

SERTP – 2016 2nd Quarter Meeting

Preliminary Expansion Plan Meeting

June 21st, 2016

Georgia Power Company Headquarters

Atlanta, GA

Process Information

- **The SERTP process is a transmission planning process.**
- **Please contact the respective transmission provider for questions related to real-time operations or OATT transmission service.**

Purposes & Goals of Meeting

- **Modeling Assumptions Update**
 - Load Forecast
 - Generation Assumptions
- **Preliminary 10 Year Transmission Expansion Plans**
- **Miscellaneous Updates**
- **Next Meeting Activities**

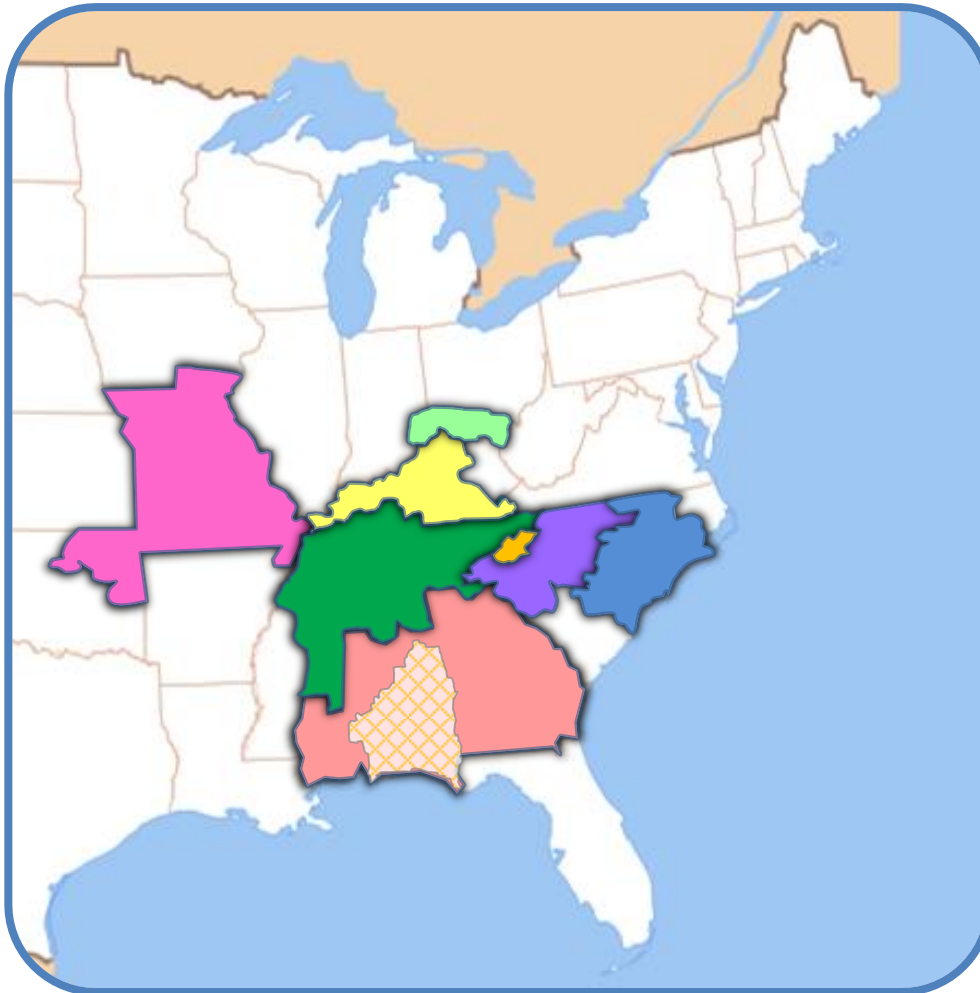
SERTP

Regional Modeling Assumptions









SERTP

Preliminary Transmission Expansion Plans

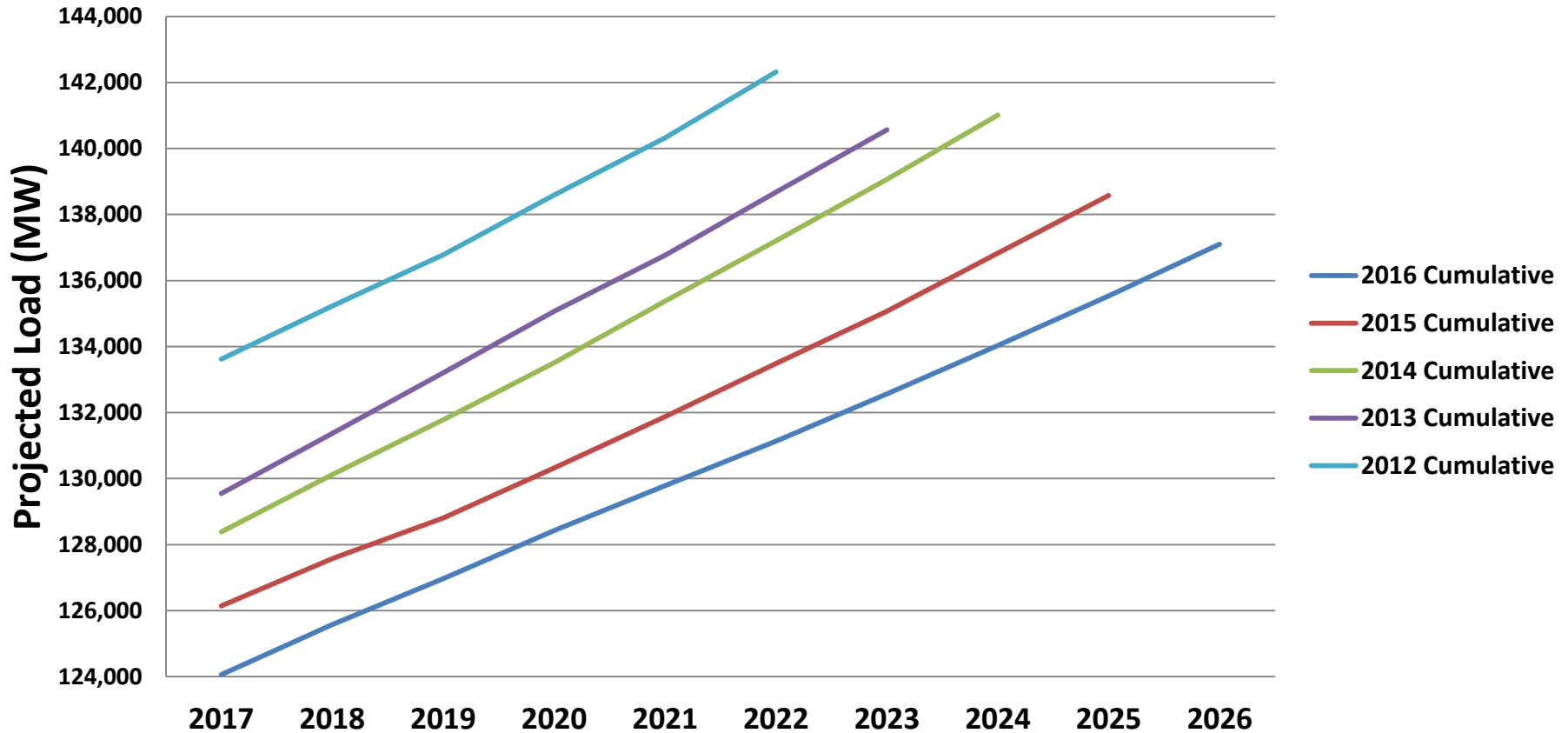
SERTP Regional Modeling Assumptions



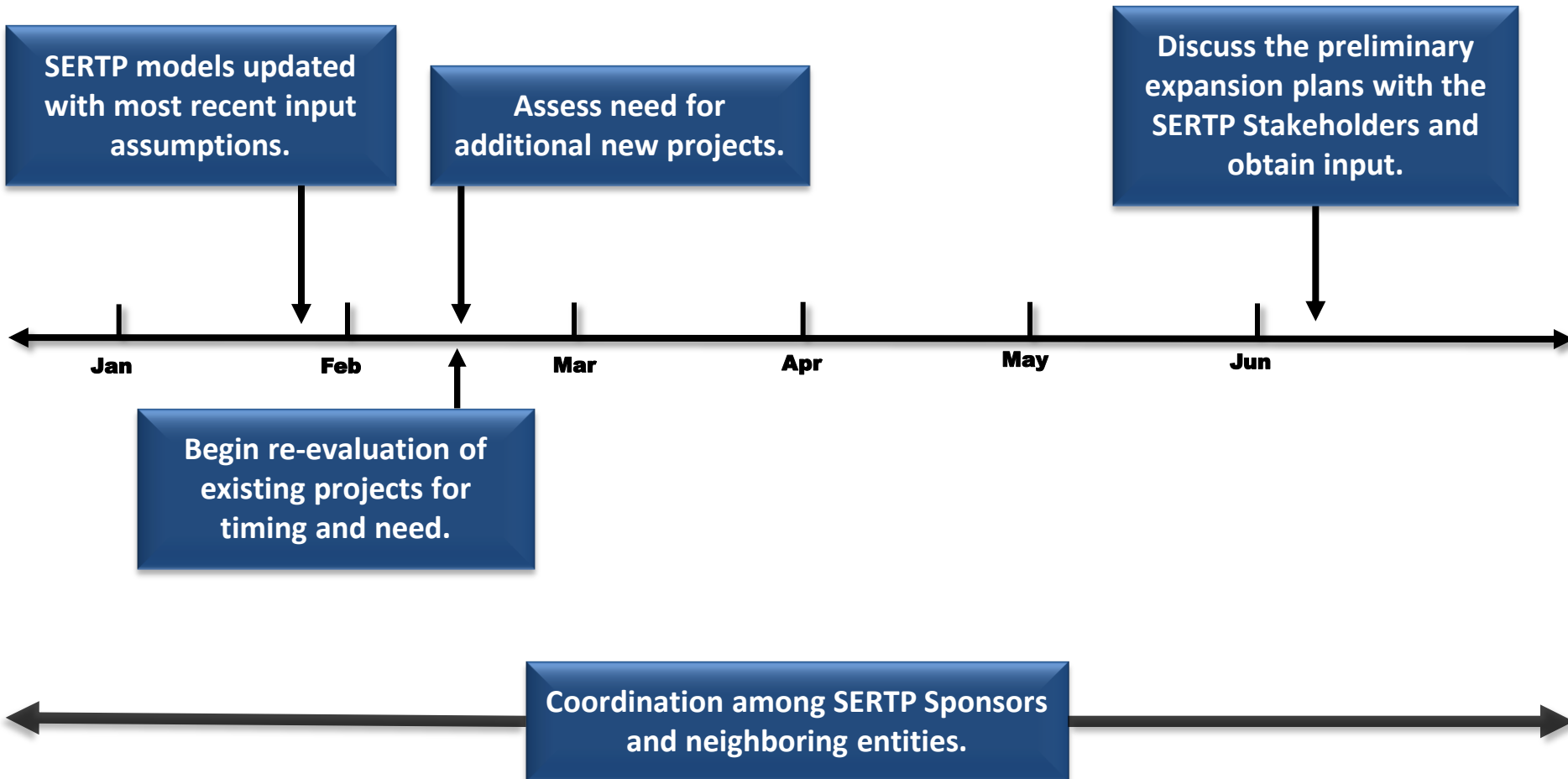
Balancing Authority Areas

-  AECI
-  DUKE – Carolinas
-  DUKE – Progress East
-  DUKE – Progress West
-  LG&E/KU
-  OVEC
-  PowerSouth
-  Southern
-  TVA

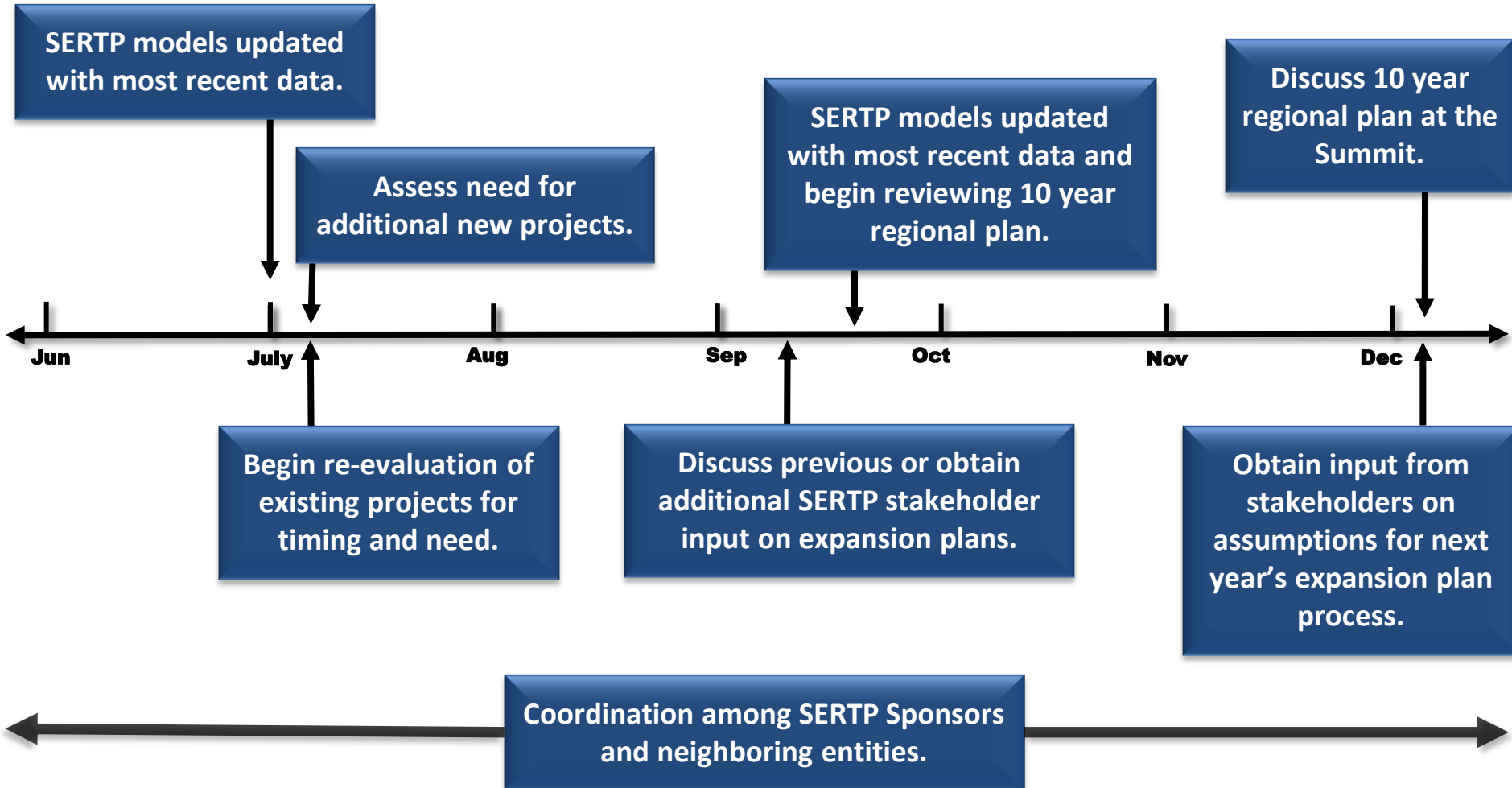
SERTP Cumulative Summer Peak Load Forecast



Approximate 10 Year Transmission Expansion Plan Timeline



Approximate 10 Year Transmission Expansion Plan Timeline



Preliminary Transmission Expansion Plans

The projects described in this presentation represent the preliminary ten (10) year transmission expansion plans. The transmission expansion plans are periodically reviewed and may be revised due to changes in assumptions. This presentation does not represent a commitment to build for projects listed in the future.

AECI Balancing Authority Generation Assumptions

- * AECI has no generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process.

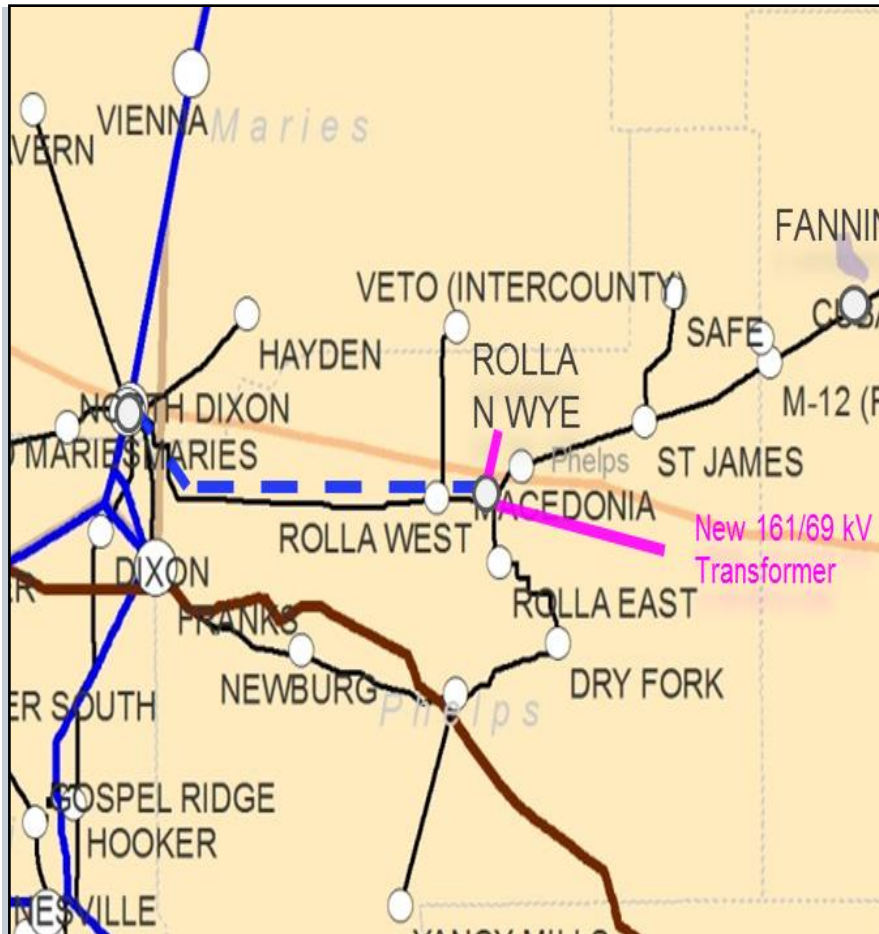
AECI Balancing Authority

Preliminary Transmission Expansion Plan

AECI – 1

2018

MARIES – ROLLA NORTH WYE 161 KV T.L. & ROLLA NORTH WYE 161 KV SUBSTATION

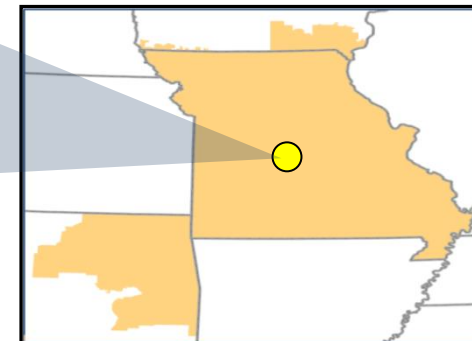


DESCRIPTION:

Construct approximately 21 miles of 161 kV transmission line from Maries to Rolla North Wye with 795 ACSR at 100°C and install a 56 MVA 161/69 kV transformer at Rolla North Wye.

SUPPORTING STATEMENT:

The Maries – Rolla North Wye transmission line overloads under contingency and voltage support is needed in the Maries and Rolla North Wye area under contingency.



AECI – 2

2025

WHEATON – CASSVILLE 161 KV T.L. & STELLA 345/161 KV SUBSTATION

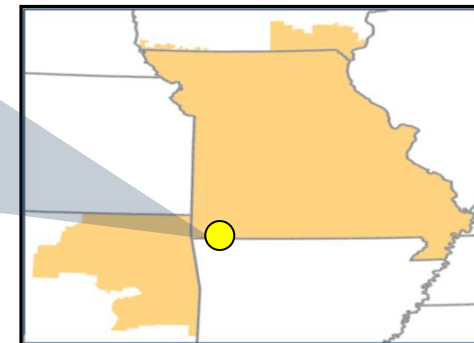


DESCRIPTION:

Construct a 345/161 kV Substation on the Brookline – Flintcreek 345 kV transmission line. Construct approximately 15 miles of 795 ACSR 161 kV transmission line at 100°C from Wheaton – Cassville, and install a 161/69 kV transformer at Cassville.

SUPPORTING STATEMENT:

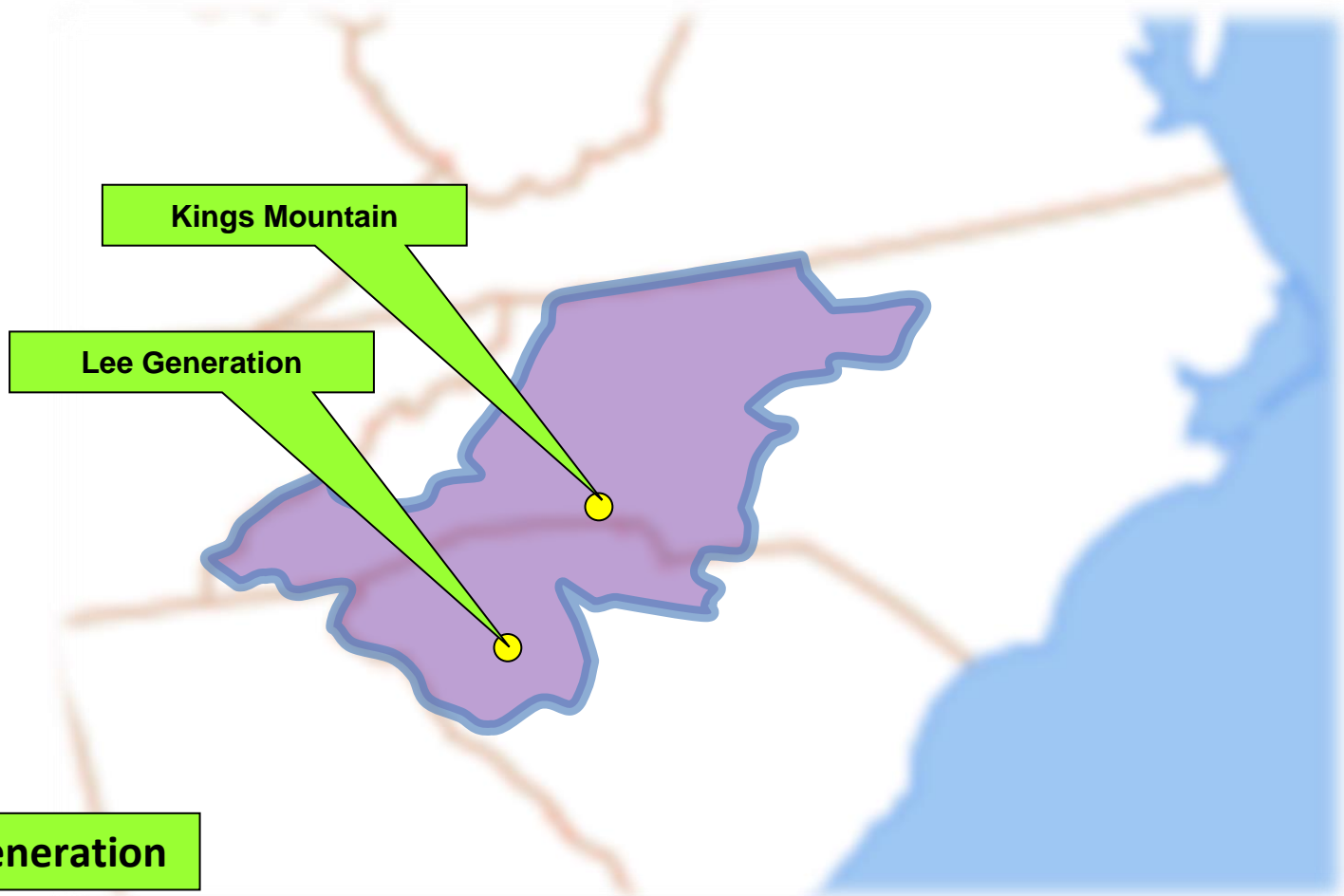
The Neosho and Washburn 161/69 kV transformers overload under contingency.



DUKE CAROLINAS Balancing Authority Generation Assumptions

DUKE CAROLINAS – Generation Assumptions

The following diagram depicts the location of generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process.



DUKE CAROLINAS – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
LEE CC	--	776	776	776	776	776	776	776	776	776
KINGS MOUNTAIN ENERGY	--	452	452	452	452	452	452	452	452	452

DUKE CAROLINAS – Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected long-term firm point-to-point commitments. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
ROWAN	150	150	150	150	150	150	150	150	150	150
BROAD RIVER	850	850	850	850	850	850	850	850	850	850

DUKE CAROLINAS Balancing Authority Preliminary Transmission Expansion Plan

DUKE CAROLINAS – 1

2017

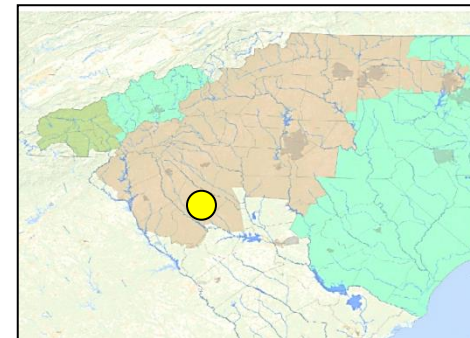
GREENBRIAR AREA IMPROVEMENTS

DESCRIPTION:

- Upgrade the Shady Grove – Moonville Retail 100 kV transmission line with 477 ACSR at 120°C. Add 100 kV terminals at Greenbriar Retail making it a 100 kV switching station. Reedy River Tie will also become a breaker swap over station as part of the Greenbriar project.

SUPPORTING STATEMENT:

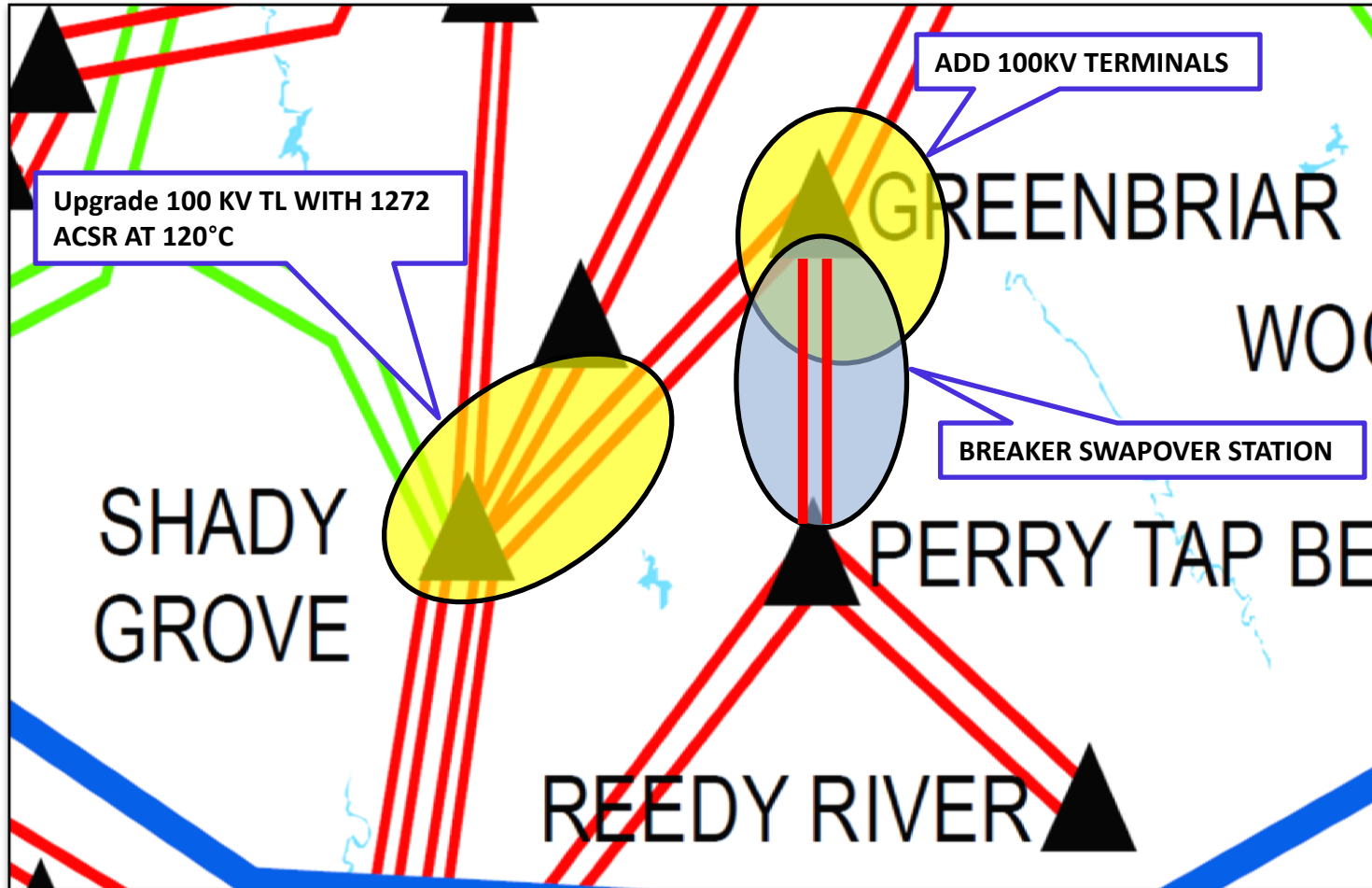
- Project required to support new Lee CC project and contingency overloading of 100 kV lines in Lee area.



DUKE CAROLINAS – 1

2017

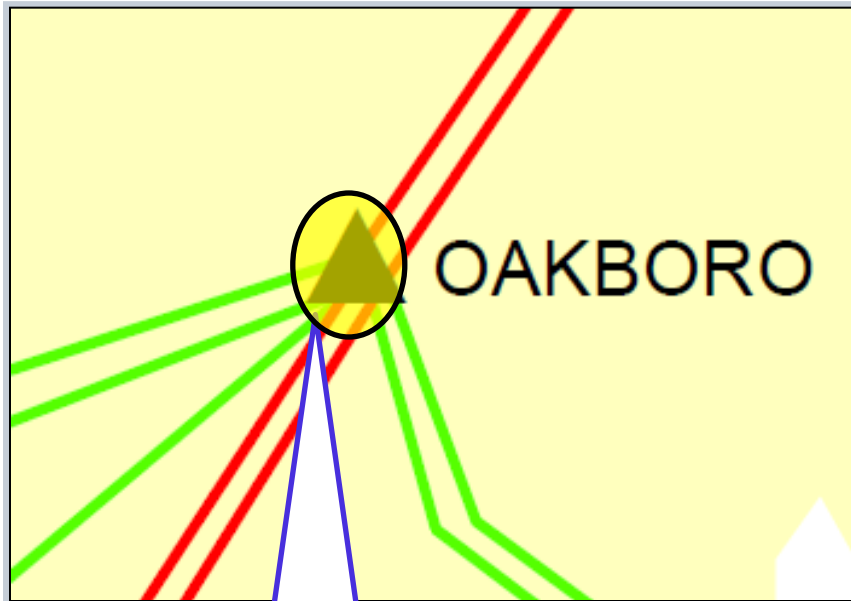
GREENBRIAR AREA IMPROVEMENTS



DUKE CAROLINAS – 2

2017

OAKBORO 230/100 KV TIE



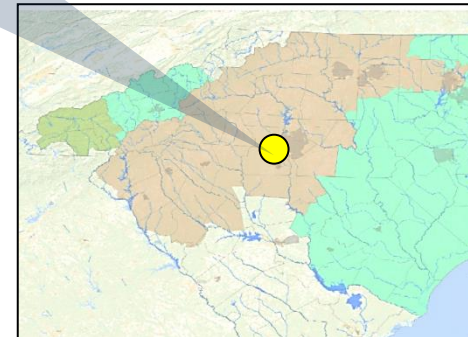
ADD A FOURTH 448 MVA
230/100 KV TRANSFORMER AT
OAKBORO TIE

DESCRIPTION:

Add a fourth 200 MVA 230/100 kV transformer at Oakboro Tie.

SUPPORTING STATEMENT:

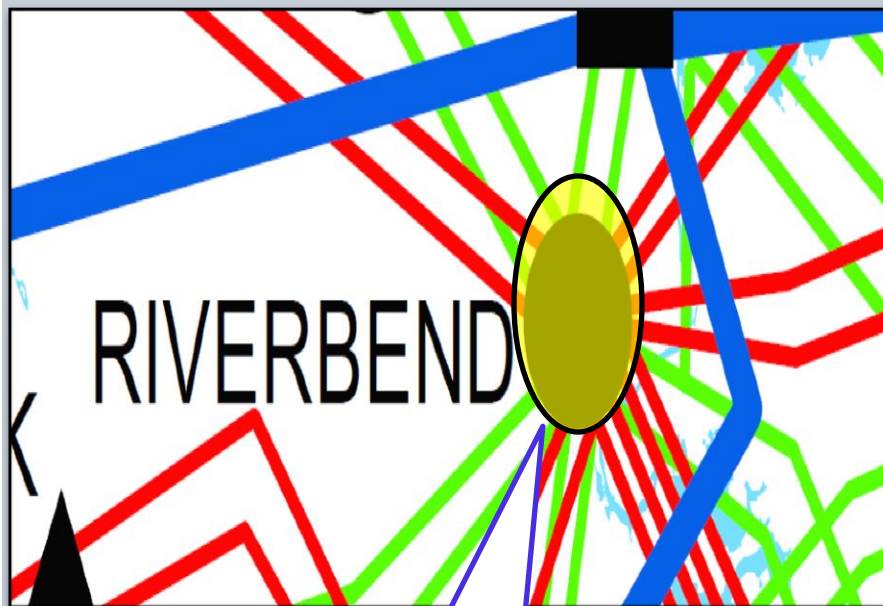
The Oakboro 230/100 kV transformer overloads under contingency.



