

# **PJM – SERTP**

## ***Order 1000 Biennial Regional Transmission Plan Review Meeting***

**April 26<sup>th</sup>, 2016**

**Georgia Power Headquarters**

**Atlanta, GA**

## Agenda

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- **SERTP – Process Overview**
  - Background
  - SERTP Region Scope
  - Processes and Timelines
- **2015 SERTP Regional Transmission Plan – PJM Seam**
- **SERTP Modeling Input Assumptions**

# SERTP

## Process Overview

## SERTP Background

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### **Southeastern Regional Transmission Planning Process (SERTP)**

- **Originally formed in 2007 to comply with FERC Order 890**
- **Provides open and transparent transmission planning forum for transmission providers to engage with stakeholders regarding transmission plans in the region**
- **Region has expanded several times in both size and scope since formation (most recently in 2014) to currently include 10 Sponsor utilities**
- **Began regional implementation of Order 1000 requirements on June 1, 2014**
- **Began interregional implementation of Order 1000 on January 1, 2015**

## SERTP Region

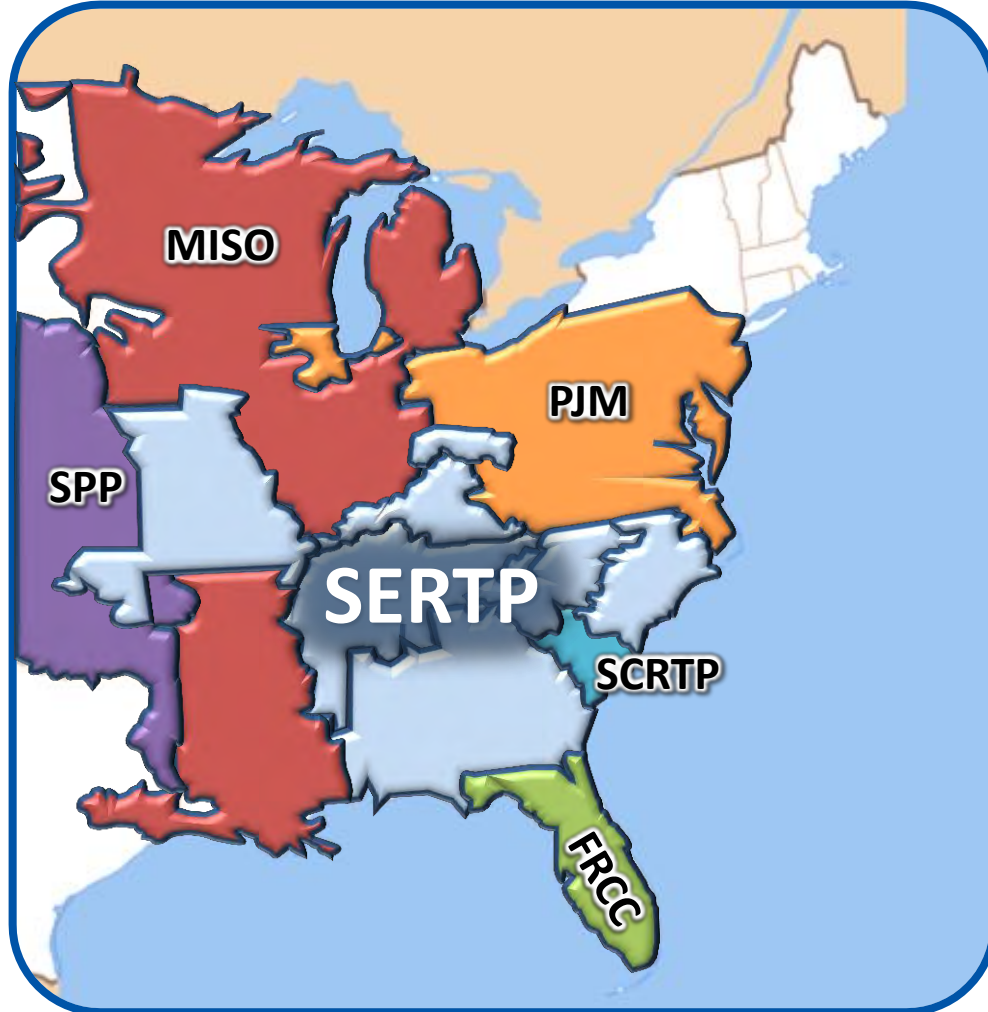


## SERTP Sponsors

-  AECI
-  Dalton
-  Duke Energy
-  GTC
-  LG&E / KU
-  MEAG
-  OVEC
-  PowerSouth
-  Southern
-  TVA

- Spans portions of 14 states
- Includes 9 BAAs
- ~ 90,000 miles of transmission lines

## Interregional Seams



## SERTP Regional Models

- SERTP Sponsors develop 12 coordinated regional models
- Models include latest transmission planning model information within the SERTP region
- Typically 3 versions created annually
- Available on the [Secure Area](#) of the SERTP website upon satisfying access requirements

No.	Season	Year
1	Summer	2017
2		2019
3		2021
4		2022
5		2024
6		2026
7	Shoulder	2019
8		2021
9		2024
10		2026
11	Winter	2021
12		2026

## Economic Planning Studies

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- **SERTP stakeholders can request up to five economic planning studies be performed annually**
- **These studies represent analyses of hypothetical scenarios requested by the stakeholders and do not represent an actual transmission need or commitment to build**
- **SERTP Sponsors identify the transmission requirements needed to move large amounts of power above and beyond existing long-term, firm transmission service commitments**
  - Analysis is consistent with NERC standards and company-specific planning criteria
- **[2015 SERTP Economic Planning Study Report](#)**

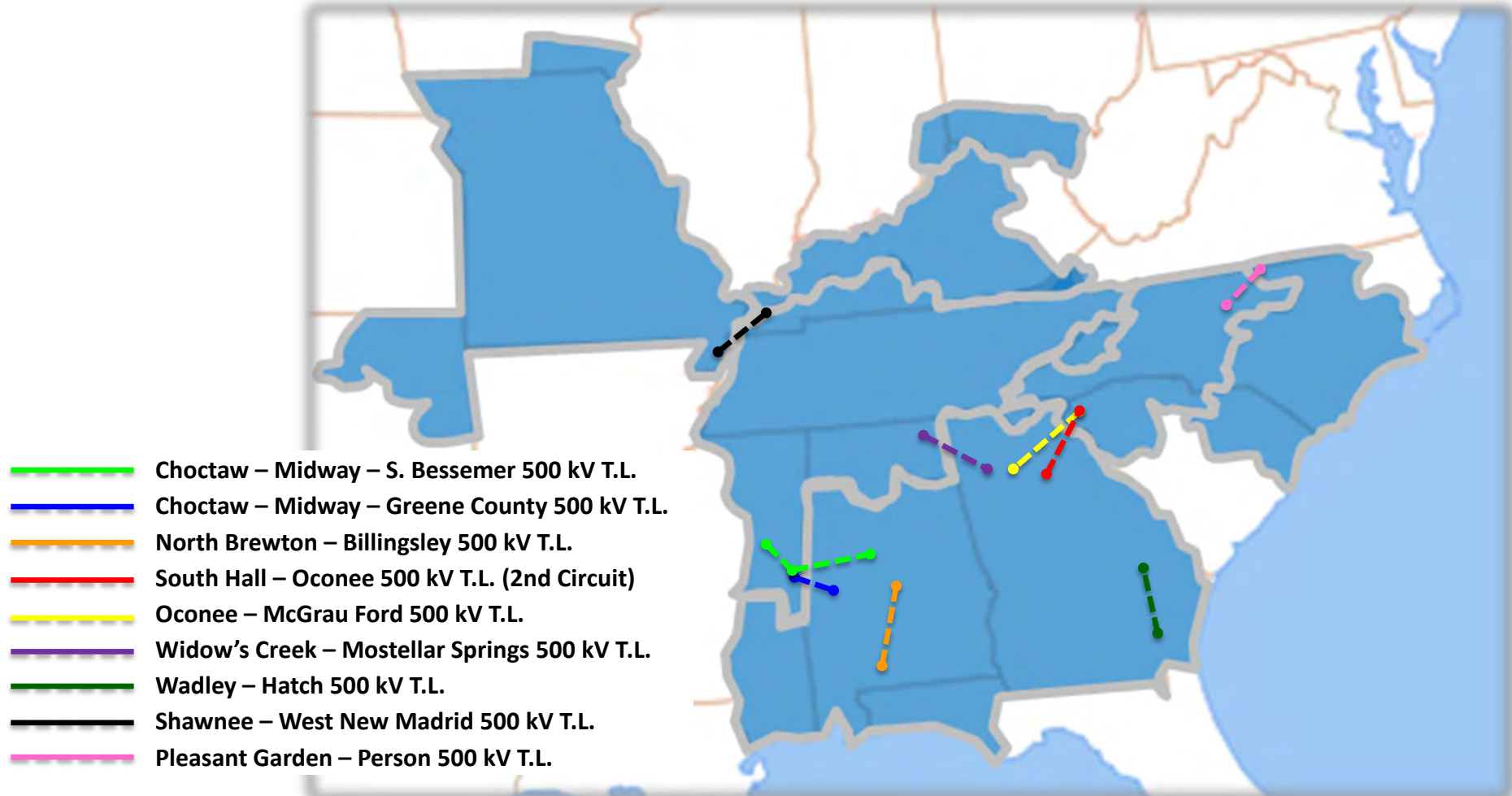


## Regional Transmission Analyses

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- **Regional Transmission Analyses are performed during the course of each transmission planning cycle in order to:**
  - 1) Assess if the then current regional transmission plan addresses the Transmission Provider's transmission needs
  - 2) Assess whether there may be more efficient or cost effective transmission projects to address transmission needs
- **[2015 SERTP Regional Analyses Summary](#)**

## 2015 Regional Transmission Analyses



## Regional Transmission Plan

Project Descriptions,  
Drivers, Contingencies

### 2015 SERTP Regional Transmission Plan

**Generation Assumptions/Changes**

**Project Totals (Mileage, \$, etc.)**

**Table A8.3: Changes in Generation**

Site	2015	2016
Dahlberg	367	3
Branch 1	0	1
Branch 3-4	0	1
Gorgas 6-7	0	1
McManus 1-2	0	1
Scholz 1-2	0	1
Yates 1-5	0	1
Vogtle 2	540	5
Simon	27	2
Franklin 2	625	1
West Georgia	298	2
Kraft	316	1
Harris 1	0	6
Wansley 6	561	5
Vogtle 3	0	1
Vogtle 4	0	1
Harris 2	628	6
Central Alabama	885	8
Calhoun 1-4	632	6

**Table II.1 2014 SERTP Region**

**Table II.2 2014 SERTP Region**

**December 2015**

Regional Transmission Plan & Input Assumptions Overview

## SERTP Quarterly Stakeholder Meetings

### Q1: 1<sup>st</sup> RPSG Meeting & Interactive Training Session

- Form RPSG
- Select Five Economic Planning Studies
- Stakeholder Training Session

### Q3: 2<sup>nd</sup> RPSG Meeting

- Preliminary Results of the Economic Planning Studies
- Stakeholder Input & Feedback
- Previous Stakeholder Input on the Expansion Plan

### Q2: Preliminary Expansion Plan Meeting

- Review Modeling Assumptions
- Preliminary 10 Year Expansion Plan
- Stakeholder Input & Feedback Regarding the Plan

### Q4: Annual Transmission Planning Summit & Input Assumptions Meeting

- Final Results of the Economic Planning Studies
- Regional Transmission Plan
- Regional Analyses
- Stakeholder Input on Upcoming Year Transmission Model Input Assumptions

2016

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

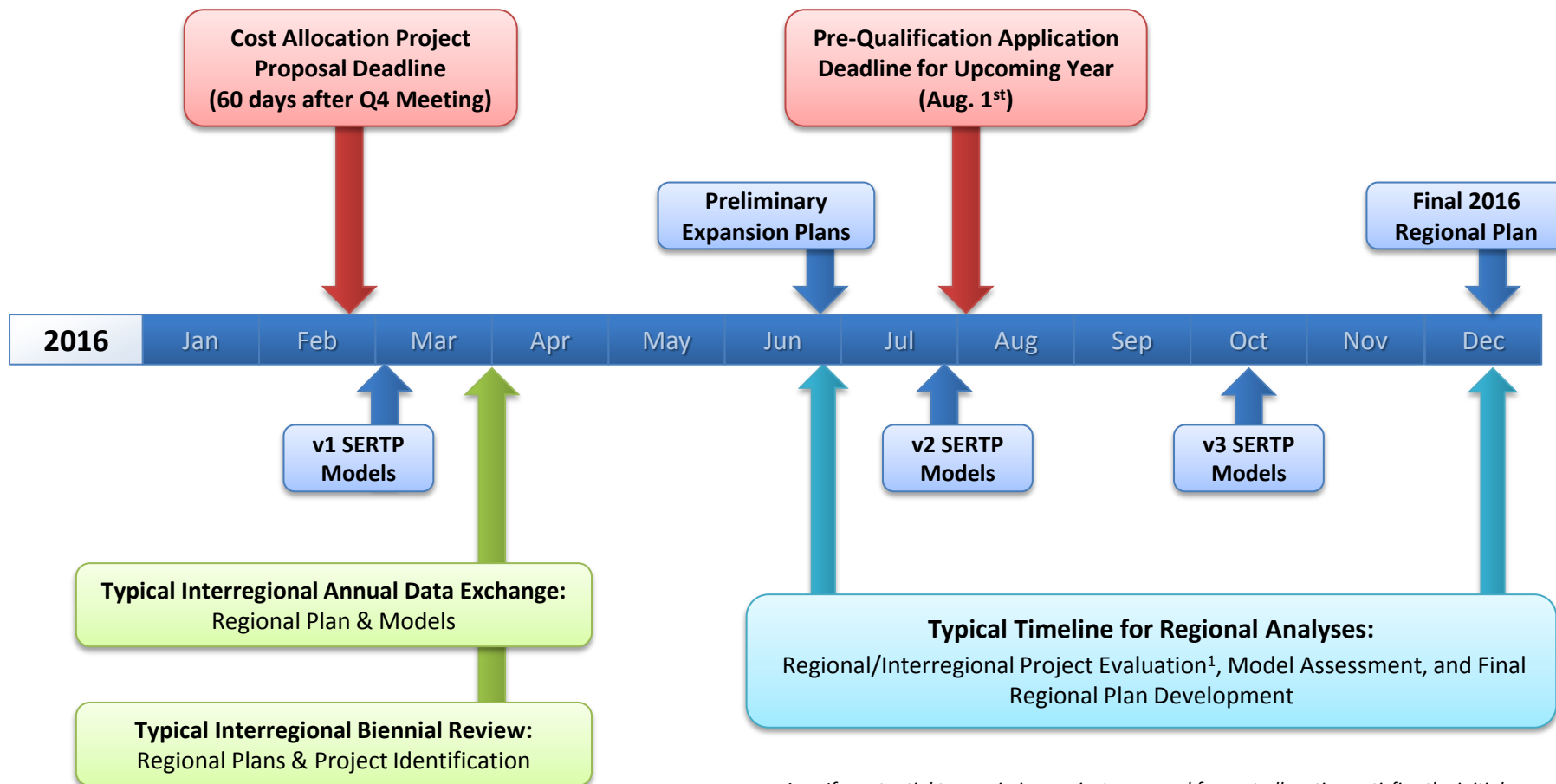
Sep

Oct

Nov

Dec

## Regional/Interregional Process Timing



1. If a potential transmission project proposed for cost allocation satisfies the initial evaluation, a schedule will be developed in consultation with the transmission developer to provide additional detailed information for further detailed analysis.

