

South Carolina Regional Transmission Planning

Stakeholder Meeting

Hilton Garden Inn Charleston Airport

North Charleston, SC

January 24, 2017

Purpose and Goals for Today's Meeting

- Review and Discuss Key Assumptions and Data for the Next Planning Cycle
- Regional Transmission Planning Activities
- Review and Discuss Major Transmission Expansion Plans
- Reliability Assessments and Multi-Party Studies

Key Assumptions and Data for the Next Planning Cycle

SCE&G - Phil Kleckley

Modeling Assumptions and Data

Dispersed Substation Load Forecast

- Summer/Winter Peak, Off-Peak and Seasonal Load Levels
- Resource Planning provides 10 Year system load forecasts
- Transmission Planning creates dispersed substation load forecasts

Load Forecast Process

Resource Planning Input

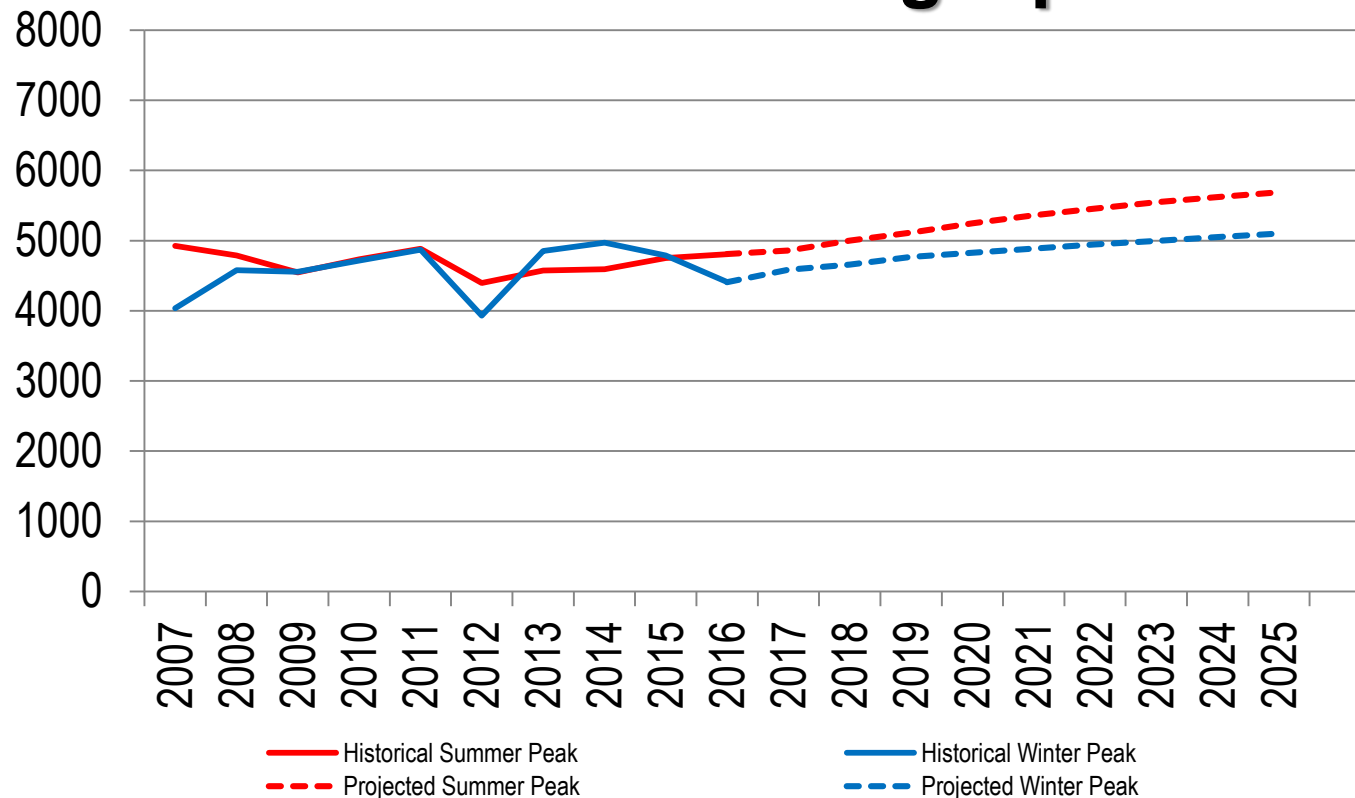
- Develop 10 year projected forecast based on:
 - 10 year historical load summer and winter loads
 - Load factors by customer class
 - Considers weather, personal income, population growth, economic conditions, load management, energy efficiency, etc
 - Applies regression analysis to historical data to develop models
 - Applies forecasted growth rates to develop future projections