DUKE CAROLINAS – 3

2017

RIVERBEND STEAM STATION



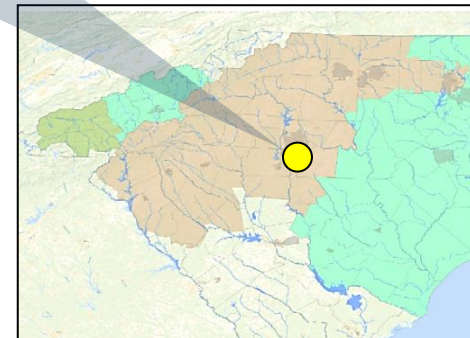
ADD TWO 230/100 KV 400
MVA TRANSFORMERS

DESCRIPTION:

Add two 230/100 kV 400 MVA transformers at Riverbend Steam Station.

SUPPORTING STATEMENT:

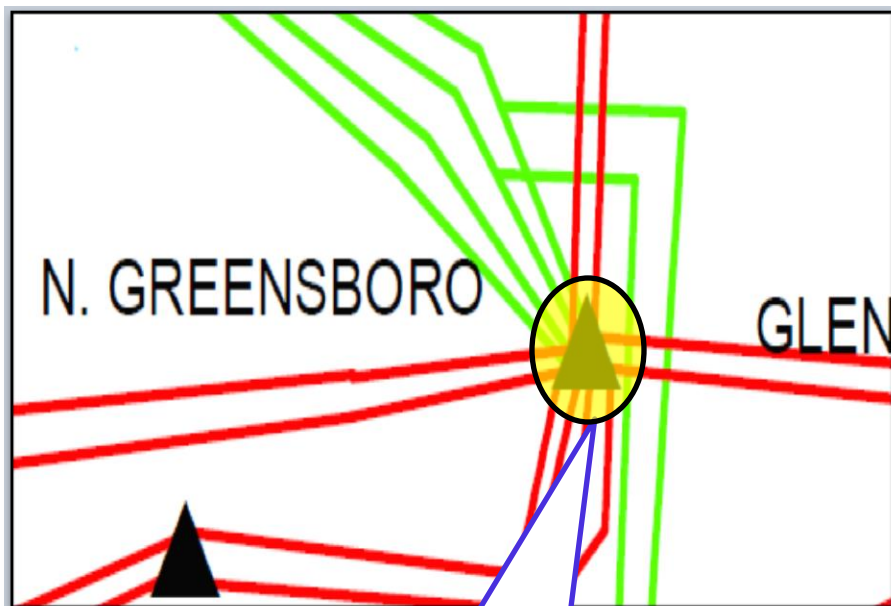
Retirement of Riverbend Steam Station generation causes multiple transmission lines to overload under contingency and causes the need for additional voltage support in the Riverbend area.



DUKE CAROLINAS – 4

2018

NORTH GREENSBORO SUBSTATION



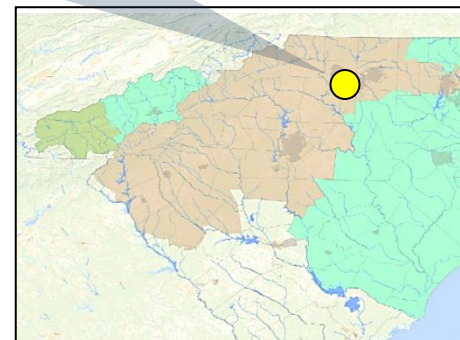
ADD A FOURTH 448 MVA 230/100 KV TRANSFORMER AT NORTH GREENSBORO SUBSTATION

DESCRIPTION:

Add a fourth 448 MVA 230/100 kV transformer at North Greensboro substation.

SUPPORTING STATEMENT:

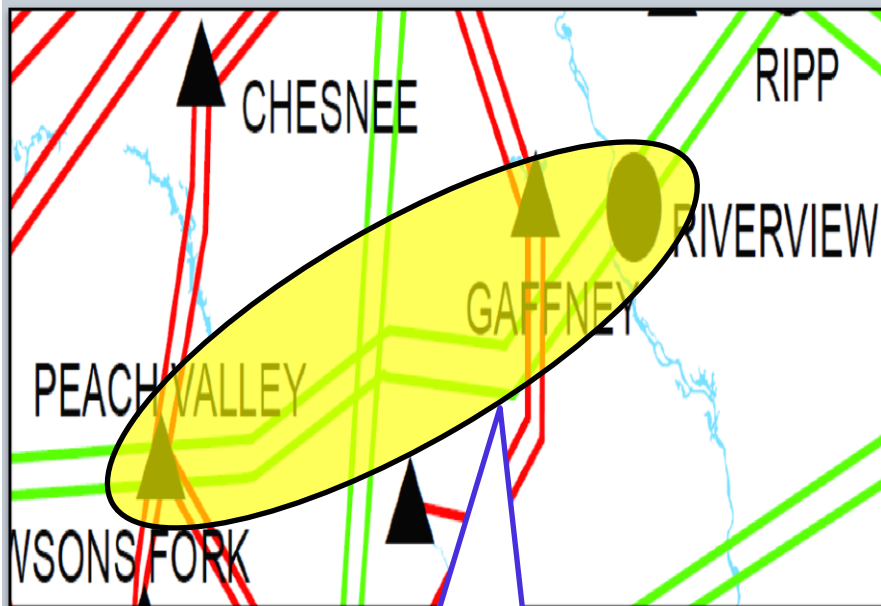
North Greensboro 230/100 kV transformer overloads under contingency.



DUKE CAROLINAS – 5

2018

PEACH VALLEY – RIVERVIEW 230 KV T.L.



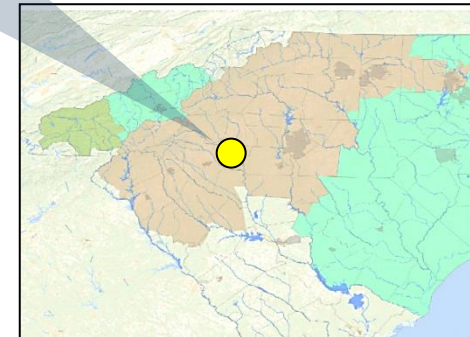
INSTALL A 3% SERIES REACTOR

DESCRIPTION:

Install a 3% series reactor on the Peach Valley – Riverview 230 kV transmission line.

SUPPORTING STATEMENT:

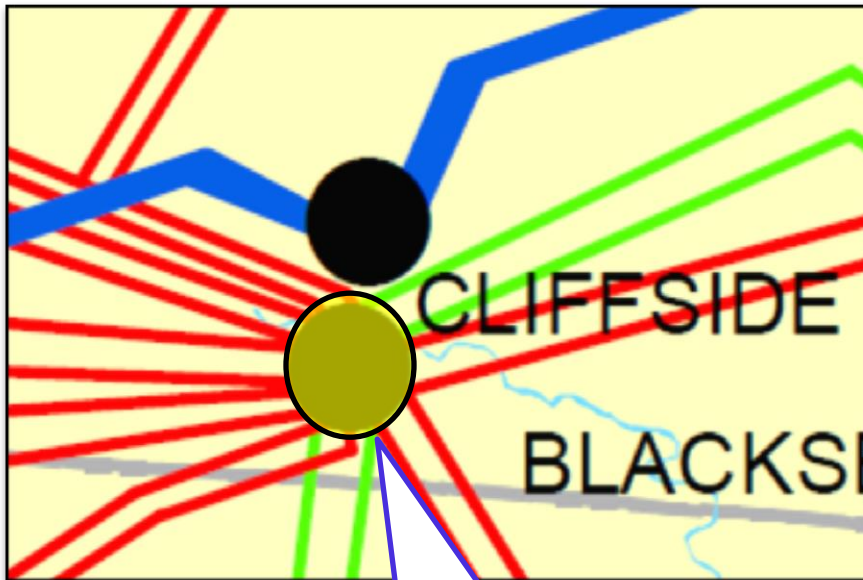
The Peach Valley – Riverview 230 kV transmission line overloads under contingency.



DUKE CAROLINAS – 6

2020

CLIFFSIDE STEAM STATION



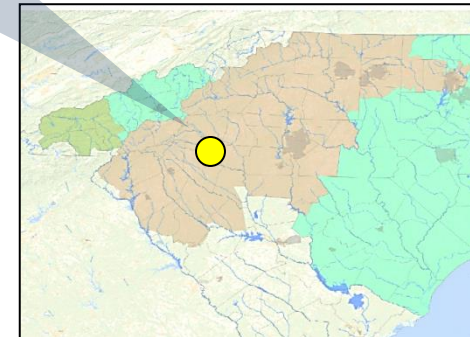
ADD A THIRD 448 MVA 230/100 KV
TRANSFORMER AT CLIFFSIDE STEAM
STATION

DESCRIPTION:

Add a third 448 MVA 230/100 kV transformer at Cliffside Steam Station.

SUPPORTING STATEMENT:

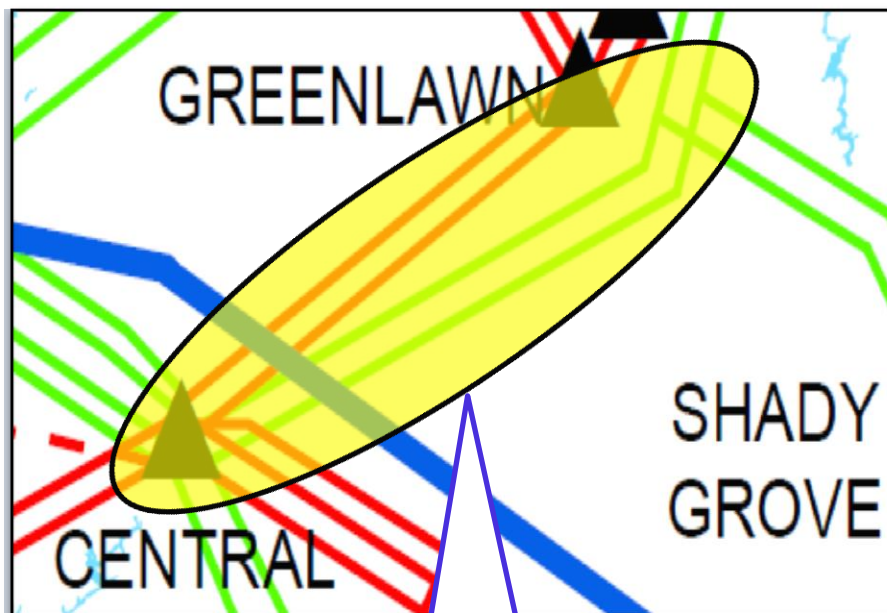
Cliffside Steam Station 230/100 kV transformers overload under contingency.



DUKE CAROLINAS – 7

2022

CENTRAL – SHADY GROVE 230 KV T.L.



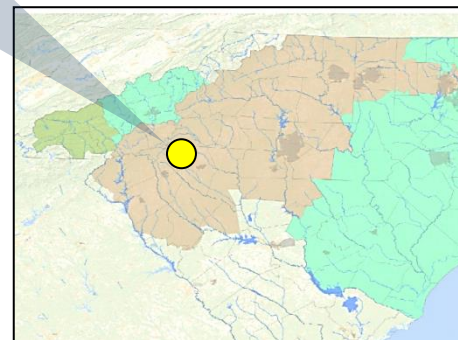
RECONDUCTOR 18 MILES OF
THE CENTRAL – SHADY GROVE
230 KV TL WITH BUNDLED 954
ACSR AT 120°C

DESCRIPTION:

Reconductor approximately 18 miles of the Central – Shady Grove 230 kV transmission line with bundled 954 ACSR at 120°C.

SUPPORTING STATEMENT:

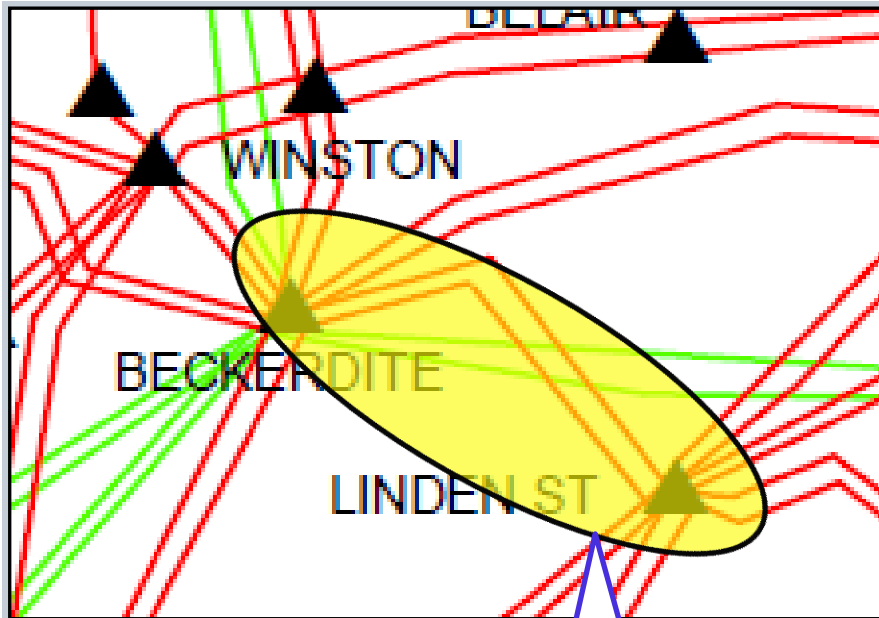
The Central – Shady Grove 230 kV transmission line overloads under contingency.



DUKE CAROLINAS – 8

2023

BECKERDITE – LINDEN STREET 100 KV T.L.



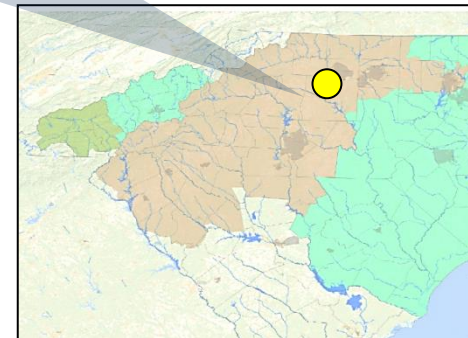
DESCRIPTION:

Reconductor approximately 16 miles of the double circuit Beckerdite – Linden St 100 kV transmission line with bundled 477 ACSR.

SUPPORTING STATEMENT:

The Beckerdite – Linden Street 100 kV transmission line overloads under contingency.

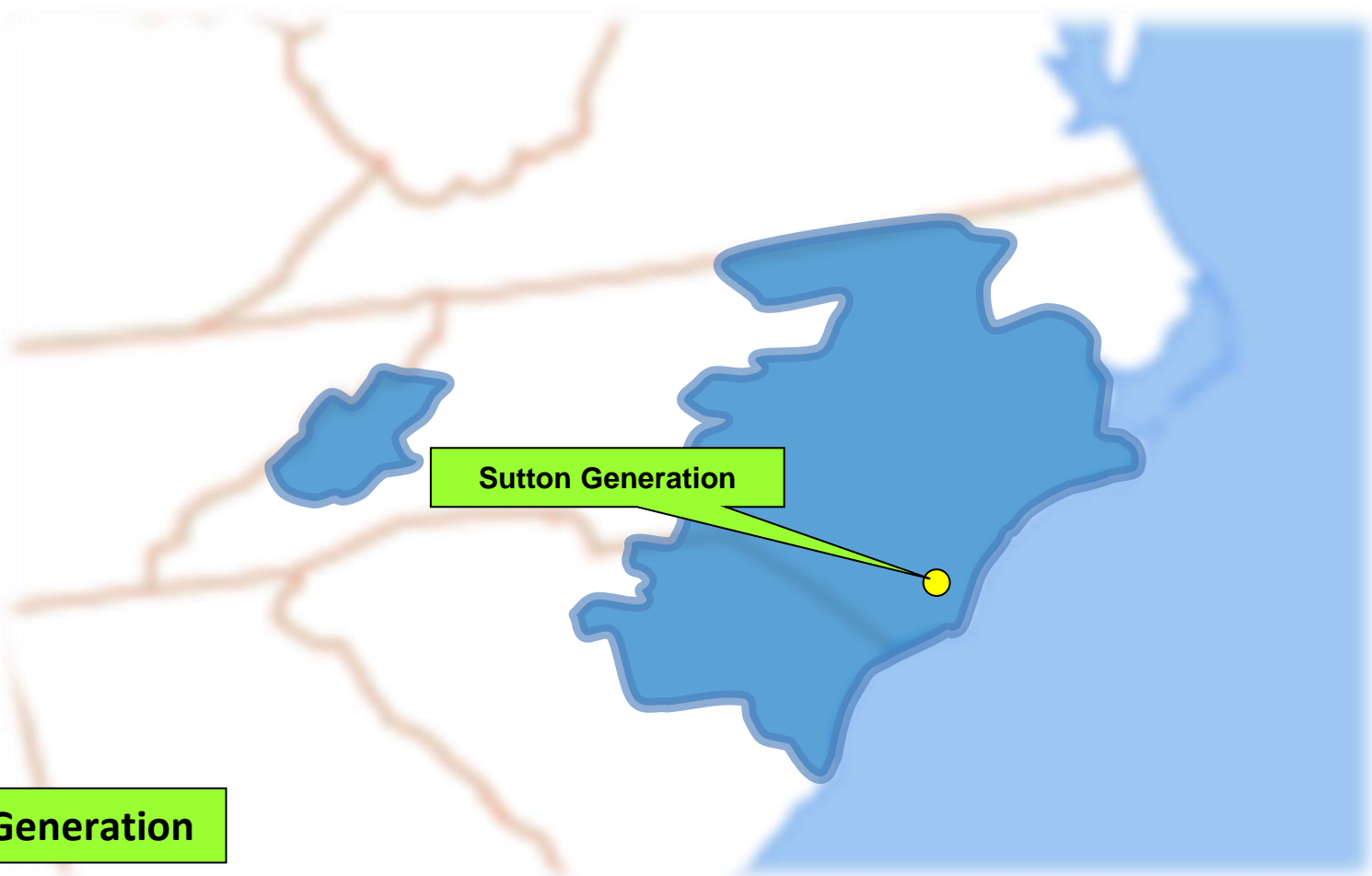
RECONDUCTOR 16 MILES OF
THE BECKERDITE – LINDEN
STREET 100 KV TL WITH
BUNDLED 477 ACSR



DUKE PROGRESS EAST/WEST Balancing Authorities Generation Assumptions

DUKE PROGRESS – Generation Assumptions

The following diagram depicts the location of generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process.



DUKE PROGRESS – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
SUTTON IC#1	0	0	0	0	0	0	0	0	0	0
SUTTON IC#2A	0	0	0	0	0	0	0	0	0	0
SUTTON IC#2B	0	0	0	0	0	0	0	0	0	0
SUTTON CC#1	42	42	42	42	42	42	42	42	42	42
SUTTON CC#2	42	42	42	42	42	42	42	42	42	42

DUKE PROGRESS – Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected long-term firm point-to-point commitments. The years shown represent Summer Peak conditions.

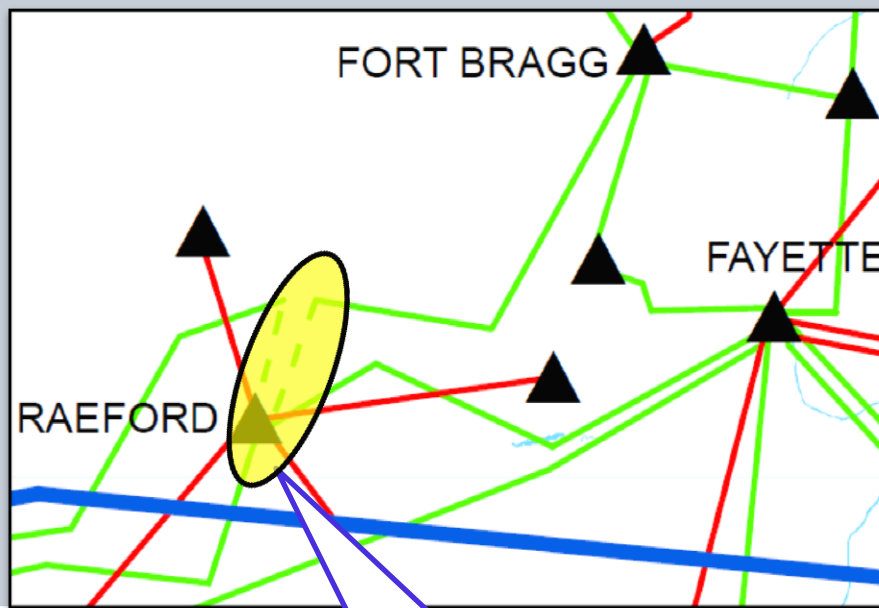
SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
HAMLET #1	55	55	55	55	55	55	55	55	55	55
HAMLET #2	55	55	55	55	55	55	55	55	55	55
HAMLET #3	55	55	55	55	55	55	55	55	55	55

DUKE PROGRESS EAST Balancing Authority Preliminary Transmission Expansion Plan

DUKE PROGRESS EAST – 1

2018

RAEFORD 230 KV SUBSTATION



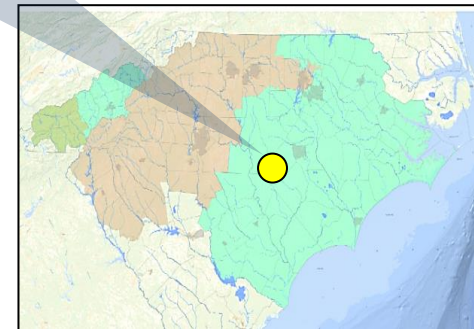
LOOP IN 230 KV T.L. AND ADD 300 MVA TRANSFORMER

DESCRIPTION:

Loop in the Richmond – Ft. Bragg Woodruff St. 230 kV transmission line at Raeford 230/115 kV substation and add a 300 MVA transformer.

SUPPORTING STATEMENT:

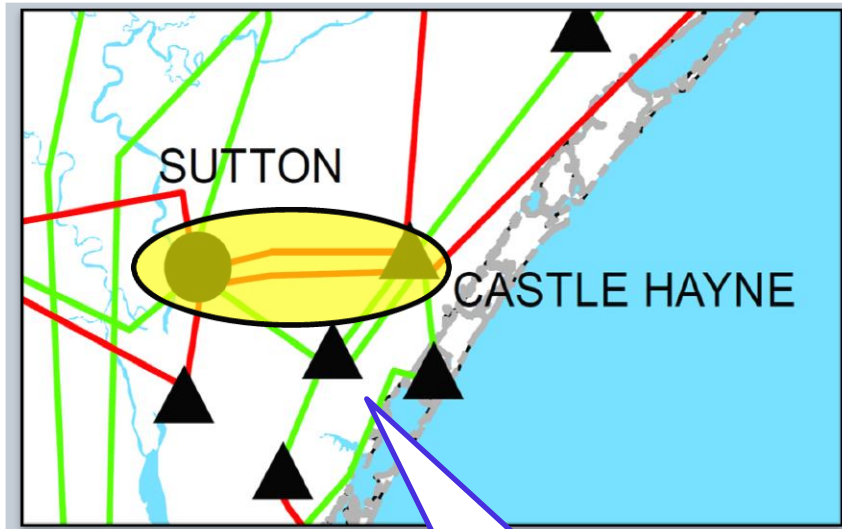
The Weatherspoon – Raeford 115 kV transmission line overloads under contingency.



DUKE PROGRESS EAST – 2

2018

SUTTON PLANT – CASTLE HAYNE 115 KV NORTH T.L.



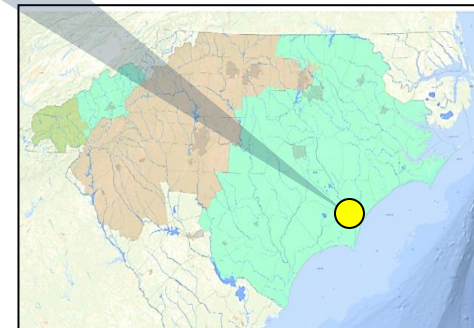
REBUILD THE SUTTON PLANT-
CASTLE HAYNE 115KV NORTH T.L.

DESCRIPTION:

Rebuild approximately 8 miles of the Sutton Plant – Castle Hayne 115 kV North transmission line using 1272 ACSR rated for 239 MVA.

SUPPORTING STATEMENT:

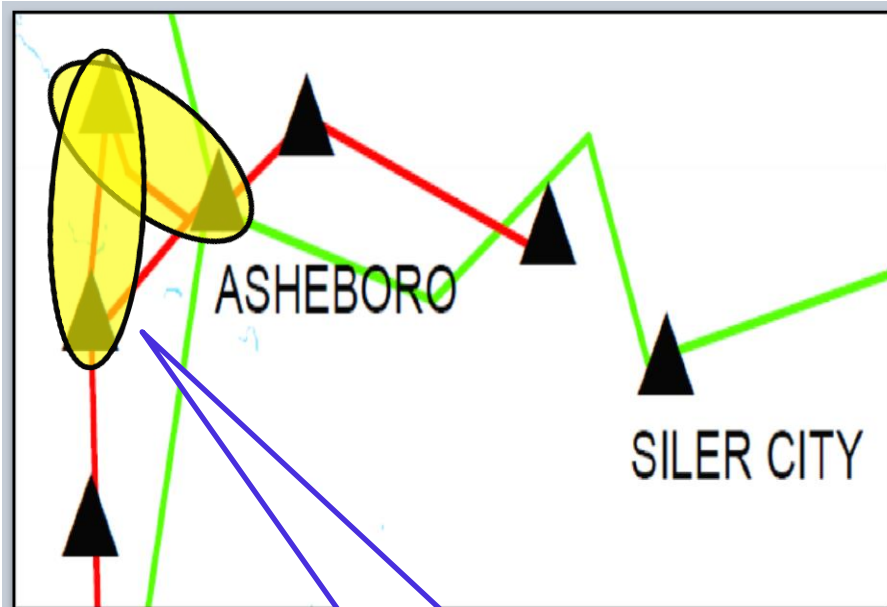
The Sutton Plant – Castle Hayne 115 kV North transmission line overloads under contingency.



DUKE PROGRESS EAST – 3

2019

ASHEBORO – ASHEBORO EAST (NORTH) 115 KV T.L.

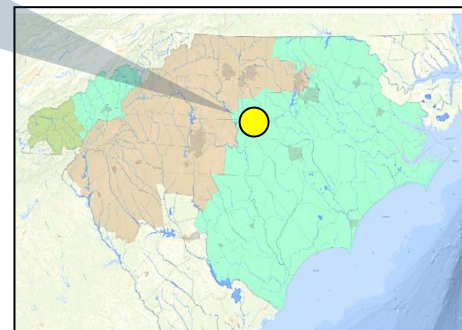


DESCRIPTION:

Rebuild approximately 6.5 miles of the Asheboro – Asheboro East (North) 115 kV transmission line using 3-1590 ACSR rated for 307 MVA. Replace disconnect switches at Asheboro 230 kV and both the breaker and the disconnect switches at Asheboro East 115 kV with equipment of at least 2000 A capability.

SUPPORTING STATEMENT:

The Asheboro – Asheboro East (North) 115 kV transmission line overloads under contingency.

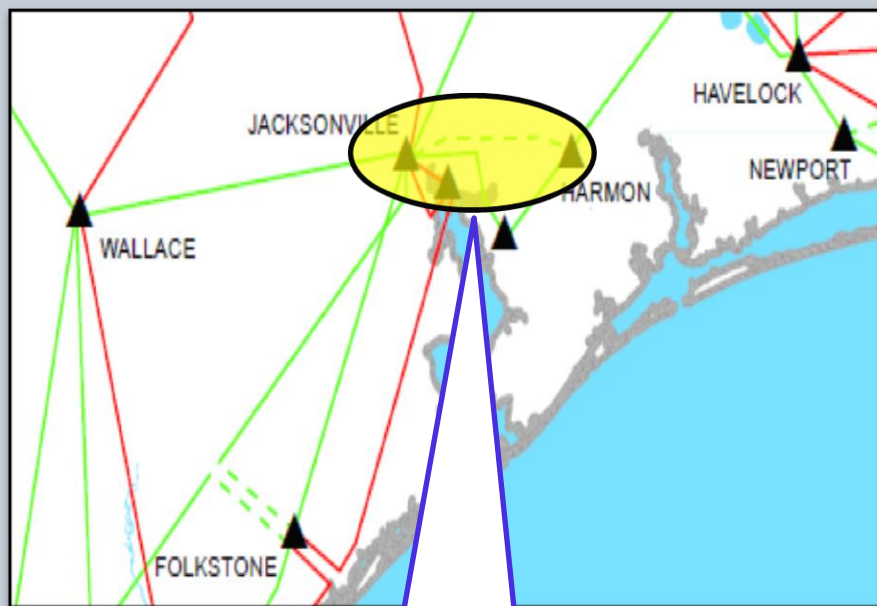


REBUILD 6.5 MILES OF 115 KV TL
WITH 3-1590. REPLACE SWITCHES
WITH AT LEAST 2000 A CAPABILITY

DUKE PROGRESS EAST – 4

2020

GRANT'S CREEK – JACKSONVILLE 230 KV T.L.



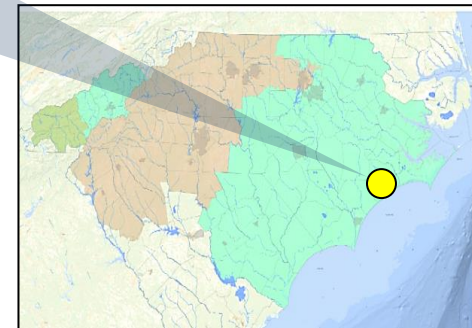
NEW 230 KV TL WITH 6-1590 ACSR
OR EQUIVALENT CONDUCTOR. NEW
230 KV SUBSTATION WITH A 200
MVA OR 300 MVA 230/115 KV
TRANSFORMER

DESCRIPTION:

Construct approximately 12 miles of new 230 kV transmission line from Jacksonville 230 kV substation to a new 230 kV substation at Grant's Creek with bundled 6-1590 ACSR rated for 1195 MVA. Build the new 230 kV Grant's Creek substation with four 230 kV breakers and a new 300 MVA 230/115 kV transformer.

SUPPORTING STATEMENT:

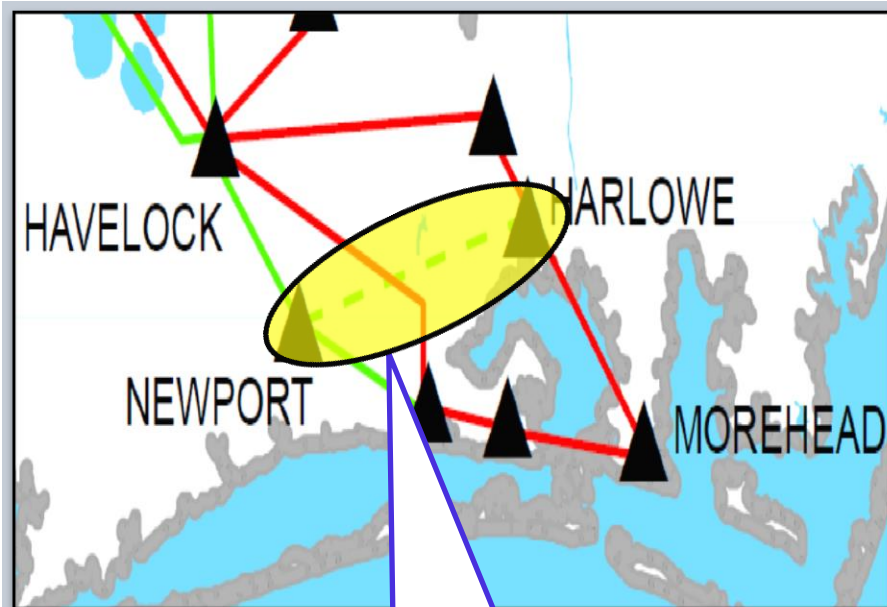
The Havelock – Jacksonville 230 kV transmission line overloads under contingency and voltage support is needed in the Jacksonville area.



DUKE PROGRESS EAST – 5

2020

HARLOWE – NEWPORT 230 KV T.L.



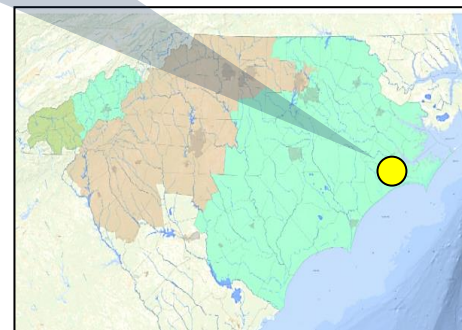
NEW 230 KV SWITCHING STATION.
NEW 230 KV SUBSTATION. NEW 230
KV T.L. WITH 3-1590 ACSR

DESCRIPTION:

Construct a new 230 kV switching station at Newport, construct a new 230 kV substation in the Harlowe Area, and construct approximately 10 miles of new 230 kV transmission line from the Harlowe Area – Newport Area with 3-1590 ACSR rated for 680 MVA.

SUPPORTING STATEMENT:

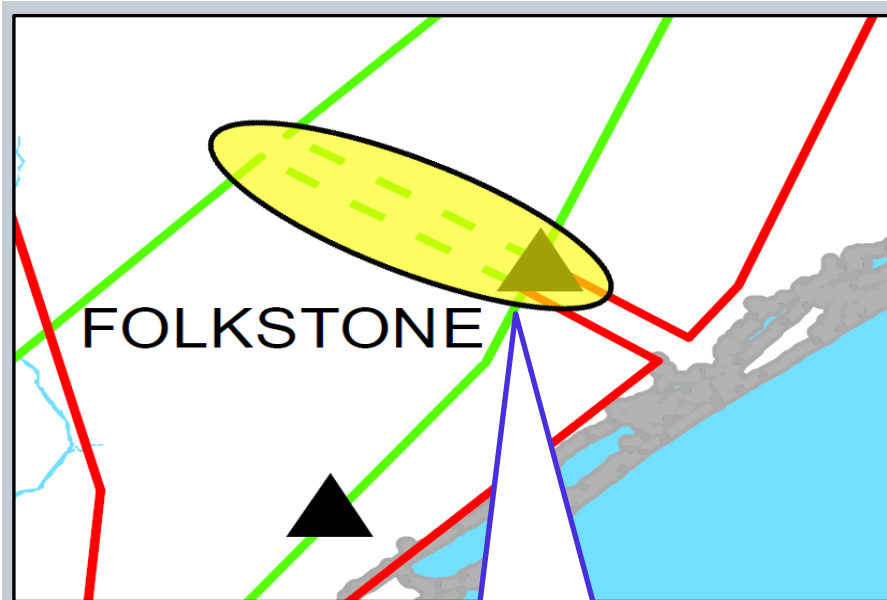
Voltage support is needed in Havelock – Morehead area.



