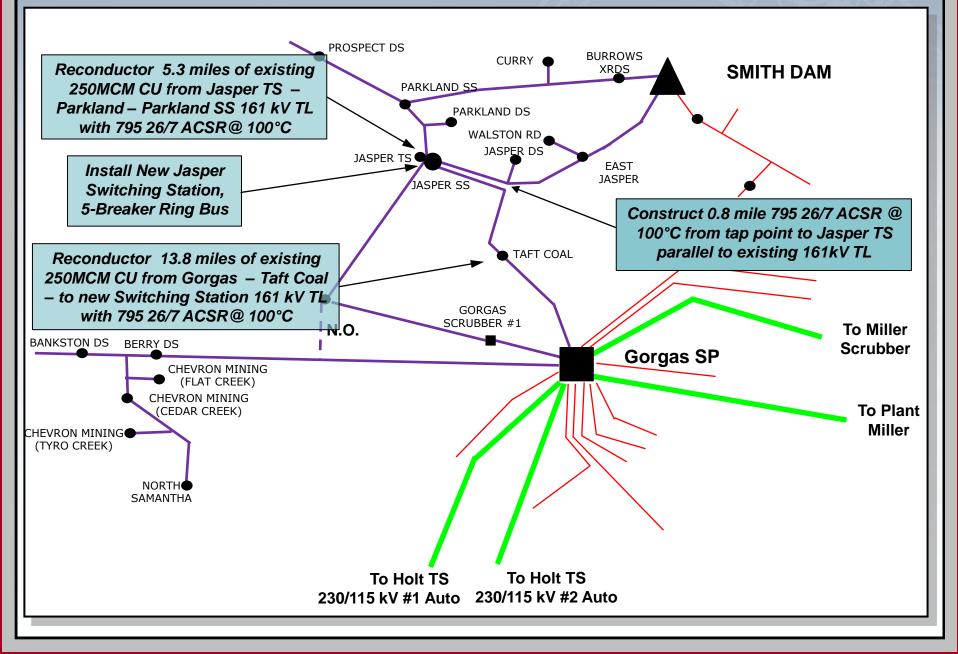






The loss of the Gorgas Scrubber #1 – Gorgas 161 kV transmission line causes the Gorgas – Taft Coal – Jasper Tap 161 kV transmission line to become overloaded.

Jasper Area Improvements





Expansion Item W-11 Silverhill – Turkey Hill 115 kV T.L.

new Silverhill – Turkey Hill 115 kV T.L.

➤Construct approximately 2.75 miles of new 115 kV

T.L. from Barnwell Tap – Turkey Hill to complete the

2018





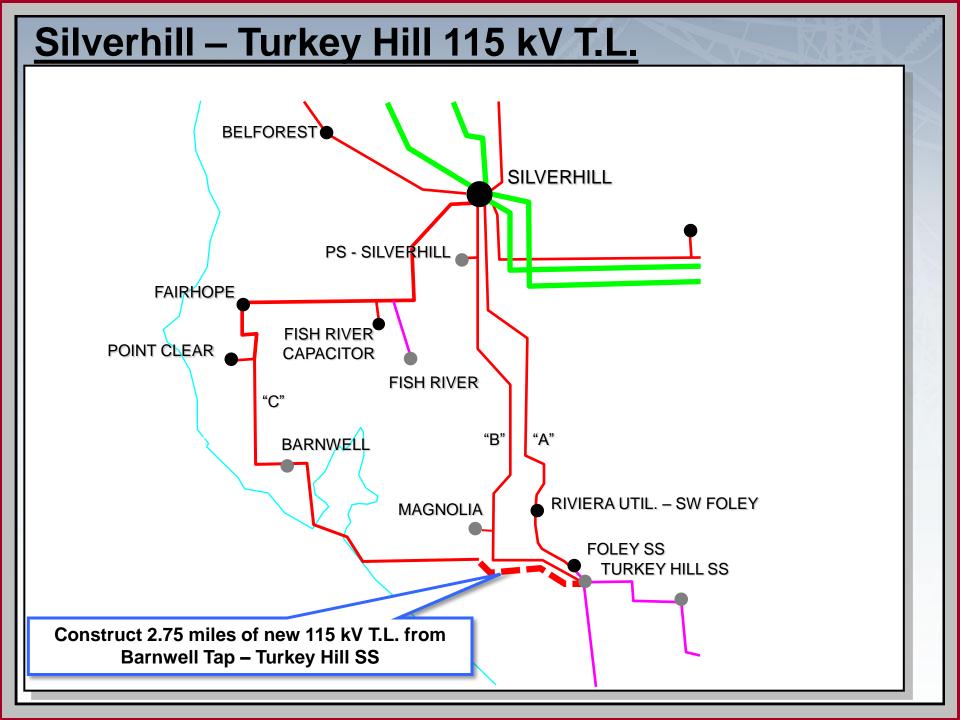






The loss of the Silverhill – SW Foley 115 kV T.L., with Crist unit #7 offline, causes several sections from Silverhill to Turkey Hill to become overloaded.