SCE&G 10 Year Load Forecast

	<u>Summer</u>		<u>Winter</u>
2016	4,750 MW	2016/2017	4,531 MW
2017	4,860 MW	2017/2018	4,586 MW
2018	4,999 MW	2018/2019	4,659 MW
2019	5,114 MW	2019/2020	4,767 MW
2020	5,245 MW	2020/2021	4,827 MW
2021	5,362 MW	2021/2022	4,885 MW
2022	5,457 MW	2022/2023	4,945 MW
2023	5,547 MW	2023/2024	4,998 MW
2024	5,623 MW	2024/2025	5,050 MW
2025	5,690 MW	2025/2026	5,100 MW

Load Forecast Process

Resource Planning Input



Load Forecast Process

Transmission Planning Input

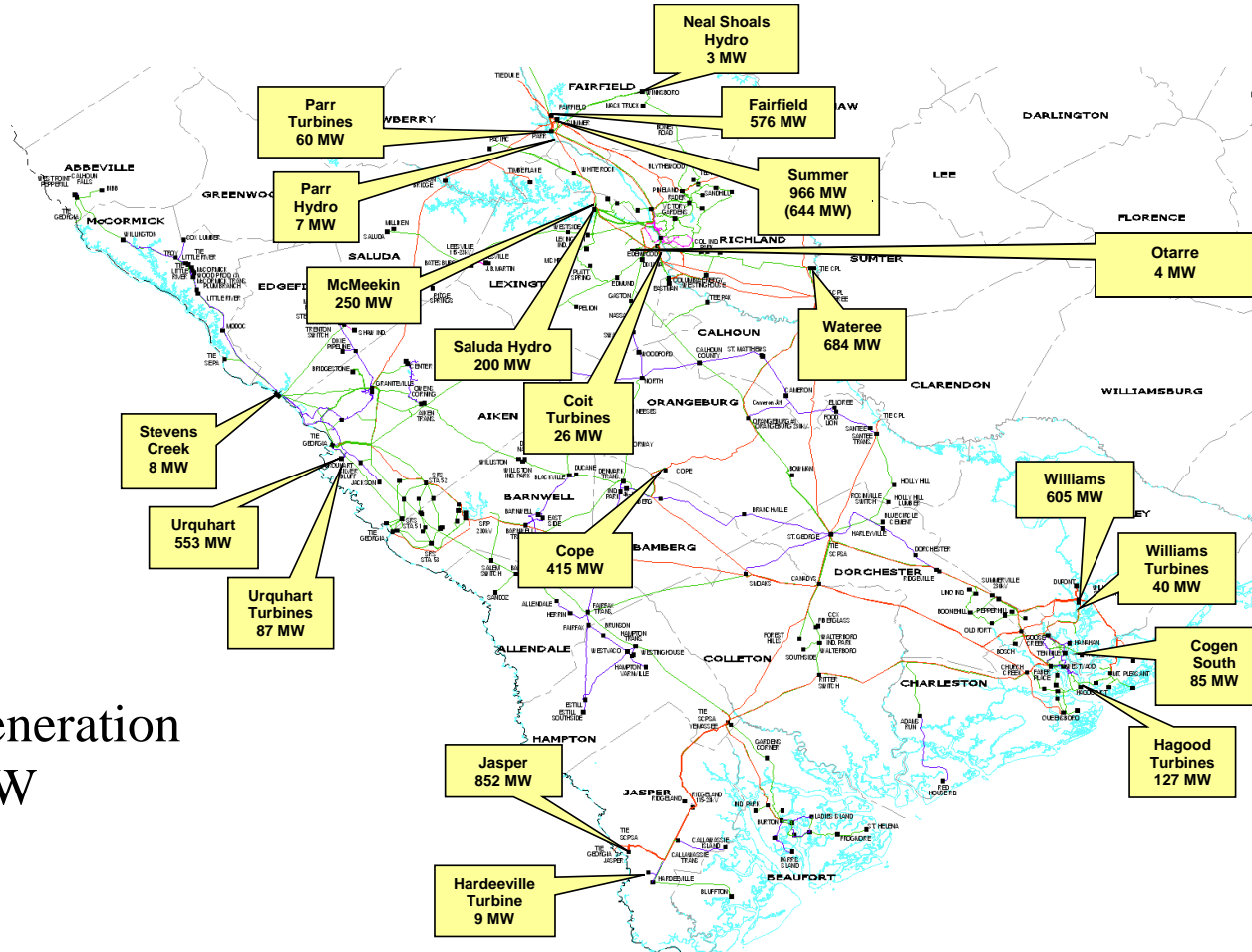
- Obtain summer and winter snapshot meter data from most recent seasons and adjust for load switching
- Develop 10 year projected forecast based on:
 - 10 year historical loading
 - Feedback from Distribution Planning, Local Managers, Large Industrial Group and Transmission Services Manager
- Wholesale loads are modeled as provided by the customer
- Dispersed forecasted load points are integrated into Corporate forecasted load