DUKE PROGRESS EAST – 6

2024

BRUNSWICK #1 – JACKSONVILLE 230 KV T.L.



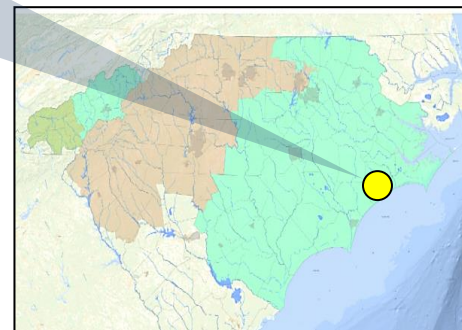
LOOP IN 5 miles of 230 KV TL WITH
3-1590 ACSR.

DESCRIPTION:

Loop the existing Brunswick Plant Unit 1 – Jacksonville 230 kV Line into the Folkstone 230 kV Substation. Also convert the Folkstone 230 kV bus configuration to breaker-and-one-half by installing three (3) new 230 kV breakers.

SUPPORTING STATEMENT:

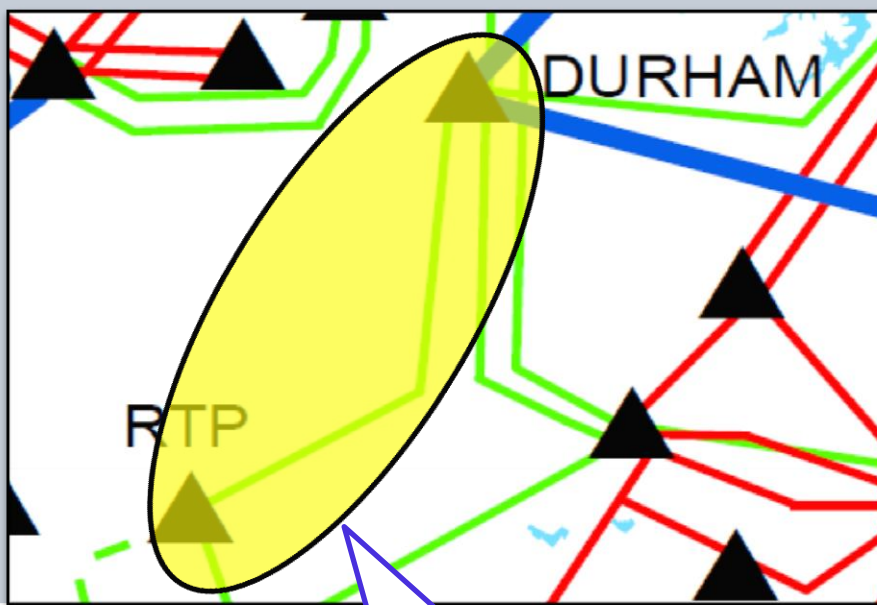
The Castle Hayne – Folkstone 115 kV transmission line overloads under contingency.



DUKE PROGRESS EAST – 7

2024

DURHAM – RTP 230 KV T.L.



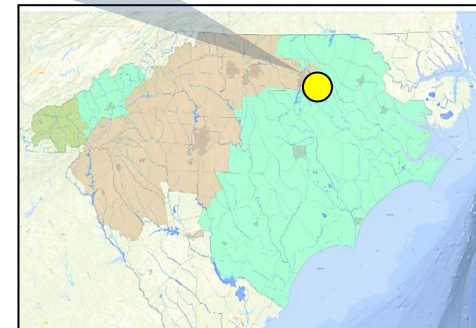
RECONDUCTOR 10 MILES OF 230 KV
T.L. WITH 6-1590 ACSR

DESCRIPTION:

Reconductor approximately 10 miles of the Durham – RTP 230 kV transmission line with bundled 6-1590 ACSR rated for 1195 MVA.

SUPPORTING STATEMENT:

The Durham – RTP 230 kV transmission line overloads under contingency.



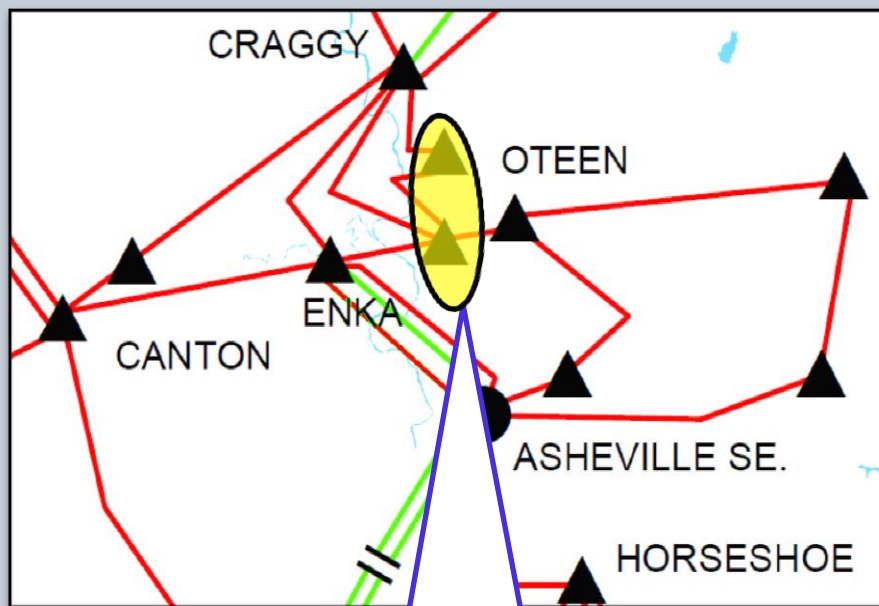
DUKE PROGRESS WEST Balancing Authority

Preliminary Transmission Expansion Plan

DUKE PROGRESS WEST – 1

2018

VANDERBILT – WEST ASHEVILLE 115 KV T.L.



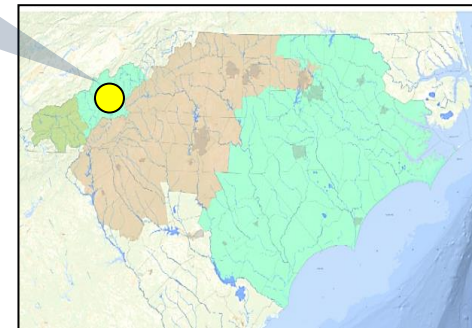
RECONDUCTOR 2.7 MILES OF 115 KV
TL WITH 3-795 OR EQUIVALENT.
REPLACE 115 KV BREAKERS AND
SWITCHES

DESCRIPTION:

Reconductor approximately 2.7 miles of the Vanderbilt – West Asheville 115 kV transmission line with 3-795 ACSR rated for 300 MVA. Replace one 115 kV breaker, two 115 kV disconnect switches, and one 115 kV switch at Vanderbilt.

SUPPORTING STATEMENT:

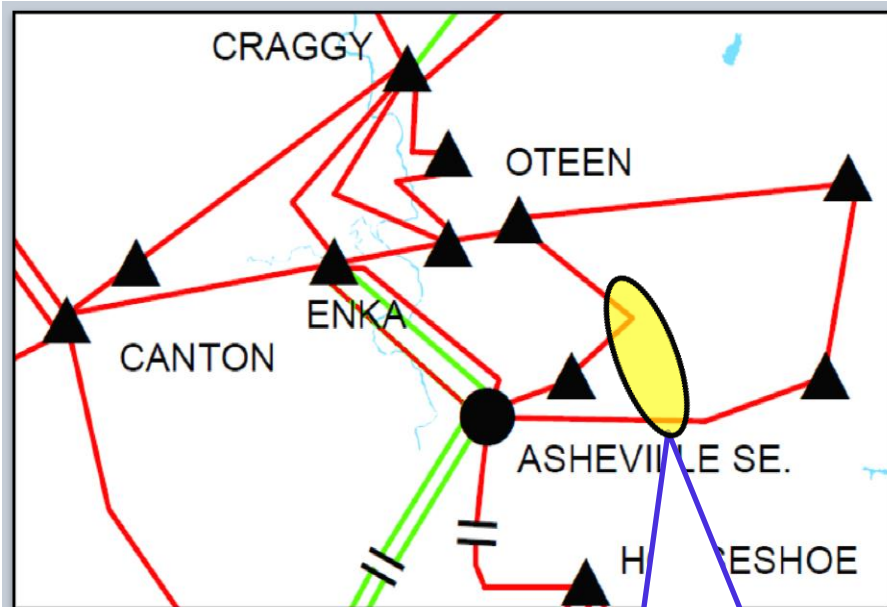
The Vanderbilt – West Asheville 115 kV transmission line overloads under contingency.



DUKE PROGRESS WEST – 2

2022

ASHEVILLE PLANT – OTEEN WEST 115 KV T.L., BALDWIN TAP



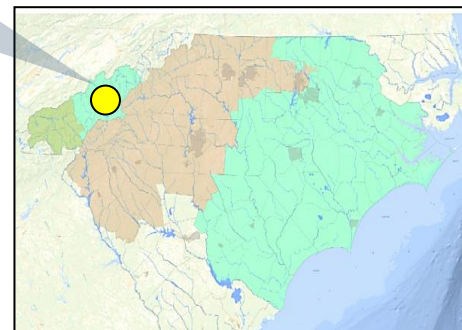
CONSTRUCT 2.2 MILES OF 115 KV
TRANSMISSION LINE WITH 795 ACSR.
RECONNECT THE BALDWIN 115 KV
SUBSTATION.

DESCRIPTION:

Construct approximately 2.2 miles of new 115 kV transmission line from the Asheville Plant – Oteen West 115 kV transmission line to the Asheville Plant – Oteen East 115 kV transmission line with 795 ACSR. The Baldwin 115 kV substation will be reconnected to this new tap line.

SUPPORTING STATEMENT:

Voltage support is needed in the Baldwin area.



LG&E/KU Balancing Authority

Generation Assumptions

- * LG&E/KU has no generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process.

LG&E/KU – Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected long-term firm point-to-point commitments. The years shown represent Summer Peak conditions.

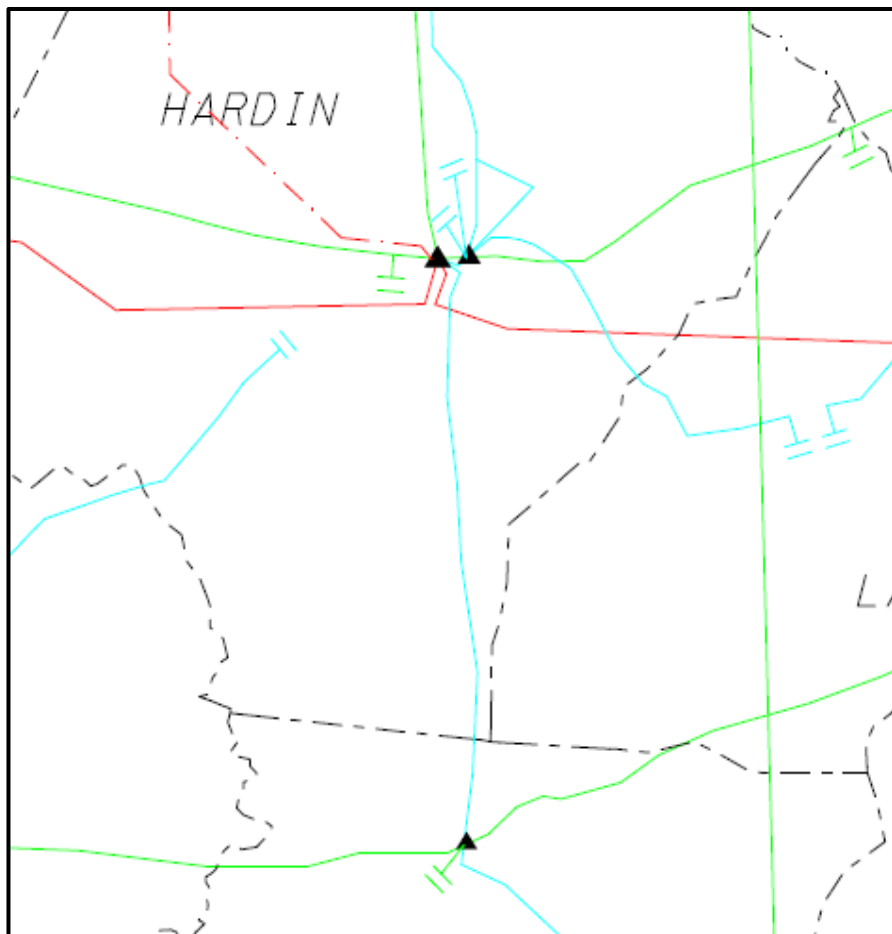
SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
TRIMBLE COUNTY	324	324	324	324	324	324	324	324	324	324

LG&E/KU Balancing Authority Preliminary Transmission Expansion Plan

LG&E/KU – 1

2017

ELIZABETHTOWN – HARDIN COUNTY 138 KV T.L.

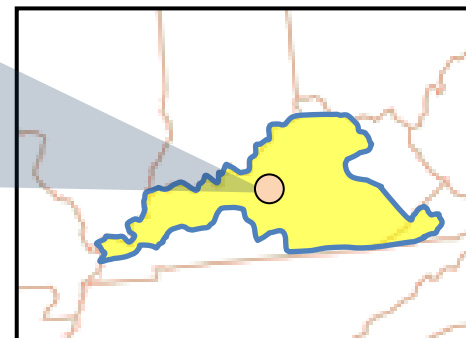


DESCRIPTION:

Construct a second Elizabethtown – Hardin Co 138 kV transmission line by overbuilding the existing Elizabethtown – Hardin Co 69 kV transmission line and install a 138 kV breaker on the Elizabethtown 138/69 kV transformer.

SUPPORTING STATEMENT:

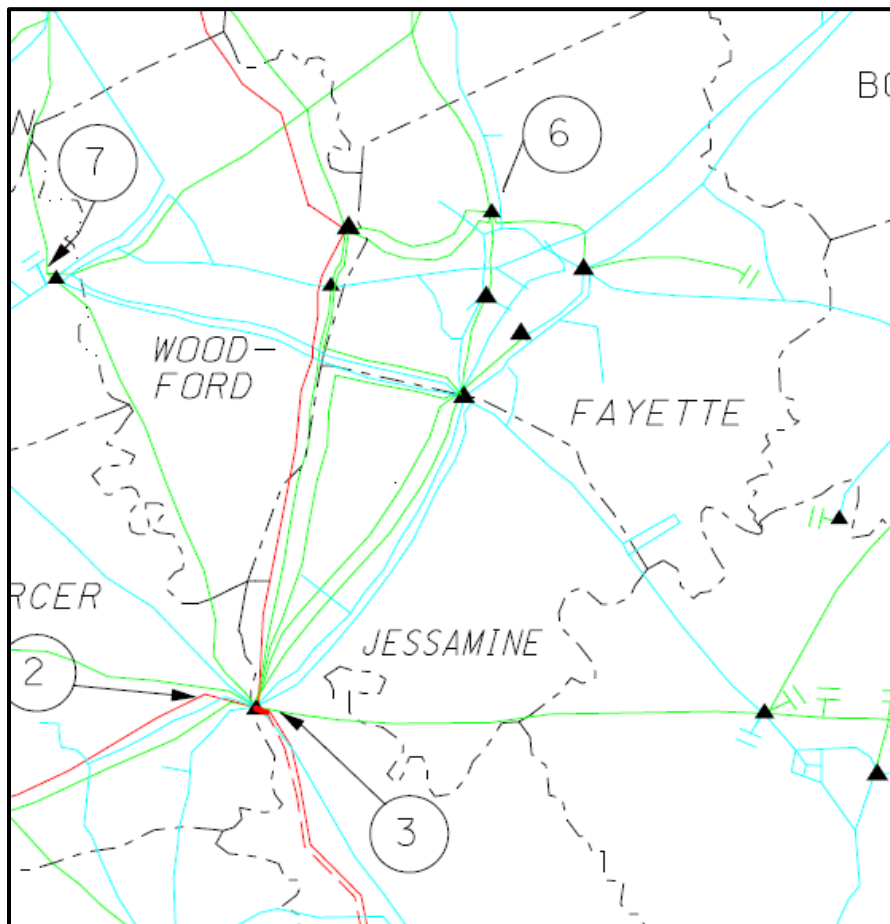
The Hardin County 138/69 kV transformer overloads under contingency.



LG&E/KU – 2

2017

WEST LEXINGTON – VILEY ROAD 138 KV T.L.

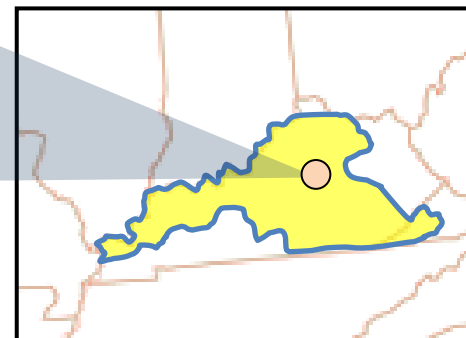


DESCRIPTION:

Reconductor approximately 5.2 miles of 795 ACSR conductor in the West Lexington – Viley Road section of the West Lexington – Viley Road – Haefling 138 kV transmission line, using high temperature conductor capable of at least 358 MVA.

SUPPORTING STATEMENT:

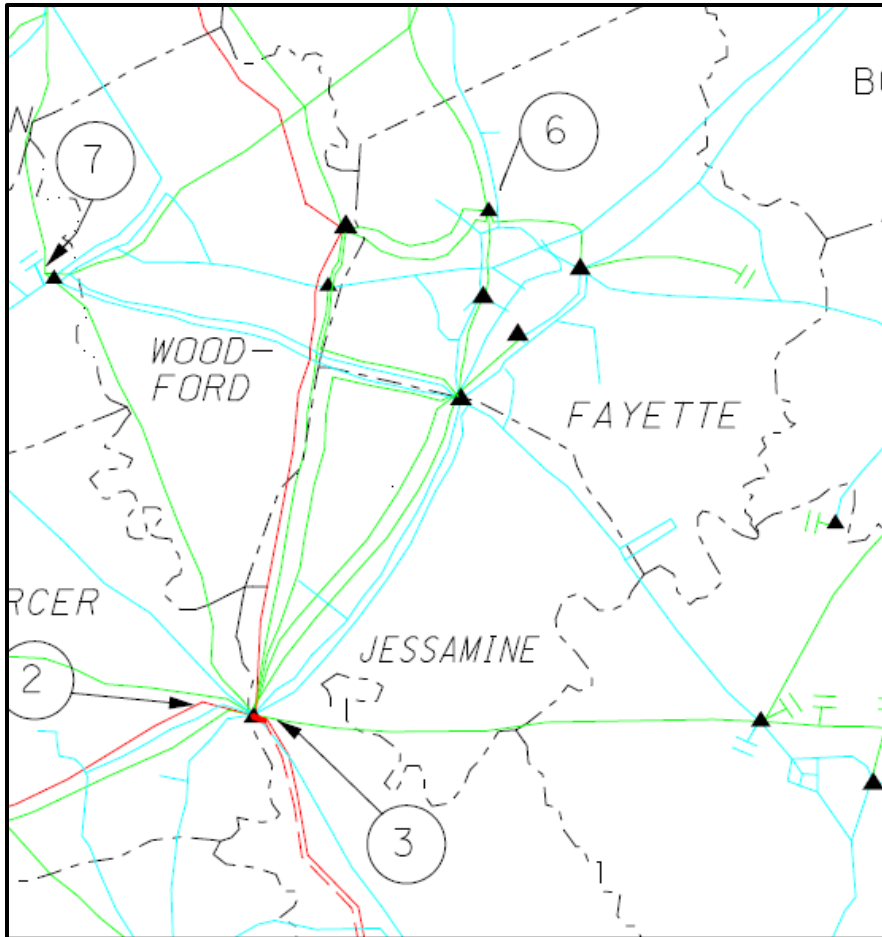
The West Lexington – Viley Road 138 kV transmission line overloads under contingency.



LG&E/KU – 3

2019

WEST LEXINGTON – HAEFLING 138 KV T.L.

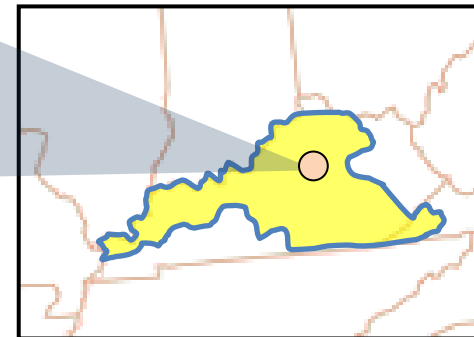


DESCRIPTION:

Reconductor 7.3 miles of 795 ACSR conductor on the West Lexington – Haefling 138 kV line, using high temperature conductor capable of at least 358 MVA.

SUPPORTING STATEMENT:

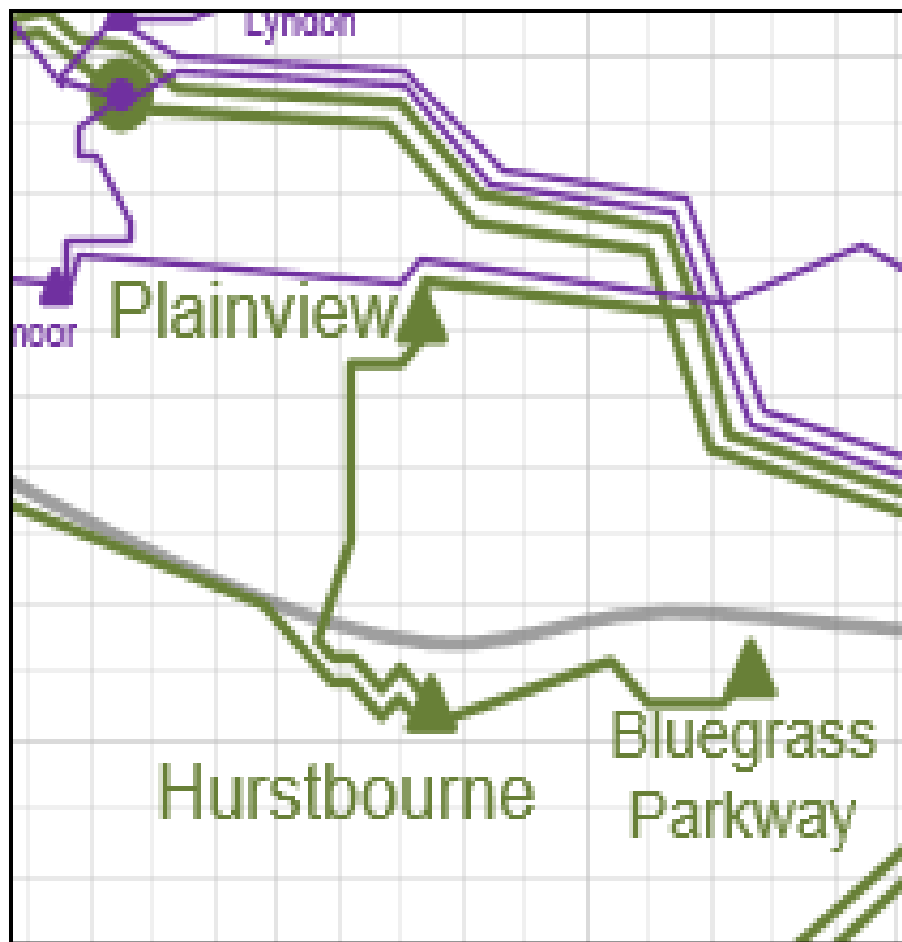
The West Lexington – Haefling 138 kV transmission line overloads under contingency.



LG&E/KU – 4

2020

PLAINVIEW – PLAINVIEW TAP 138 KV T.L.

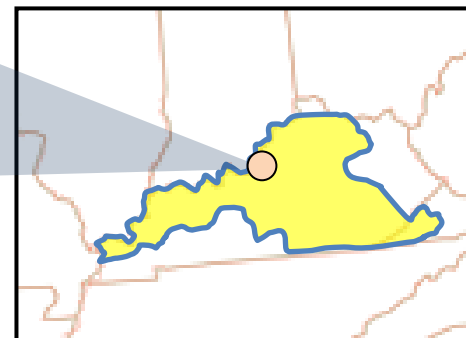


DESCRIPTION:

Replace approximately 1.6 miles of 1272 AAC conductor in the Plainview Tap – Plainview section of the Middletown – Beargrass 138 kV line with 1272 ACSR capable of at least 341 MVA.

SUPPORTING STATEMENT:

The Plainview – Plainview Tap 138 kV transmission line overloads under contingency.



OVEC Balancing Authority

Preliminary Transmission Expansion Plan & Generation Assumptions

- * OVEC has no transmission projects included in the 2016 SERTP Preliminary Transmission Expansion Plan. In addition, OVEC has no generation assumptions expected to change throughout the ten year planning horizon for the 2016 SERTP Process.

POWERSOUTH Balancing Authority Generation Assumptions

- * POWERSOUTH has no generation assumptions expected to change throughout the ten year planning horizon for the 2016 SERTP Process.

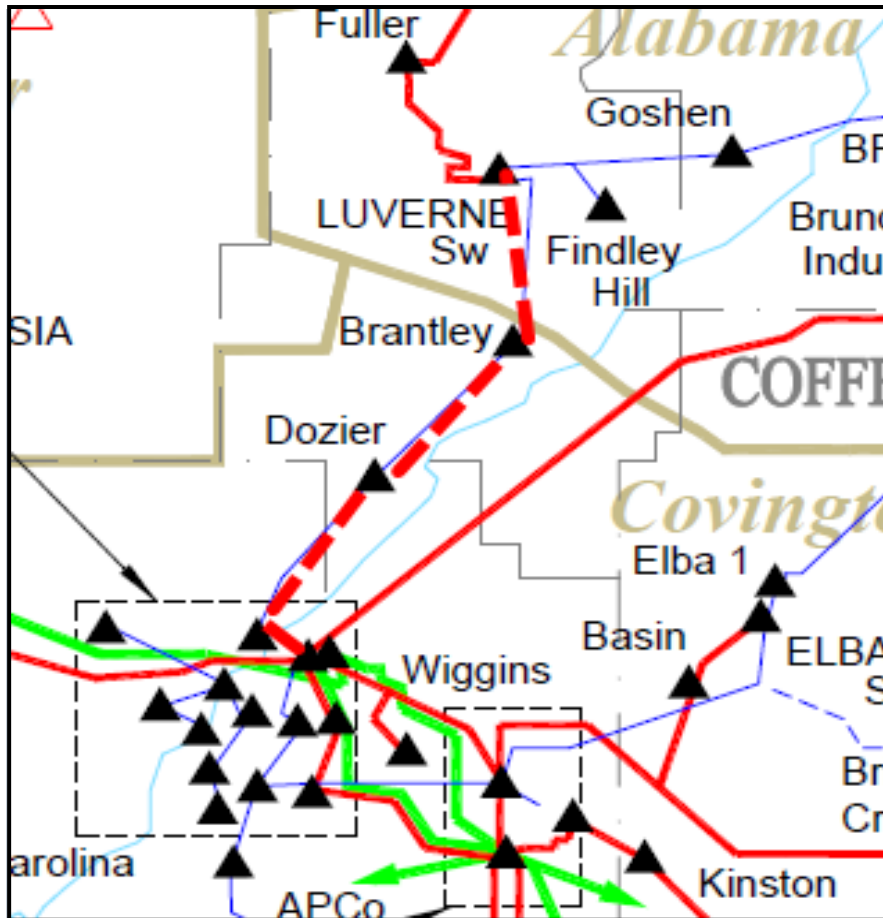
POWERSOUTH Balancing Authority

Preliminary Transmission Expansion Plan

POWERSOUTH – 1

2017

MCWILLIAMS – LUVERNE 115 KV T.L.

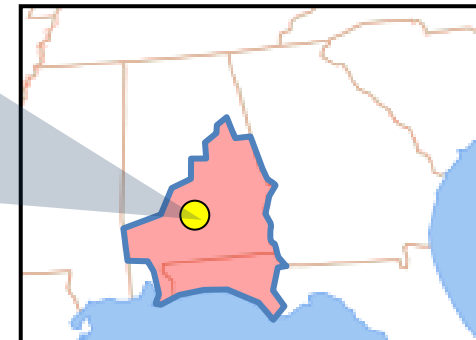


DESCRIPTION:

Upgrade 28 miles of the existing McWilliams – Luverne 46 kV transmission line to 115 kV with 795 ACSR at 100°C.

SUPPORTING STATEMENT:

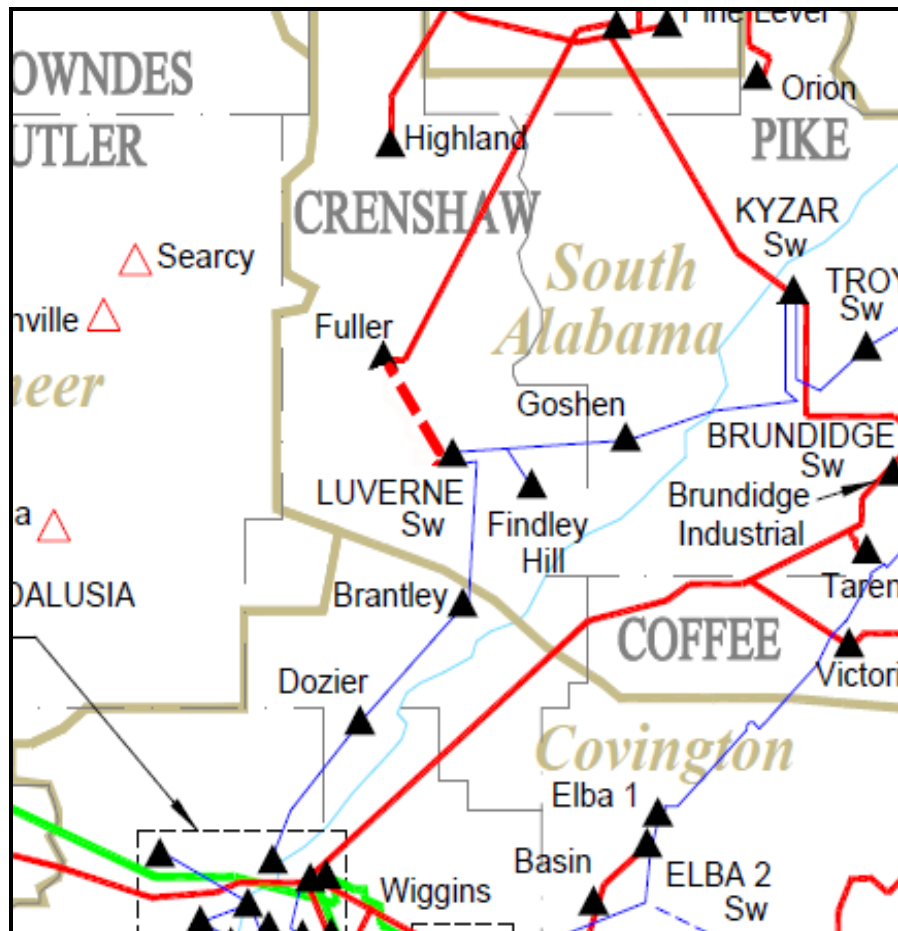
Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.



POWERSOUTH – 2

2017

LUVERNE – FULLER 115 KV T.L.

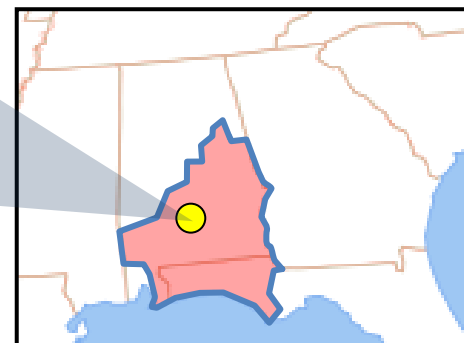


DESCRIPTION:

Reconductor 8.5 miles of transmission line from Luverne to Fullers substation with 795 ACSR at 100°C.

SUPPORTING STATEMENT:

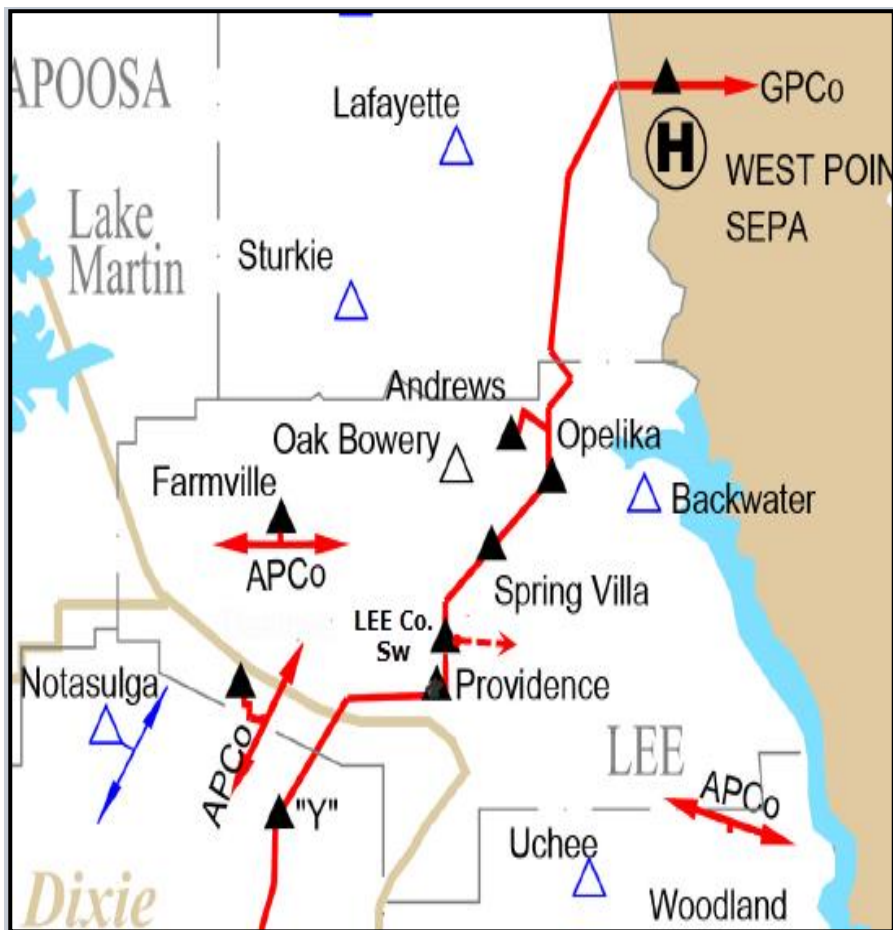
Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.