Expansion Item W-12

2021









Reconductor 18.6 miles of 230 kV T.L. from Barry Steam Plant – Chickasaw T.S. with 2-795 ACSS at 200 °C.





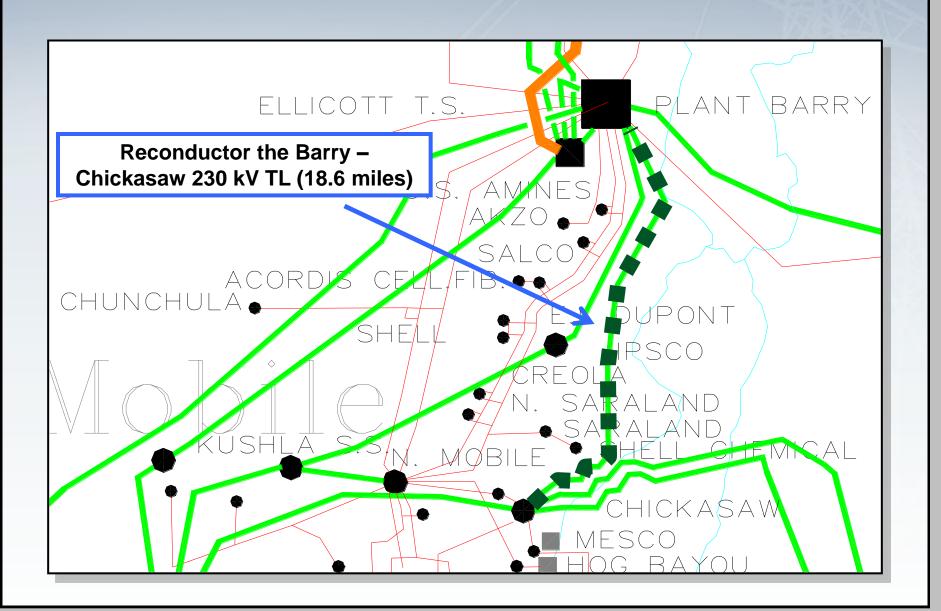
MEAGPOWER



The loss of the Barry – Crist 230 kV T.L., with Crist unit #7 offline, causes the Barry – Chickasaw 230 kV T.L. to become overloaded.



Barry – Chickasaw 230 kV T.L.



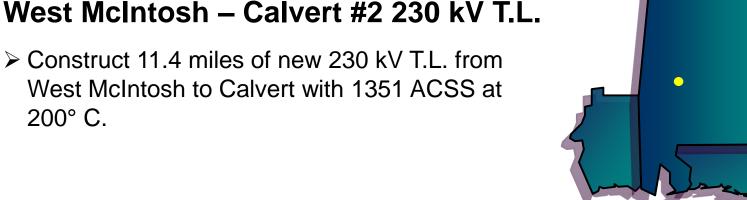
Expansion Item W-13

200° C.