## Regional Cost Allocation

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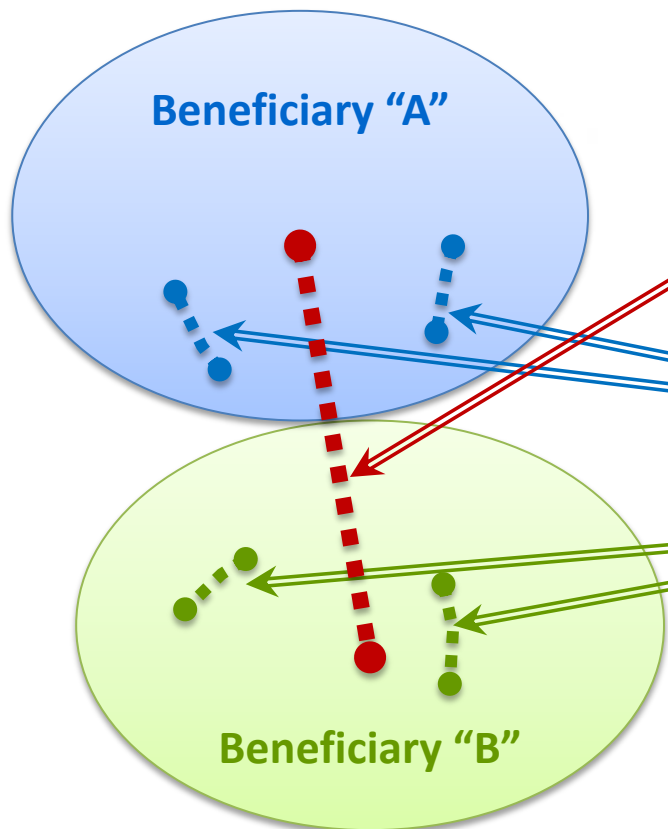
- **Scope of a Regional Project Eligible for Cost Allocation**
  - Transmission line located in the SERTP region
  - 300 kV or greater
  - Spans at least 50 miles
  - Must have significant electrical or geographical differences from projects already under consideration
- **Benefits Considered**
  - Avoided costs of displaced transmission
  - Real power loss savings (regional only)
- **Evaluations**
  - Qualitative & Quantitative – 1.25 Benefit-to-Cost (BTC) Ratio
  - Feasibility
  - State jurisdictional and/or governance authorities opportunity for review

## Simplified Cost Allocation Example

- Proposed Regional Facility
- Displaced Transmission Facility – Beneficiary “A”
- Displaced Transmission Facility – Beneficiary “B”

Regional Project Cost	Σ Displaced Project Cost	Regional Benefit-to-Cost Ratio
\$100 M	\$150 M	1.50

Beneficiary	Displaced Transmission Cost	Regional Cost Allocation %	Allocated Cost of Regional Project
“A”	\$90 M	60%	\$60 M
“B”	\$60 M	40%	\$40 M
<b>Total</b>	<b>\$150 M</b>	<b>100%</b>	<b>\$100 M</b>



## Interregional Cost Allocation

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### **Interregional Project for Cost Allocation Must:**

- **Interconnect to facilities in both the SERTP and PJM regions**
- **Meet regional qualifications**
- **Be proposed in both regional processes**



## Interregional Coordination

- Meet annually to facilitate coordination procedures
- Website postings
- Annually exchange power-flow models
- Annually exchange regional transmission plans
- Meet biennially to review regional transmission plans
- Coordinate on any joint evaluations of potential interregional transmission projects

### [SERTP Website / Interregional](#)

Southeastern  
Regional  
TRANSMISSION PLANNING

SECURE AREA | PLANNING CRITERIA | REFERENCE LIBRARY | INTERREGIONAL | CONTACT US

Interregional FRCC >> MISO >> PJM >> SC RTP >> SPP >> Return Home >>

Interregional - FRCC (+/-) FRCC

Interregional - MISO (+/-) MISO

Interregional - PJM (+/-) PJM

- [PJM Stakeholder Registration Link](#)
  - [PJM Stakeholder Transmission Expansion Advisory Committee Registration Link](#)
  - [PJM Stakeholder Planning Committee Registration Link](#)
- [PJM and SERTP Interregional Transmission Planning Procedures](#)
  - [Interregional Transmission Planning Coordination Between the SERTP and PJM Regions](#)

[Back to Top >>](#)