POWERSOUTH – 3

2017

LEE CO. 115 KV SWITCHING STATION

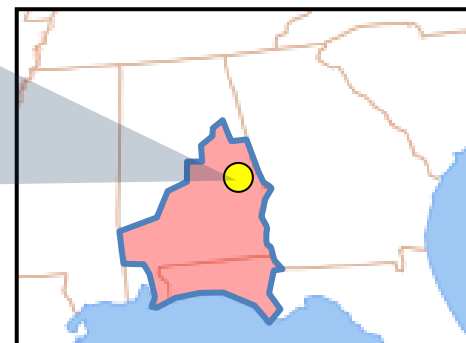


DESCRIPTION:

Construct a new 115 kV switching station that taps the existing Dublin – West Point 115 kV transmission line to facilitate the Lee County – Fuller Road 115 kV transmission line.

SUPPORTING STATEMENT:

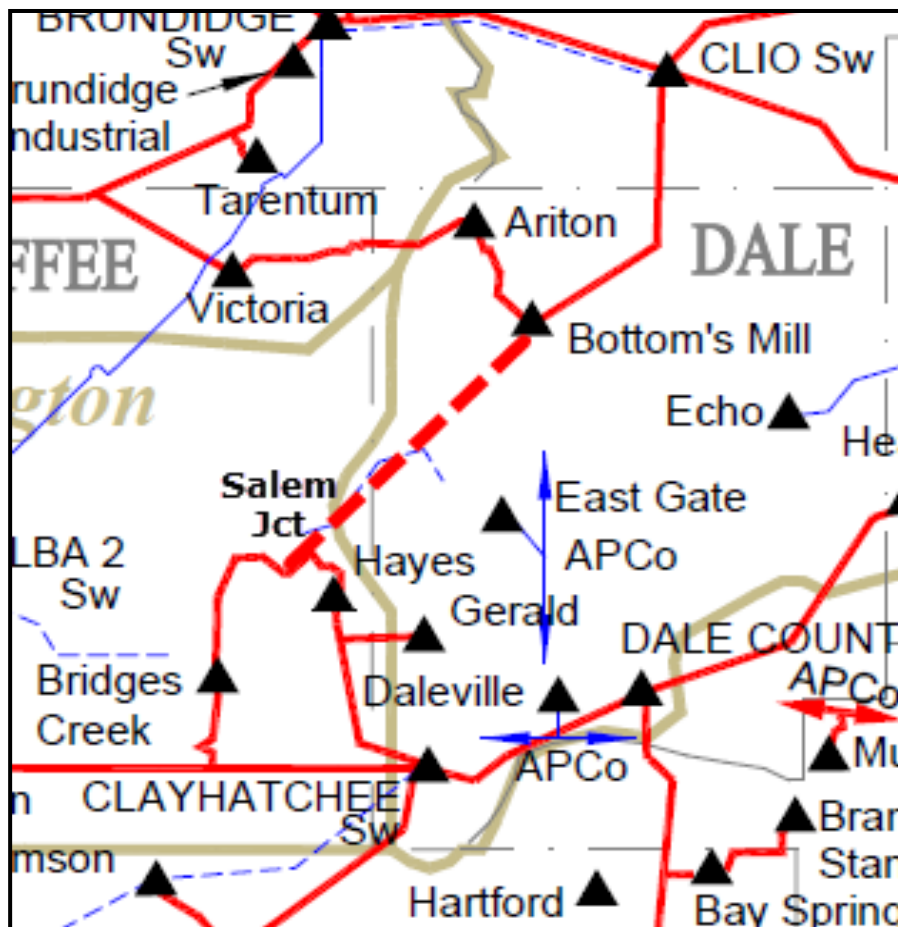
Additional voltage support is needed on the Dublin – West Point 115 kV transmission line under contingency.



POWERSOUTH – 4

2018

SALEM JUNCTION – BOTTOMS MILL 115 KV T.L.

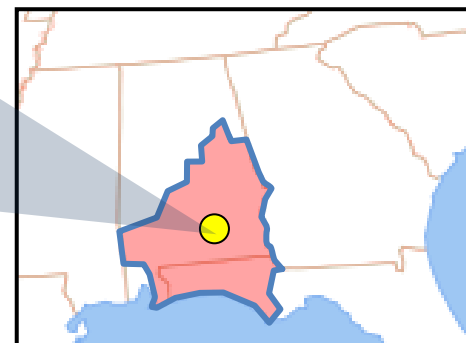


DESCRIPTION:

Construct 16 miles of new 115 kV transmission line from Bottom's Mill to Salem Junction with 795 ACSR at 100°C.

SUPPORTING STATEMENT:

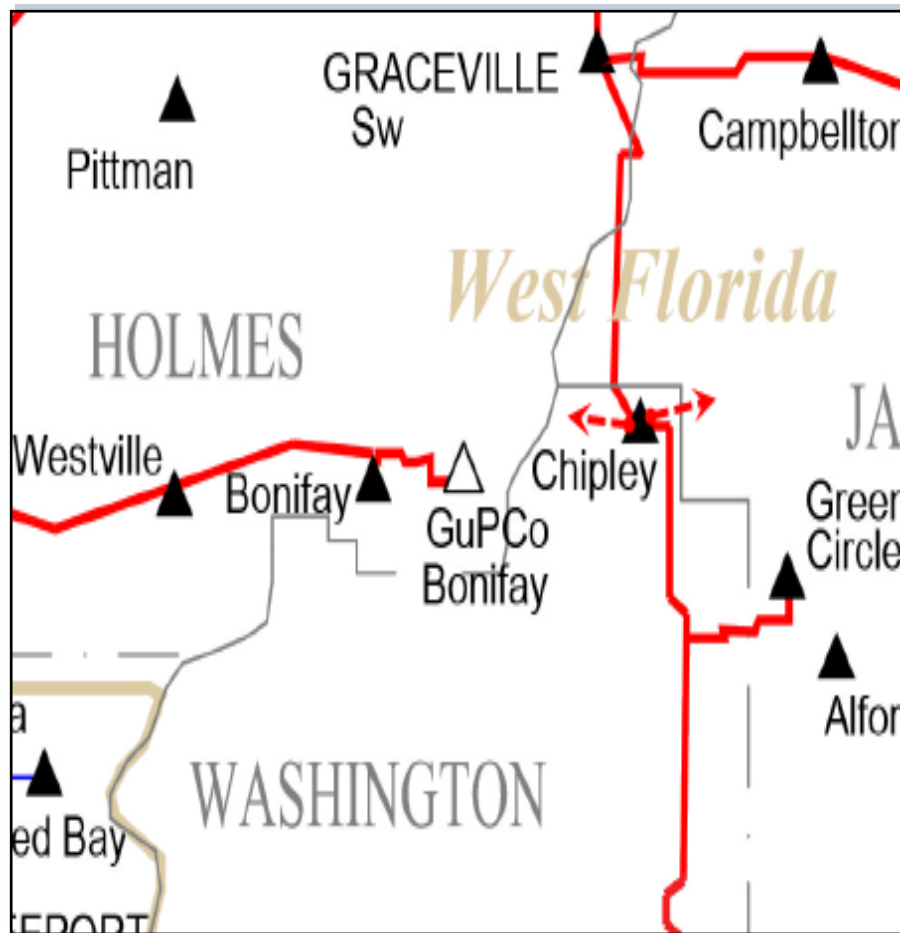
Additional voltage support needed in the Dublin, Kyzar, Brundidge, Clio, and Victoria areas under contingency.



POWERSOUTH – 5

2018

CHIPLEY 115 KV SWITCHING STATION

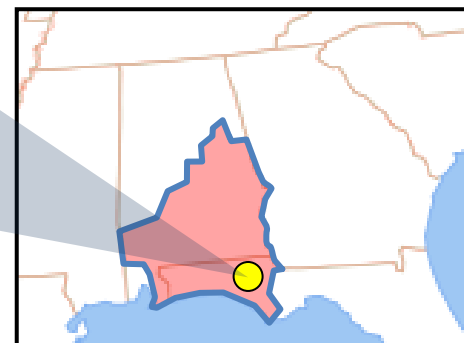


DESCRIPTION:

Construct a new Chipley 115 kV Tie substation in Washington County, Florida. The ring bus substation will tap the existing Powersouth Graceville – Chipley 115 kV transmission line and the existing Holmes Creek – Chipley Jct 115 kV Gulf Power Line.

SUPPORTING STATEMENT:

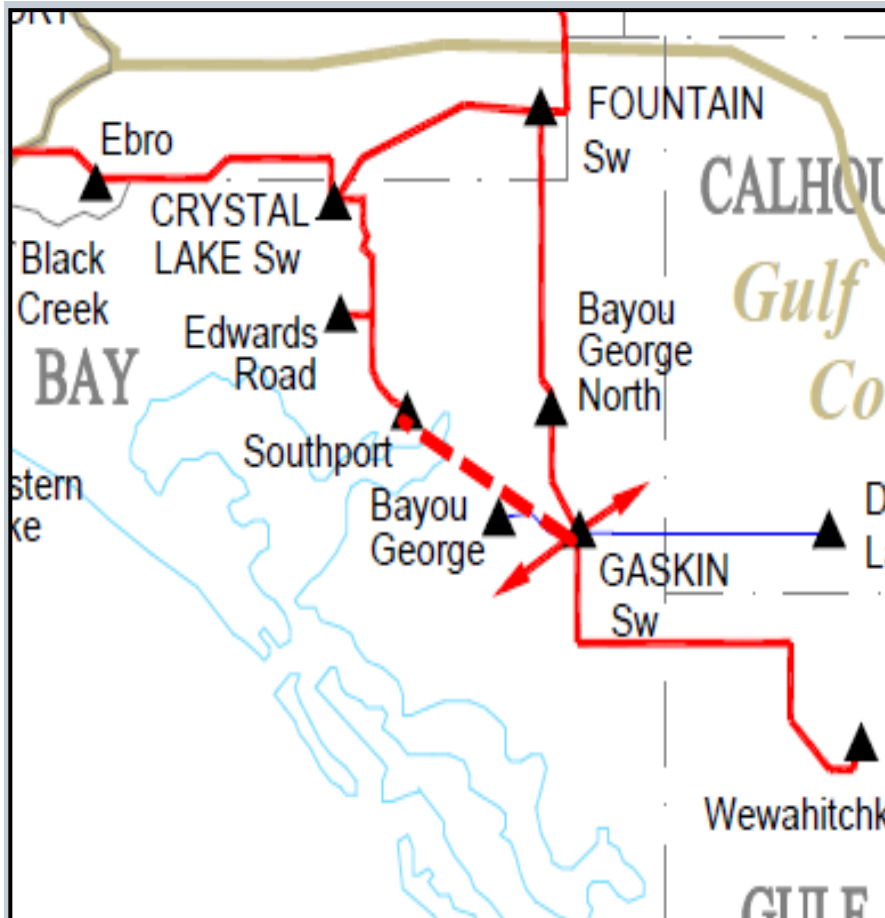
Additional voltage support is needed at Graceville and Fountain under contingency.



POWERSOUTH – 6

2018

GASKIN – SOUTHPORT 115 KV T.L.

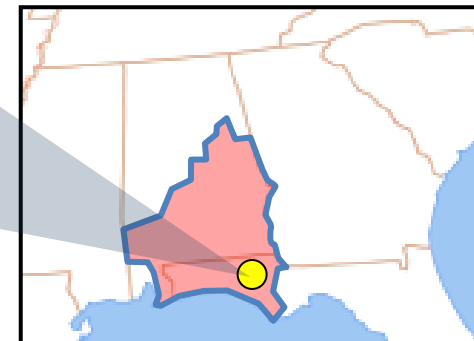


DESCRIPTION:

Construct 9 miles of new 115 kV transmission line from Gaskin Switching Station – Southport substation with 795 ACSR at 100°C.

SUPPORTING STATEMENT:

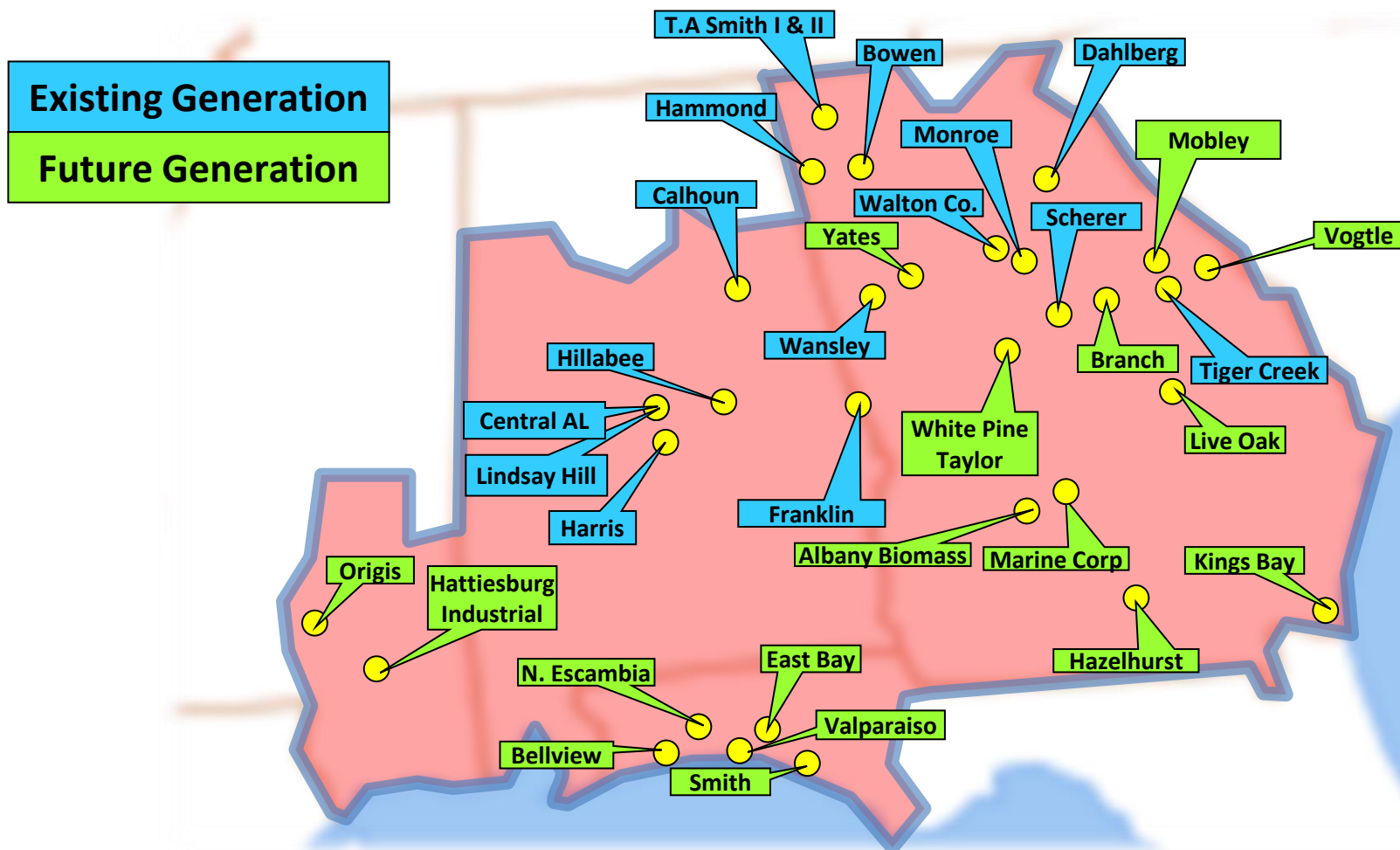
Improve the reliability of Gulf Coast Electric's substations by providing a looped service feed.



SOUTHERN Balancing Authority 2016 Generation Assumptions

SOUTHERN – Generation Assumptions

The following diagram depicts the location of generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process.



Southern Company – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
MARINE CORP SOLAR	30	30	30	30	30	30	30	30	30	30
ALBANY BIOMASS	50	50	50	50	50	50	50	50	50	50
VALPARAISO SOLAR	30	30	30	30	30	30	30	30	30	30
KINGS BAY SOLAR	30	30	30	30	30	30	30	30	30	30
EAST BAY SOLAR	40	40	40	40	40	40	40	40	40	40
BELLVIEW SOLAR	50	50	50	50	50	50	50	50	50	50
LIVE OAK SOLAR	51	51	51	51	51	51	51	51	51	51
MOBLEY SOLAR	77	77	77	77	77	77	77	77	77	77
WHITE PINE SOLAR	102	102	102	102	102	102	102	102	102	102
HATTIESBURG INDUSTRIAL SOLAR	50	50	50	50	50	50	50	50	50	50

Southern Company – Generation Assumptions

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
ORIGIS SOLAR	52	52	52	52	52	52	52	52	52	52
WANSLEY 6	0	--	--	--	--	--	--	--	--	--
HARRIS 2	628	628	0	--	--	--	--	--	--	--
WALTON COUNTY	447	447	465	465	465	465	465	0	--	--
VOGTLE 3	--	--	504	504	504	504	504	504	504	504
VOGTLE 4	--	--	--	504	504	504	504	504	504	504
CALHOUN 1-4	632	632	632	632	632	632	0	--	--	--
CENTRAL ALABAMA	885	885	885	885	885	885	0	--	--	--
YATES ¹	--	--	--	--	--	--	--	940	940	940
MONROE	310	310	310	310	310	310	310	0	--	--

(1) This assumption may be modified as resource decisions are made by the corresponding LSEs pursuant to applicable regulatory processes.

Southern Company – Generation Assumptions

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
NORTH ESCAMBIA ¹	--	--	--	--	--	--	460	460	460	460
SMITH ¹	--	--	--	--	--	--	460	460	460	460
TIGER CREEK	310	310	310	310	310	310	310	0	--	--
BRANCH ¹	--	--	--	--	--	--	--	940	1400	1400

⁽¹⁾ This assumption may be modified as resource decisions are made by the corresponding LSEs pursuant to applicable regulatory processes.

Southern Company – Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected long-term firm point-to-point commitments. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
VOGTLE	206	206	206	206	206	206	206	206	206	206
LINDSAY HILL	300	300	300	300	300	300	300	300	300	300
HAMMOND	10	10	10	10	10	10	10	10	10	10
HILLABEE	350	350	350	350	350	350	350	350	350	350
FRANKLIN	424	424	424	424	424	424	424	424	424	424
SCHERER	911	911	911	911	911	911	911	911	911	911
DAHLBERG	44	44	44	44	44	44	44	44	44	44
BOWEN	159	159	159	159	159	159	159	159	159	159

GTC – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
FRANKLIN CC 2	625	625	625	625	625	625	625	625	625	625
HILLABEE CC	123	123	123	123	123	123	123	123	123	123
T.A. SMITH I CC	647	647	647	647	647	647	647	647	647	647
T.A. SMITH II CC	647	647	647	647	647	647	647	647	647	647
LINDSAY HILL CC	0	0	0	0	0	0	0	0	0	0
DAHLBERG CT	375	375	375	375	375	375	375	375	375	375
TAYLOR SOLAR	143	143	143	143	143	143	143	143	143	143
WANSLEY 6	--	561	561	561	561	561	561	561	561	561
VOGTLE 3	--	--	330	330	330	330	330	330	330	330
VOGTLE 4	--	--	--	330	330	330	330	330	330	330

GTC – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
TIGER CREEK	309	309	309	309	309	309	309	309	309	309
HAZELHURST SOLAR	49	49	49	49	49	49	49	49	49	49

MEAG – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
VOGTLE 3	--	--	250	250	250	250	250	250	250	250
VOGTLE 4	--	--	--	250	250	250	250	250	250	250

DALTON – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
VOGTLE 3	--	--	16	16	16	16	16	16	16	16
VOGTLE 4	--	--	--	16	16	16	16	16	16	16

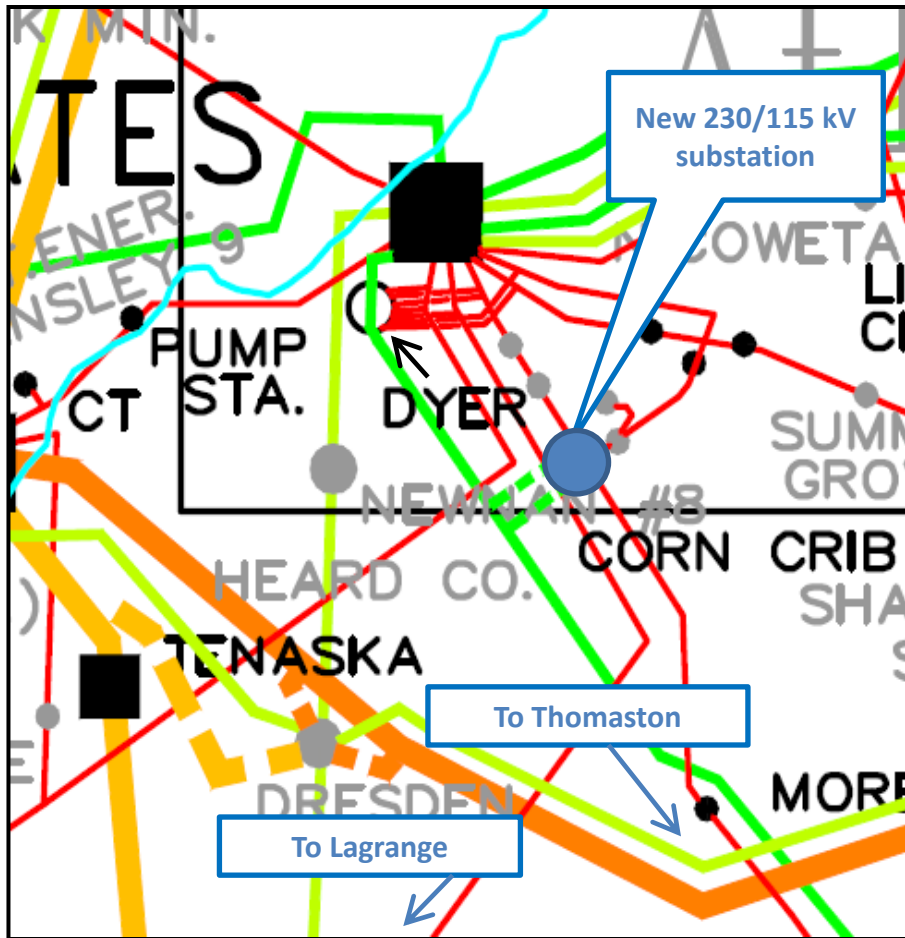
SOUTHERN Balancing Authority

Preliminary Transmission Expansion Plan

SOUTHERN – 1E

2017

CORN CRIB 230/115 KV SUBSTATION

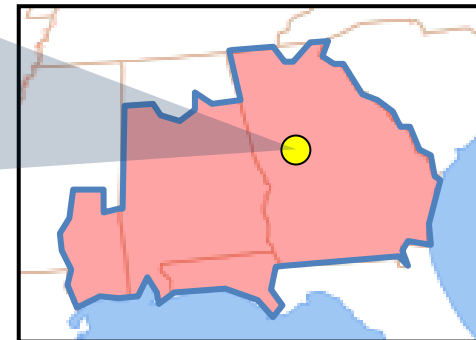


DESCRIPTION:

Construct a new 230/115 kV substation with a 400 MVA transformer. Loop in the Dyer Road – Thomaston 230 kV and 115 kV T.L.s and the Dyer Road – Lagrange 115 kV T.L. and connect the Dyer Road – Newnan #3 115 kV T.L.

SUPPORTING STATEMENT:

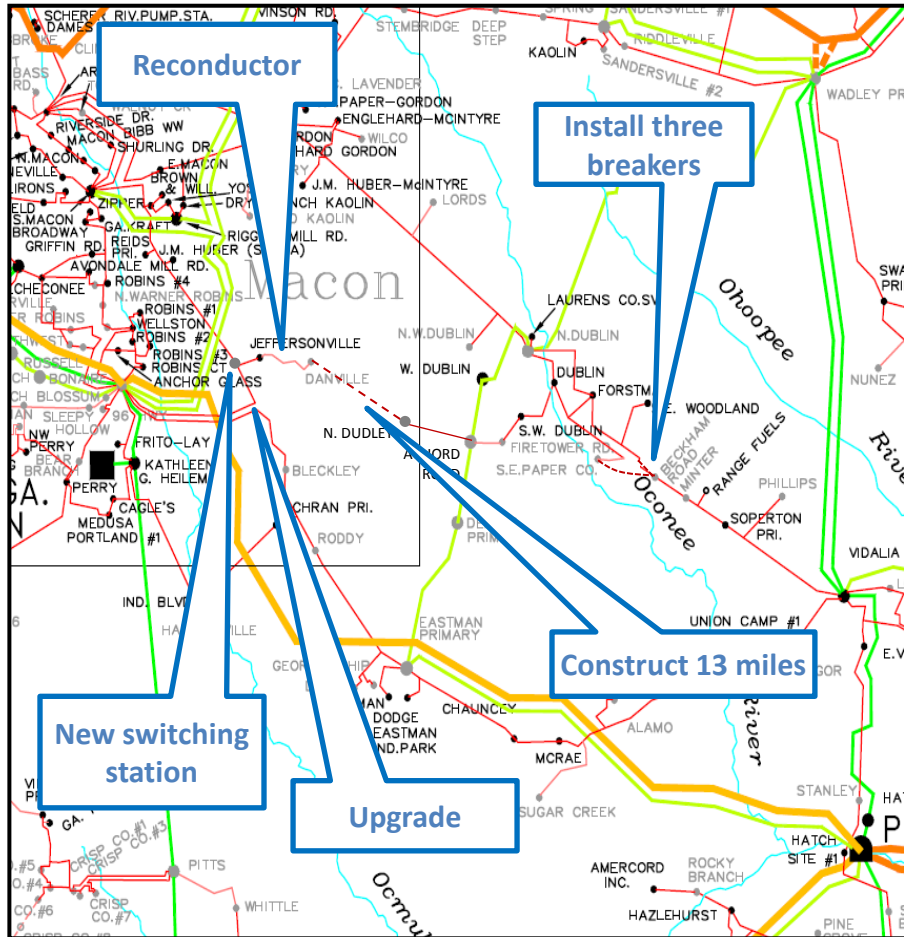
The Lagrange Primary – Yates 115 kV transmission line overloads under contingency. This project also provides voltage support along the Dyer Road – Thomaston 115 kV transmission line.



SOUTHERN – 2E

2017

DUBLIN AREA IMPROVEMENTS

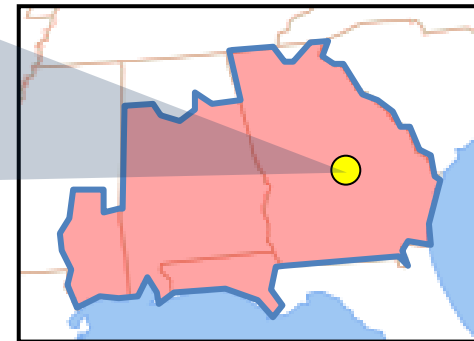


DESCRIPTION:

Construct 13 miles of 115 kV T.L. from Danville to North Dudley with 795 ACSR at 100°C. Reconductor 8.5 miles along the Jeffersonville to Danville tap 115 kV T.L. with 336 ACSS at 200°C. Construct a 115 kV switching station at the Jeffersonville tap point and upgrade 15.2 miles of 115 kV T.L. from the switching station to Bonaire Primary to 100°C operation. Install 3 breakers at Beckham Road for Vidalia, SE Paper, and Dublin 115 kV T.L.s.

SUPPORTING STATEMENT:

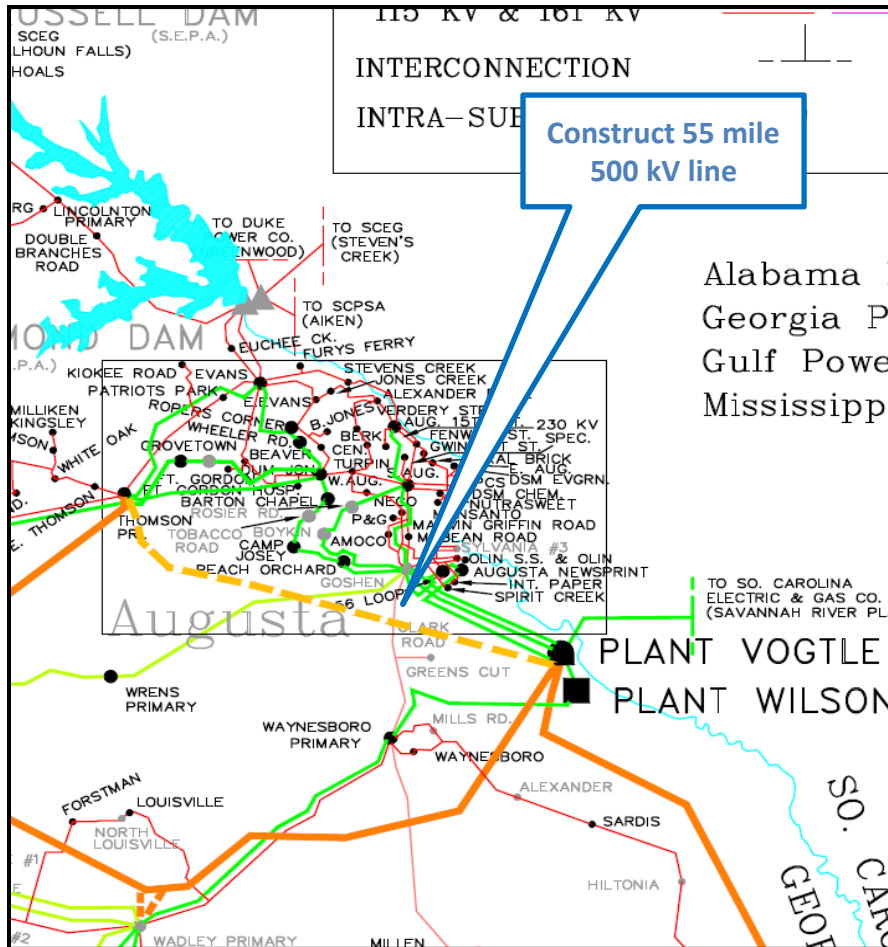
Additional voltage support needed in the Dublin area under contingency.



SOUTHERN – 3E

2017

THOMSON PRIMARY – VOGTLE 500 KV T.L.

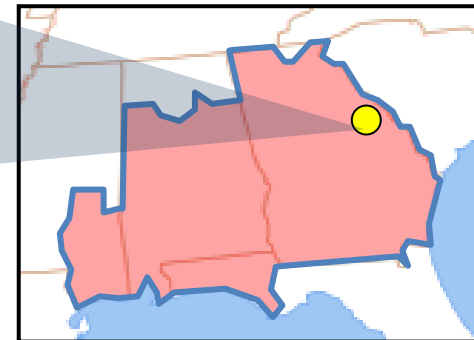


DESCRIPTION:

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

SUPPORTING STATEMENT:

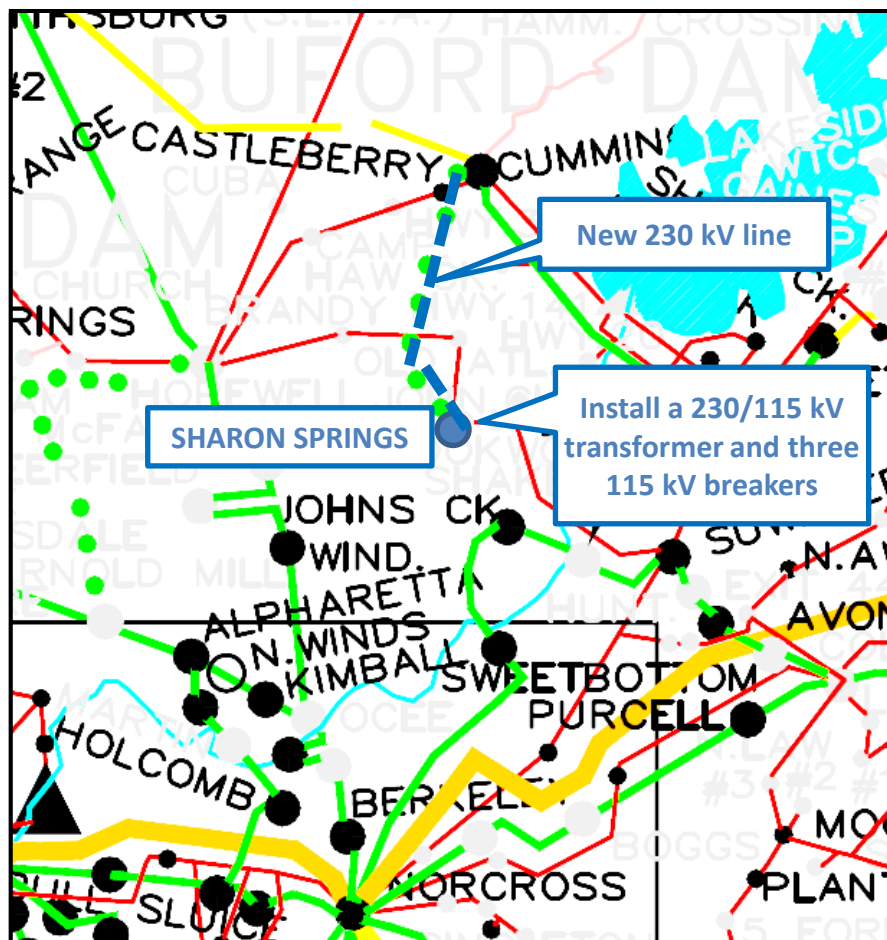
Needed to support the expansion of Plant Vogtle.