2021











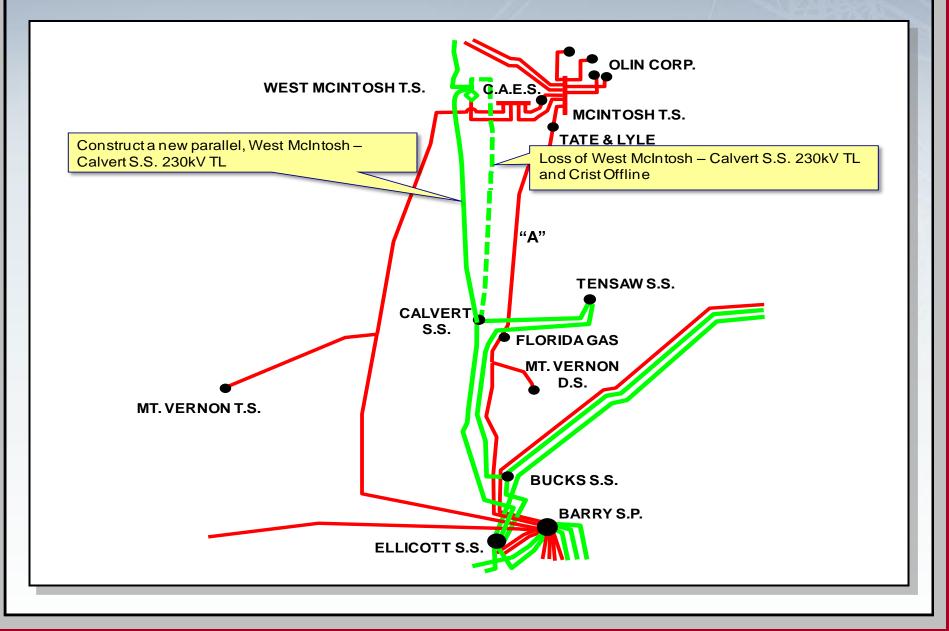
The loss of West McIntosh – Calvert #1 230 kV T.L., with Crist offline, causes the Barry – McIntosh "A" and Barry – CAES 115 kV T.L.s to become overloaded.

Construct 11.4 miles of new 230 kV T.L. from

West McIntosh to Calvert with 1351 ACSS at



West McIntosh – Calvert #2 230 kV T.L.







Georgia Transmission







South Mississippi Electric Power Association

Expansion Item SME-1

2015



South Hoy 161 KV Source

Hoy.



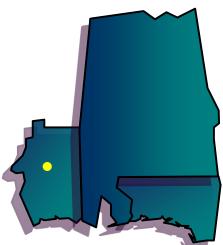




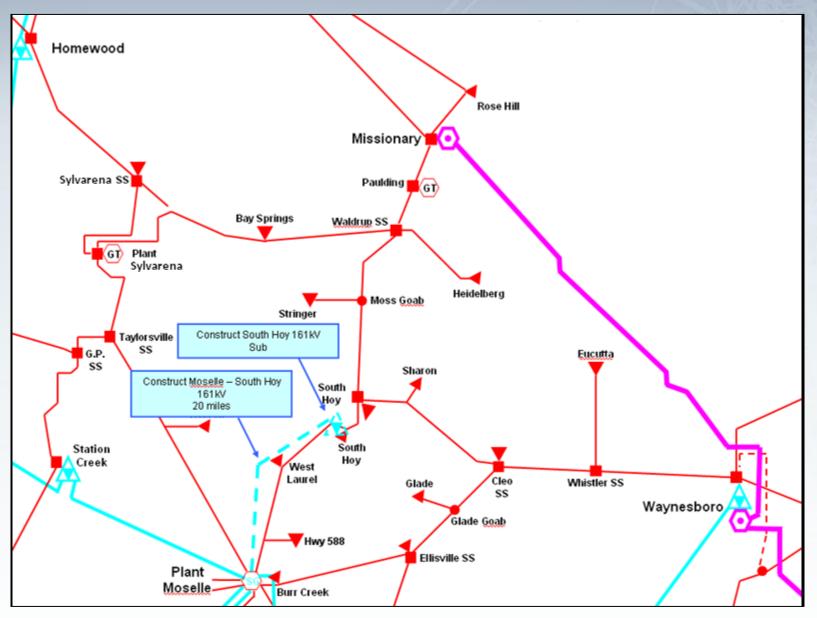


Construct a new 161 / 69 KV substation at South

- Construct a new 161 KV T.L. from Moselle to South Hoy.
- This project alleviates 69 KV low voltages and multiple line overloads during 69 KV contingencies.