Interregional - SC RTP (+/-) SC RTP

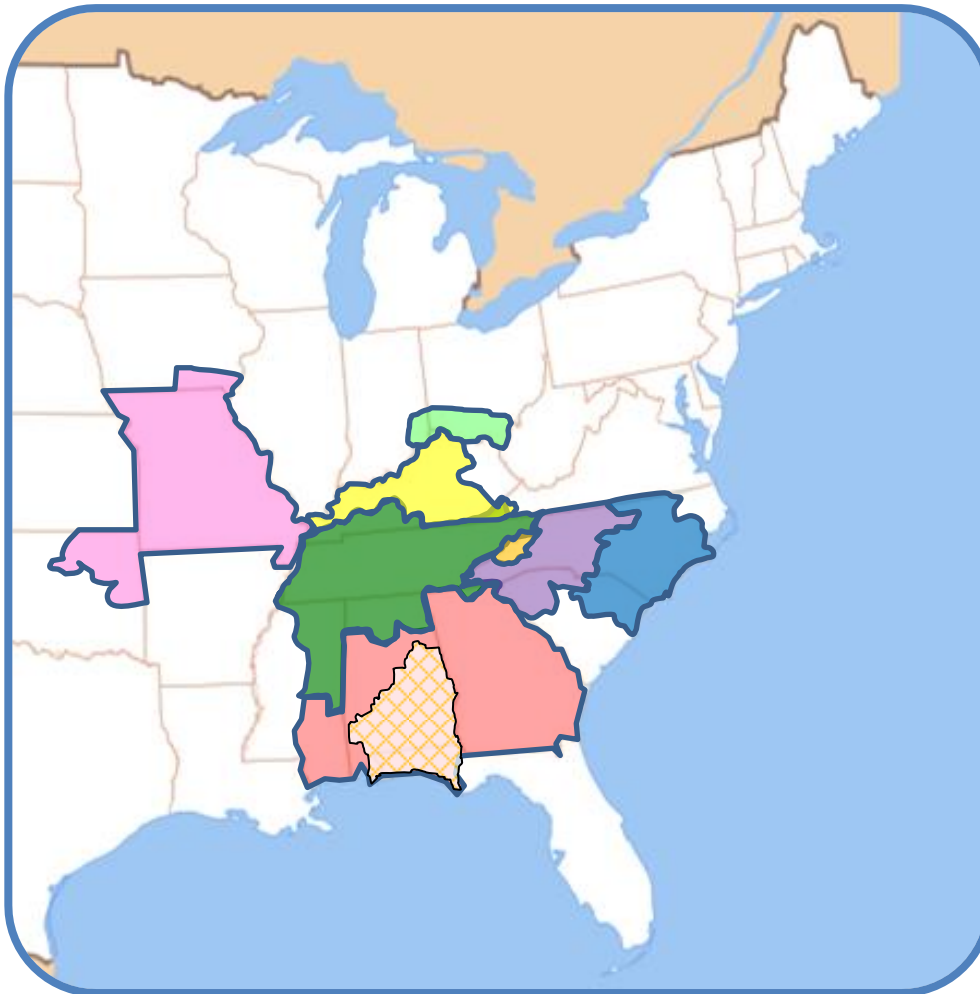
**SERTP**

**Regional Modeling Assumptions**










**SERTP**

**Regional Transmission Plan**

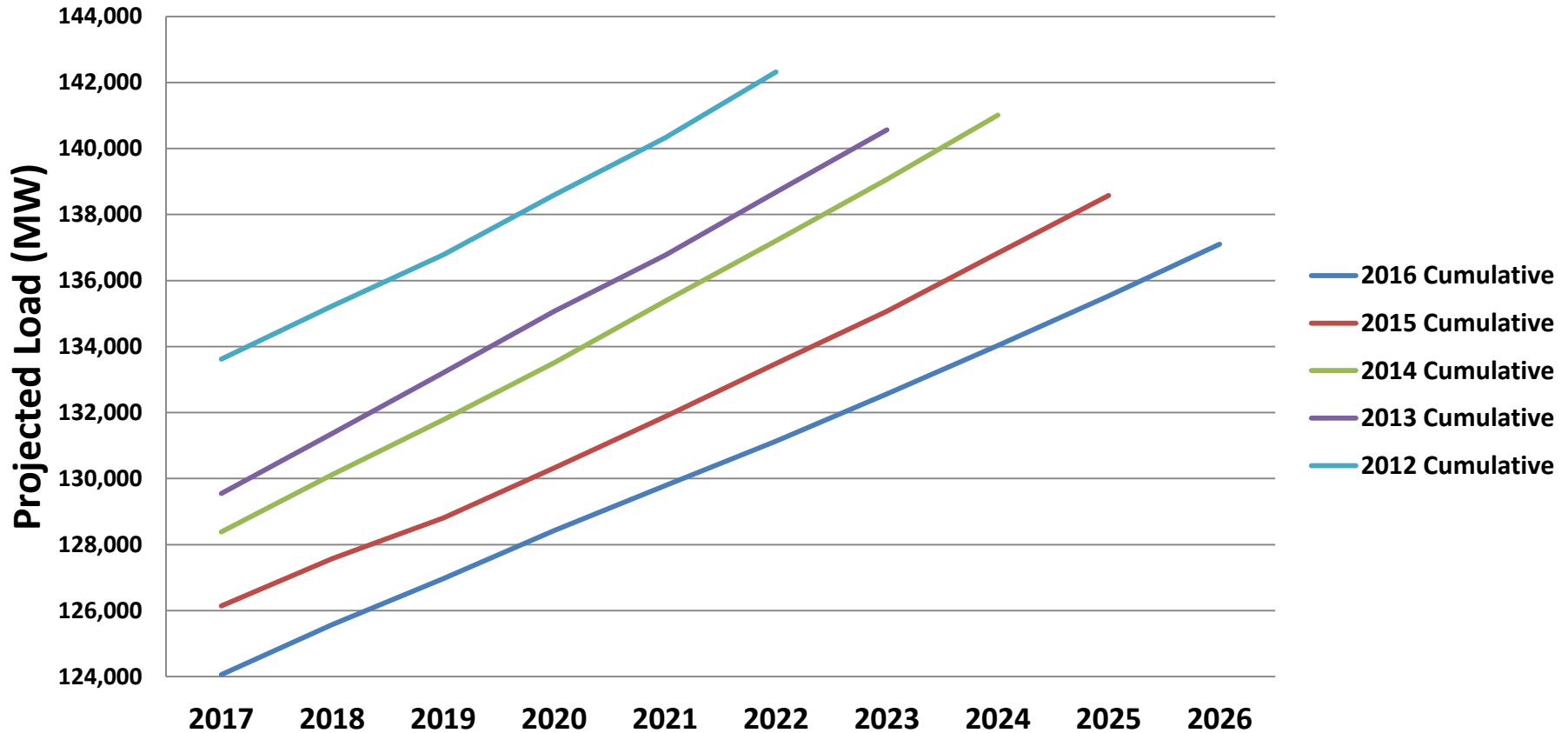
## SERTP Regional Modeling Assumptions



### 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

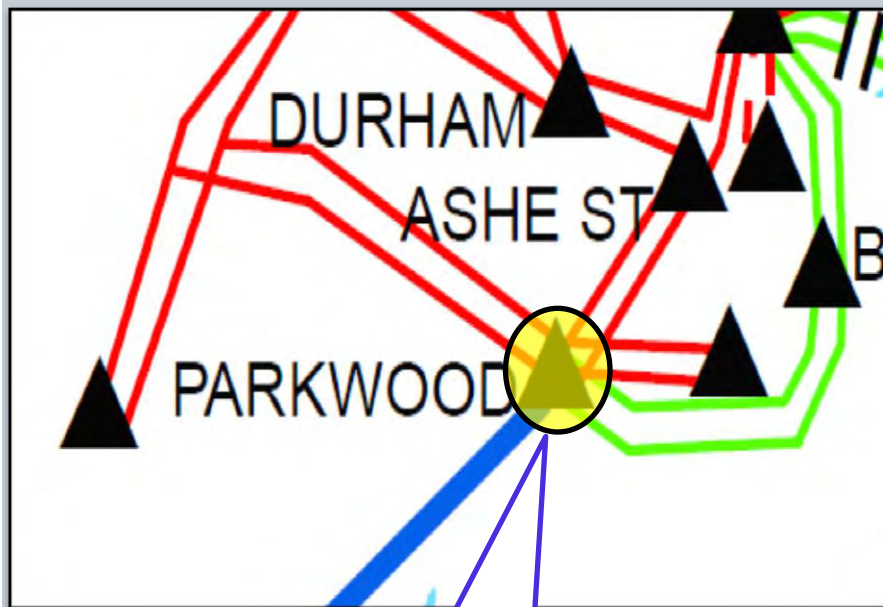


# DUKE CAROLINAS Balancing Authority SERTP Regional Transmission Plan

# DUKE CAROLINAS – 1

2016

## PARKWOOD 230/100 KV SUBSTATION



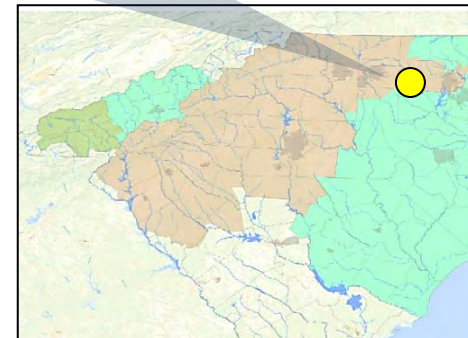
ADD A THIRD 448 MVA  
230/100 KV TRANSFORMER AT  
PARKWOOD SUBSTATION

### DESCRIPTION:

Add a third 448 MVA 230/100 kV transformer at Parkwood substation.

### SUPPORTING STATEMENT:

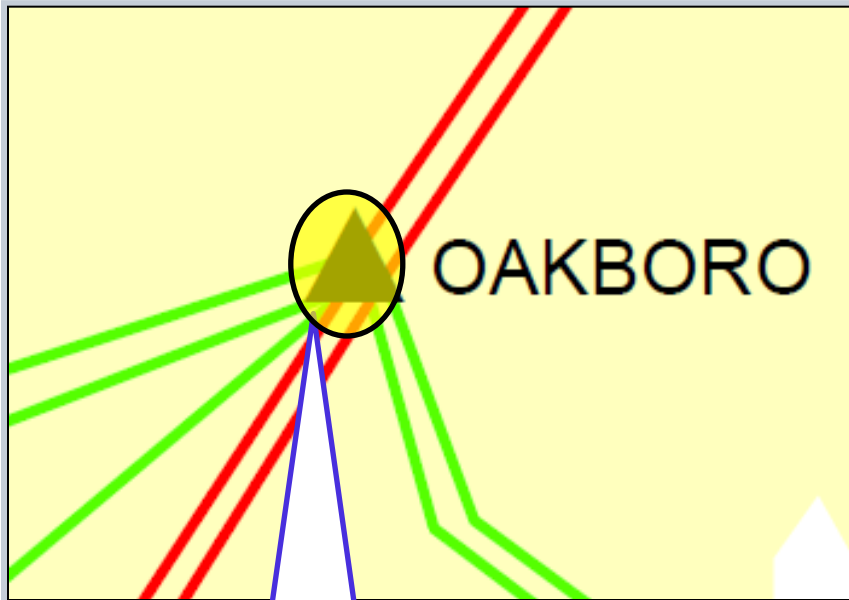
The Parkwood 230/ 100 kV transformer overloads under contingency.



## DUKE CAROLINAS – 3

2017

### OAKBORO 230/100 KV TIE



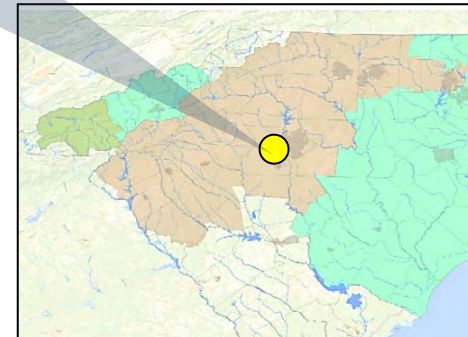
ADD A FOURTH 448 MVA  
230/100 KV TRANSFORMER AT  
OAKBORO TIE

#### DESCRIPTION:

Add a fourth 448 MVA 230/100 kV transformer at Oakboro Tie.

#### SUPPORTING STATEMENT:

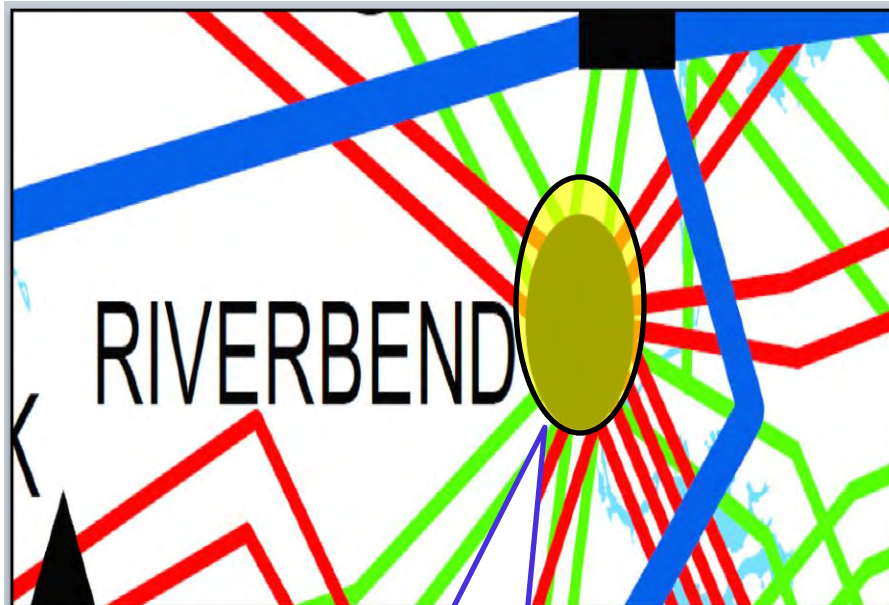
The Oakboro 230/100 kV transformer overloads under contingency.



## DUKE CAROLINAS – 4

2017

### RIVERBEND STEAM STATION



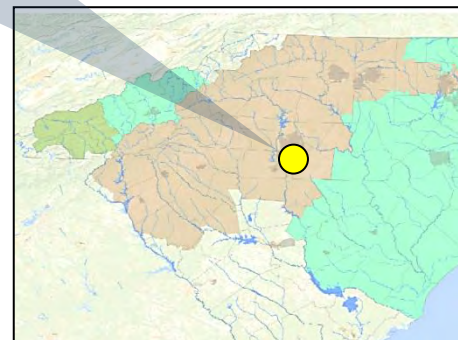
ADD TWO 230/100 KV 400  
MVA TRANSFORMERS

#### 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.

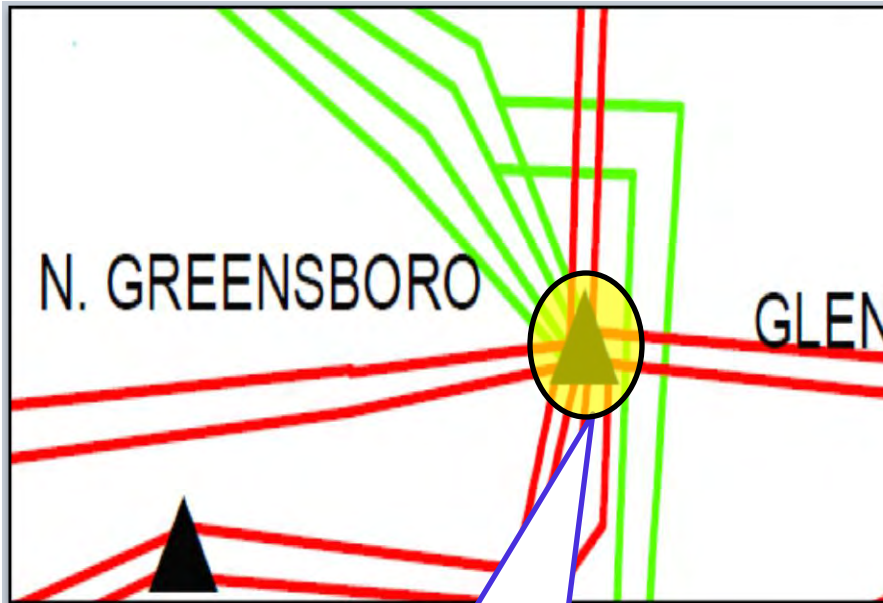




# DUKE CAROLINAS – 5

2018

## NORTH GREENSBORO SUBSTATION



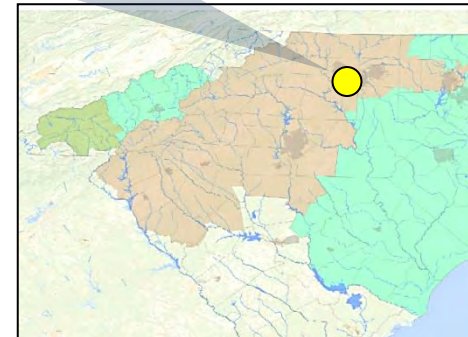
ADD A FOURTH 448 MVA 230/100 KV TRANSFORMER AT NORTH GREENSBORO SUBSTATION

### DESCRIPTION:

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

### SUPPORTING STATEMENT:

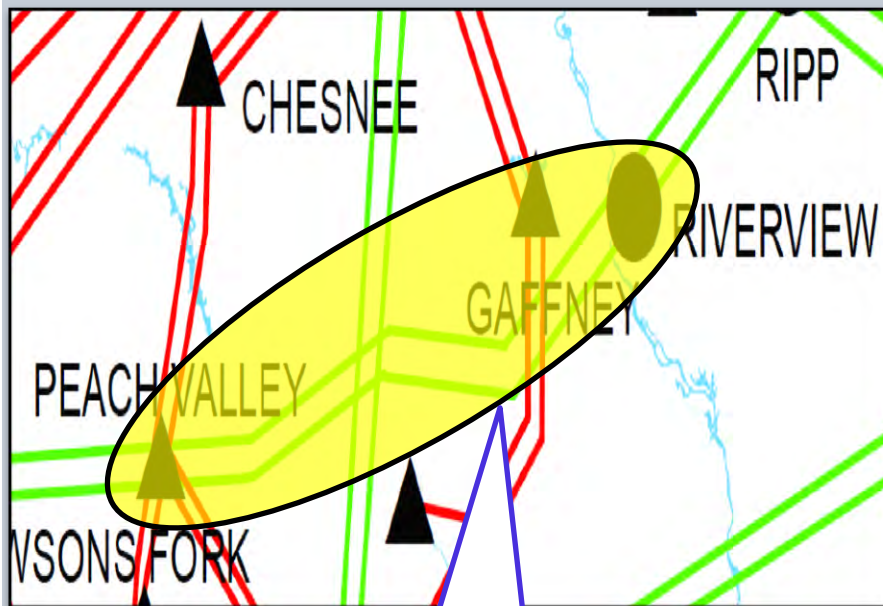
North Greensboro 230/100 kV transformers overload under contingency.



## DUKE CAROLINAS – 6

2018

### PEACH VALLEY – RIVERVIEW 230 KV T.L.



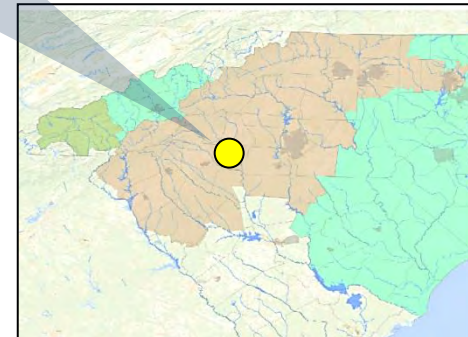
INSTALL A 3% SERIES REACTOR

#### DESCRIPTION:

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

#### SUPPORTING STATEMENT:

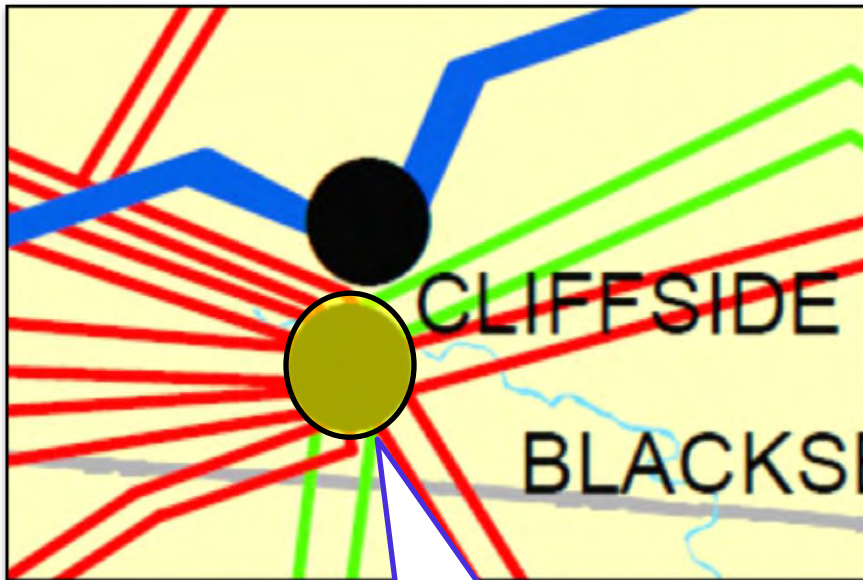
The Peach Valley – Riverview 230 kV transmission line overloads under contingency.