SOUTHERN – 4E

2017

SHARON SPRINGS 230/115 KV PROJECT

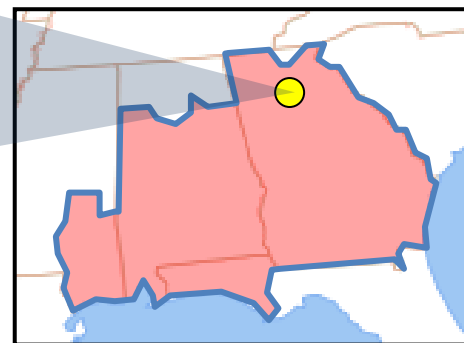


DESCRIPTION:

Construct a new 6.6 mile, 230 kV T.L. from Cumming to Sharon Springs with 1351 ACSR at 100°C. Install a 300 MVA, 230/115 kV transformer with two 115 kV breakers at Sharon Springs distribution substation. Terminate 115 kV T.L.s from Hopewell and Suwanee. Install a 230 kV breaker in the Cumming Substation and terminate 230 kV T.L. to Sharon Springs.

SUPPORTING STATEMENT:

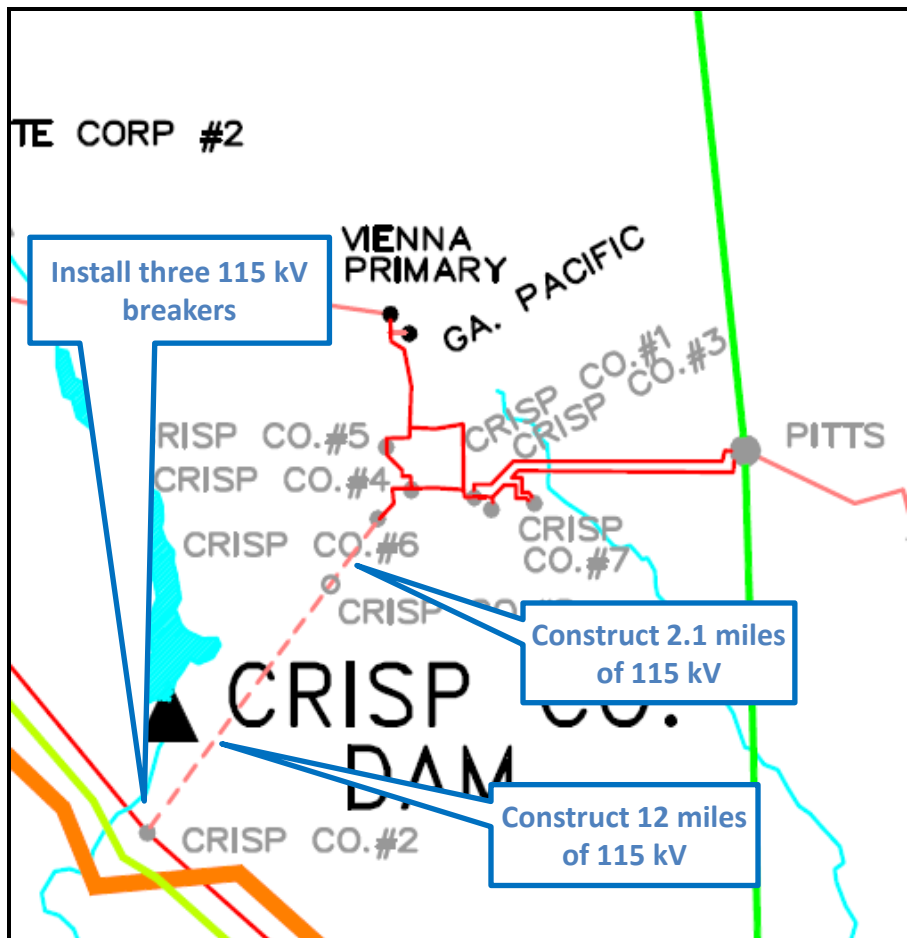
The Suwanee – Old Atlanta Road section of the T.L. overloads under contingency.



SOUTHERN – 5E

2018

CRISP COUNTY AREA IMPROVEMENTS

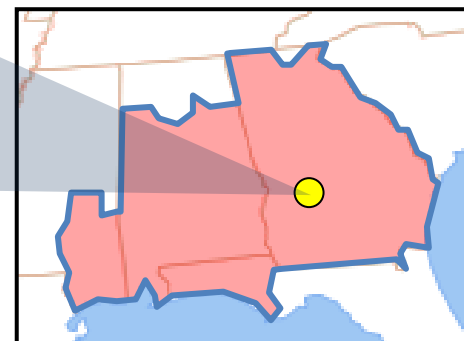


DESCRIPTION:

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

SUPPORTING STATEMENT:

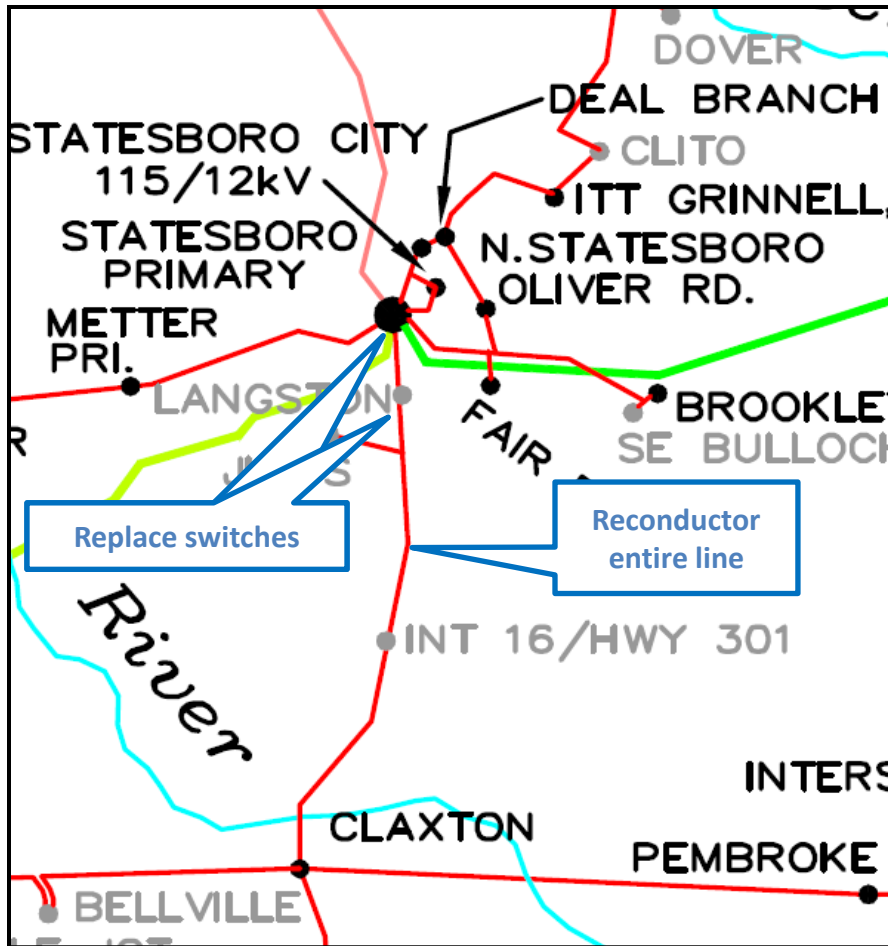
The North Americus – Turkey Creek 115 kV T.L. overloads and additional voltage support is needed in the Crisp County area under contingency..



SOUTHERN – 6E

2019

CLAXTON – STATESBORO PRIMARY 115 KV T.L.

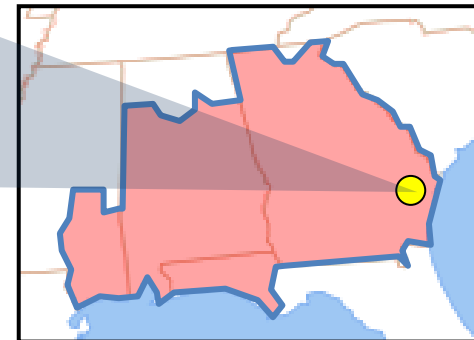


DESCRIPTION:

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

SUPPORTING STATEMENT:

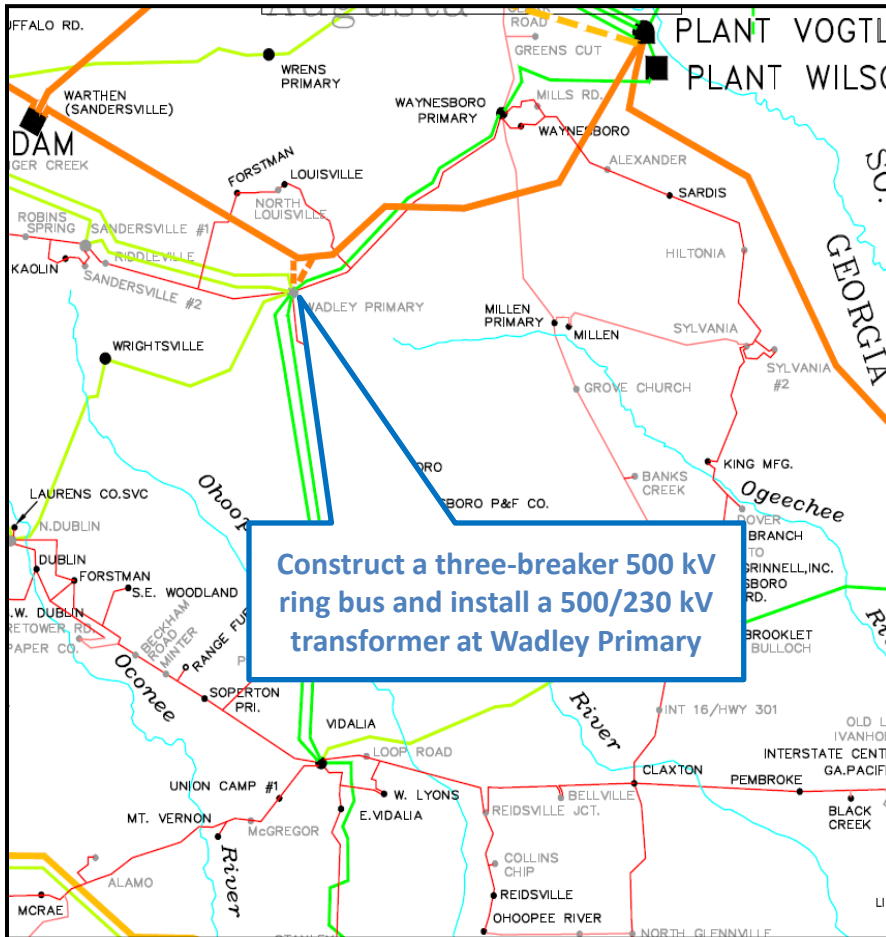
The Claxton – Statesboro 115 kV transmission line overloads under contingency.



SOUTHERN – 7E

2019

WADLEY PRIMARY 500/230 KV SUBSTATION

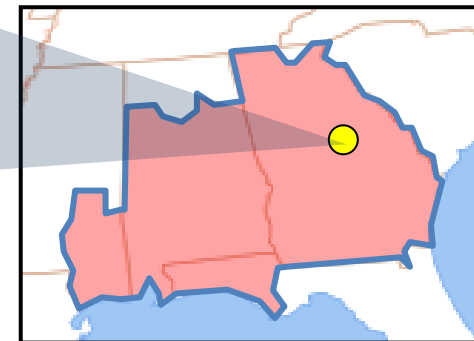


DESCRIPTION:

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

SUPPORTING STATEMENT:

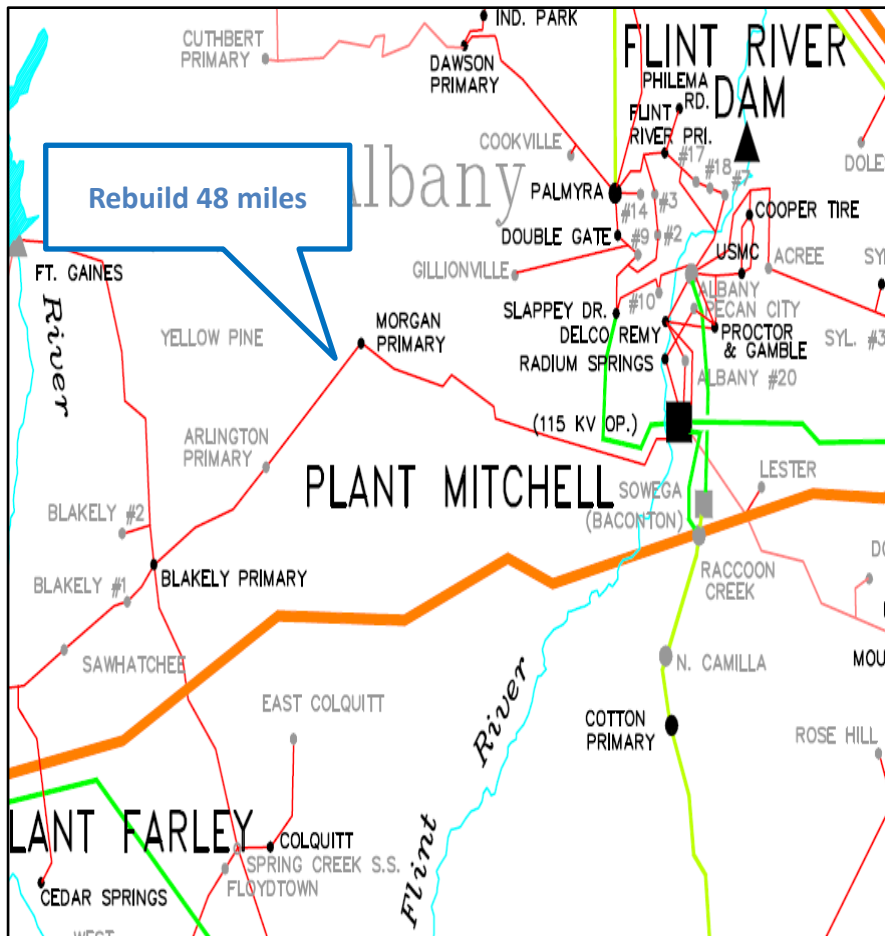
Project to enhance reliability in the Augusta area and to support the expansion of Plant Vogtle.



SOUTHERN – 8E

2020

BLAKELY PRIMARY – MITCHELL 115 KV T.L.

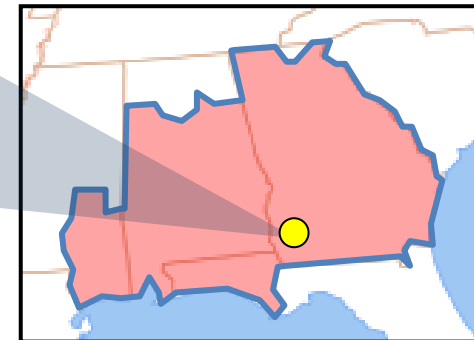


DESCRIPTION:

Rebuild approximately 48.2 miles of 115 kV transmission line of the Blakely Primary – Mitchell 115 kV transmission line with 795 ACSR at 100°C operation.

SUPPORTING STATEMENT:

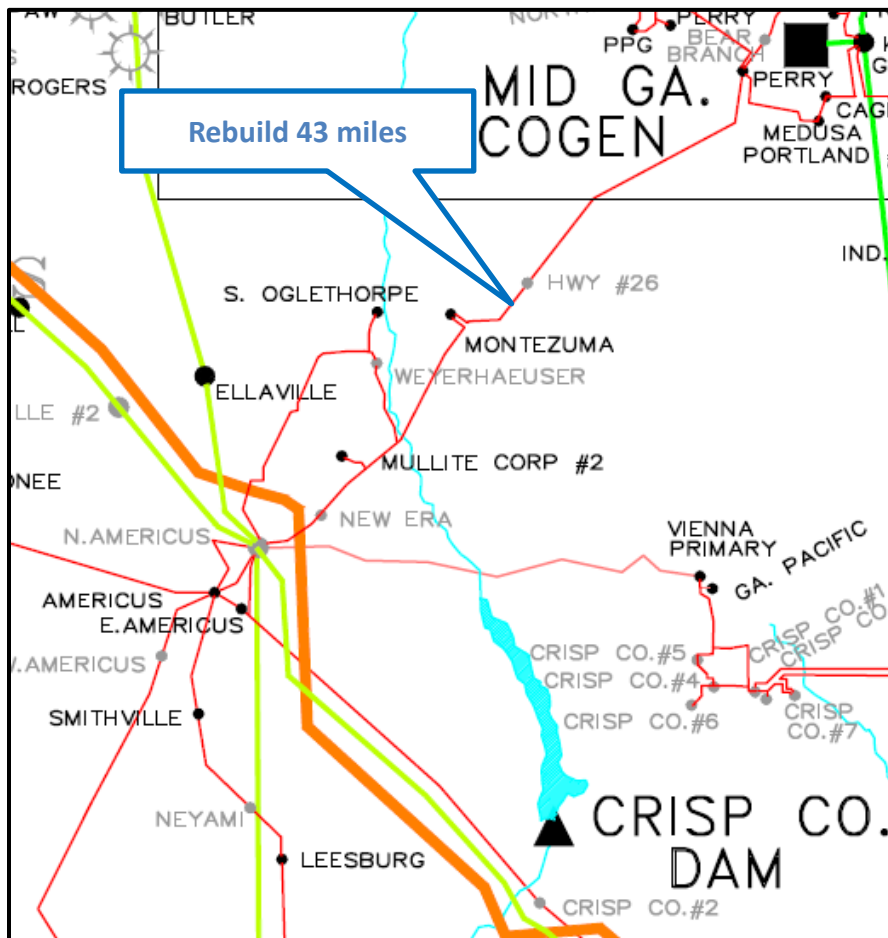
The Blakely Primary – Mitchell 115 kV line overloads under contingency.



SOUTHERN – 9E

2020

NORTH AMERICUS – PERRY 115 KV T.L.

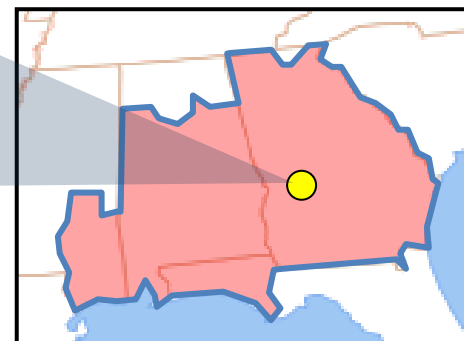


DESCRIPTION:

Rebuild approximately 43 miles of the existing 115 kV transmission line from North Americus to Perry substation with 795 ACSR at 100°C.

SUPPORTING STATEMENT:

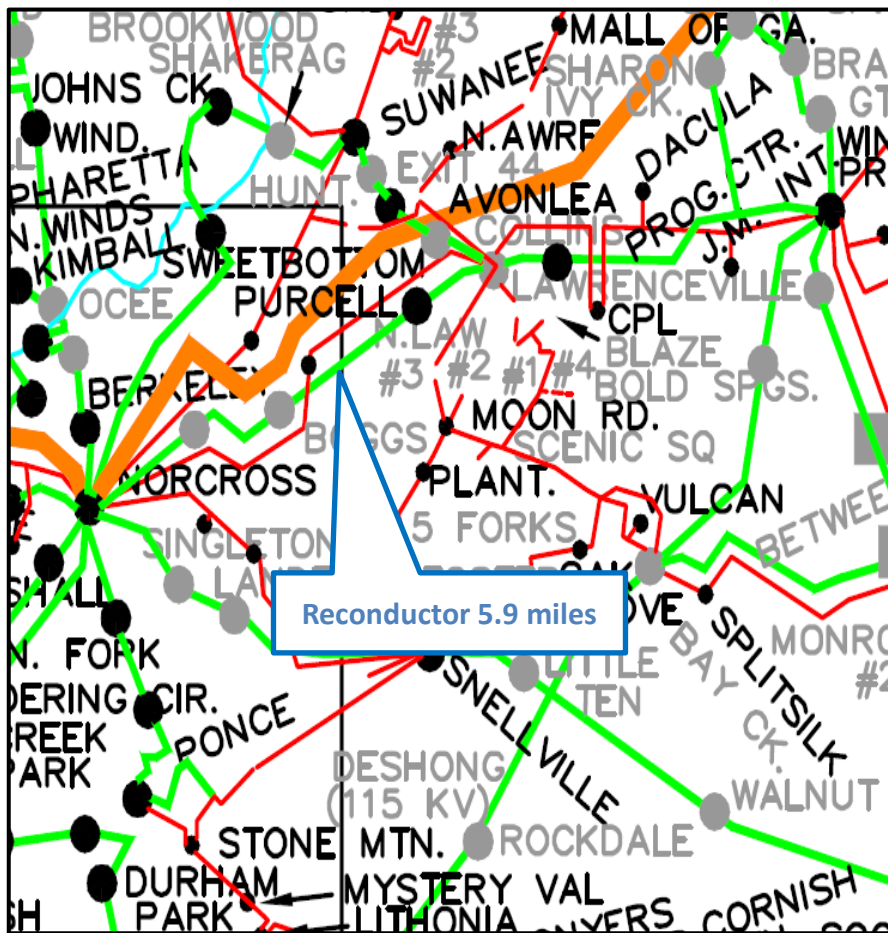
The North Americus – Perry 115 kV transmission line overloads under contingency.



SOUTHERN – 10E

2024

LAWRENCEVILLE – NORCROSS 230 KV T.L.

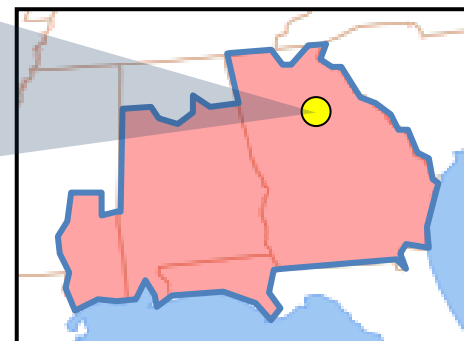


DESCRIPTION:

Reconductor 5.9 miles of 1033 ACSR conductor with 1351 ACSS conductor at 170°C from Boggs Road to Lawrenceville on the Lawrenceville – Norcross 230 kv transmission line.

SUPPORTING STATEMENT:

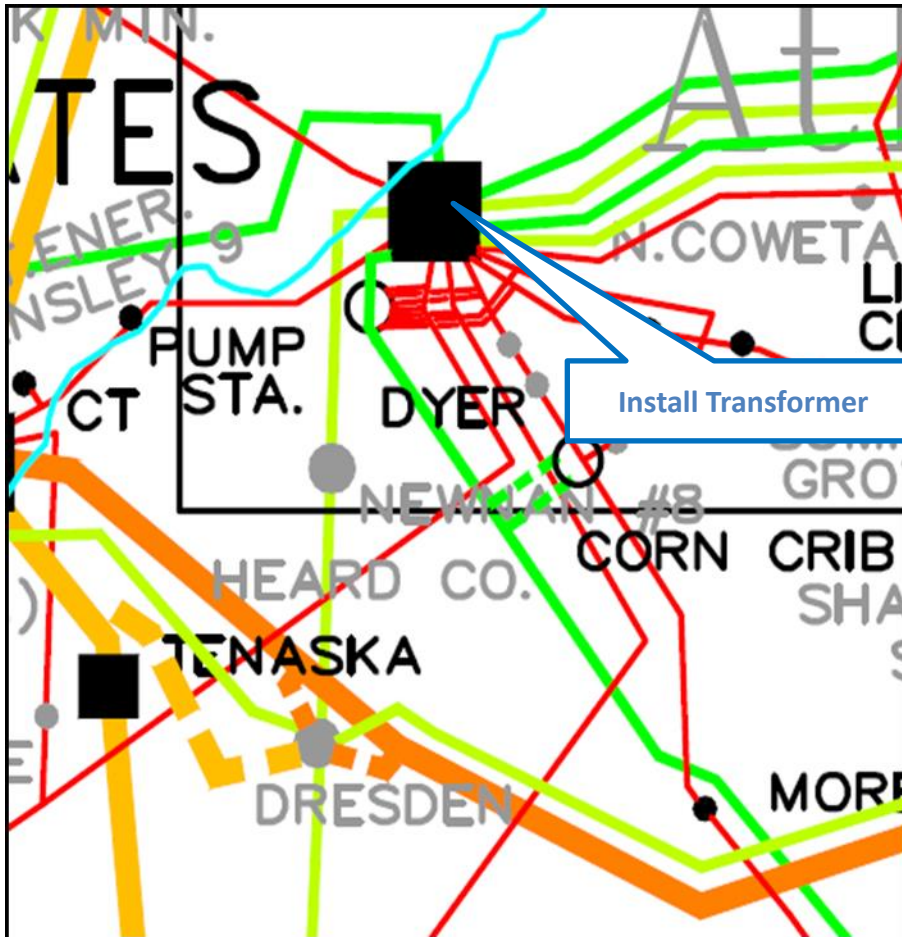
The Lawrenceville – Norcross 230 kv transmission line overloads under contingency.



SOUTHERN – 11E

2024

DYER ROAD 230/115 KV SUBSTATION

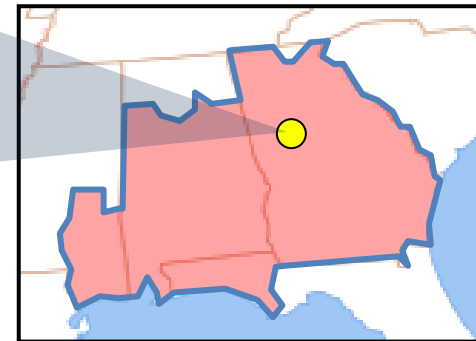


DESCRIPTION:

Install a second 230/115 kv, 400 MVA transformer at Dyer Road.

SUPPORTING STATEMENT:

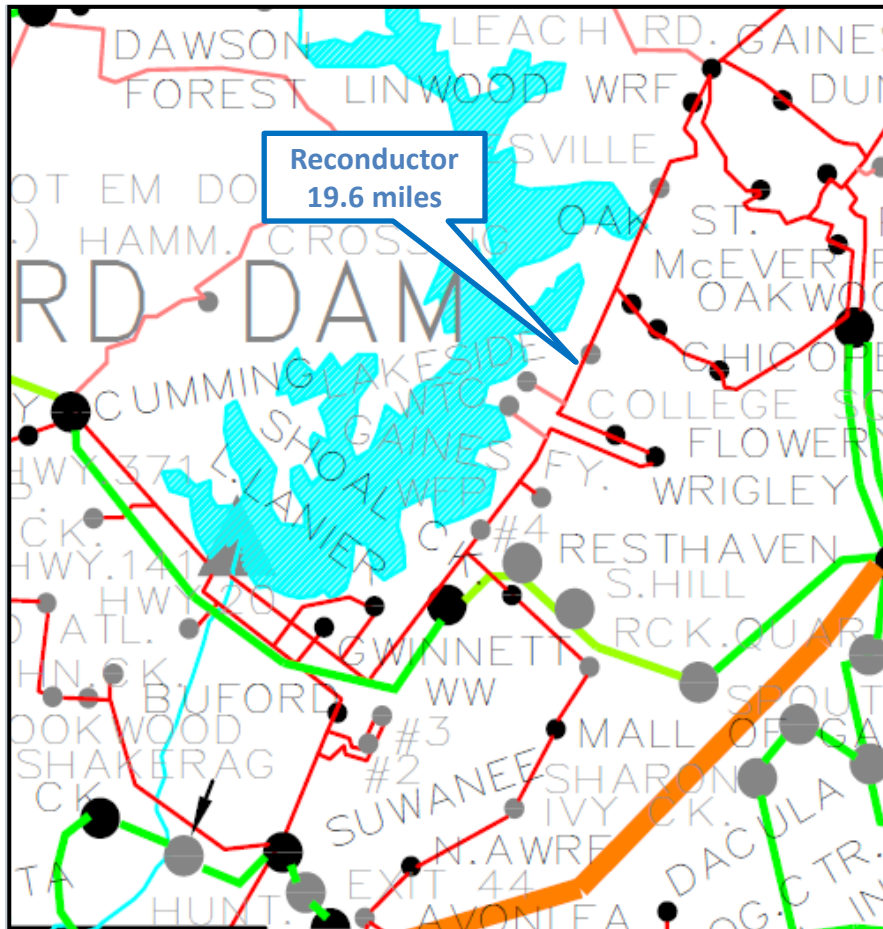
The existing Corn Crib 230/115 kv transformer overloads under contingency.



SOUTHERN – 12E

2025

MCEVER ROAD – SHOAL CREEK 115 KV T.L.

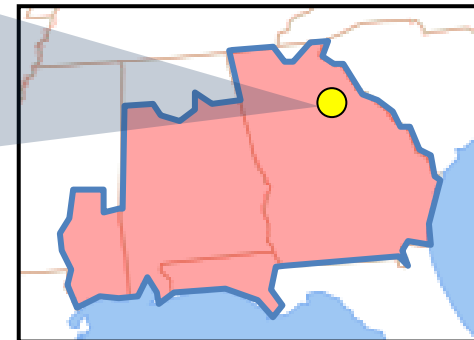


DESCRIPTION:

Reconductor approximately 19.6 miles of 115 kV transmission line along the McEver Road – Shoal Creek 115 kV transmission line with 1351 ACSR at 100°C.

SUPPORTING STATEMENT:

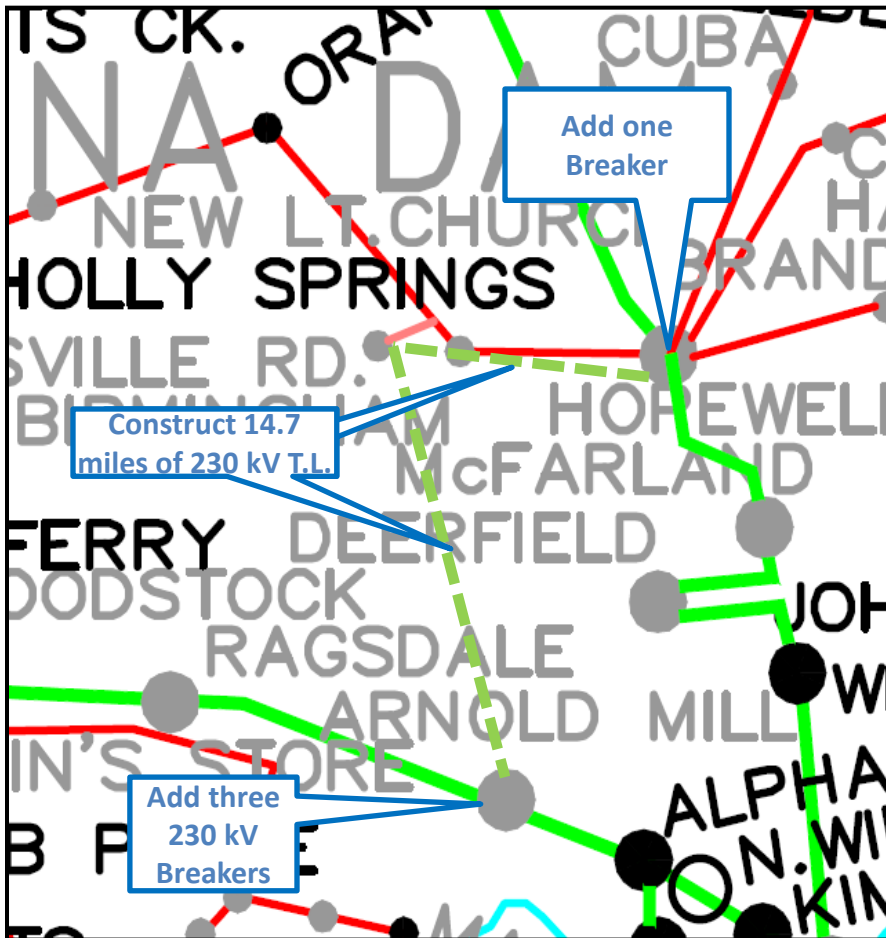
The McEver Road – Shoal Creek 115 kV transmission line overloads under contingency.



SOUTHERN – 13E

2025

ARNOLD MILL – HOPEWELL 230 KV T.L.

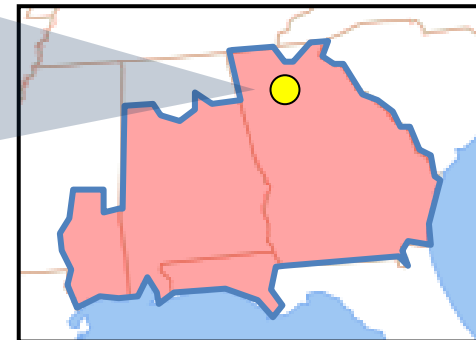


DESCRIPTION:

Construct approximately 14.7 miles of 230 kV transmission line from Arnold Mill to Hopewell. Convert Batesville Road and Birmingham substations from 115 kV highside to 230 kV highside. Install one new 230 kV breaker at Hopewell and three new 230 kV breakers at Arnold Mill.

SUPPORTING STATEMENT:

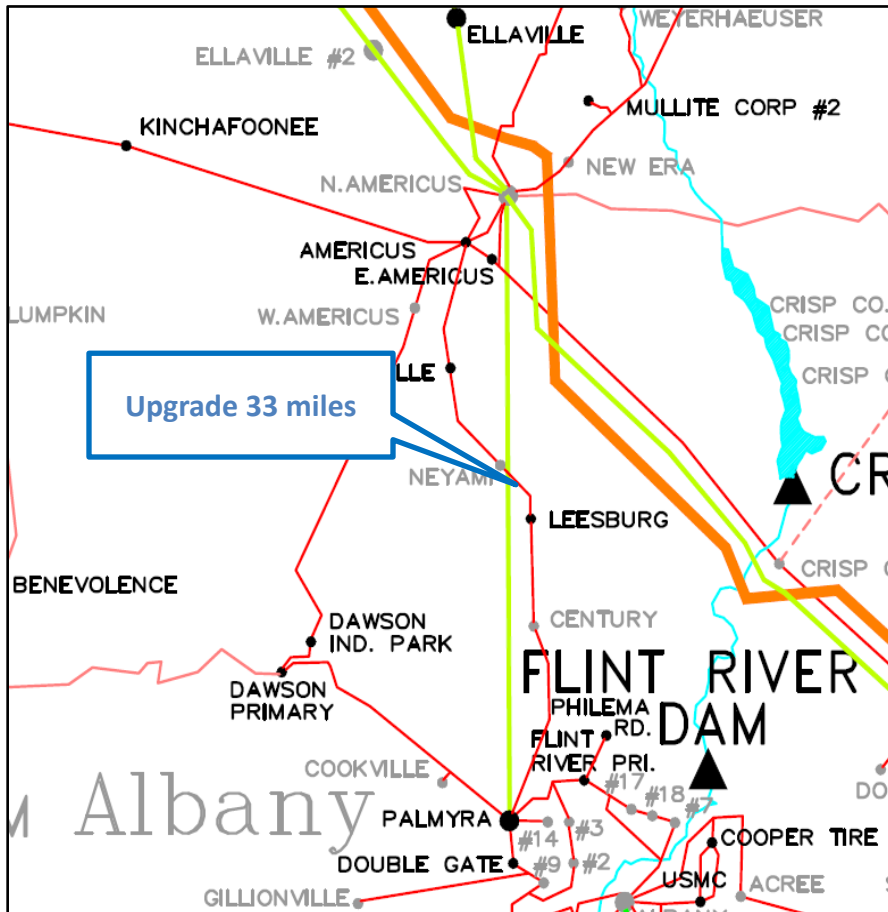
The Holly Springs – Hopewell 115 kV transmission line overloads under contingency. Also, additional voltage support is needed at Windward under contingency.