South Hoy 161 KV Source



Expansion Item SME-2

2016











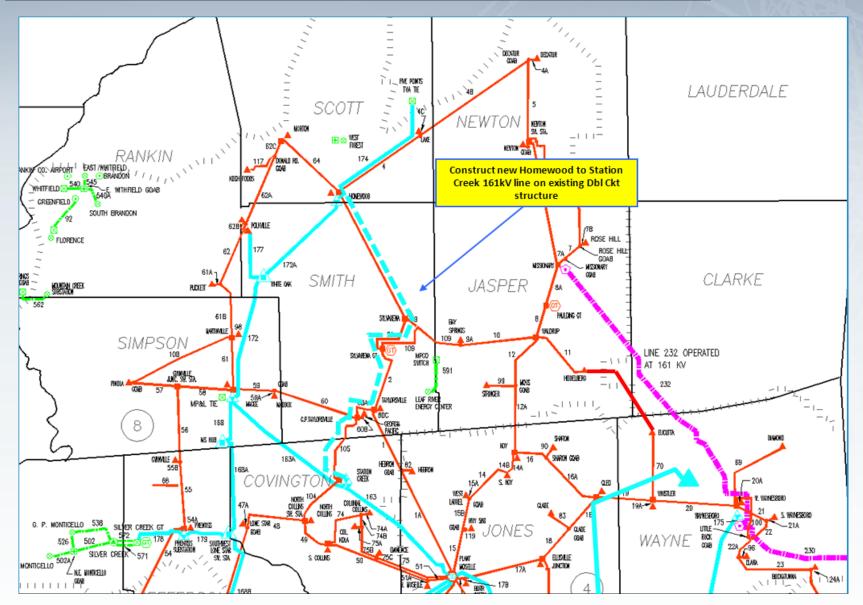


- Construct a new 161KV line from Homewood Station Creek utilizing the existing 69KV lines built w/ double circuit specifications from Homewood – Sylvarena – Sylvarena GT – Taylorsville – Station Creek
- This project alleviates loading on the Homewood 161/69 KV auto transformers and alleviates multiple 69 KV line overloads during system contingencies.





Homewood – Station Creek 161 KV Line



Expansion Item SME-3

2016







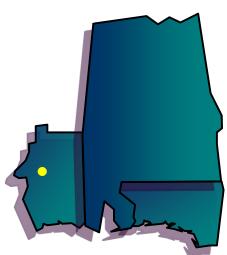




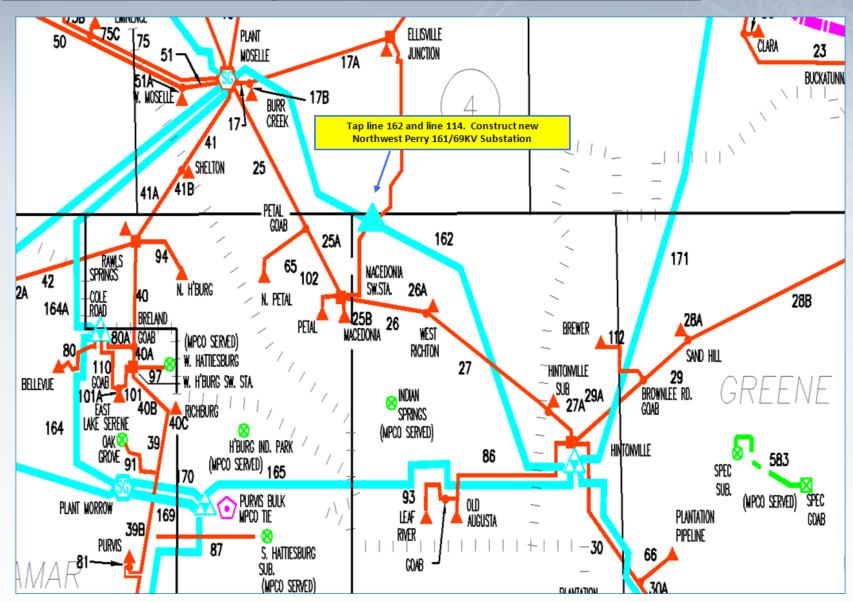


Northwest Perry 161 / 69 KV Substation

- ➤ Tap 161 KV Line 162 and 69 KV Line 114
- Construct Northwest Perry 161 / 69 KV Substation
- This project alleviates 69 KV low voltages and multiple line overloads on the Moselle – Hintonville 69 KV loop during certain contingencies and supports the high load growth area near Petal.