# DUKE CAROLINAS – 7

2020

## CLIFFSIDE STEAM STATION



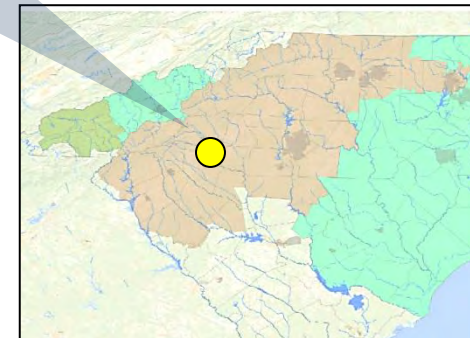
ADD A THIRD 448 MVA 230/100 KV  
TRANSFORMER AT CLIFFSIDE STEAM  
STATION

### DESCRIPTION:

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

### SUPPORTING STATEMENT:

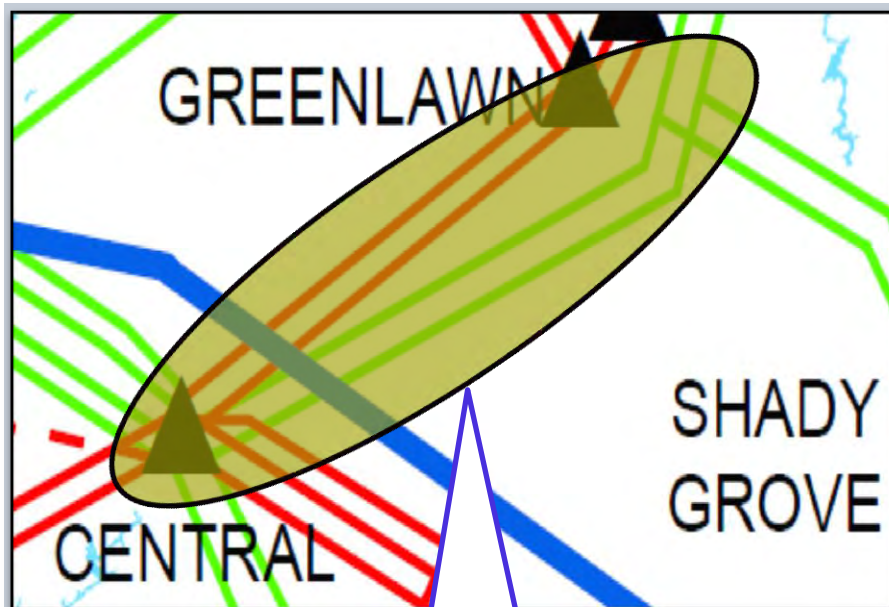
Cliffside Steam Station 230/100 kV transformers overload under contingency.



## DUKE CAROLINAS – 8

2022

### CENTRAL – SHADY GROVE 230 KV T.L.



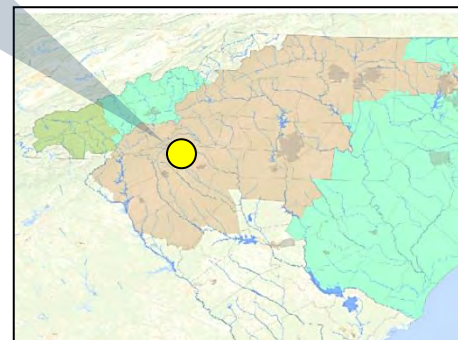
RECONDUCTOR 18 MILES OF  
THE CENTRAL – SHADY GROVE  
230 KV TL WITH BUNDLED 954  
ACSR AT 120°C

#### DESCRIPTION:

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

#### SUPPORTING STATEMENT:

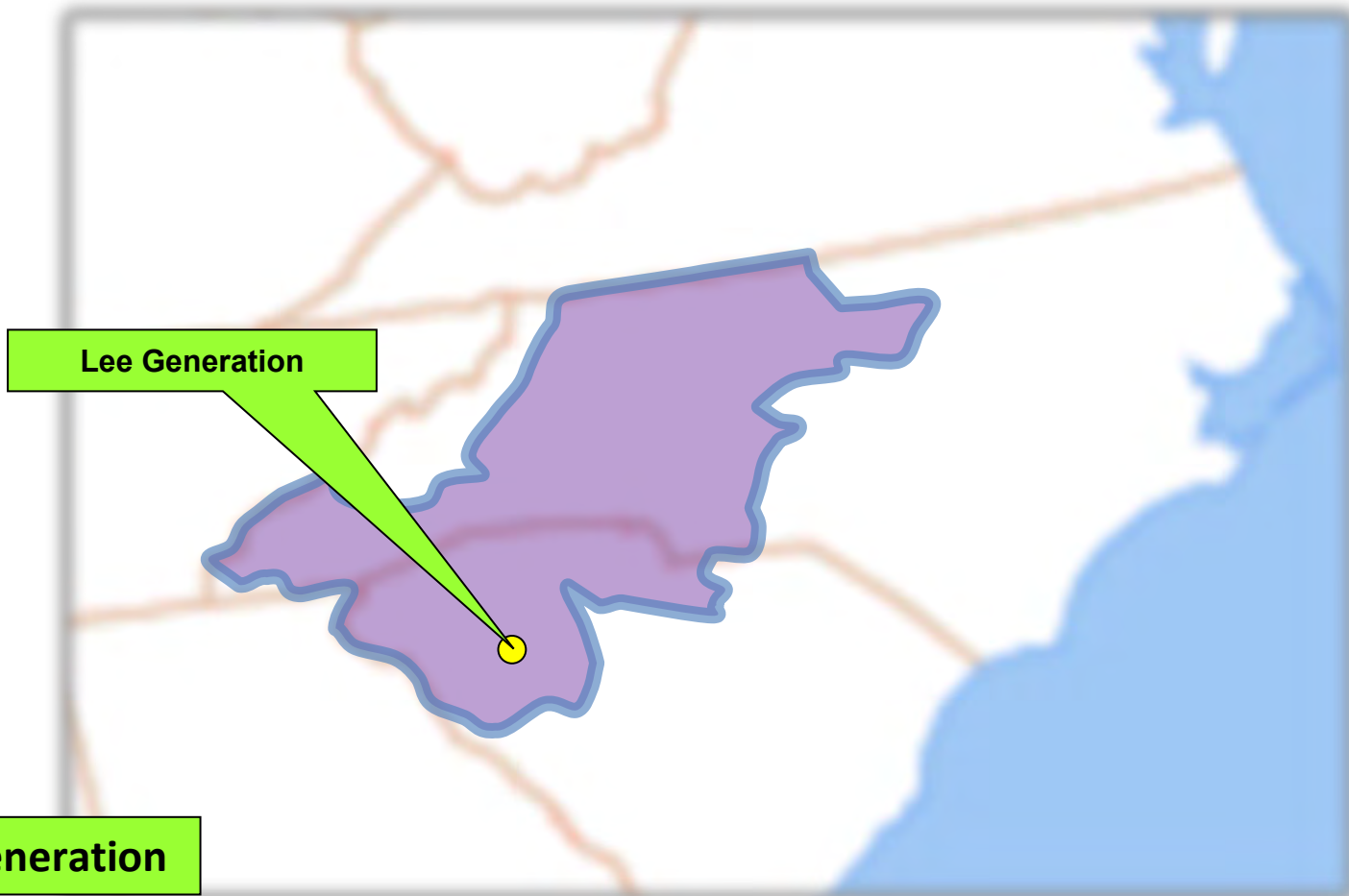
The Central – Shady Grove 230 kV transmission line overloads under contingency.



**DUKE CAROLINAS Balancing Authority**  
**Upcoming 2016**  
**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

## DUKE PROGRESS EAST/WEST

### Balancing Authorities

# 2015 Generation Assumptions

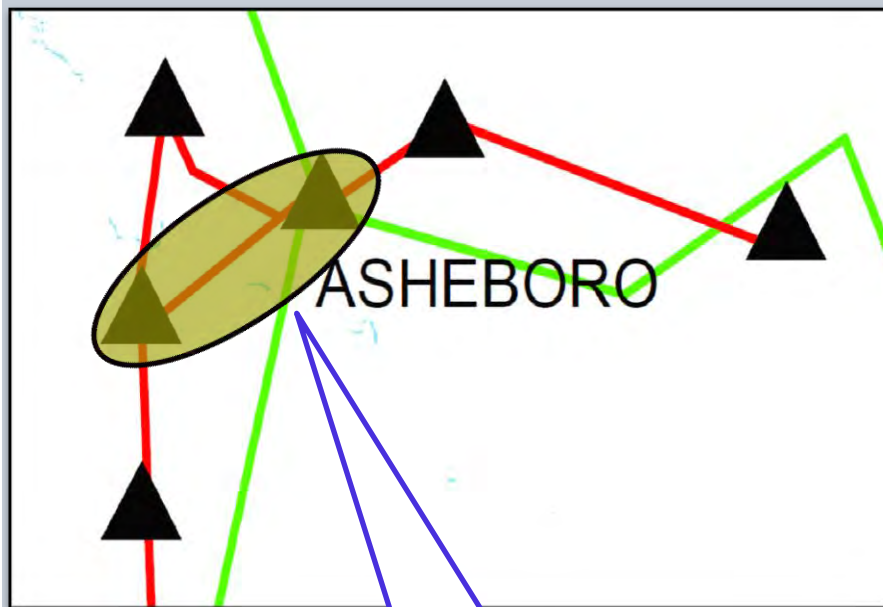


# DUKE PROGRESS EAST Balancing Authority SERTP Regional Transmission Plan

# DUKE PROGRESS EAST – 1

2016

## ASHEBORO – ASHEBORO EAST (SOUTH) 115 KV T.L.



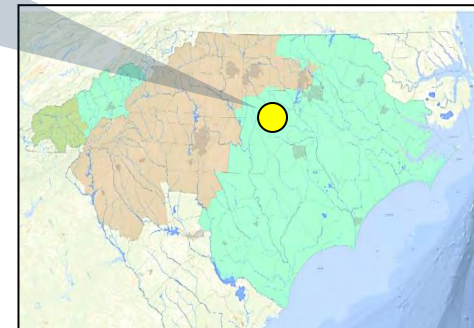
RECONDUCTOR 3 MILES OF 115  
KV T.L. WITH 3-1590 AND  
REPLACE DISCONNECT  
SWITCHES

### DESCRIPTION:

Reconductor approximately 3 miles of the Asheboro – Asheboro East (South) 115 kV transmission line using 3-1590 ACSR. 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:

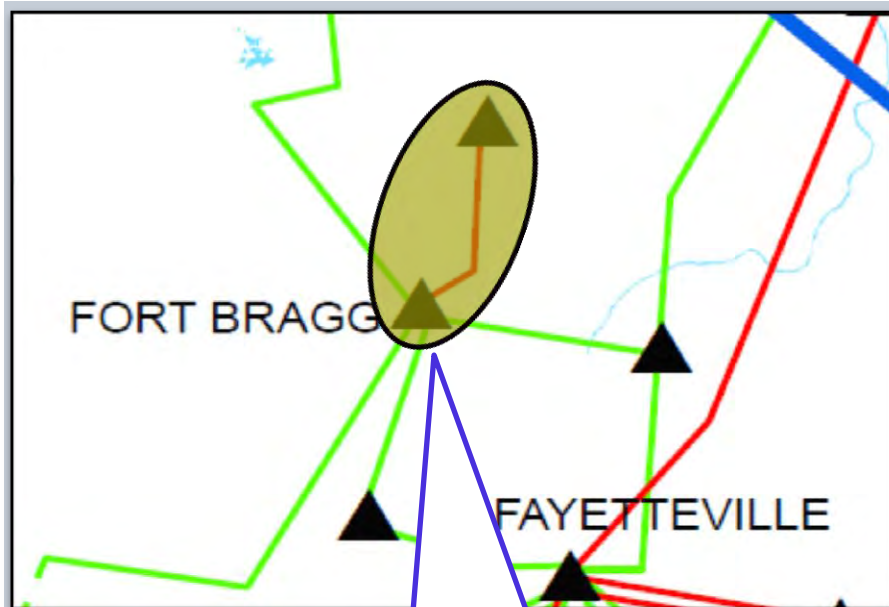
The Asheboro – Asheboro East (South) 115 kV transmission line overloads under contingency.



## DUKE PROGRESS EAST – 2

2016

### FT. BRAGG WOODRUFF STREET 230 KV SUBSTATION



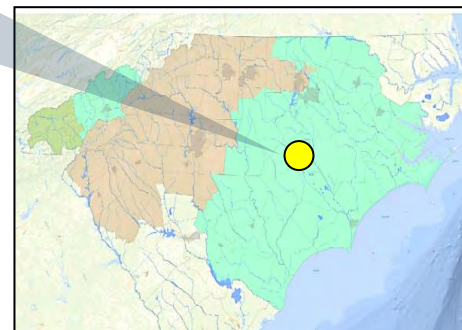
REPLACE 150 MVA, 230/115 KV  
TRANSFORMER WITH TWO 300 MVA,  
230/115 KV TRANSFORMERS.  
RECONDUCTOR 4.42 MILES OF 115 KV  
T.L. WITH 3-1590 ACSR

#### DESCRIPTION:

Replace the existing 150 MVA, 230/115 kV transformer at the Ft. Bragg Woodruff Street 230 kV substation with two 300 MVA, 230/115 kV transformers. Reconductor approximately 4.42 miles along the Ft. Bragg Woodruff Street – Manchester 115 kV transmission line with 3-1590 ACSR.