SOUTHERN – 14E

2026

NORTH AMERICUS – PALMYRA 230 KV T.L.

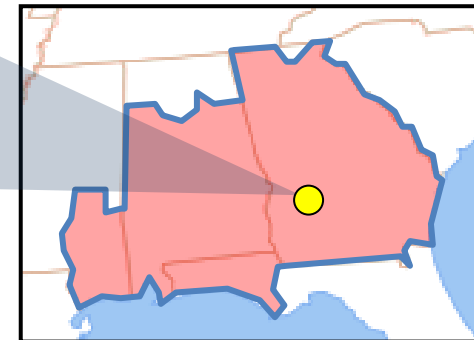


DESCRIPTION:

Upgrade 33.3 miles of the North Americus – Palmyra 230 kV transmission line to 100°C operation.

SUPPORTING STATEMENT:

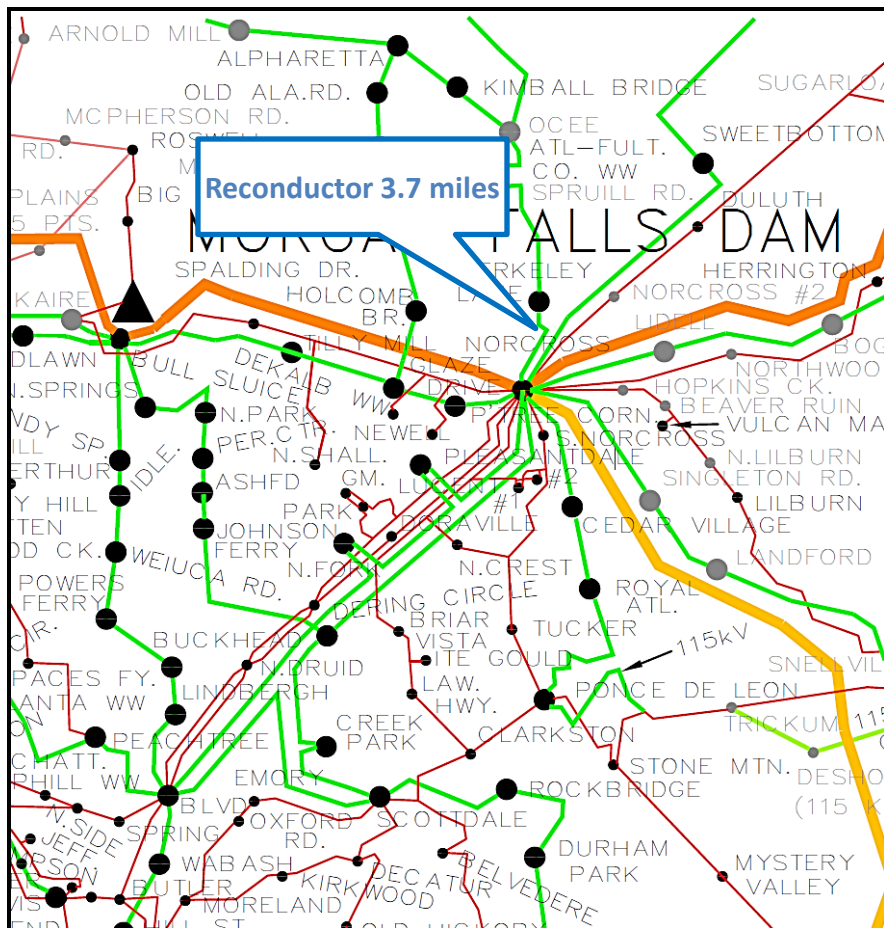
The North Americus – Palmyra 230 kV transmission line overloads under contingency.



SOUTHERN – 15E

2026

NORCROSS – OCEE 230 KV T.L.

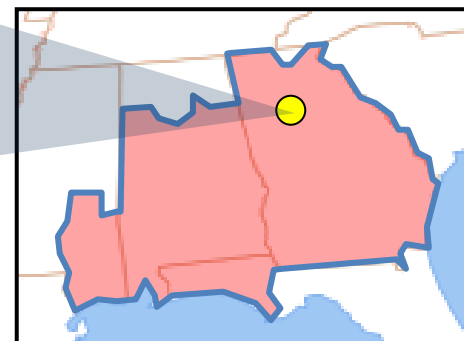


DESCRIPTION:

Reconductor approximately 3.7 miles along the Norcross – Ocee 230 kv transmission line with 1033 ACSS 160°C.

SUPPORTING STATEMENT:

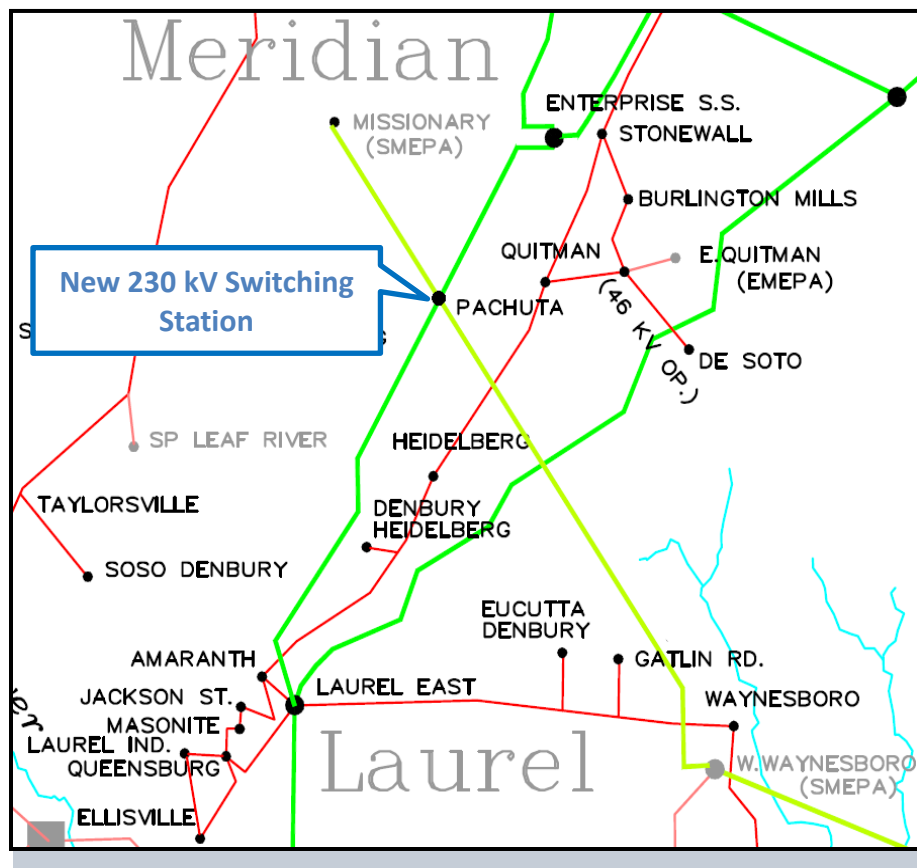
The Norcross – Ocee 230 kv transmission line overloads under contingency.



SOUTHERN – 1W

2017

JASPER EAST – MISSIONARY (SMEPA) 230 KV T.L.

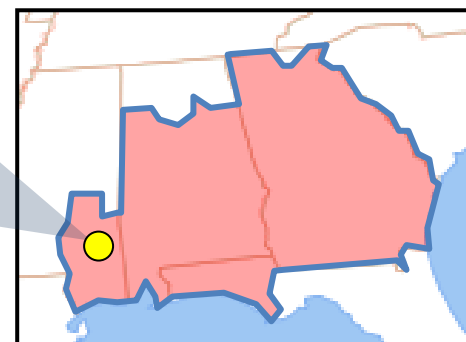


DESCRIPTION:

Tap the Missionary – Waynesboro 161 kV transmission line at the intersection of the Enterprise – Laurel East 230 kV transmission line. Construct a four (4) breaker 230 kV ring bus in Jasper County, MS.

SUPPORTING STATEMENT:

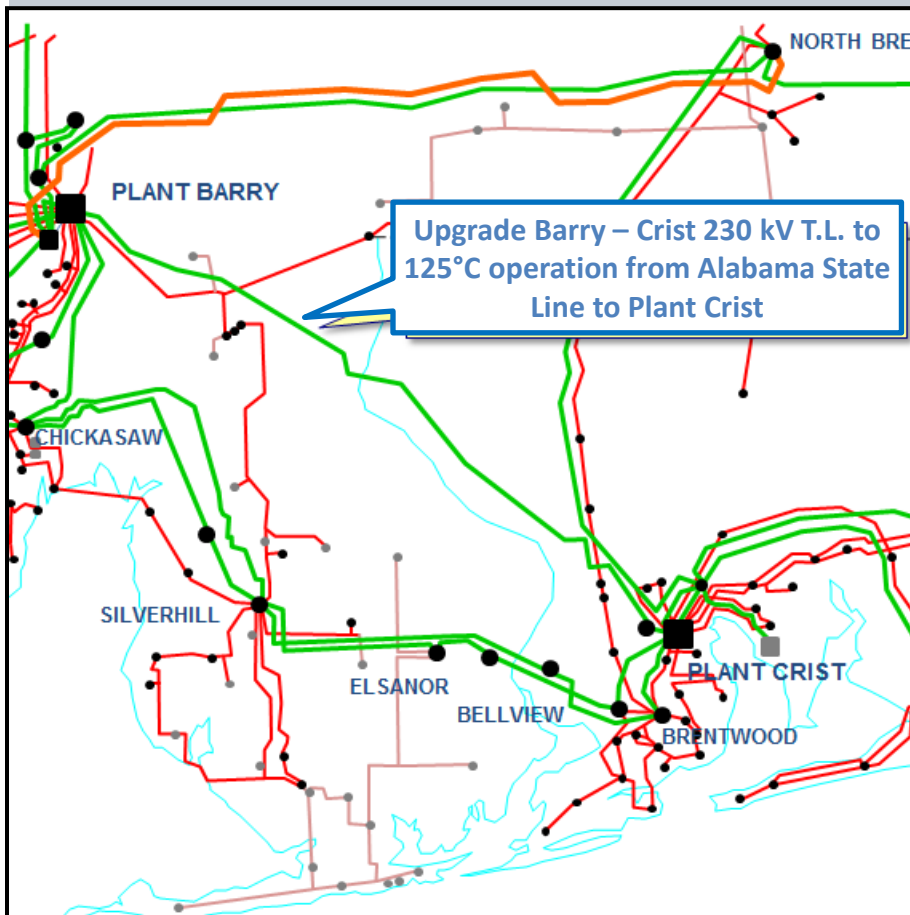
The project provides additional voltage support needed in the area.



SOUTHERN – 2W

2017

BARRY – CRIST 230 KV T.L.

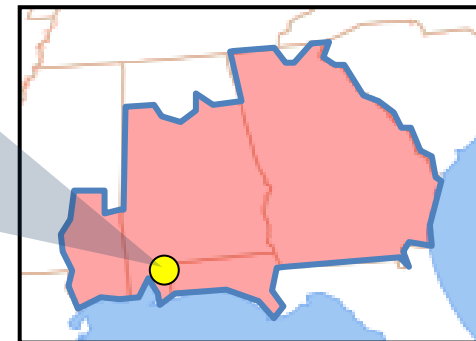


DESCRIPTION:

Upgrade approximately 31.6 miles along the Barry – Crist 230 kv transmission line to 125°C operation.

SUPPORTING STATEMENT:

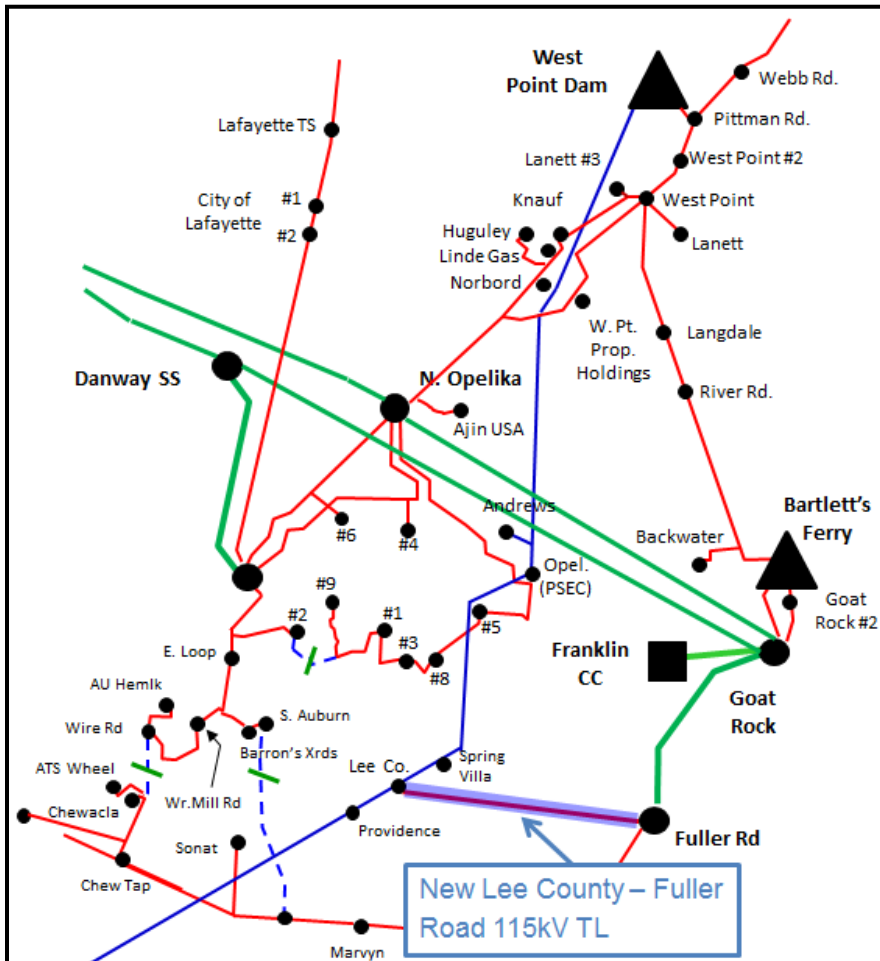
The project provides additional maintenance flexibility.



SOUTHERN – 3W

2018

FULLER ROAD – LEE COUNTY (POWER SOUTH) 115 KV T.L.

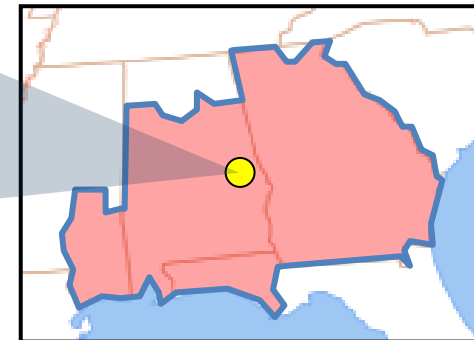


DESCRIPTION:

Construct approximately 13 miles of new 795 ACSR at 100°C 115 kV transmission line from Fuller Road (APC) to Lee County (PowerSouth).

SUPPORTING STATEMENT:

The new Fuller Rd – Lee County 115 kV transmission line will provide greater maintenance flexibility on the N. Opelika TS – Lanett DS 115 kV corridor and reduces high loadings on the Knauff Fiberglass – N. Opelika 115 kV transmission line.



SOUTHERN – 4W

2018

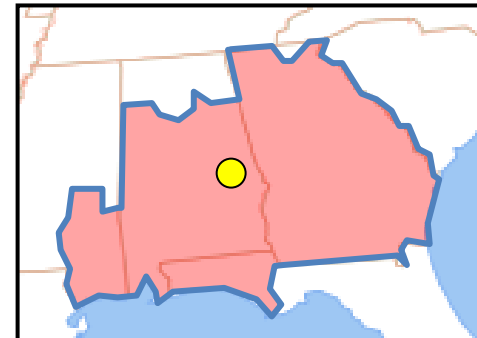
AUBURN – OPELIKA 115 KV T.L. NETWORKING

DESCRIPTION:

- Add four new 115 kV switching stations:
 - a) Near East Loop DS (East Loop SS)
 - b) West of North Auburn (Pear Tree SS)
 - c) Near the Chewacla Tap (Pin Oaks SS)
 - d) West of Marvyn DS intersecting the Fuller Rd – Notasulga and South Auburn 115 kV T.L.'s (Sanford SS).
- Construct approximately 4.0 miles of 115 kV T.L. from Pear Tree SS to Wire Road.
- Reconductor approximately 1.8 miles of 115 kV T.L. line between Opelika #1 and Opelika #3 with 795 ACSR at 100°C.
- Reconductor approximately 14.5 miles of 115 kV T.L. between Sanford SS – Sonat Tap – Pin Oaks – Beehive Tap – Chewacla with 397 ACSS at 200°C.
- Reconductor approximately 6 miles of 115 kV T.L. line between North Auburn – Pear Tree SS with 795 ACSS @ 200°C.

SUPPORTING STATEMENT:

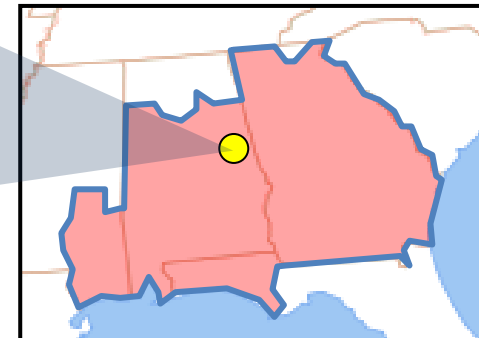
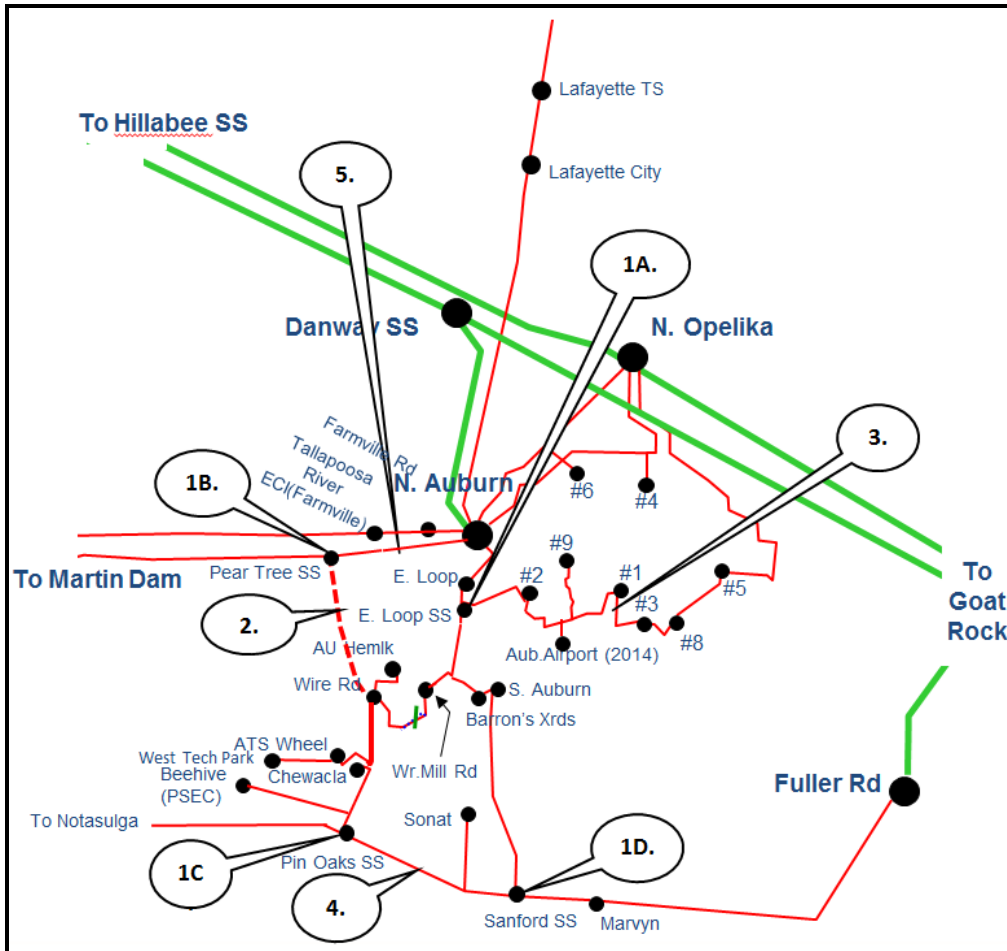
The project provides additional reliability and maintenance flexibility.



SOUTHERN – 4W

2018

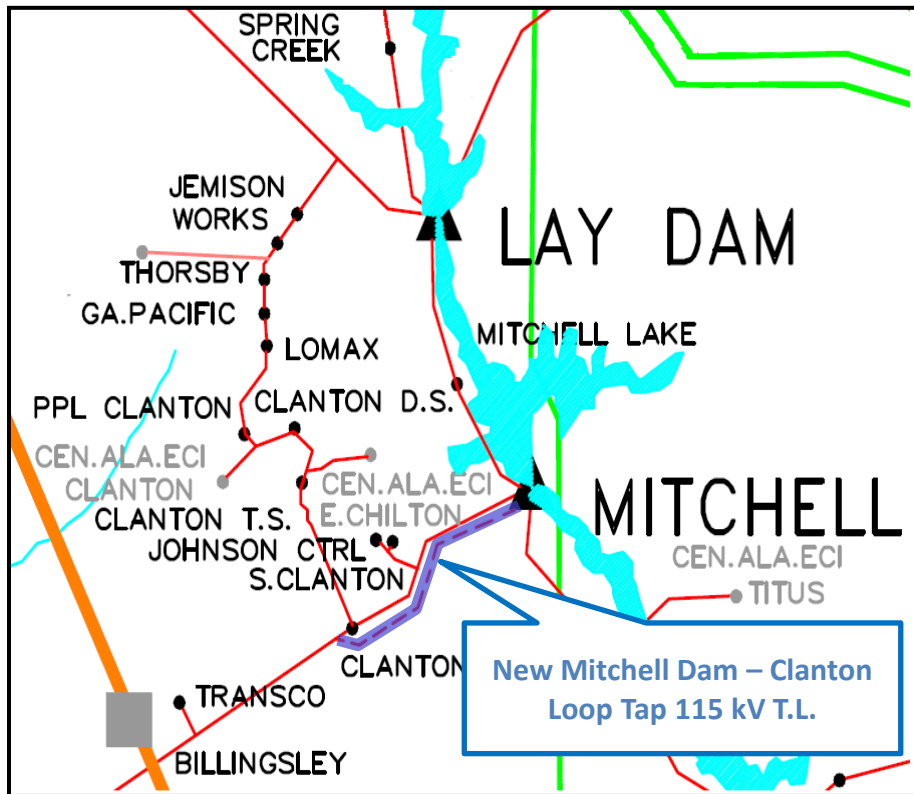
AUBURN – OPELIKA 115 KV T.L. NETWORKING



SOUTHERN – 5W

2018

MITCHELL DAM – CLANTON LOOP TAP 115 KV T.L.

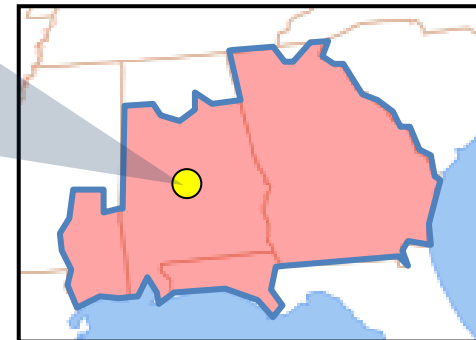


DESCRIPTION:

Construct approximately 10.3 miles of 115 kV transmission line from Mitchell Dam to Clanton Loop Tap with 795 ACSS at 200°C.

SUPPORTING STATEMENT:

The Mitchell Dam – CRH Tap – Clanton Tap 115 kV transmission line overloads under contingency.



SOUTHERN – 6W

2019

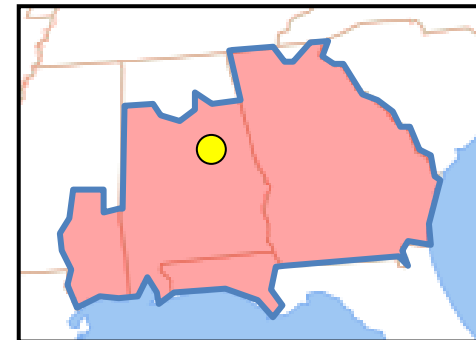
EASTERN AL AREA 115KV PROJECT

DESCRIPTION:

- Reconductor approximately 5.3 miles of 115 kV transmission line between Gulf States Steel and Rainbow City SS with 795 ACSS at 200°C.
- Install new 115 kV switching station around Rainbow City.
- Install new 115kV terminal at Clay TS and upgrade the existing 230/115 kV transformer at Clay TS to 477 MVA.
- Construct approximately 34 miles of 115 kV transmission line between Clay TS and the new Rainbow City SS with 795 ACSS at 200°C

SUPPORTING STATEMENT:

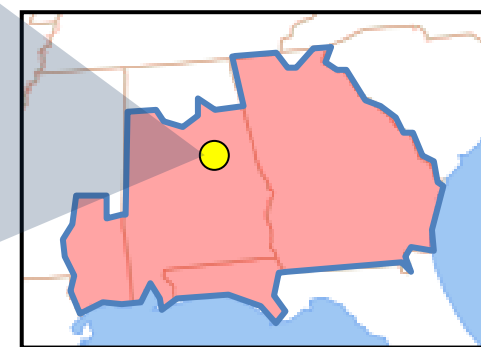
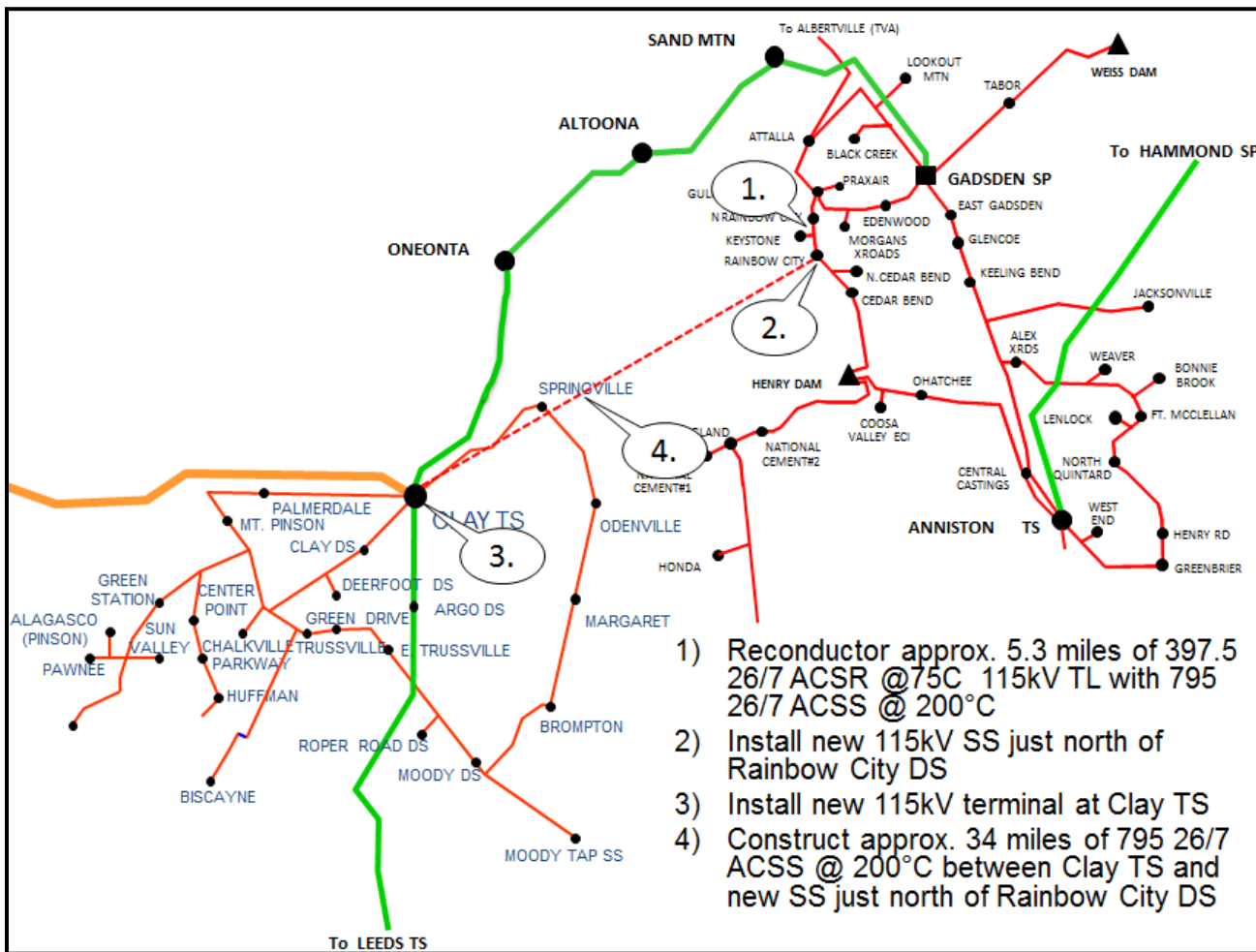
A contingency causes high loadings and hinders maintenance abilities on several 115 kV transmission lines in the Gadsden area.



SOUTHERN – 6W

2019

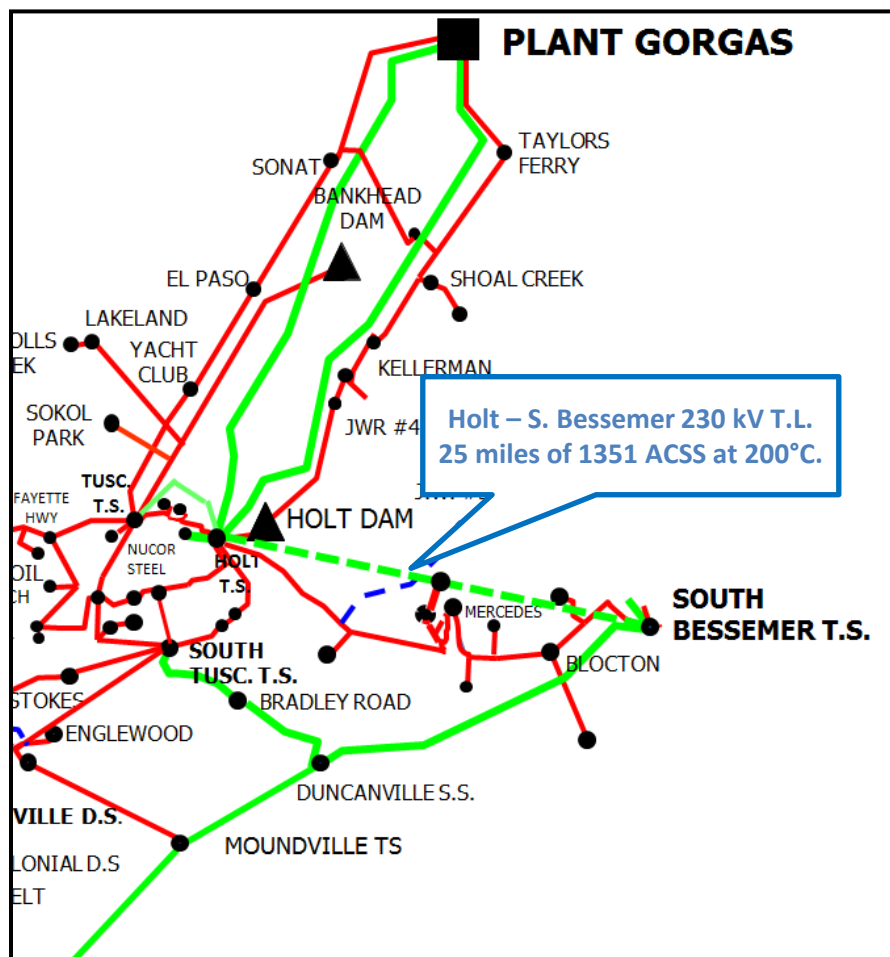
EASTERN AL AREA 115KV PROJECT



SOUTHERN – 7W

2019

HOLT – SOUTH BESSEMER 230 KV T.L.

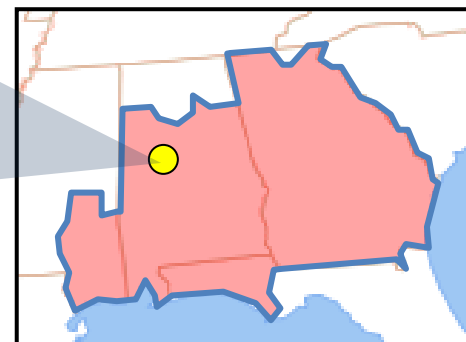


DESCRIPTION:

- Construct approximately 25 miles of 1351 ACSS 230 kV transmission line at 200°C from Holt to South Bessemer.
- Install a 400 MVA, 230/115 kV transformer and connect to existing Daimler DS.
- Install new 115 kV switching station around Daimler DS.