Northwest Perry 161 / 69 KV Substation



Expansion Item SME-4

2021



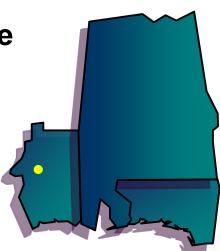


Georgia Transmission

MEAGPOWER



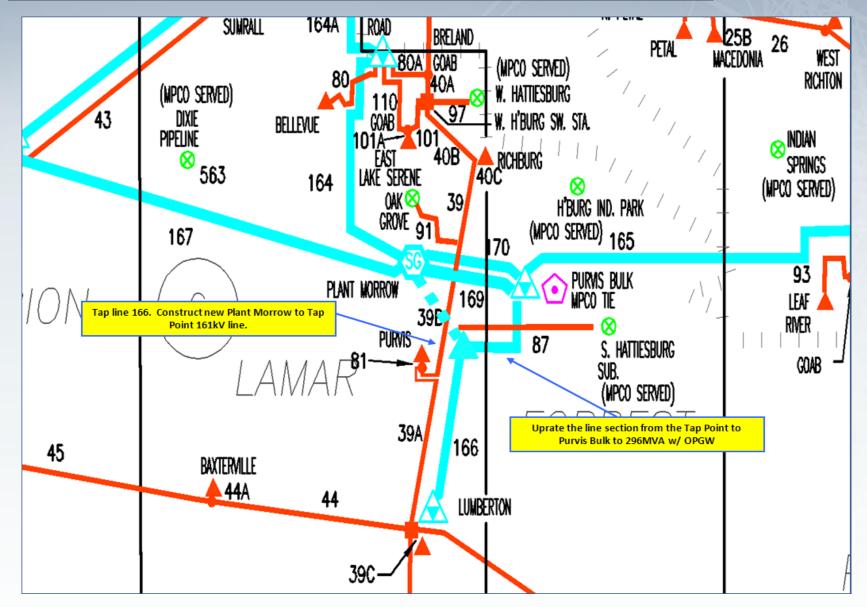
- ➤ Tap 161 KV Line 166
- Construct new 161 KV line from Plant Morrow to Tap Point
- Uprate existing line section from Tap Point to Purvis Bulk
- This project alleviates line overloads for the contingency of parallel line's 169 or 170 (Plant Morrow – Purvis Bulk 161kV). The outage of one line overloads the adjacent line.





POWER ASSOCIATI

Plant Morrow – Purvis Bulk 161 KV Line



Expansion Item SME-5

2021











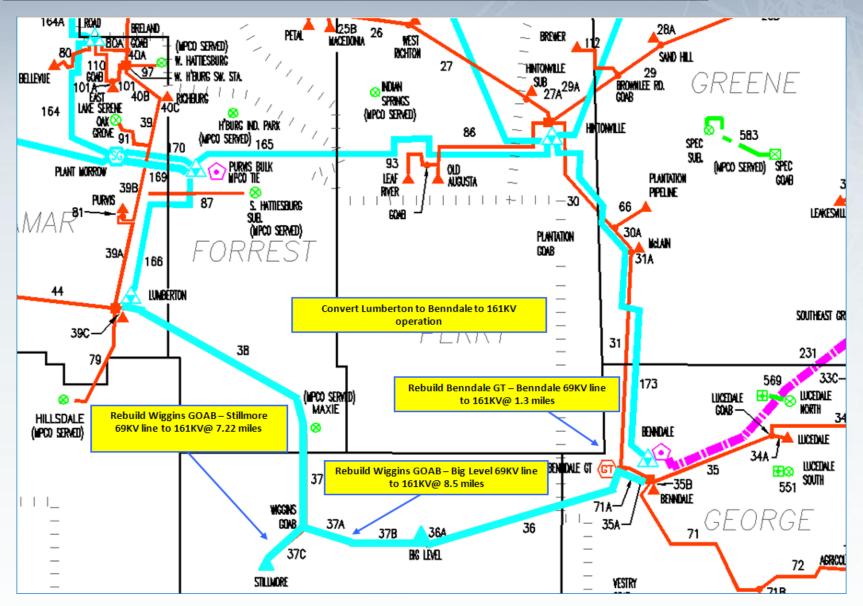


Lumberton – Benndale 161 KV Conversion

- Rebuild the Wiggins Stillmore, Wiggins Big Level and Benndale – Benndale GT line sections to 161 KV specifications
- Convert the Stillmore and Big Level distribution substations to 161 KV
- Convert the Lumberton Big Level loop to 161 KV operation
- This project alleviates 69 KV low voltages and line overloads in the Lumberton and Benndale areas during certain contingencies