#### SUPPORTING STATEMENT:

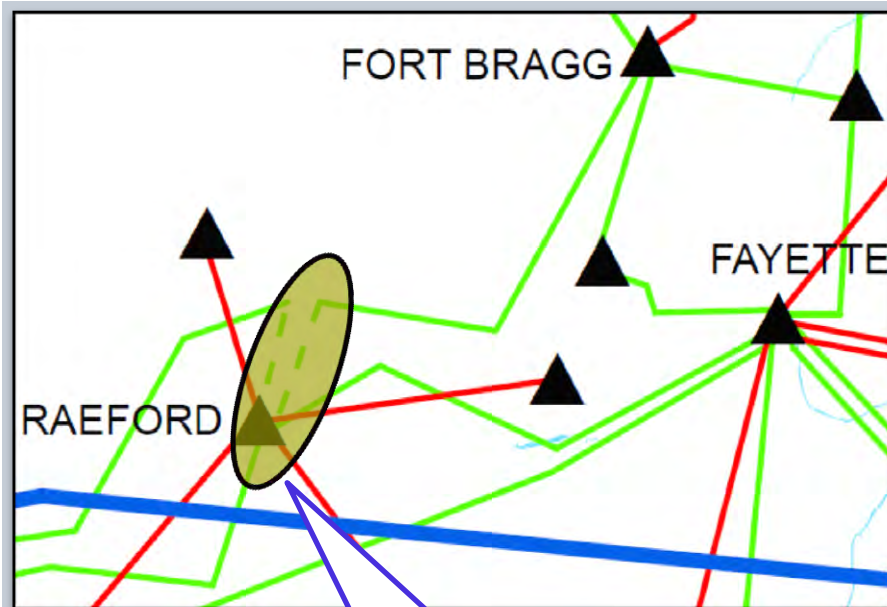
The Manchester 115 kV transmission line and Ft. Bragg Woodruff Street 230/115 kV transformer overloads under contingency.



## DUKE PROGRESS EAST – 3

2018

### RAEFORD 230 KV SUBSTATION



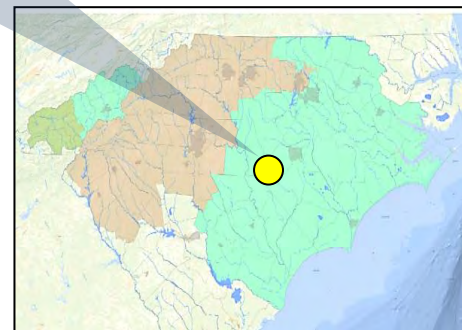
LOOP IN 230 KV T.L. AND ADD 300  
MVA TRANSFORMER

#### 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:

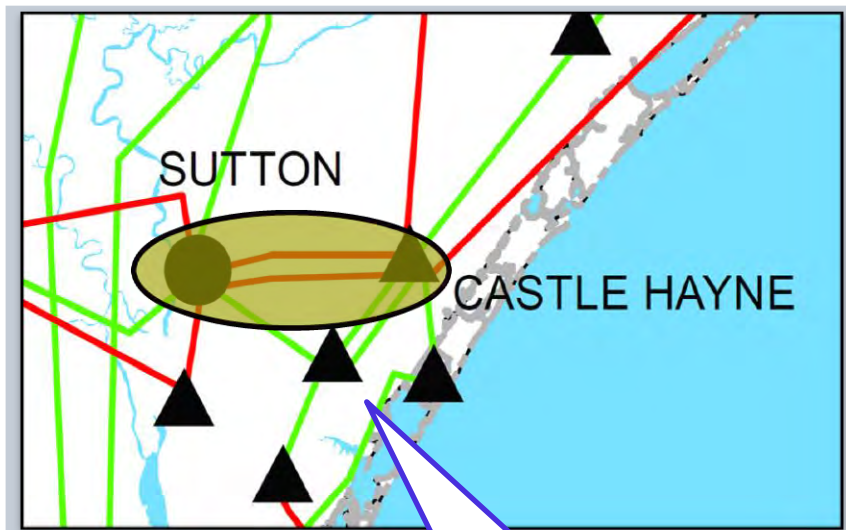
The Raeford 230/115 kV transformers and Weatherspoon – Raeford 115 kV transmission line overload under contingency.



## DUKE PROGRESS EAST – 4

2018

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



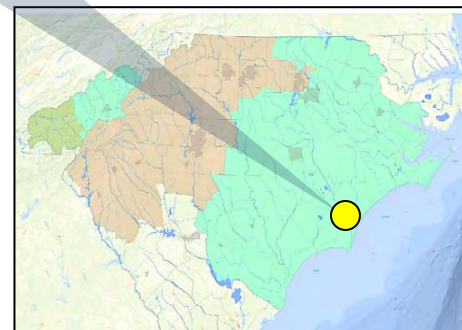
REBUILD THE SUTTON PLANT-  
CASTLE HAYNE 115KV NORTH T.L.

#### 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:

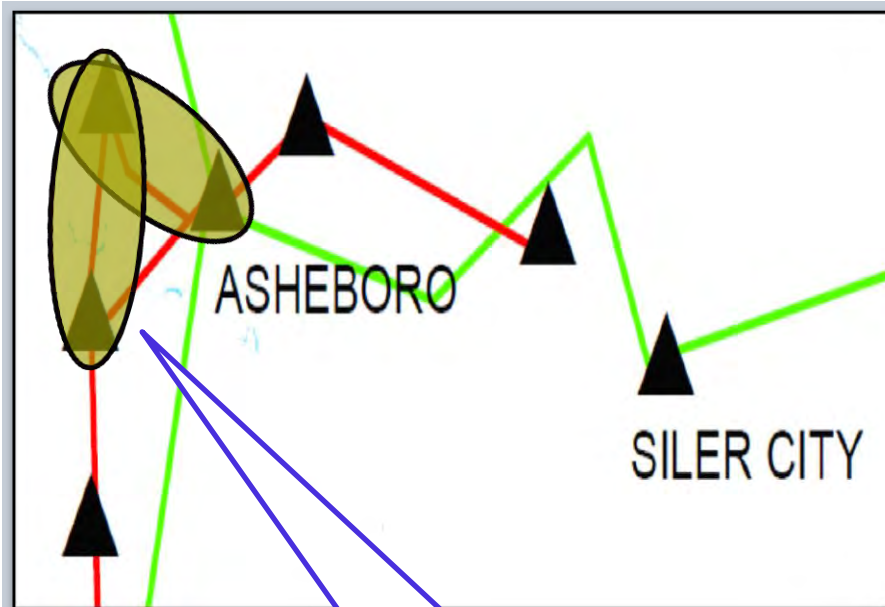
The Sutton Plant – Castle Hayne 115 kV North transmission line overloads under contingency.



## DUKE PROGRESS EAST – 5

2019

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



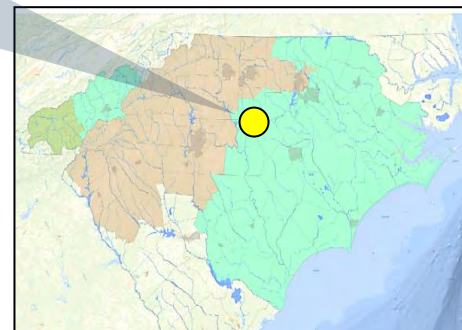
REBUILD 6.45 MILES OF 115 KV TL  
WITH 3-1590. REPLACE SWITCHES  
WITH AT LEAST 2000 A CAPABILITY

#### DESCRIPTION:

Rebuild approximately 6.45 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:

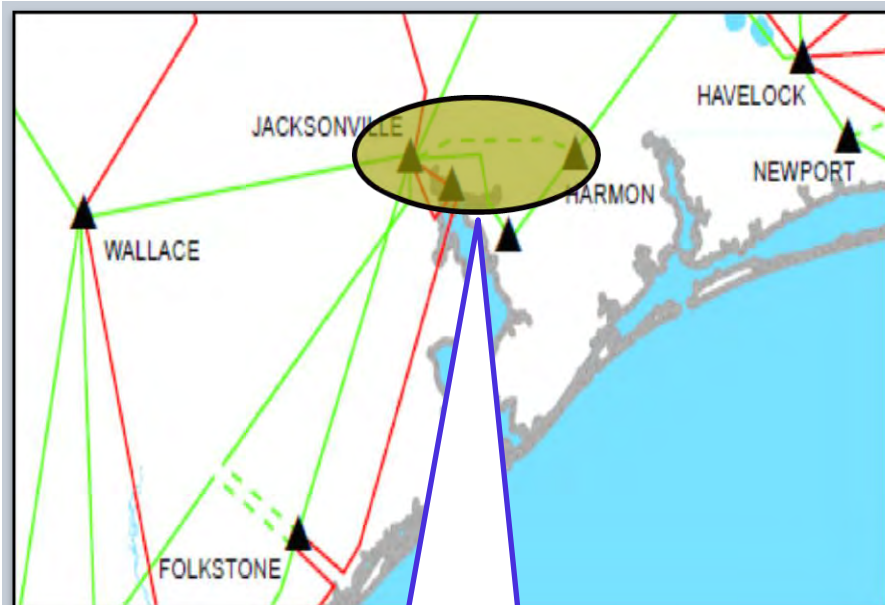
The Asheboro – Asheboro East (North) 115 kV transmission line overloads under contingency.



## DUKE PROGRESS EAST – 6

2020

### GRANT'S CREEK - JACKSONVILLE 230 KV T.L.



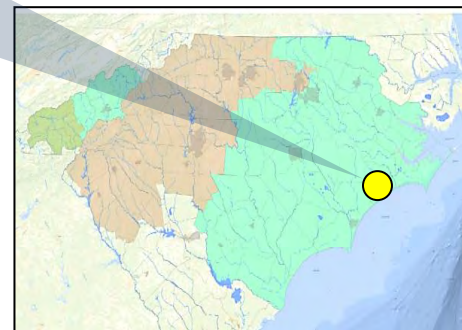
NEW 230 KV TL WITH 6-1590 ACSR  
OR EQUIVALENT CONDUCTOR. NEW  
230 KV SUBSTATION WITH A 200  
MVA OR 300 MVA 230/115 KV  
TRANSFORMER

#### 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:

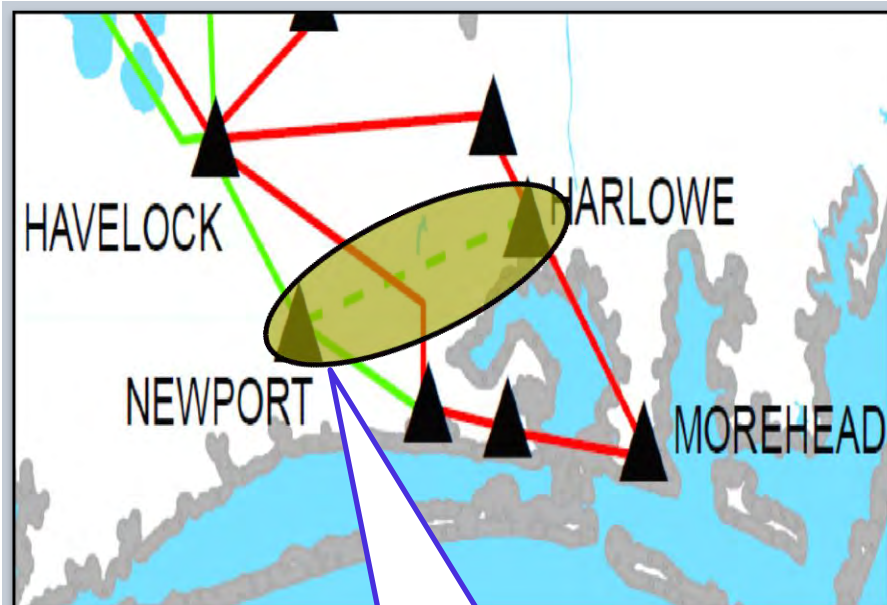
The Havelock – Jacksonville 230 kV transmission line overloads under contingency and voltage support is needed in the Jacksonville area.