SUPPORTING STATEMENT:

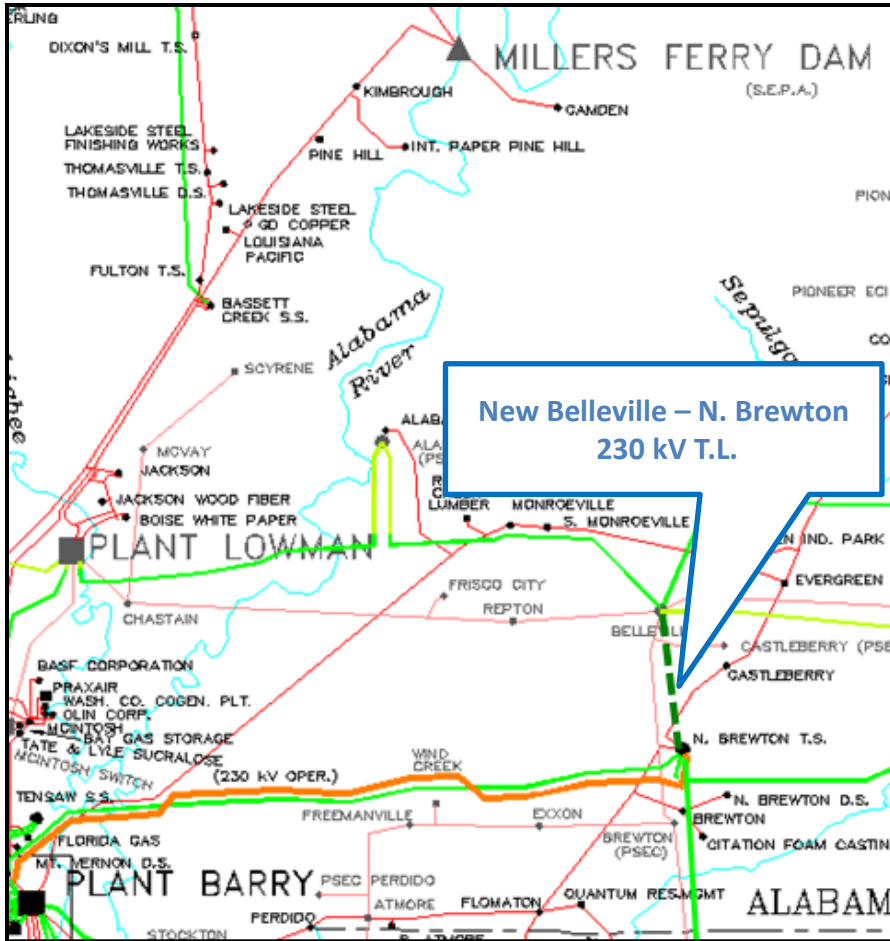
The Holt – Mercedes 115 kV transmission line overloads under contingency. This project also provides increased reliability and maintenance flexibility for the Tuscaloosa Area.



SOUTHERN – 8W

2023

BELLEVILLE – NORTH BREWTON 230 KV T.L.

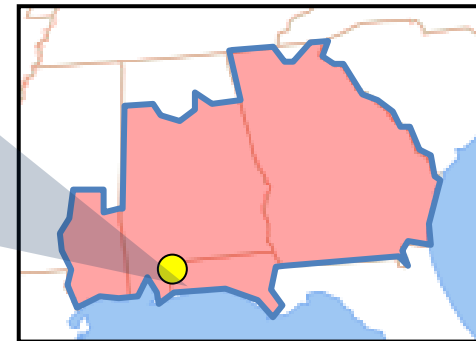


DESCRIPTION:

Construct approximately 15 miles of 230 kV transmission line from Belleville to North Brewton TS with 1351 ACSS at 200°C.

SUPPORTING STATEMENT:

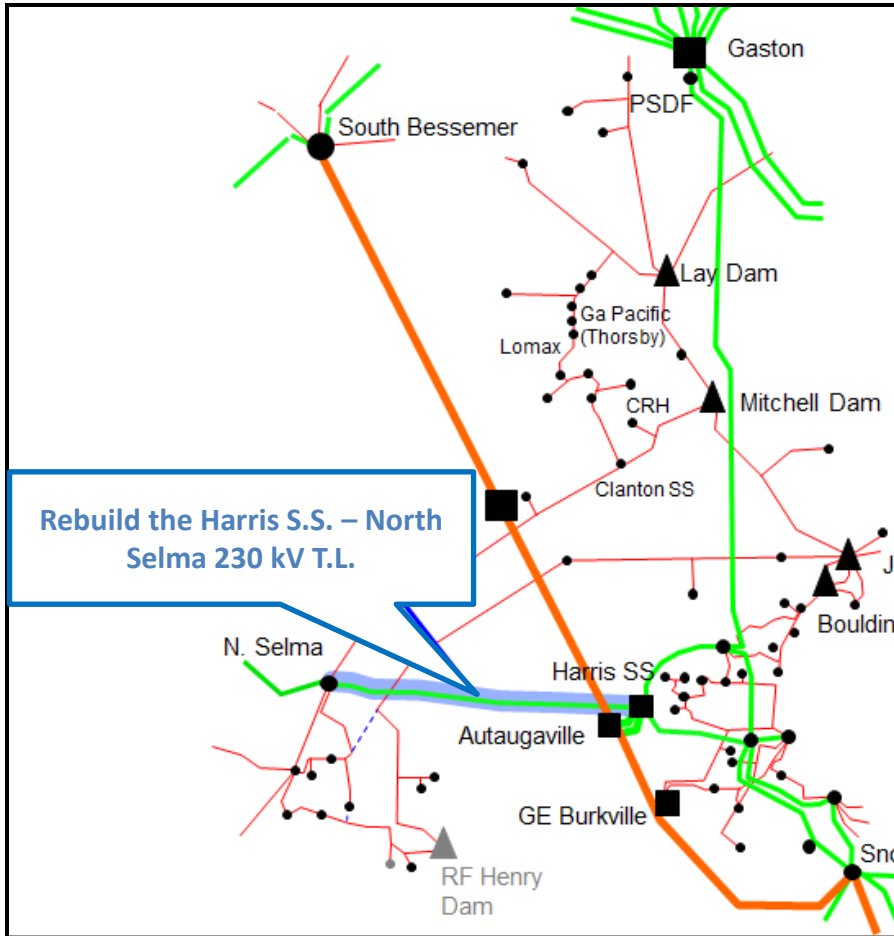
The project provides additional maintenance flexibility.



SOUTHERN – 9W

2023

HARRIS – NORTH SELMA 230 KV T.L.

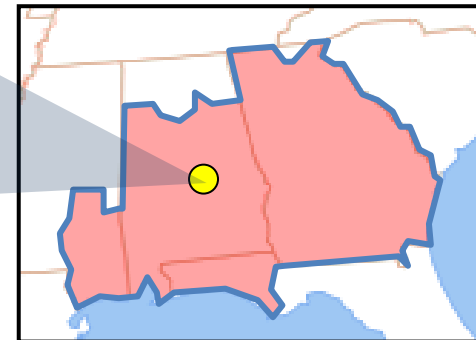


DESCRIPTION:

Rebuild approximately 26 miles of the Autaugaville (Harris SS) – North Selma 230 kV transmission line with 1033 ACSS at 160°C.

SUPPORTING STATEMENT:

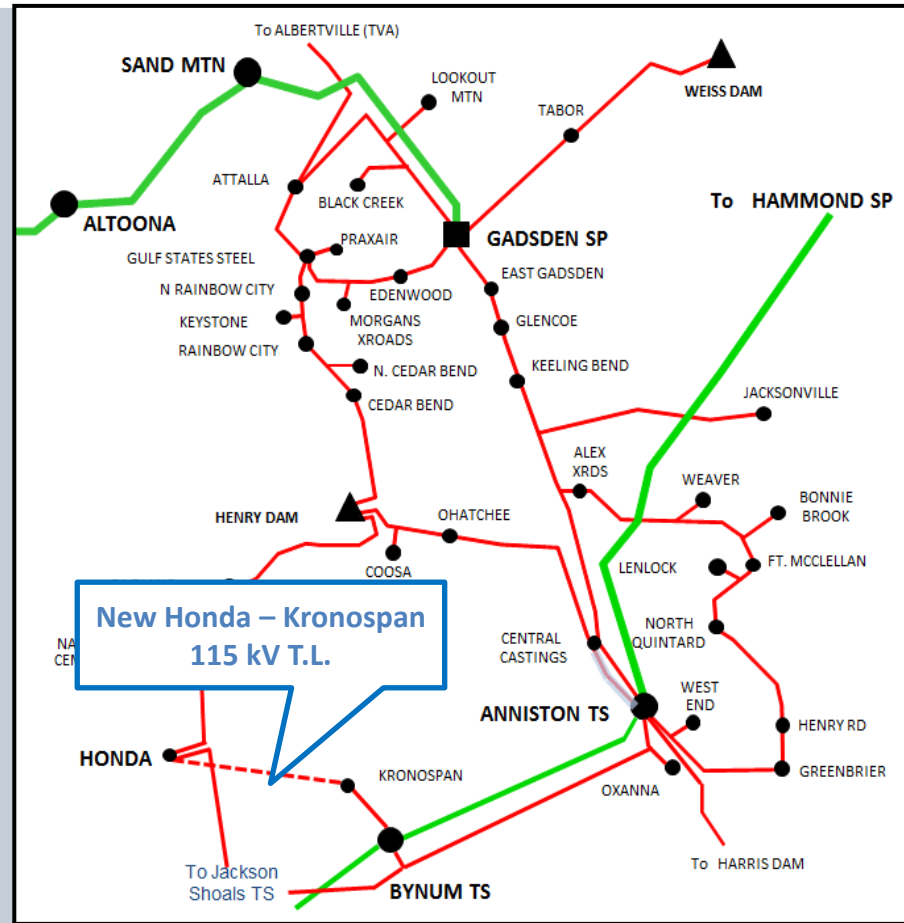
The Harris – North Selma 230 kV transmission line overloads under contingency.



SOUTHERN – 10W

2023

HONDA – KRONOSPAN 115 KV T.L.

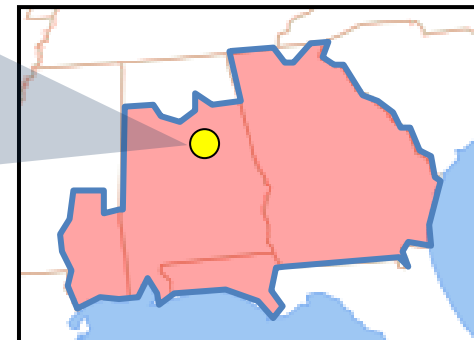


DESCRIPTION:

Construct approximately 10.3 miles of 795 ACSR 115 kV transmission line at 100°C from Honda to Kronospan.

SUPPORTING STATEMENT:

This project provides increased reliability, voltage support, and maintenance flexibility in the area.



SOUTHERN – 11W

2025

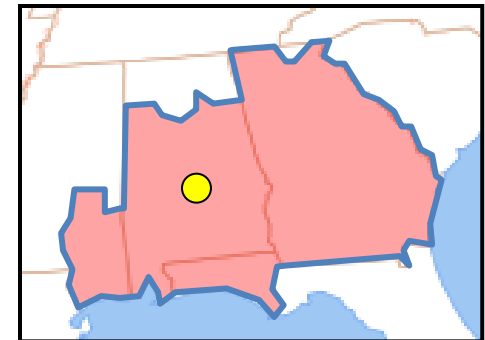
HOPE HULL AREA SOLUTION

DESCRIPTION:

- Construct a new 230/115 kV substation near Hope Hull.
- Construct 5.0 miles of 1351 ACSS 230 kV T.L. at 200°C between Snowdoun and the new 230/115 kV substation.
- Construct 2.5 miles of 795 ACSR 115 kV T.L. between the new 230/115 kV TS and Hyundai Power Transformers.
- Construct 3.0 miles of 795 ACSR 115 kV T.L. at 100°C between the new 230/115 kV TS and West Montgomery – Greenville 115 kV T.L.
- Reconductor 5.0 miles of 397 ACSR of the Pintlala – West Montgomery 115 kV T.L. with 795 ACSR.
- Reconductor 2.7 miles of the Hope Hull Tap – Hyundai Power Transformers 115 kV T.L. with 795 ACSR.

SUPPORTING STATEMENT:

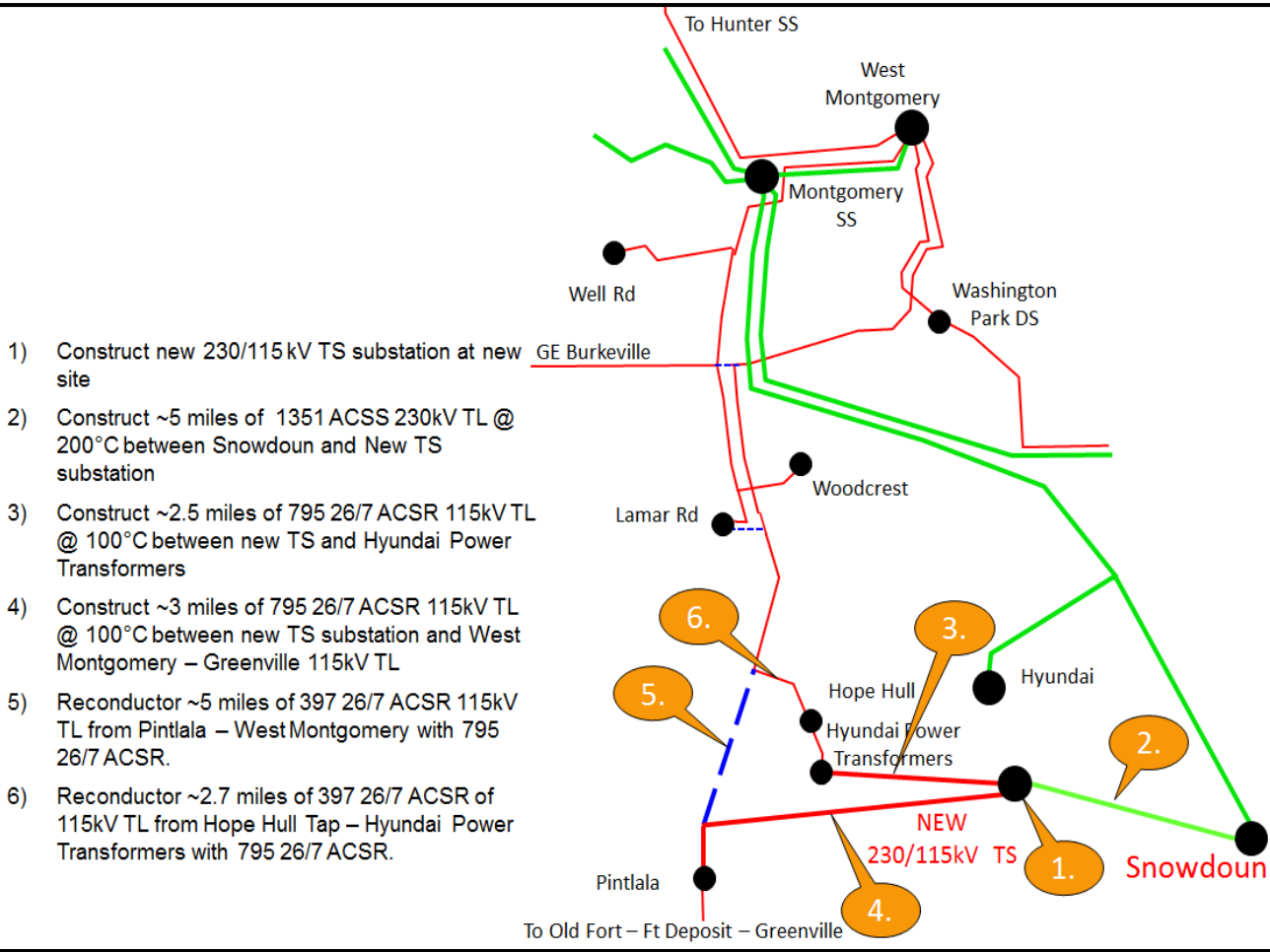
Provides increased reliability and additional maintenance flexibility.



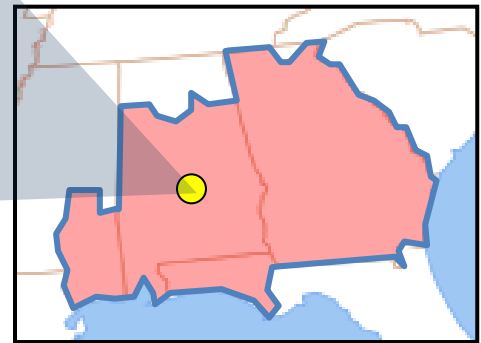
SOUTHERN – 11W

2025

HOPE HULL AREA SOLUTION



- 1) Construct new 230/115 kV TS substation at new site
- 2) Construct ~5 miles of 1351 ACSS 230kV TL @ 200°C between Snowdown and New TS substation
- 3) Construct ~2.5 miles of 795 26/7 ACSR 115kV TL @ 100°C between new TS and Hyundai Power Transformers
- 4) Construct ~3 miles of 795 26/7 ACSR 115kV TL @ 100°C between new TS substation and West Montgomery – Greenville 115kV TL
- 5) Reconductor ~5 miles of 397 26/7 ACSR 115kV TL from Pintala – West Montgomery with 795 26/7 ACSR.
- 6) Reconductor ~2.7 miles of 397 26/7 ACSR of 115kV TL from Hope Hull Tap – Hyundai Power Transformers with 795 26/7 ACSR.

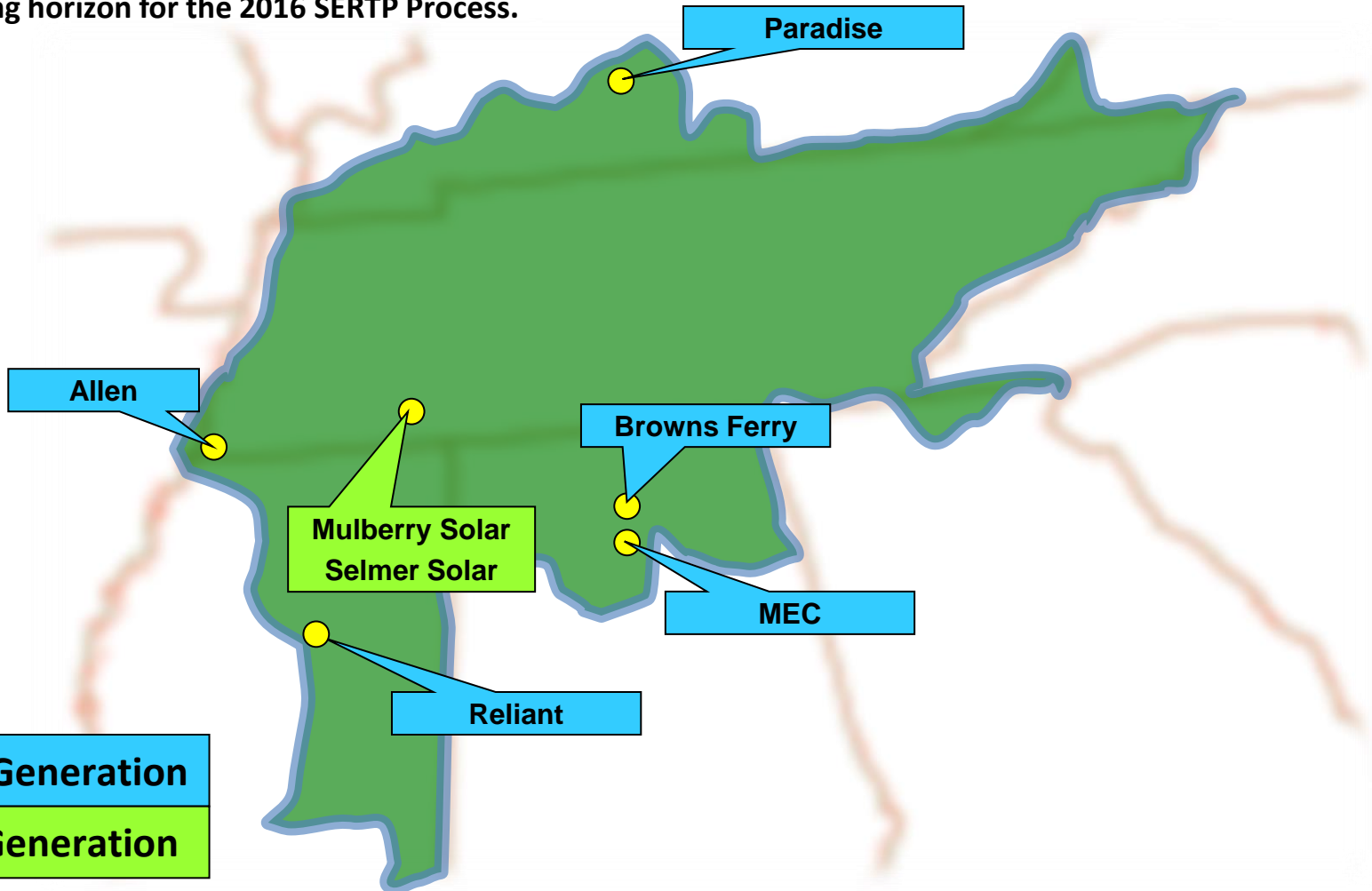


TVA Balancing Authority

2016 Generation Assumptions

TVA – Generation Assumptions

The following diagram depicts the location of generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process.



TVA – Generation Assumptions

The following table depicts the generation assumptions that change throughout the ten year planning horizon for the 2016 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
MEC	615	615	615	615	615	615	615	615	615	615
MULBERRY SOLAR	16	16	16	16	16	16	16	16	16	16
PARADISE 1-2	0	--	--	--	--	--	--	--	--	--
PARADISE CC	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015
SELMER SOLAR	16	16	16	16	16	16	16	16	16	16
ALLEN 1-3	741	0	--	--	--	--	--	--	--	--
ALLEN CC	--	1082	1082	1082	1082	1082	1082	1082	1082	1082
BROWNS FERRY UNIT 3	1108	1242	1242	1242	1242	1242	1242	1242	1242	1242
BROWNS FERRY UNIT 1	1103	1103	1237	1237	1237	1237	1237	1237	1237	1237
BROWNS FERRY UNIT 2	1108	1108	1242	1242	1242	1242	1242	1242	1242	1242

TVA– Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected long-term firm point-to-point commitments. The years shown represent Summer Peak conditions.

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
RELIANT	525	525	525	525	525	525	525	525	525	525

TVA Balancing Authority

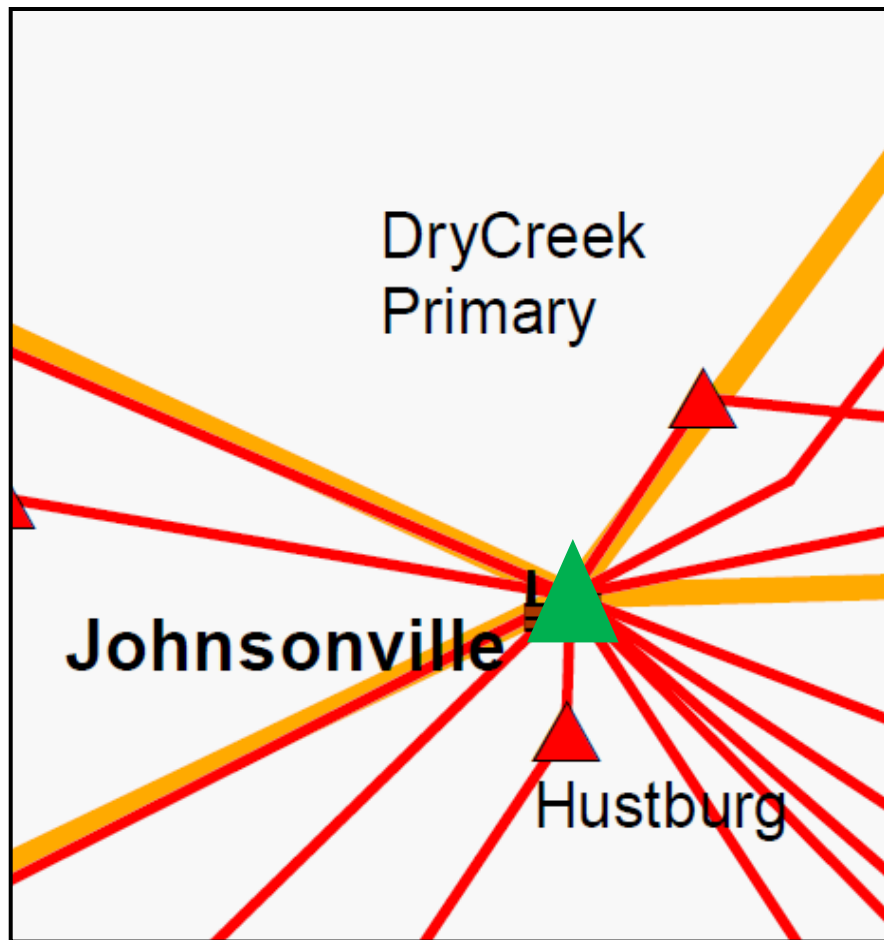
Preliminary Transmission

Expansion Plan

TVA – 1

2017

JOHNSONVILLE FP SUBSTATION

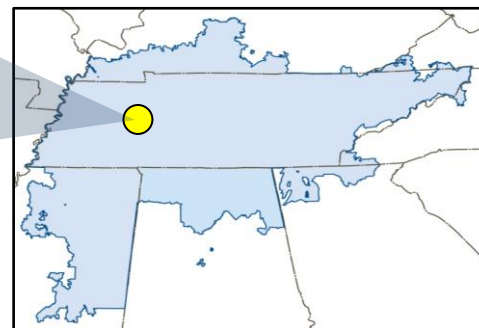


DESCRIPTION:

- Install a 500/161 kV inter-tie transformer bank.
- Install a capacitor bank of 5, 36 MVAR capacitors.
- Reconfigure the Johnsonville Fossil Plant Substation.

SUPPORTING STATEMENT:

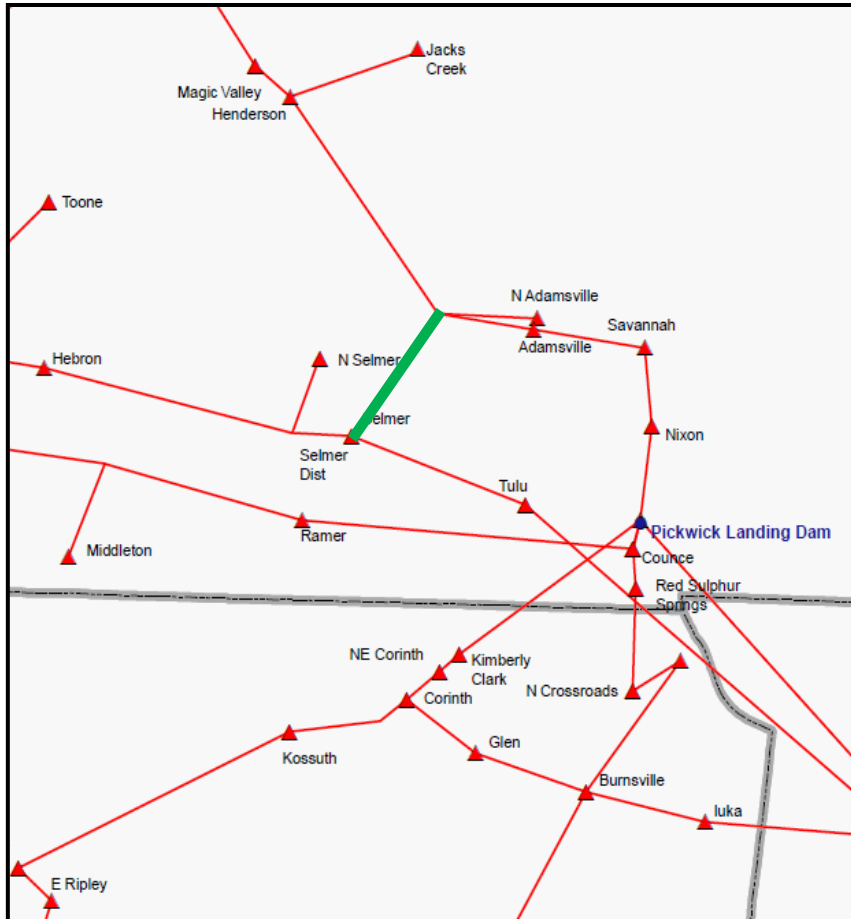
The retirement of Johnsonville units 1-10 requires the replacement of the 500/161 kV inter-tie transformer bank at Johnsonville. Also, additional voltage support is needed in the Johnsonville area.



TVA – 2

2017

SELMER – WEST ADAMSVILLE 161 KV T.L.

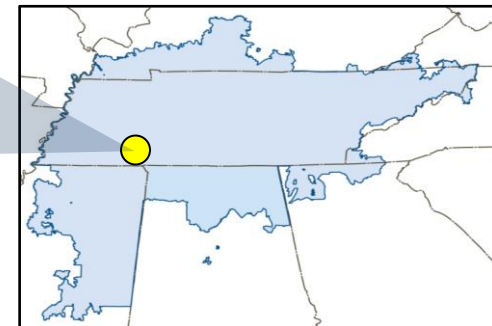


DESCRIPTION:

Construct approximately 15 miles of 161 kV transmission line from Selmer to W. Adamsville with 954 ACSR at 100°C.

SUPPORTING STATEMENT:

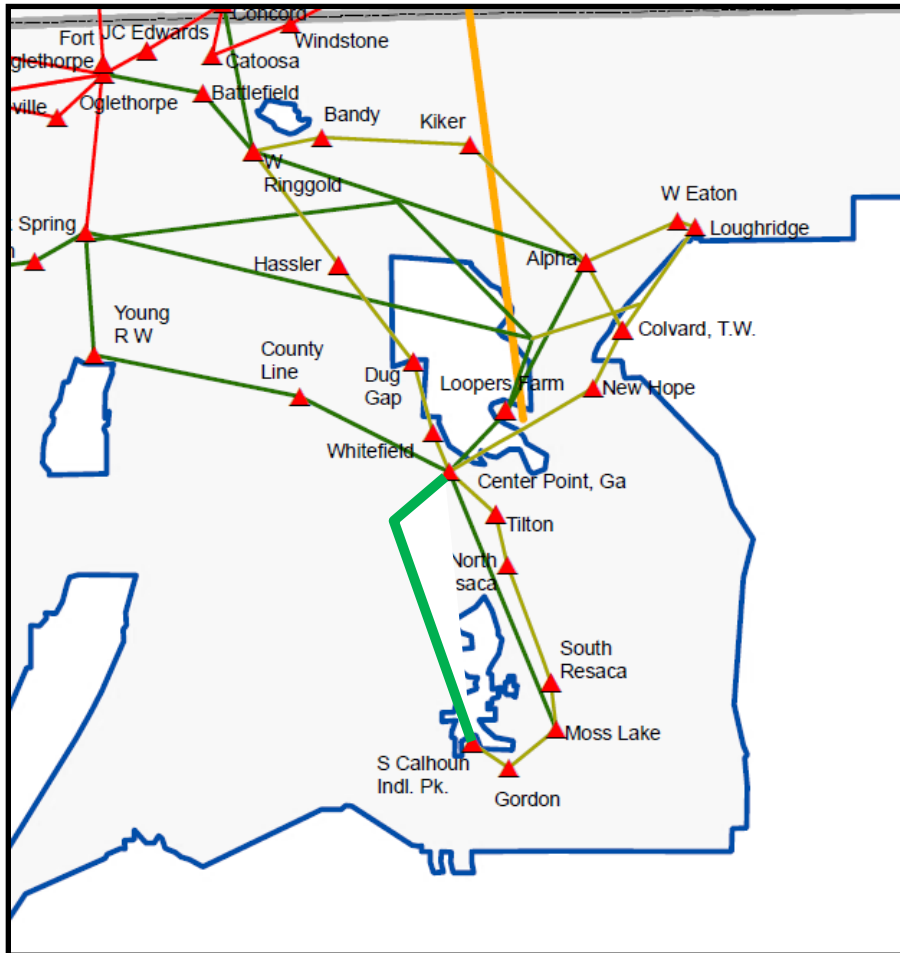
Additional voltage support needed in the Bolivar, TN area under contingency.



TVA – 3

2017

CALHOUN AREA IMPROVEMENT 115 KV T.L.

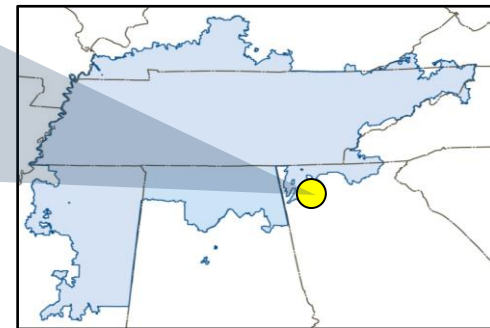


DESCRIPTION:

Construct approximately 19.2 miles of new 115 kV transmission line to create the Swamp Creek – Fuller 115 kV transmission line with 1351.5 ACSR at 100°C.

SUPPORTING STATEMENT:

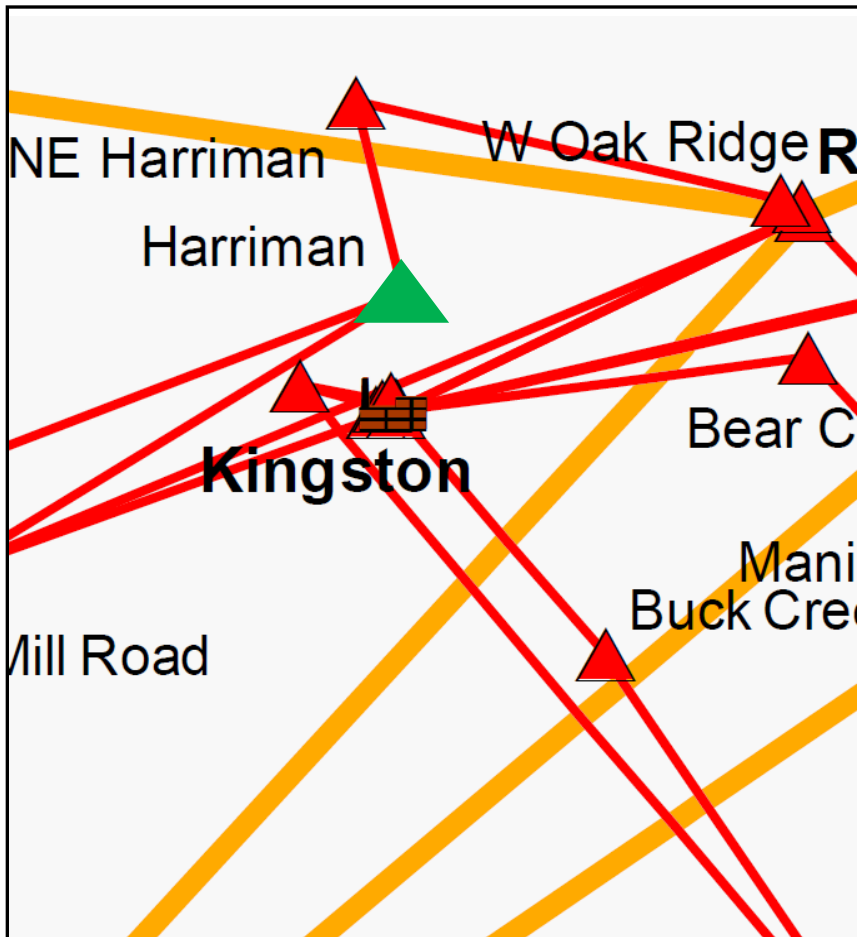
Additional voltage support needed in the northern GA area under contingency.