Plant Morrow – Purvis Bulk 161 KV Line







Georgia Transmission











Dalton









Brewton/Atmore Area

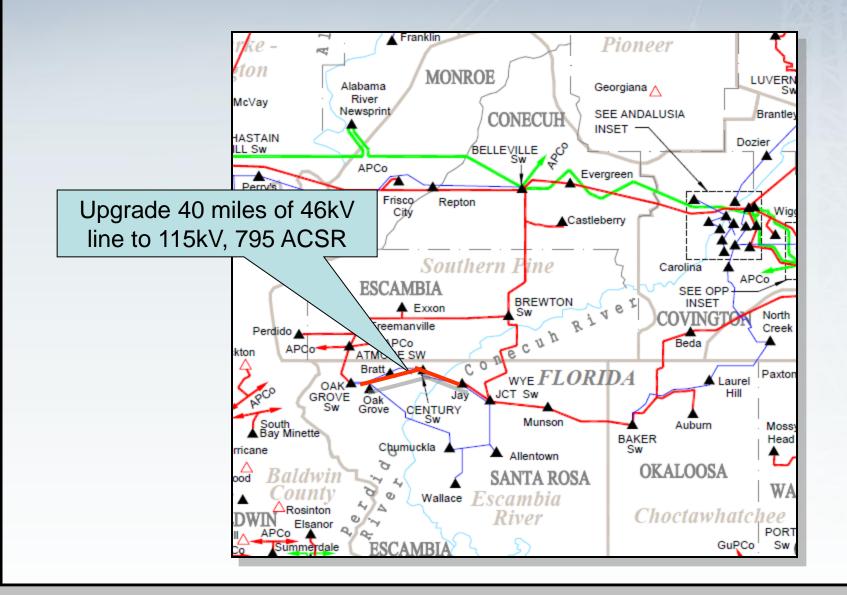
Expansion Item PS-1

- Upgrade 40 miles of 46kV transmission line to 115kV 795 ACSR.
- This area experiences line overloads under single contingencies and unacceptable low voltage under a double contingency scenario.
- Alleviate voltage and overload problems by providing a parallel 115kV path that eliminates the overload and assures that the voltage is supported for the loss of two sources.





Brewton / Atmore Area



Expansion Item PS-2

2015











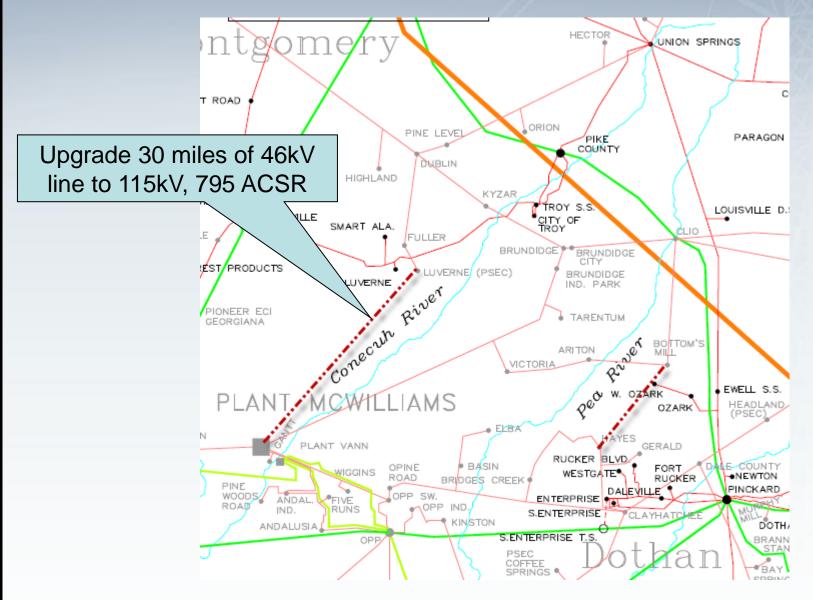
McWilliams-Fuller 115kV Conversion

- Upgrade 30 miles of 46kV transmission line to 115kV 795 ACSR.
- Alleviate voltage and overload problems by providing a parallel north-south 115kV path that eliminates the overload and assures that the voltage is supported for the loss of two sources.