## DUKE PROGRESS EAST – 7

2020

### HARLOWE – NEWPORT 230 KV T.L.



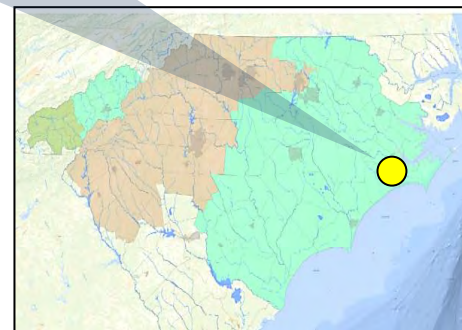
NEW 230 KV SWITCHING STATION.  
NEW 230 KV SUBSTATION. NEW 230  
KV T.L. WITH 3-1590 ACSR OR  
EQUIVALENT CONDUCTOR

#### 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.

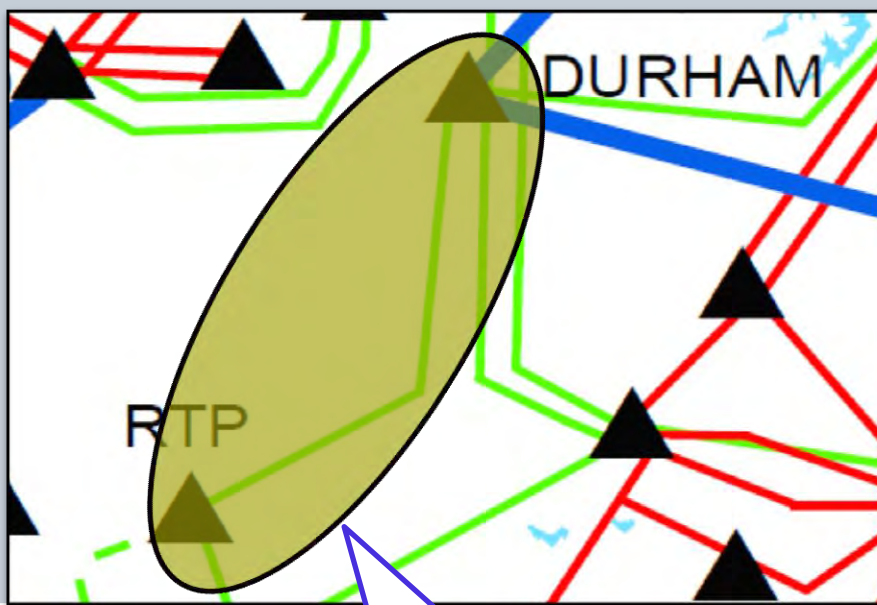




# DUKE PROGRESS EAST – 8

2023

## DURHAM – RTP 230 KV T.L.



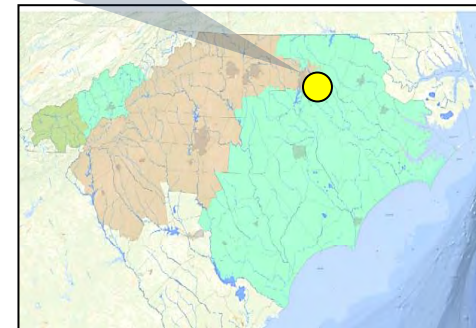
RECONDUCTOR 10 MILES OF 230 KV  
T.L. WITH 6-1590 ACSR

### 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.

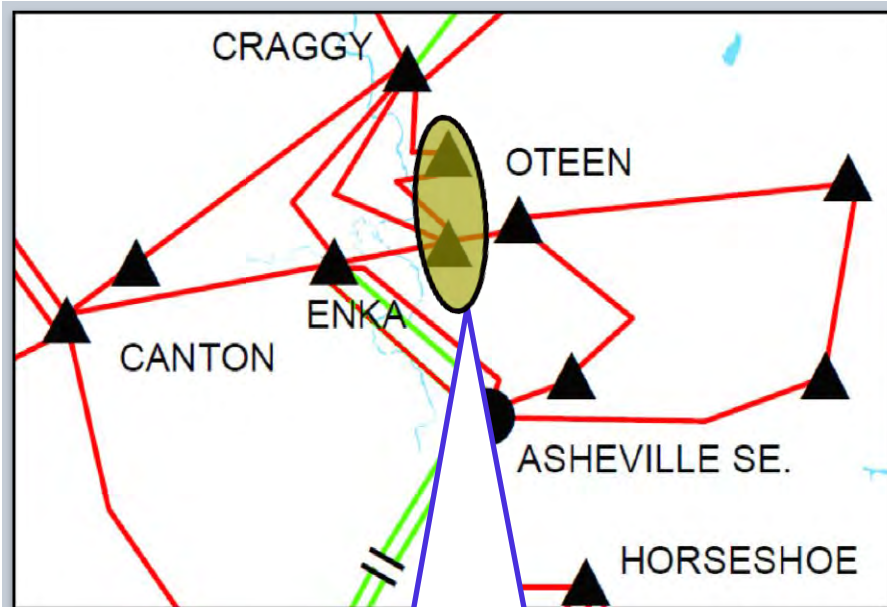


# DUKE PROGRESS WEST Balancing Authority SERTP Regional Transmission Plan

# DUKE PROGRESS WEST – 1

2018

## VANDERBILT – WEST ASHEVILLE 115 KV T.L.



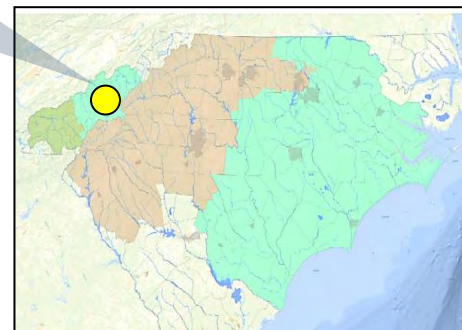
RECONDUCTOR 2.69 MILES OF 115 KV  
TL WITH 3-795 OR EQUIVALENT.  
REPLACE 115 KV BREAKERS AND  
SWITCHES

### DESCRIPTION:

Reconductor approximately 2.69 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:

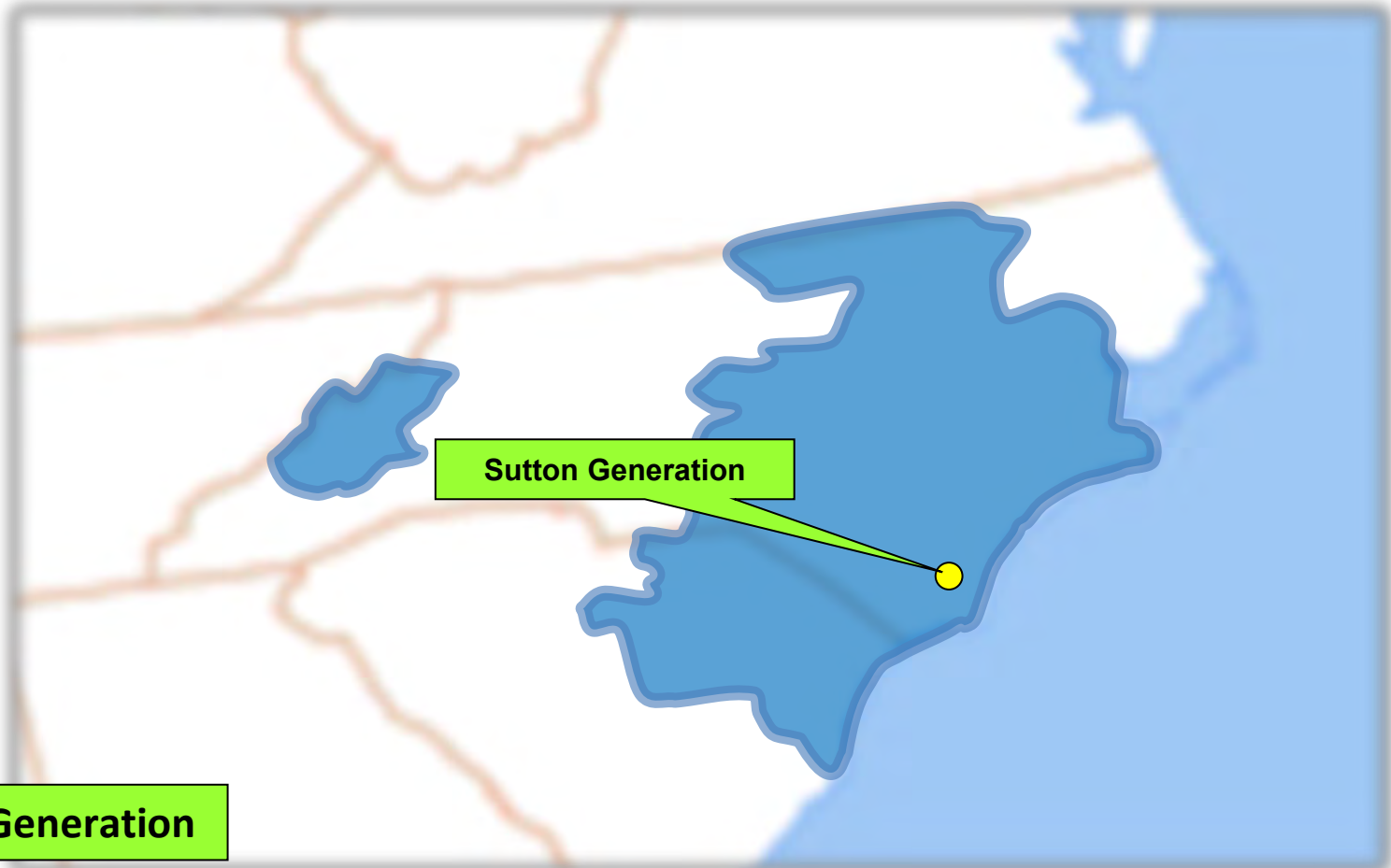
The Vanderbilt – West Asheville 115 kV transmission line overloads under contingency.



**DUKE PROGRESS EAST/WEST**  
**Balancing Authorities**  
**Upcoming 2016**  
**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

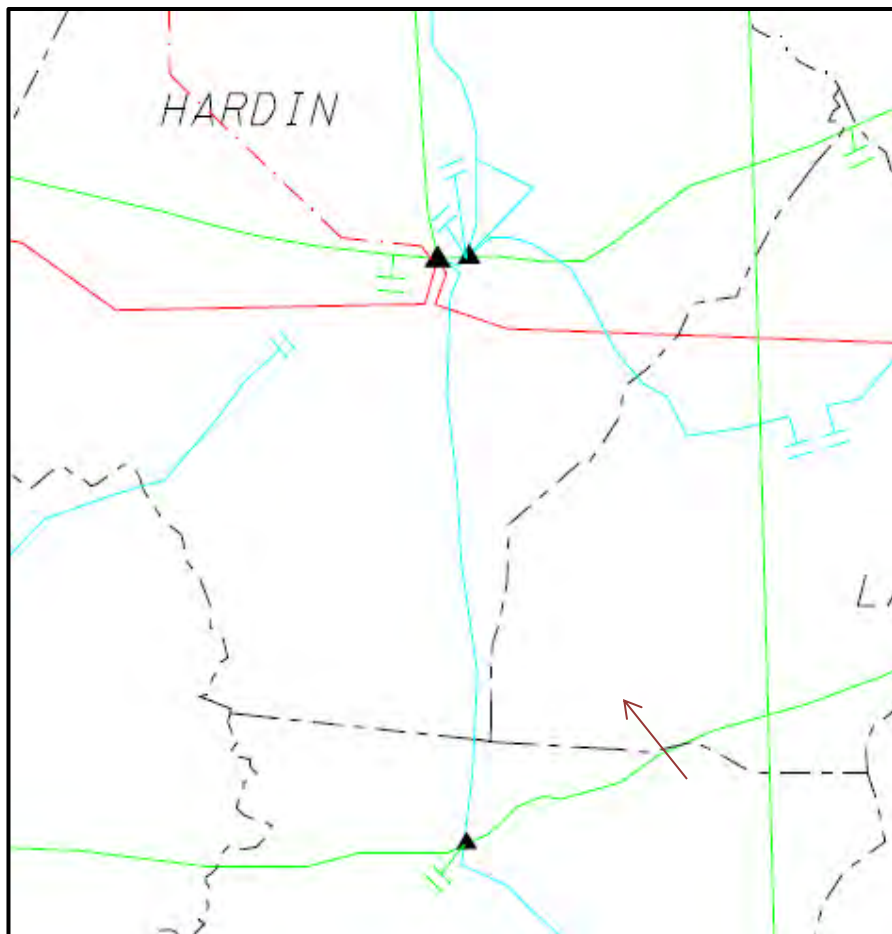
# LG&E/KU Balancing Authority

## SERTP Regional Transmission Plan

## LG&E/KU – 1

2017

### ELIZABETHTOWN – HARDIN COUNTY 138 KV T.L.

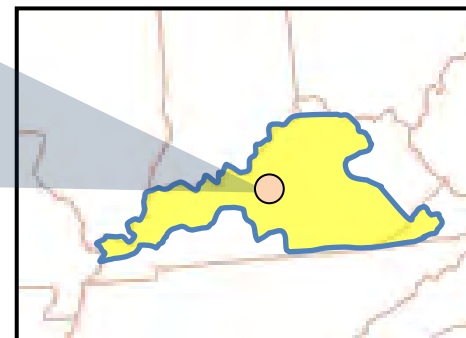


#### DESCRIPTION:

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.