Modeling Assumptions and Data

Generation

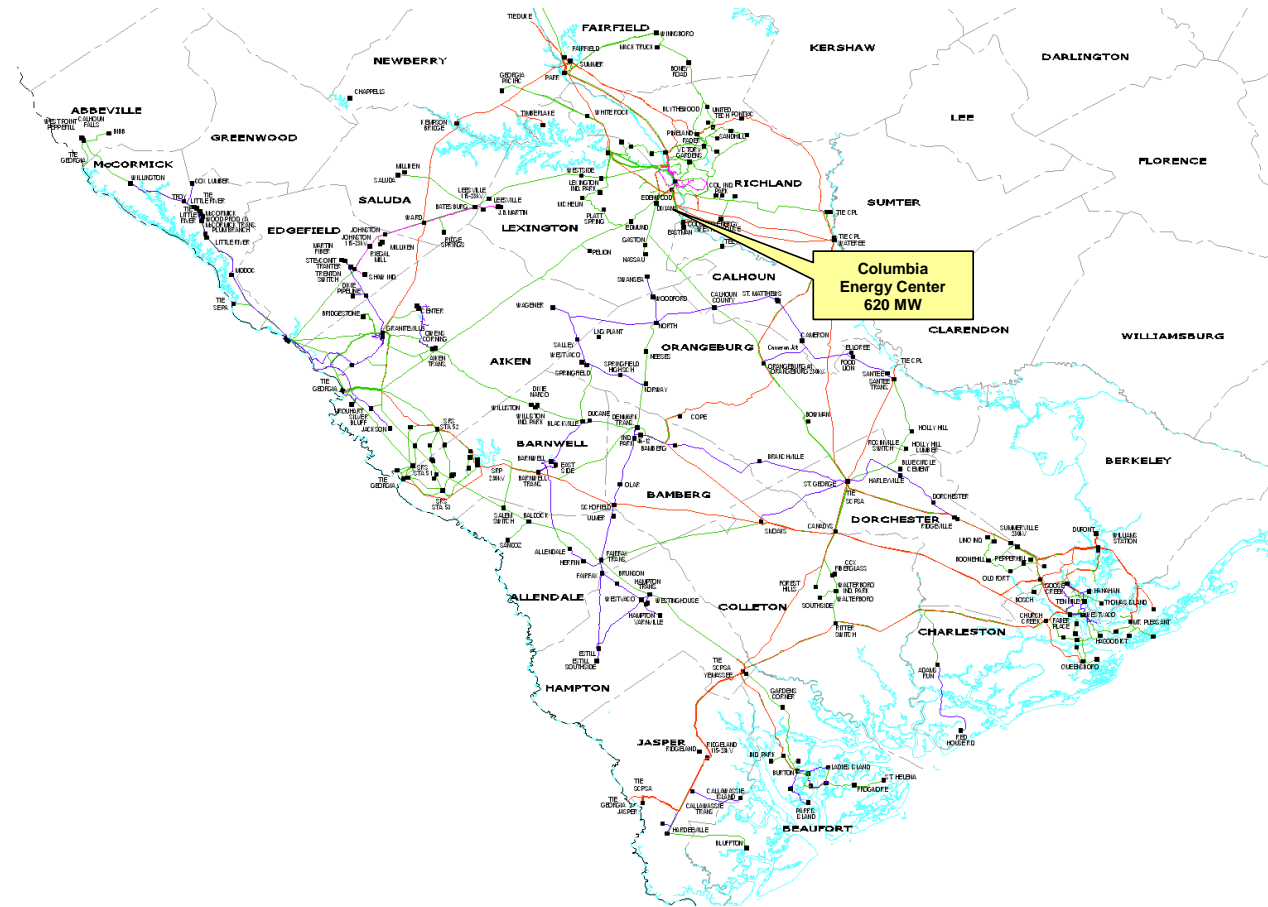
- Annual generator ratings used
- Input from Generation Expansion Plan – Reductions/Additions
- Input from Generation Maintenance Schedule
- Generators dispatched economically
- Merchant Generators included, modeled at contracted output