McWilliams-Fuller















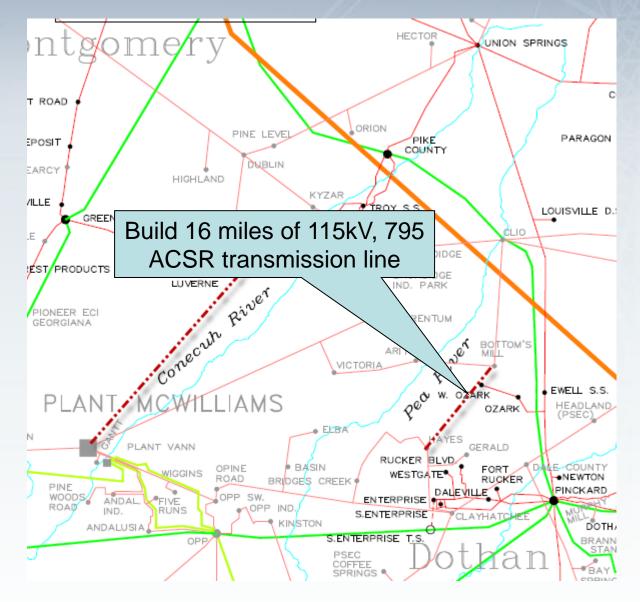
Hayes-Bottoms Mill 115kV TL

Expansion Item PS-3

- Build new 16 mile 115kV 795 ACSR transmission line.
- Alleviate voltage and overload problems by providing a parallel north-south 115kV path that eliminates the overload and assures that the voltage is supported for the loss of two sources.



Hayes-Bottoms Mill



Expansion Item PS-4

Gaskin-Southport 115kV TL

- Build new 12 mile 115kV 795 ACSR transmission line.
- Provide looped service to 3 member substations to improve reliability in the area. Also to help support voltage for certain N-2 contingencies.



2016





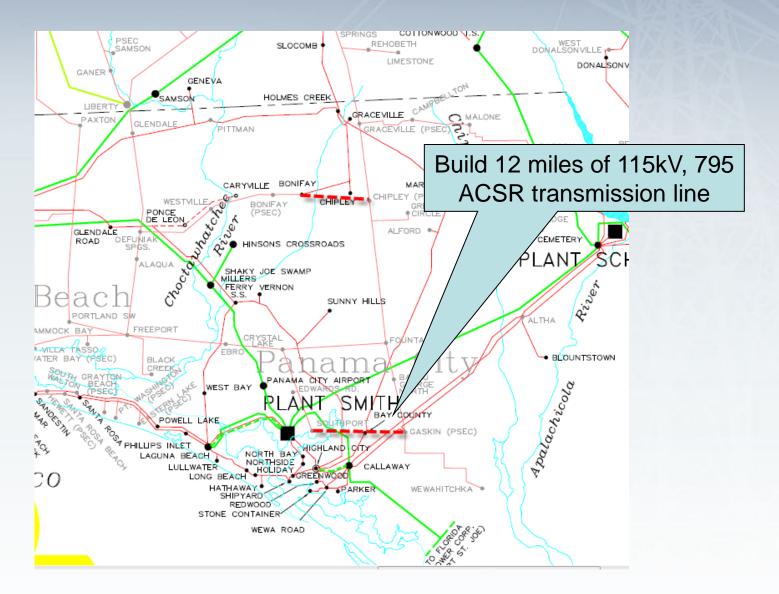








Gaskin-Southport



Expansion Item PS-5

Liberty-Graceville 115kV TL

- Build new 27 mile 115kV 795 ACSR transmission line.
- Provide an additional source line to the area to help support voltage for certain N-2 contingencies.









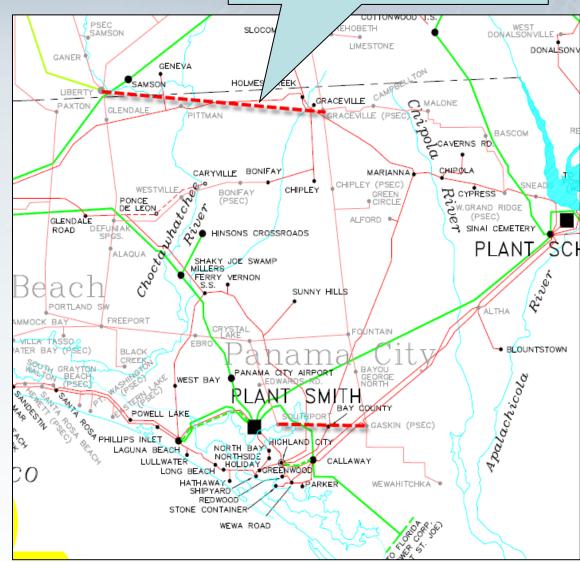






Liberty-Graceville

Build 27 miles of 115kV, 795 ACSR transmission line



Questions?