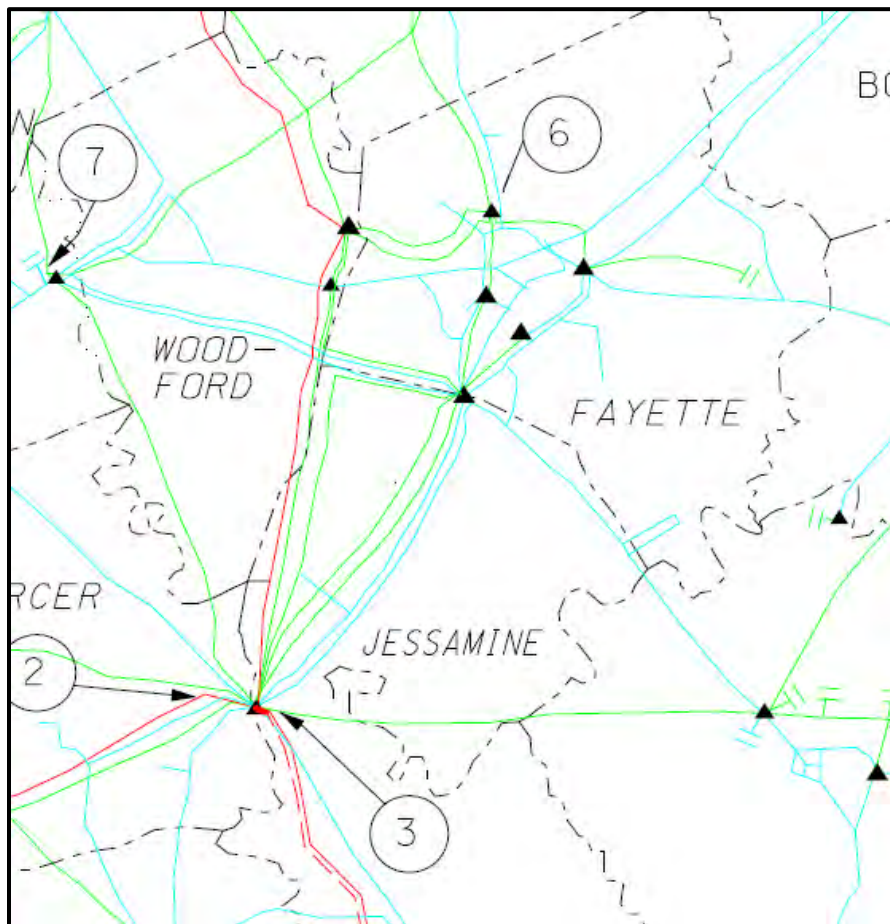




## LG&E/KU – 2

2017

### WEST LEXINGTON – VILEY ROAD 138 KV T.L.

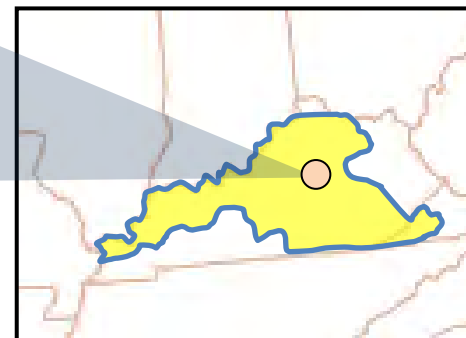


#### DESCRIPTION:

Reconductor approximately 5.19 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:

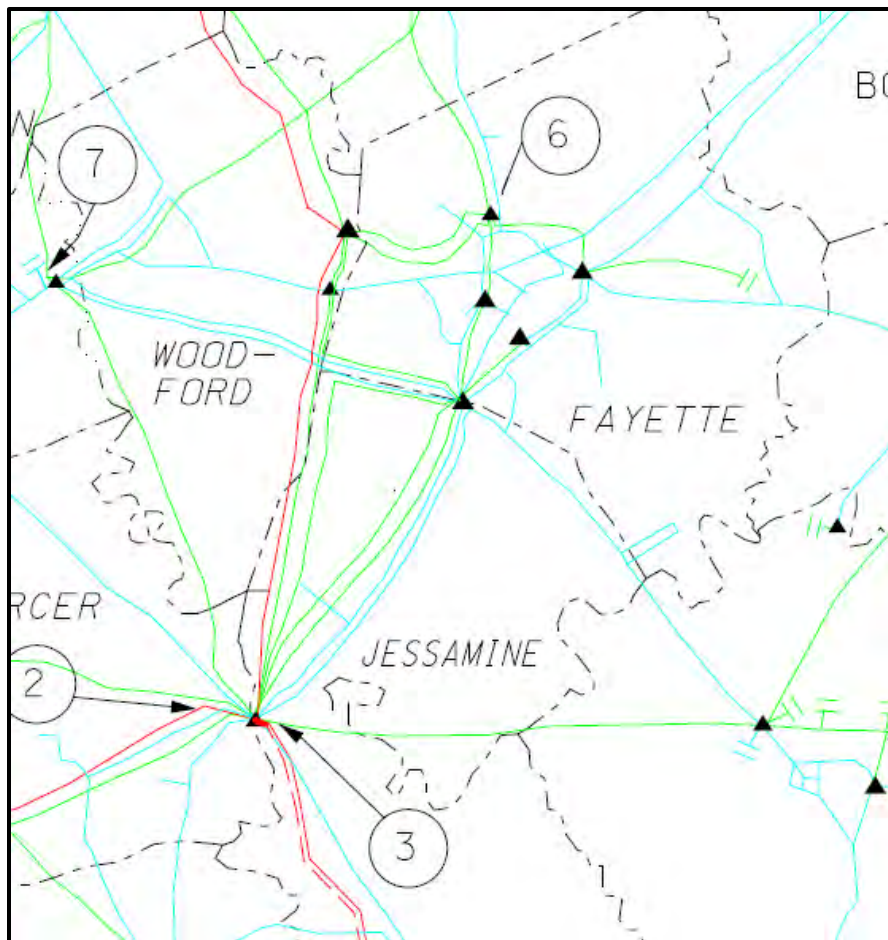
The West Lexington – Viley Road 138 kV transmission line overloads under contingency.



## LG&E/KU – 3

2019

### WEST LEXINGTON – HAEFLING 138 KV T.L.

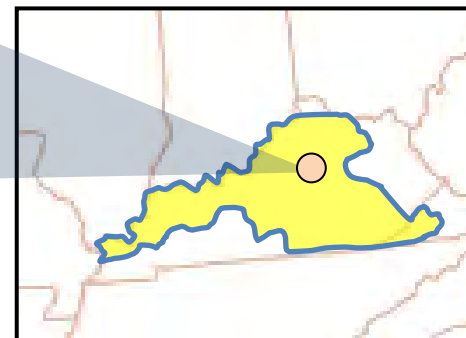


#### DESCRIPTION:

Reconductor 7.34 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:

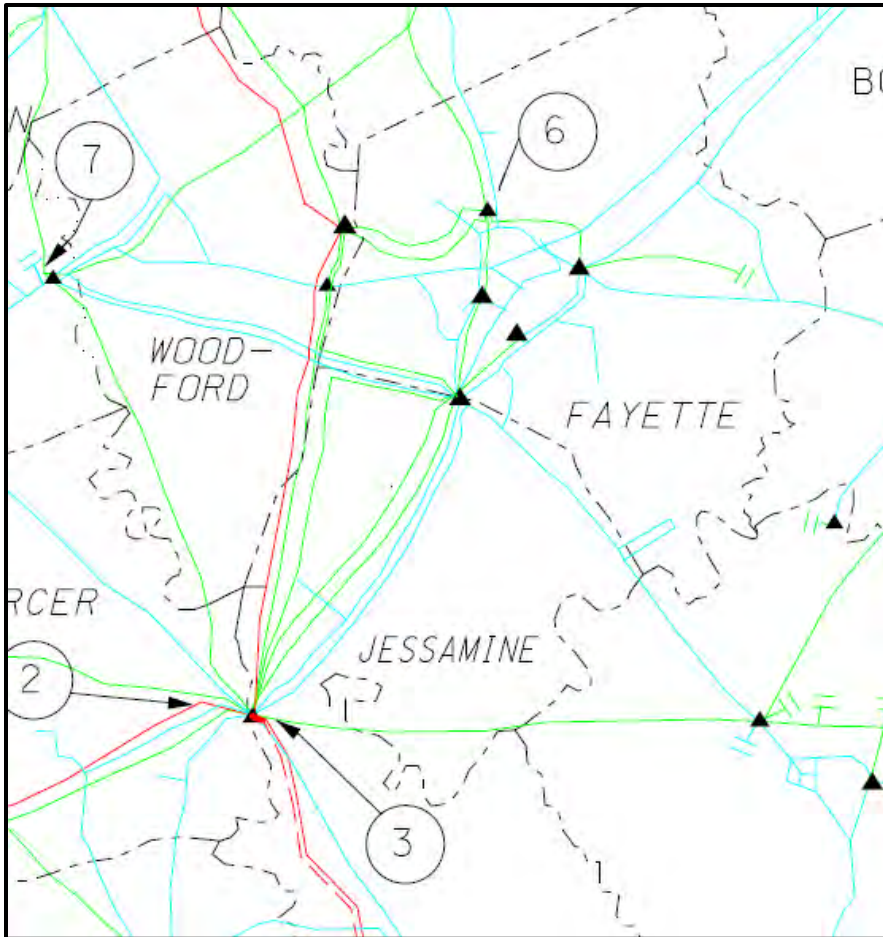
The West Lexington – Haefling 138 kV transmission line overloads under contingency.



# LG&E/KU – 4

2021

## HIGBY MILL – REYNOLDS 138 KV T.L.

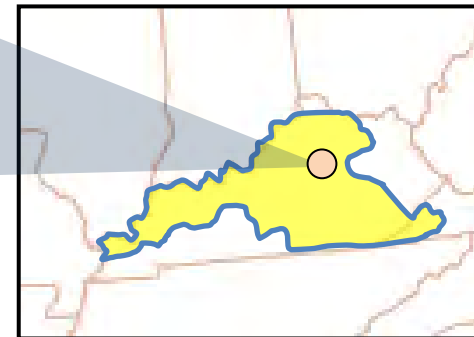


### DESCRIPTION:

Upgrade approximately 1.67 miles of 795 ACSR conductor on the Higby Mill – Reynolds 138 kV transmission line to 100°C operation.

### SUPPORTING STATEMENT:

The Higby Mill – Reynolds 138 kV transmission line overloads under contingency.



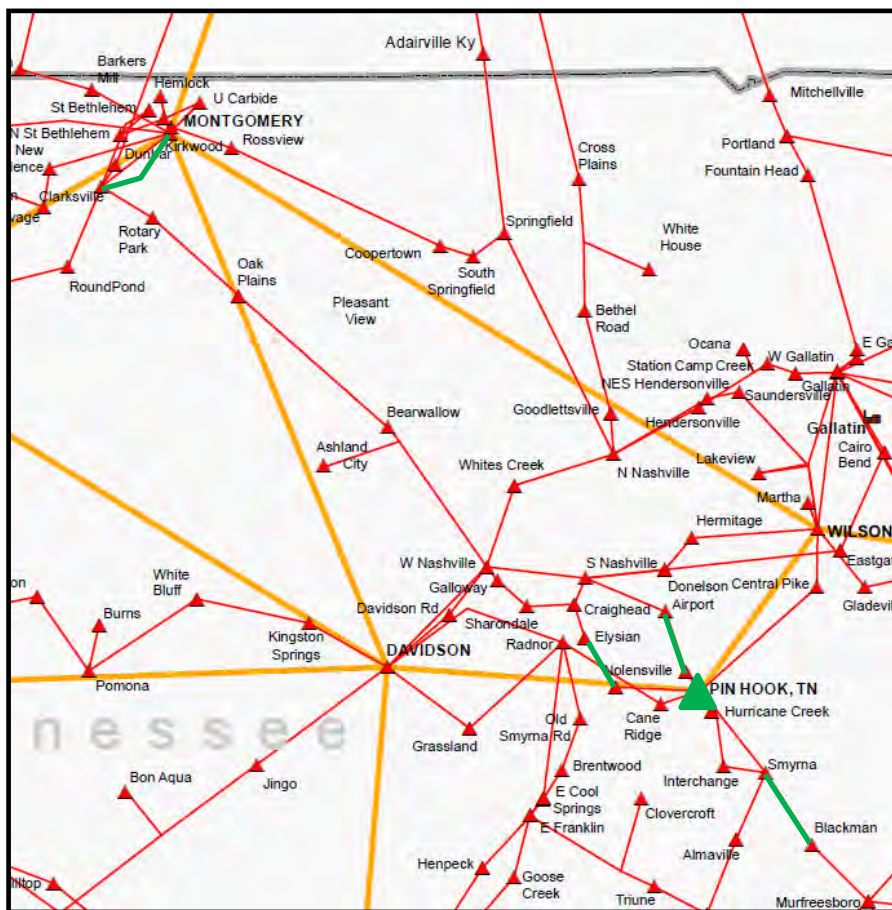
# TVA Balancing Authority

# SERTP Regional Transmission Plan

# TVA – 6

2018

## NASHVILLE AREA IMPROVEMENT PLAN

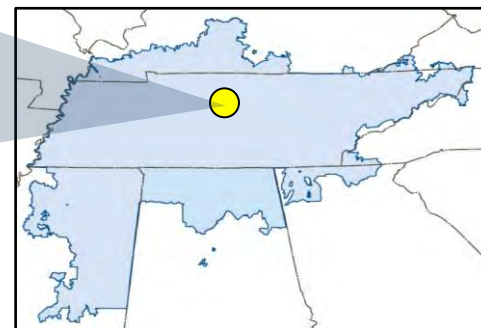


### DESCRIPTION:

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:

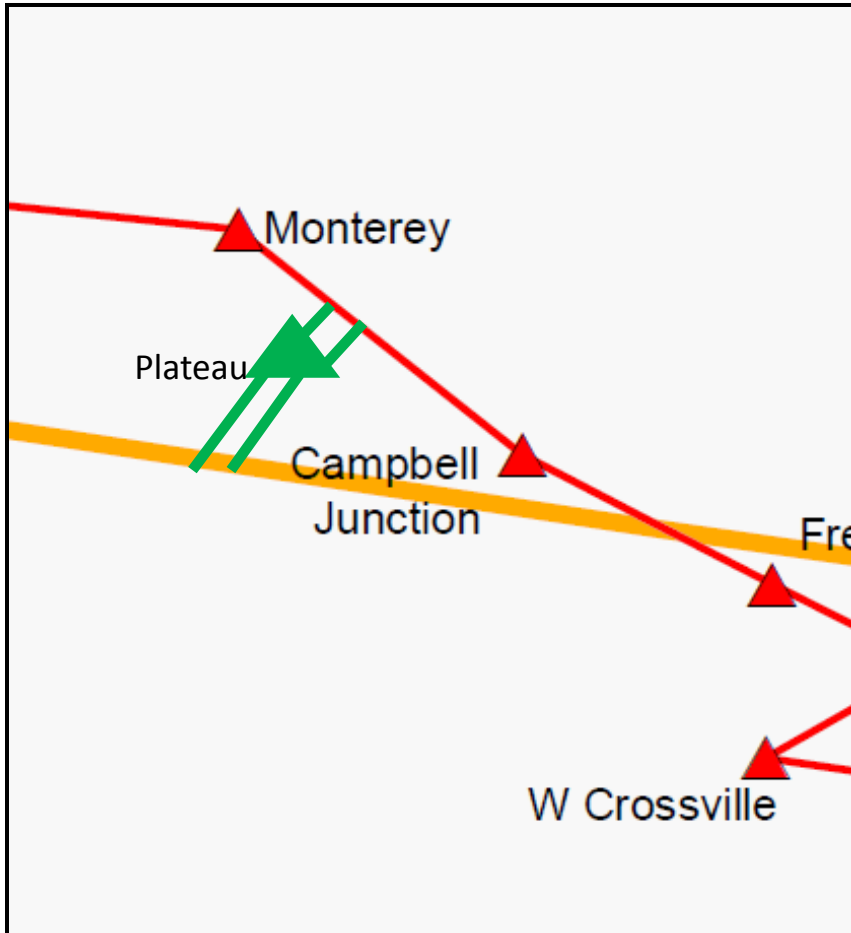
Thermal overloads and additional voltage support needed in the Nashville area under contingency.