Existing Generation



Rated Generation
5,231 MW

Merchant Generation

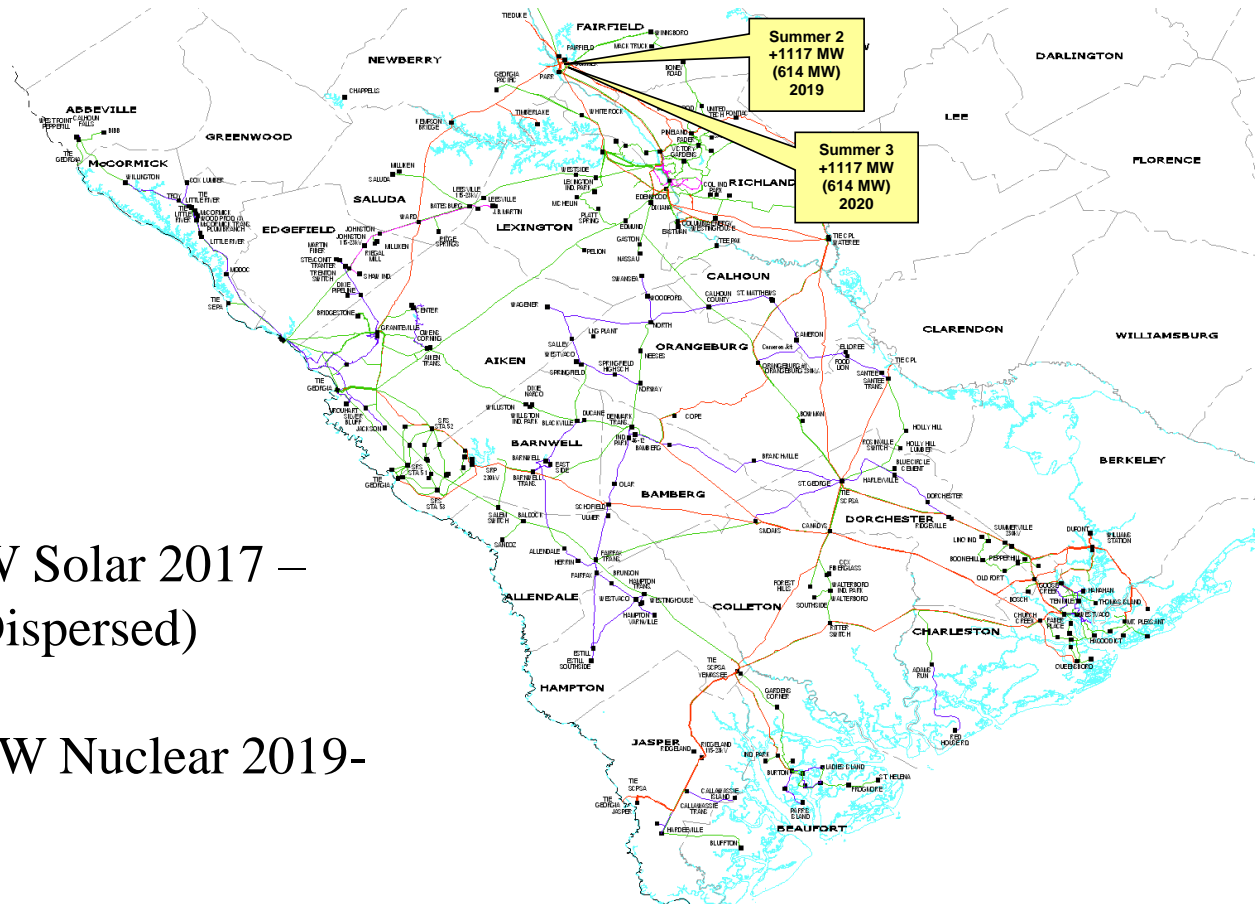


Generation Plan Additions

- 270 MW solar under construction for 2017-2018
- 345 MW future solar Interconnection Agreements
- 1117 MW of SCE&G/Santee Cooper Base Load Nuclear Generation planned for 2019 (V. C. Summer #2)
- 1117 MW of SCE&G/Santee Cooper Base Load Nuclear Generation planned for 2020 (V. C. Summer #3)