TVA – 4

2018

HARRIMAN, TN 161 KV SUBSTATION

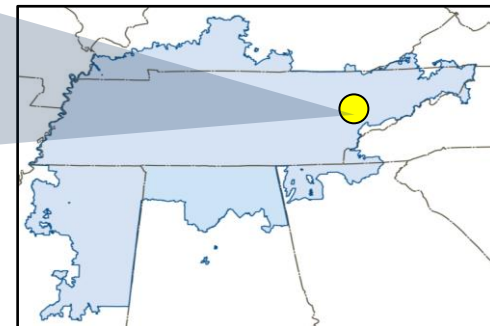


DESCRIPTION:

Reconfigure the Harriman, TN 161 kv substation by looping an additional 161 kv transmission line into the substation and installing 3, 161 kv breakers.

SUPPORTING STATEMENT:

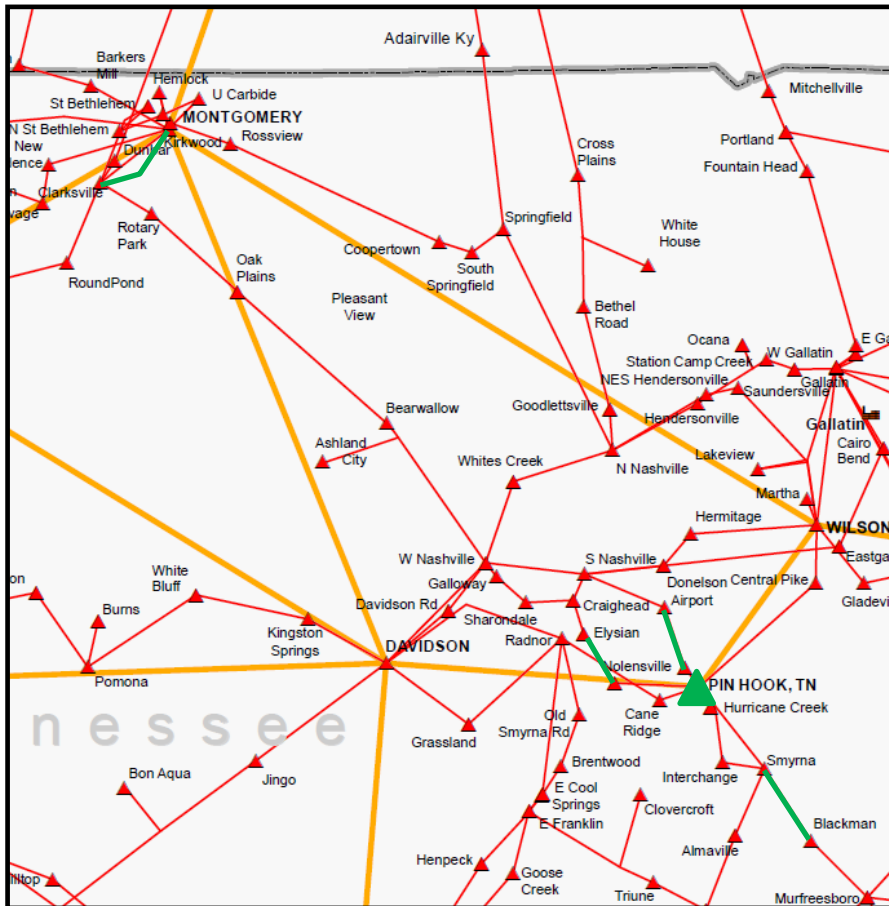
Additional voltage support is needed in the Harriman, TN area under contingency.



TVA – 5

2018

NASHVILLE AREA IMPROVEMENT PLAN

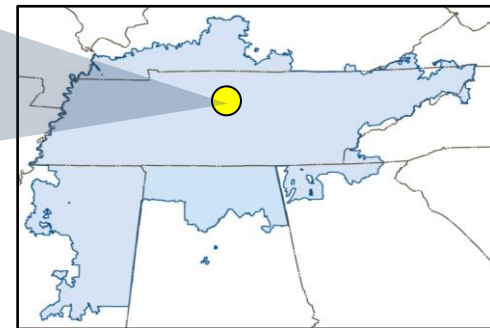


DESCRIPTION:

Install an additional 1344 MVA, 500/161 kV transformer bank at the Pin Hook 500 kV substation. Reconductor the Nolensville Road – Elysian Fields 161 kV T.L. with 636 ACSS at 150°C. Reconductor the Murfreesboro Road – Airport 161 kV T.L. with 636 ACSS at 150°C. Reconductor the Blackman Tap – Smyrna 161 kV T.L. with 636 ACSS at 150°C. Construct the Montgomery – Clarksville #3 161 kV T.L. with 1590 ACSS at 150°C.

SUPPORTING STATEMENT:

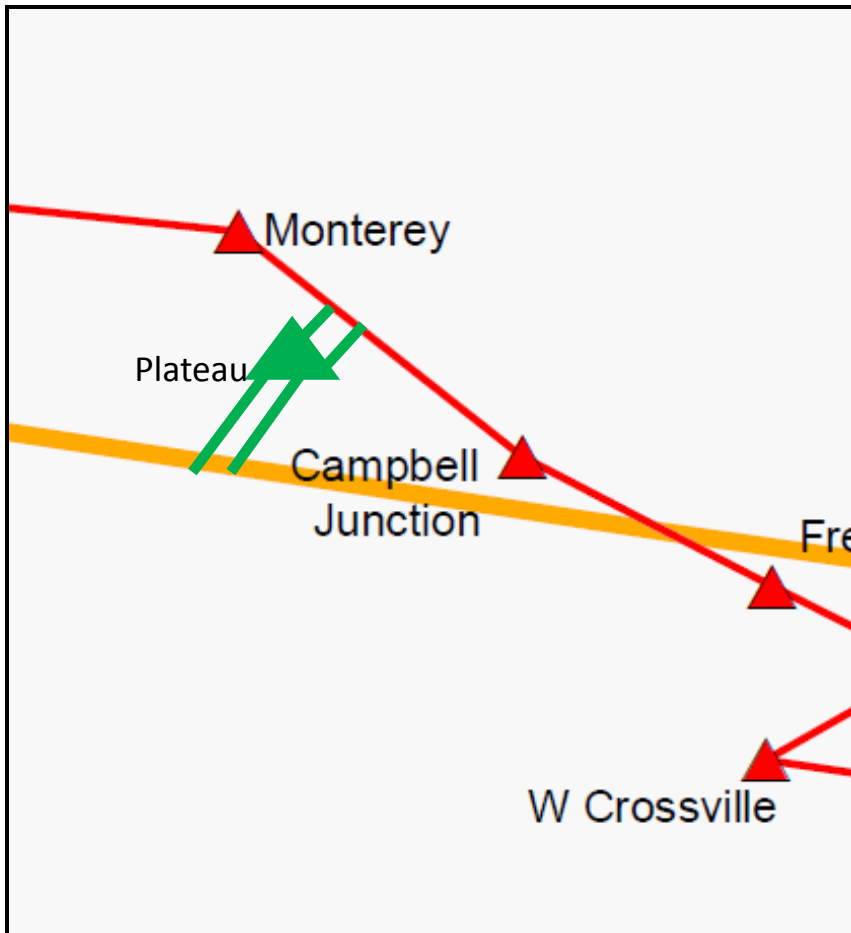
Thermal overloads and additional voltage support needed in the Nashville area under contingency.



TVA – 6

2018

PLATEAU 500 KV SUBSTATION

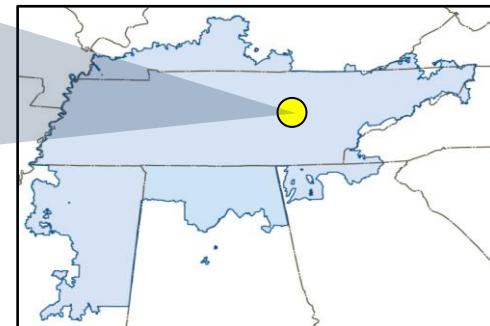


DESCRIPTION:

Construct the Plateau 500 kV substation by looping in the Wilson – Roane 500 kV and West Cookeville – Rockwood 161 kV transmission lines.

SUPPORTING STATEMENT:

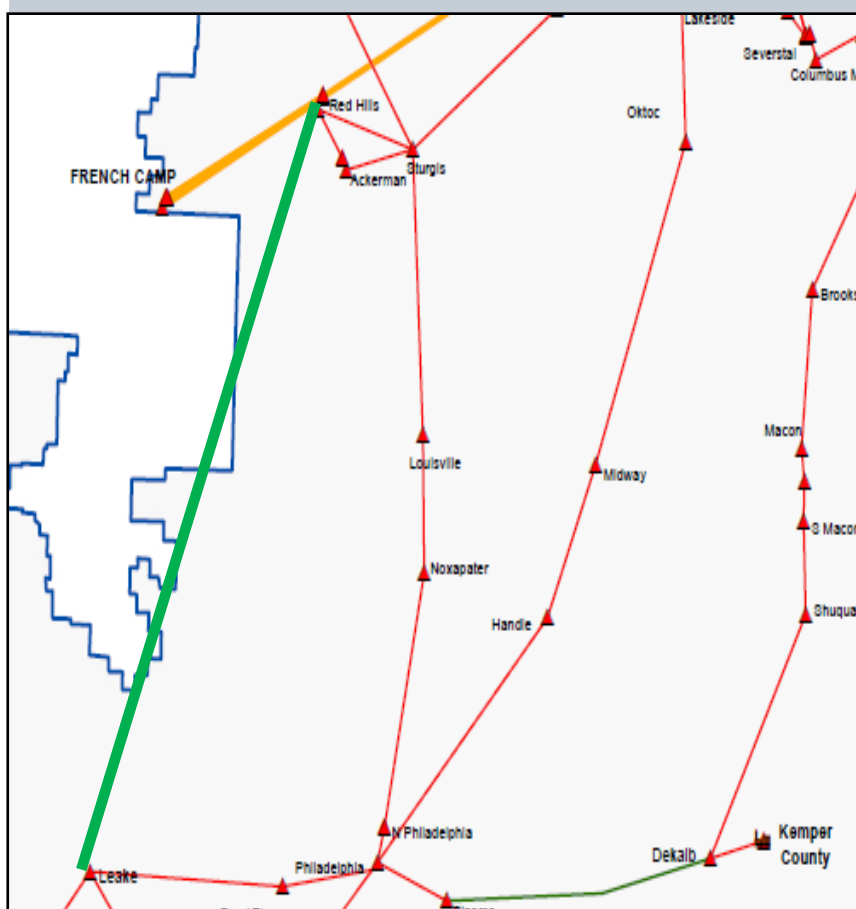
Thermal overload and need for additional voltage support in the Murfreesboro, TN and Knoxville, TN areas under contingency.



TVA – 7

2019

RED HILLS – LEAKE 161 KV T.L.

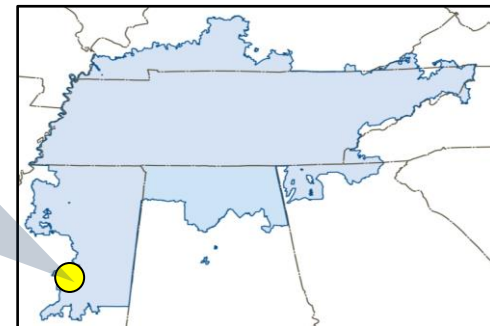


DESCRIPTION:

Construct approximately 60 miles of 161 kv transmission line from Red Hills to Leake with 954 ACSR at 100°C.

SUPPORTING STATEMENT:

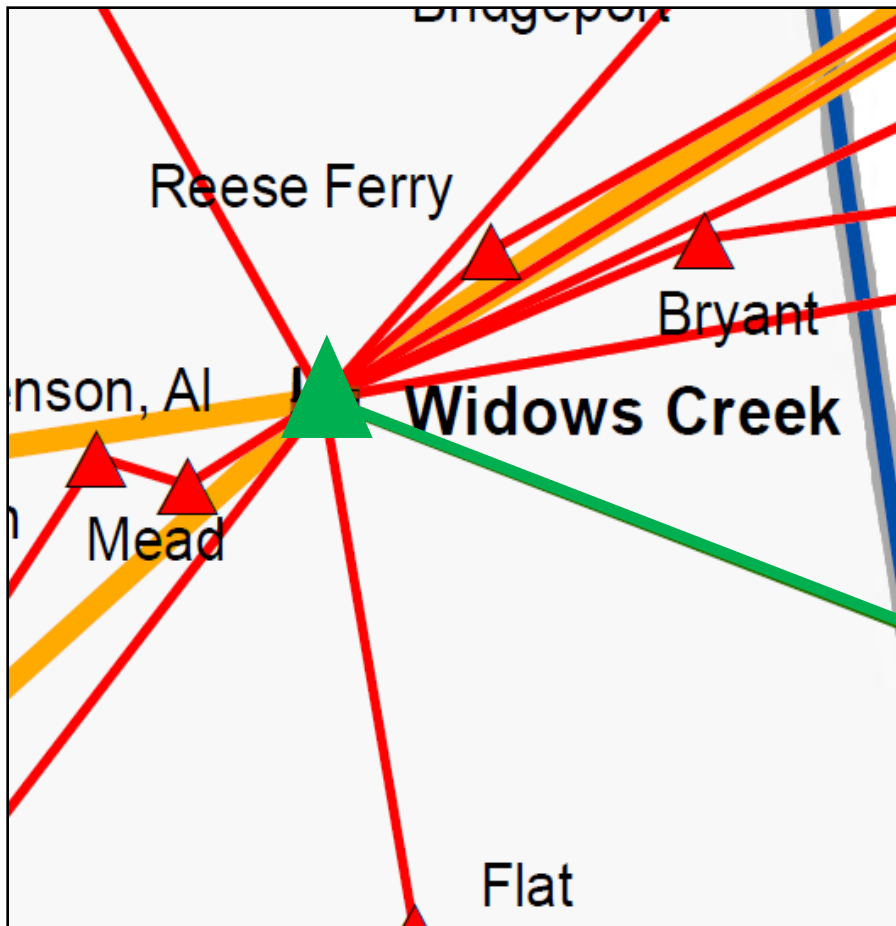
Multiple 161 kv transmission lines in the lower MS area overload under contingency and additional voltage support is needed in the lower MS area under contingency.



TVA – 8

2019

WIDOWS CREEK FP SUBSTATION

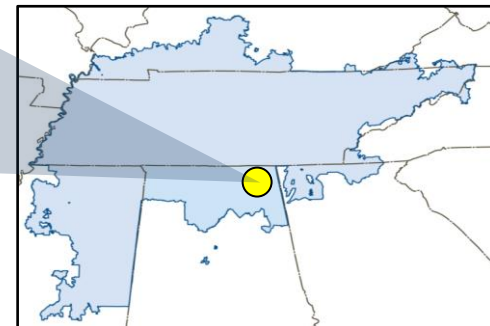


DESCRIPTION:

Install a second 500/161 kV transformer at the Widows Creek Fossil Plant substation.

SUPPORTING STATEMENT:

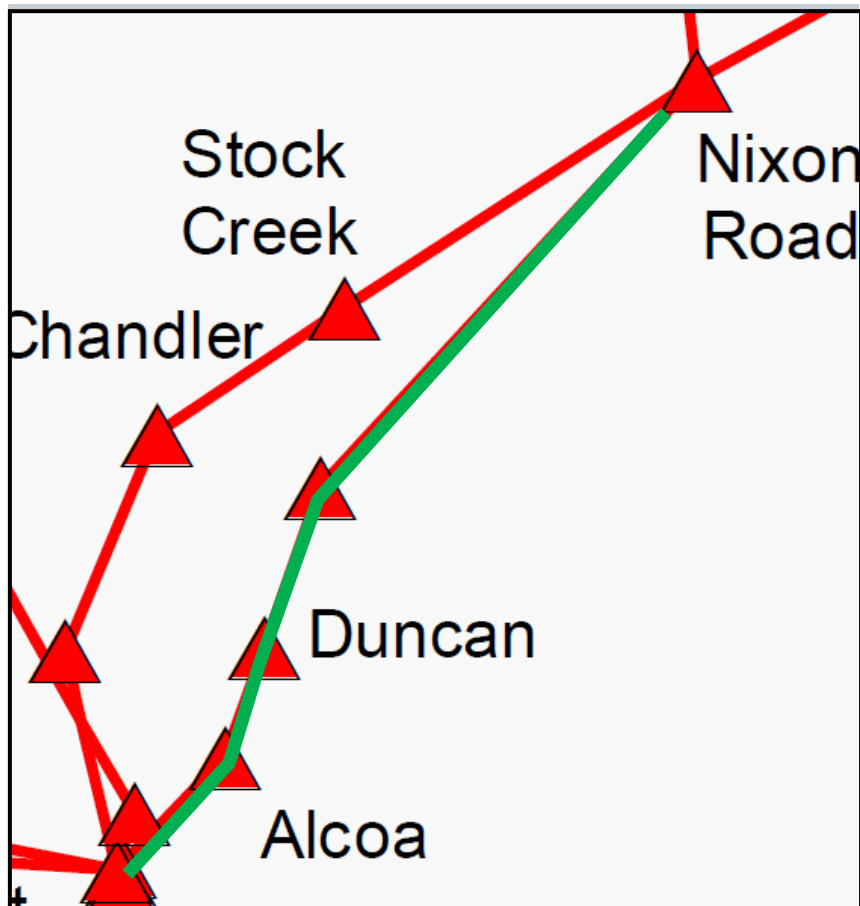
Multiple transmission lines overload and additional voltage support needed in the Huntsville, AL area under contingency.



TVA – 9

2020

ALCOA SS – NIXON ROAD 161 KV T.L.

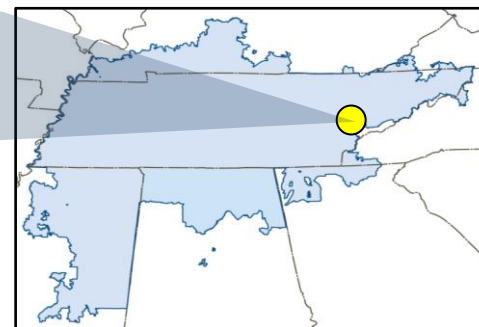


DESCRIPTION:

Rebuild approximately 12 miles of the Alcoa North – Nixon Road 161 kV transmission line with 1590 ACSR at 100°C and construct approximately 2 miles of new transmission line to create the Alcoa SS – Nixon Rd 161 kV #2 transmission line.

SUPPORTING STATEMENT:

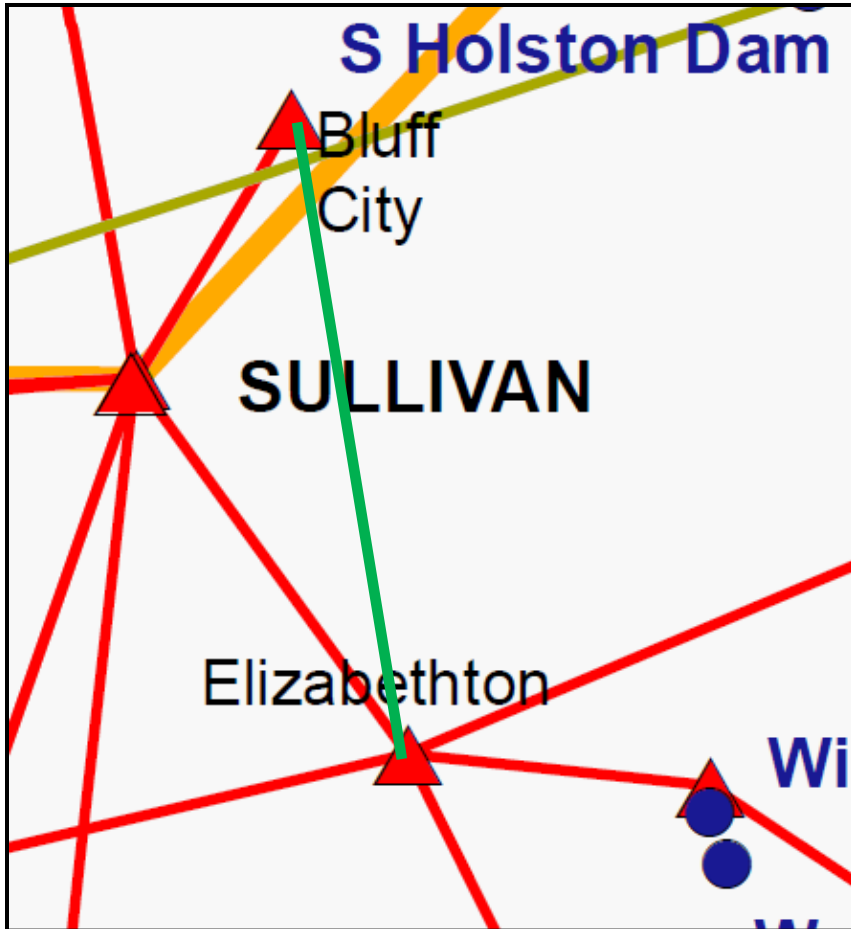
The Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.



TVA – 10

2020

BLUFF CITY – ELIZABETHTON 161 KV T.L.

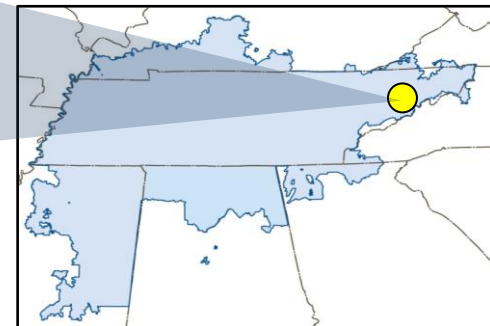


DESCRIPTION:

Construct approximately 12 miles of 161 kV transmission line from Bluff City to Elizabethton with 954 ACSR at 100°C.

SUPPORTING STATEMENT:

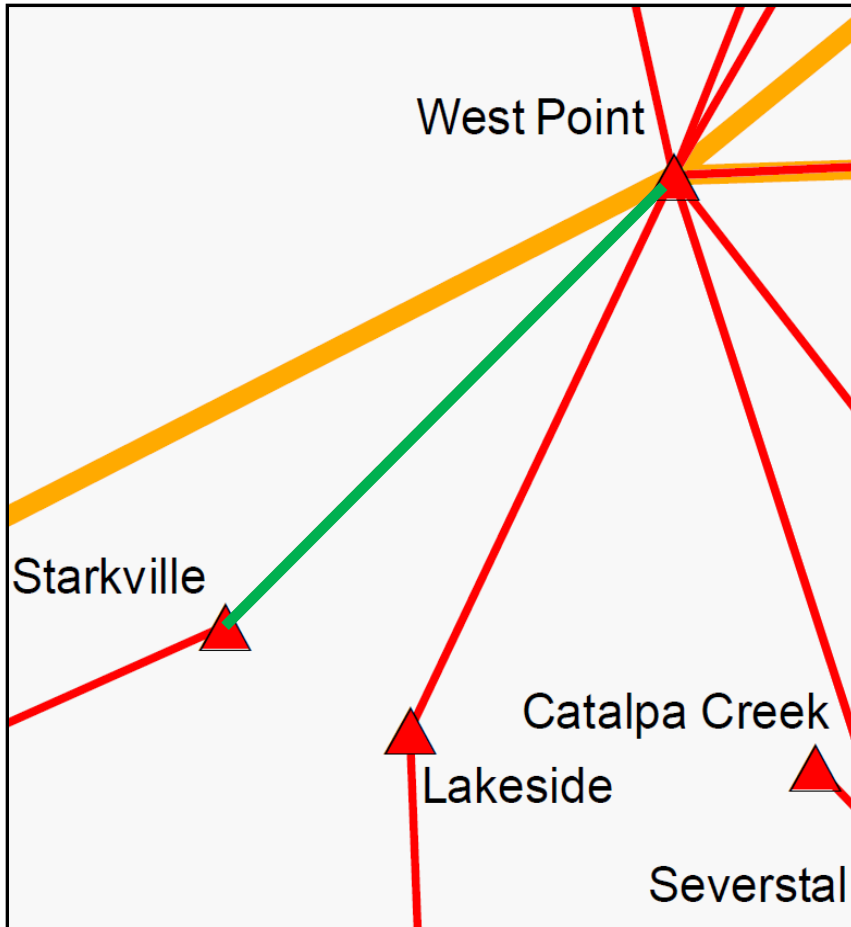
Additional voltage support is needed in the Elizabethton, TN area under contingency.



TVA – 11

2021

WEST POINT – STARKVILLE 161 KV T.L.

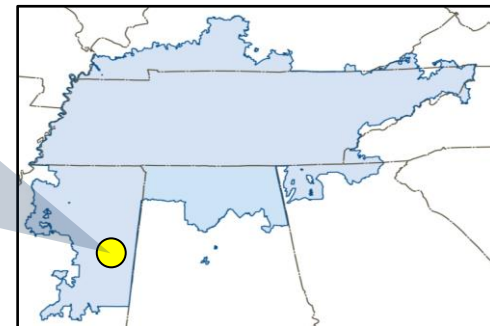


DESCRIPTION:

Reconductor approximately 14 miles of the West Point – Starkville 161 kV transmission line with 954 ACSS at 125°C.

SUPPORTING STATEMENT:

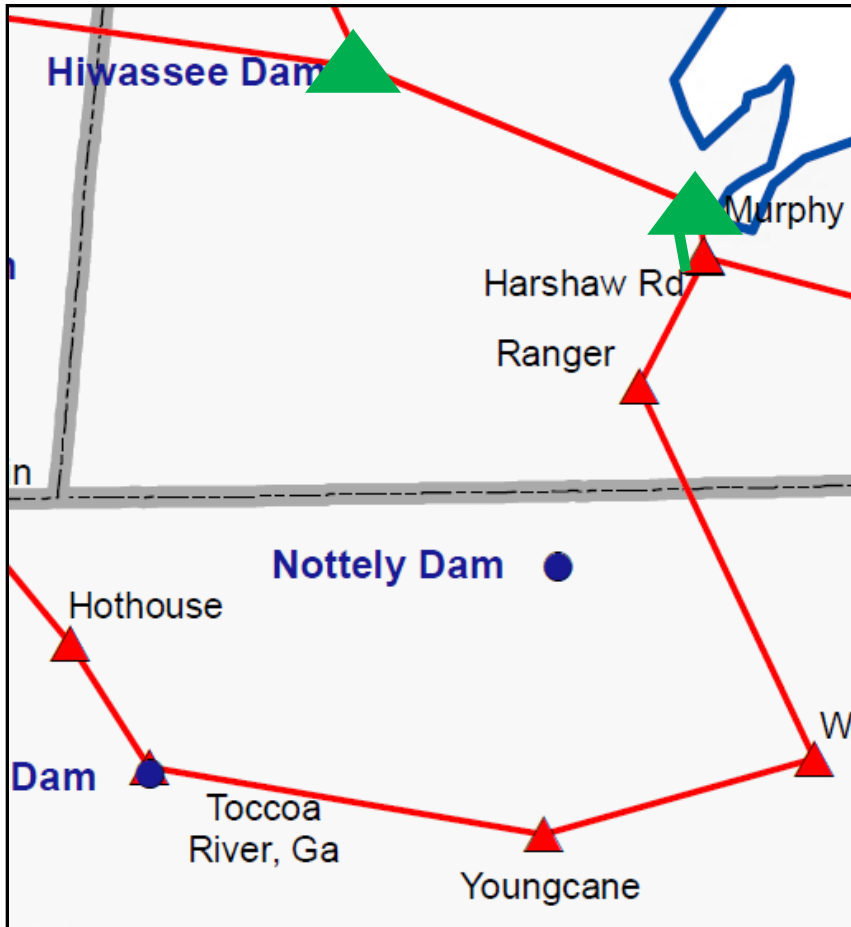
The West Point – Starkville 161 kV transmission line overloads under contingency.



TVA – 12

2025

HIWASSEE HP AND MURPHY 161 KV SUBSTATION

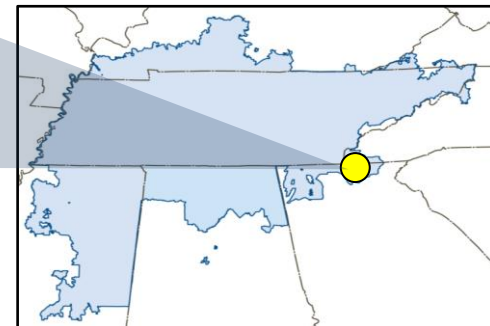


DESCRIPTION:

Install additional breakers at the Hiwassee HP and Murphy, NC 161 kV Substations. Construct approximately 2 miles of transmission line from the Murphy 161 kV Substation to Harshaw Road 161 kV Substation with 954 ACSR at 100°C.

SUPPORTING STATEMENT:

Additional voltage support is needed in the area under contingency.



SERTP

Miscellaneous Updates

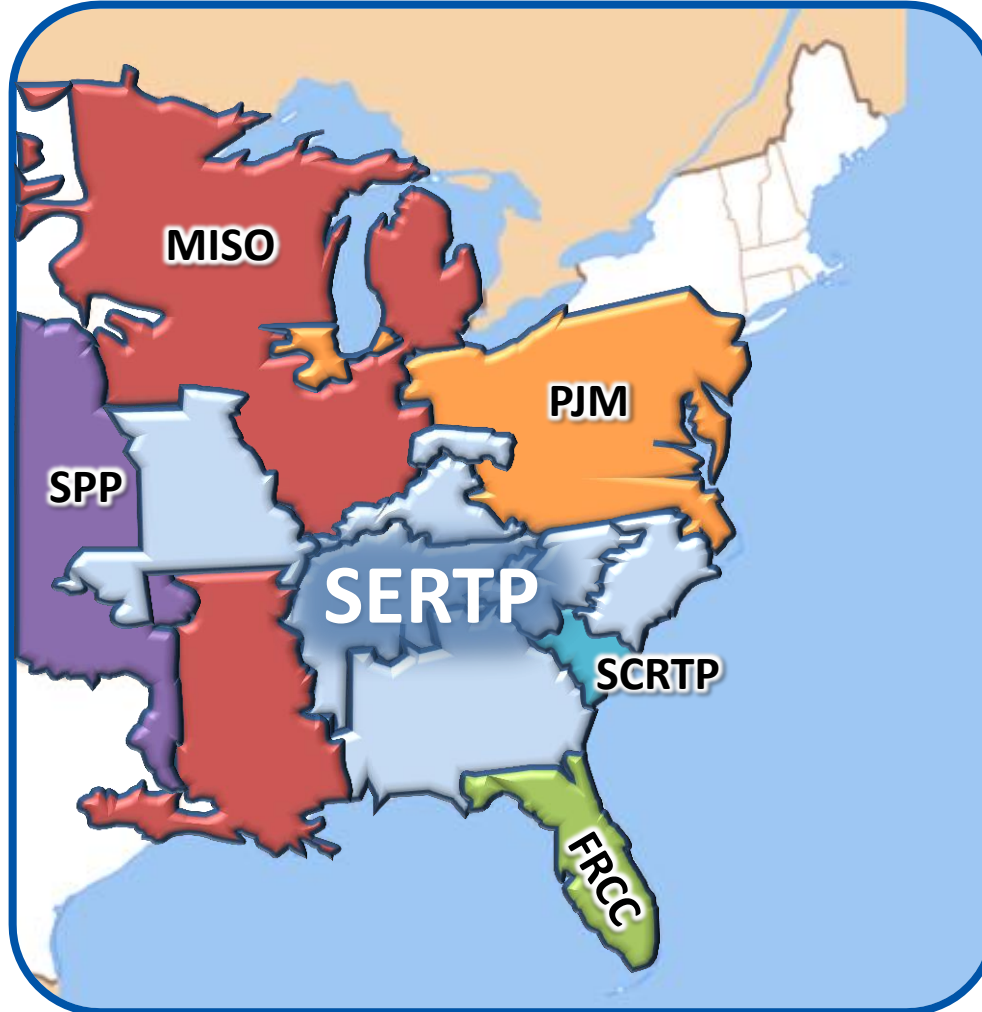
Regional Analyses Update

- **Sponsors are currently developing a list of potential alternative transmission projects to evaluate in the 2016 regional analyses**
- **These projects are generally developed by identifying areas with multiple forecasted transmission projects which could be potentially displaced by a regional transmission project**

Regional Model Update

- **Currently exchanging the latest transmission models for the ten year planning horizon with FRCC.**
- **FRCC models will be incorporated into subsequent base cases.**

Interregional Update



Interregional Update

- Latest interregional coordination procedures are posted on the [SERTP website](#)
- Biennial regional plan review meetings have occurred along the FRCC, MISO, PJM, and SCRTP seams. A similar review is scheduled with SPP.

Next Meeting Activities

- **2016 SERTP 3rd Quarter Meeting** – *Second RPSG Meeting*
 - **Location:** Chattanooga, TN
 - **Date:** September 2016
 - **Purpose:**
 - Discuss Preliminary Economic Planning Study Results
 - Discuss Previous Stakeholder Input on Transmission Expansion Plans

Questions?

www.southeasternrtp.com