## TVA – 7

2018

### PLATEAU 500 KV SUBSTATION

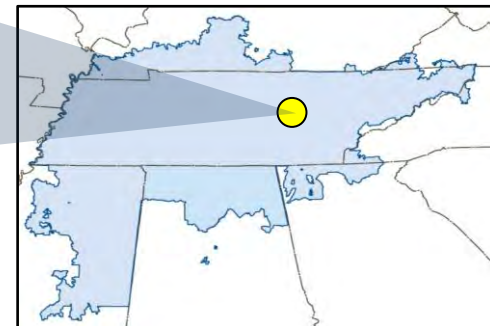


#### DESCRIPTION:

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

#### SUPPORTING STATEMENT:

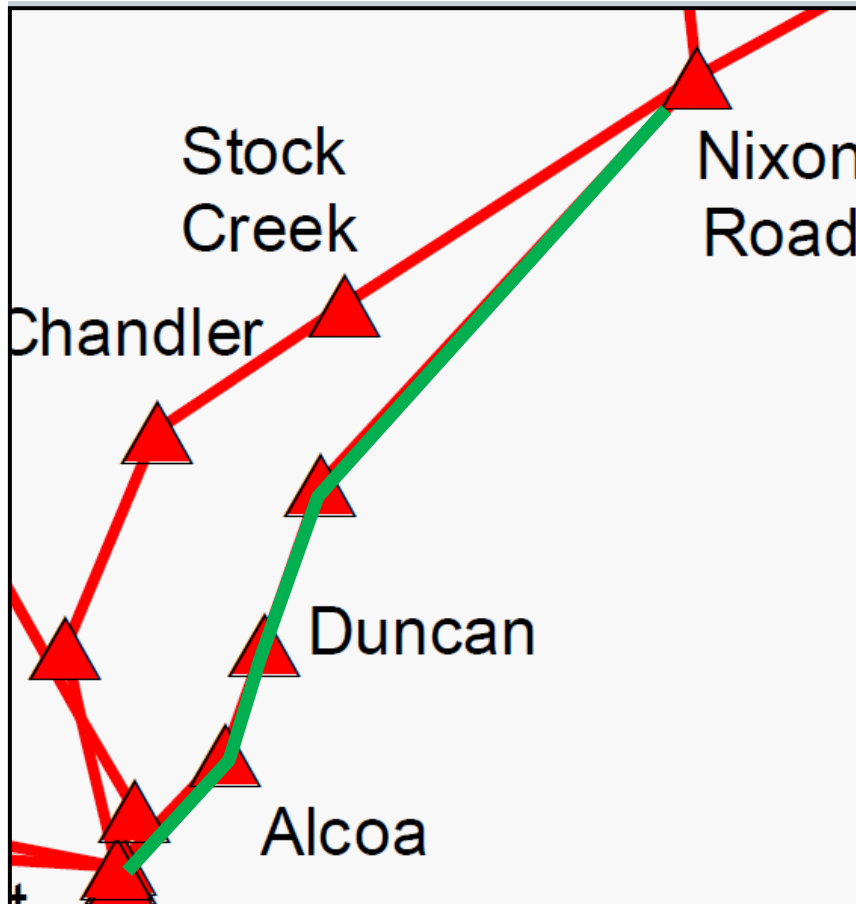
Thermal overload and need for additional voltage support in the Murfreesboro, TN and Knoxville, TN areas under contingency.



## TVA – 8

2019

### ALCOA SS – NIXON ROAD 161 KV T.L.

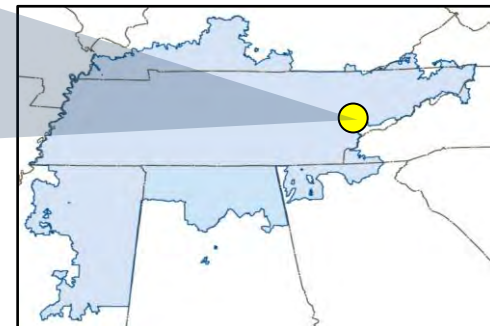


#### DESCRIPTION:

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:

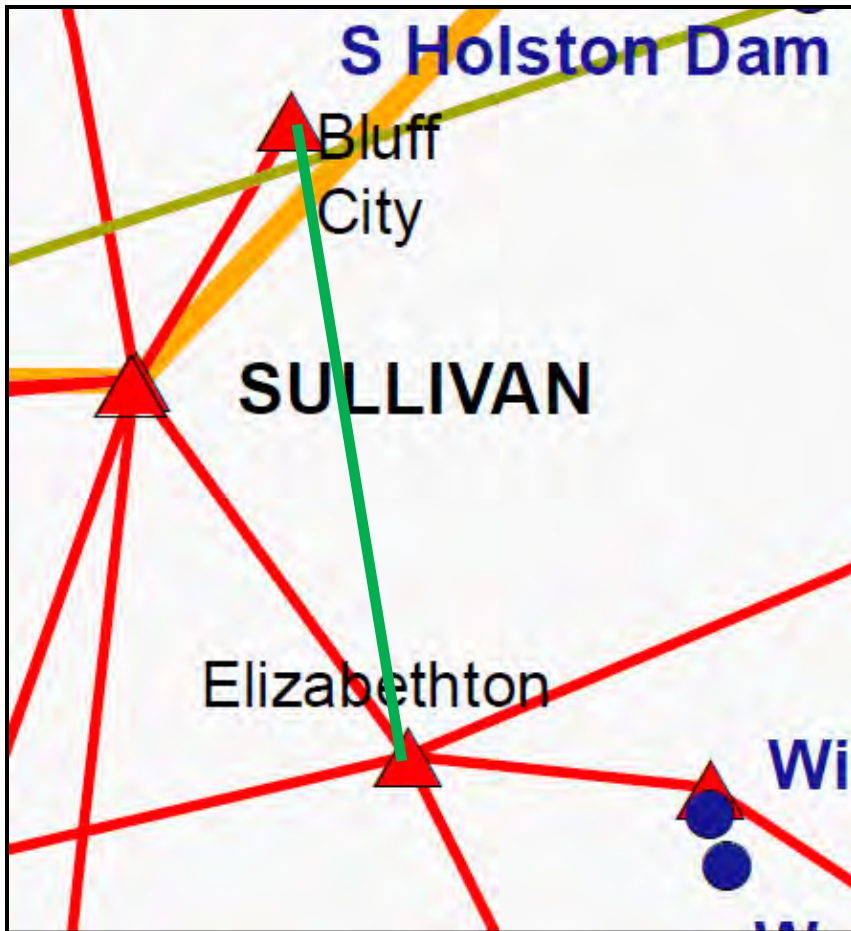
The Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.



## TVA – 11

2020

### BLUFF CITY – ELIZABETHTON 161 KV T.L.

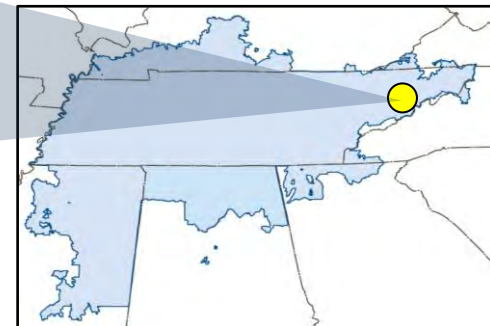


#### DESCRIPTION:

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.

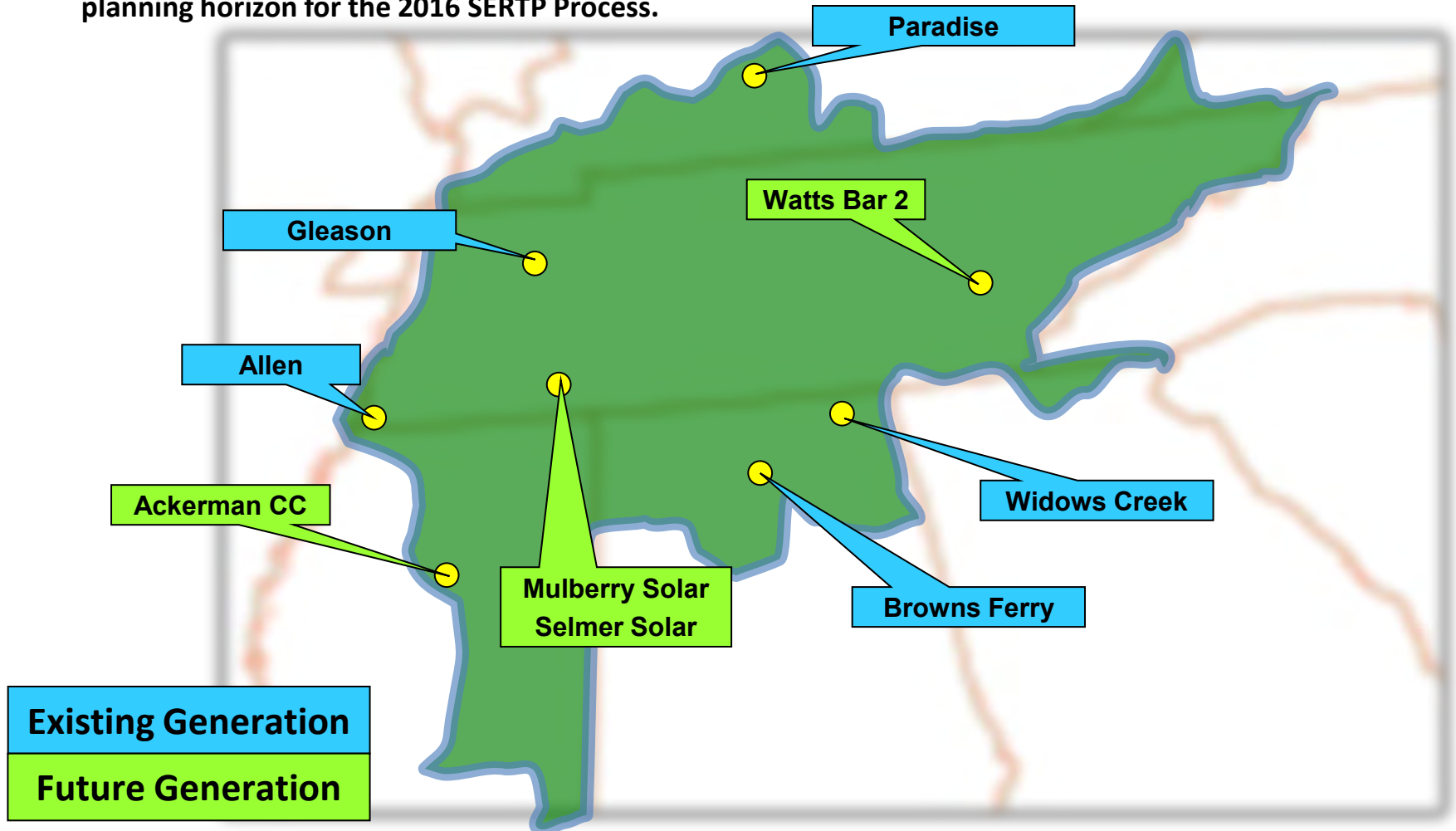




**TVA Balancing Authority**  
**Upcoming 2016**  
**Generation Assumptions**

# 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
WATTS BAR UNIT 2	1155	1155	1155	1155	1155	1155	1155	1155	1155	1155
GLEASON 1	173	173	173	173	173	173	173	173	173	173
GLEASON 2	173	173	173	173	173	173	173	173	173	173
GLEASON 3	174	174	174	174	174	174	174	174	174	174
PARADISE 1-2	0	--	--	--	--	--	--	--	--	--
PARADISE CC	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015
WIDOWS CREEK 7	0	--	--	--	--	--	--	--	--	--
SELMER SOLAR	16	16	16	16	16	16	16	16	16	16
MULBERRY SOLAR	16	16	16	16	16	16	16	16	16	16
ACKERMAN CC	673	673	673	673	673	673	673	673	673	673

## TVA – Generation Assumptions

SITE	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
BROWNS FERRY UNIT 3	1108	1242	1242	1242	1242	1242	1242	1242	1242	1242
ALLEN 1-3	741	0	--	--	--	--	--	--	--	--
ALLEN CC	--	1082	1082	1082	1082	1082	1082	1082	1082	1082
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

# Questions?

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