Generation Additions



270 MW Solar 2017 – 2018 (Dispersed)

1228 MW Nuclear 2019-2020

Modeling Assumptions and Data

Transmission Network

- Input from Transmission Plan
- Neighboring Transmission Systems Modeled

Modeling Assumptions and Data

Planned Transmission Facilities

8/8/2016

South Carolina Electric & Gas Planned Transmission Facilities

Planned Project	Tentative Completion Date
Okatie 230/115 kV Sub Construct and Line Upgrades	Mar-17
Okatie - Hardeeville 115 kV #2 Line Construct	May-17
Thomas Island - Jack Primus 115 kV Line Construct	May-17
Lyles - Williams St 115 kV Rebuild	May-17
AM Williams - Cainhoy 230 kV #2 and 115 kV #2 Line Construct	May-17
Cainhoy - Hamlin Tap 115 kV Line Section Rebuild to Double Circuit	May-17
Jack Primus 115 kV Line Construct	May-17
Cainhoy 230/115kV Sub: Construct and Line Upgrades	May-17
Orangeburg 230kV Sub: Fold in VCS2-St.George #1 Line	May-17
St. George-Canadys 230 kV upgrade	May-17
Faber Place-Hagood 115 kV #2 Construct	Dec-17
Urquhart Replace Switch House	Dec-17
Urquhart - Graniteville 230 kV #2 Line Construct	Dec-17
Faber Place-Charlotte Street 115 kV Line Upgrade	Dec-17
Lake Murray-Harbison 115 kV Rebuild SPDC	Dec-17

Modeling Assumptions and Data

System Interchange

- Firm scheduled transfers included
- Coordinated with Neighbors

Key Assumptions and Data for the Next Planning Cycle

Santee Cooper - Weijian Cong

Components

- Demand Forecast
- Transmission Network
- Generation Resources
- Actual System Operations

Demand Forecast

Load forecast is developed with contributions from:

- Santee Cooper (retail, industrial)
- Central Electric Power Cooperative, Inc. (retail, industrial)
- Cities of Bamberg and Georgetown (municipal)

Transmission Network

Models include:

- Existing transmission system as well as committed Santee Cooper additions (uncommitted facilities are subject to change in scope or date).
- Confirmed firm PTP transmission service reservations
- Neighboring transmission system representations
- All facilities assumed to be available for service
- Normal operating status (in-service or OOS) of facilities is represented.

Transmission Network

- Uniform rating methodology is applied to transmission facilities.
- Base case models are updated annually (beginning of the year).
- Study models may be updated prior to any study effort.

Committed Transmission Facilities in the study Cases

Bucksville-Myrtle Beach 115 kV Line	12/31/2016
Richburg-Flat Creek 230 kV Line	05/01/2017
Perry Road-Myrtle Beach #3 115 kV Line	06/01/2017
Pine Level-Allen #2 115 kV Line	06/01/2017
New Harleys Bridge 115-69 kV Substation	12/31/2017
Carnes Crossroads-Harleys Bridge 115 kV Line via McQueen Phase I	12/31/2017
Sandy Run 230-115 kV Substation	05/31/2018
Add Bucksville 230-115 kV Transformer #2	06/01/2018
Pomaria-Sandy Run 230 kV Line	06/30/2019
Sandy Run-Orangeburg 230 kV Line	06/30/2019
Marion-Red Bluff 230 kV Line	12/31/2019

Generation Resources

Existing Transmission Connected Generation

Cross 1- 4

J.S. Rainey Power Block 1

Winyah 1- 4

J.S. Rainey 2A, 2B

Hilton Head Turbines 1- 3

J.S. Rainey 3-5

Myrtle Beach Turbines 1-5

Spillway (Hydro)

Jefferies 1, 2, 3, 4, 6 (Hydro)

St. Stephen 1-3 (Hydro)

Allendale (biomass)

V.C. Summer #1

Dorchester (biomass)

Domtar (co-gen)

Generation Resources

Projected Capacity in Models

V. C. Summer #2 (2019)

V. C. Summer #3 (2020)

Actual System Operations

- Network Transmission Lines Operated Split
 - Newberry-Batesburg 69 kV Line
 - Winnsboro-Pomaria 69 kV Line
 - Winnsboro-Richburg 69 kV Line #1

Key Assumptions and Data for the Next Planning Cycle

Stakeholder Input and Questions?

SCRTP Regional and Inter-regional Processes

Clay Young

SCRTP Regional and Public Policy Planning

- Biennial Process (currently in year 1, Meeting #1)
- Restarts in 4th quarter of even years
- Regional Projects – Proposed, Evaluation and Selection
 - **Must be submitted by January 15 of odd years**
 - None received in current Regional Planning cycle

During this meeting:

- Transmission Providers present the Local and Regional Transmission Plans
- Stakeholders discuss those Plans
- If submitted by stakeholders, Transmission Providers announce which Transmission Needs driven by Public Policy Requirements will have transmission solutions evaluated

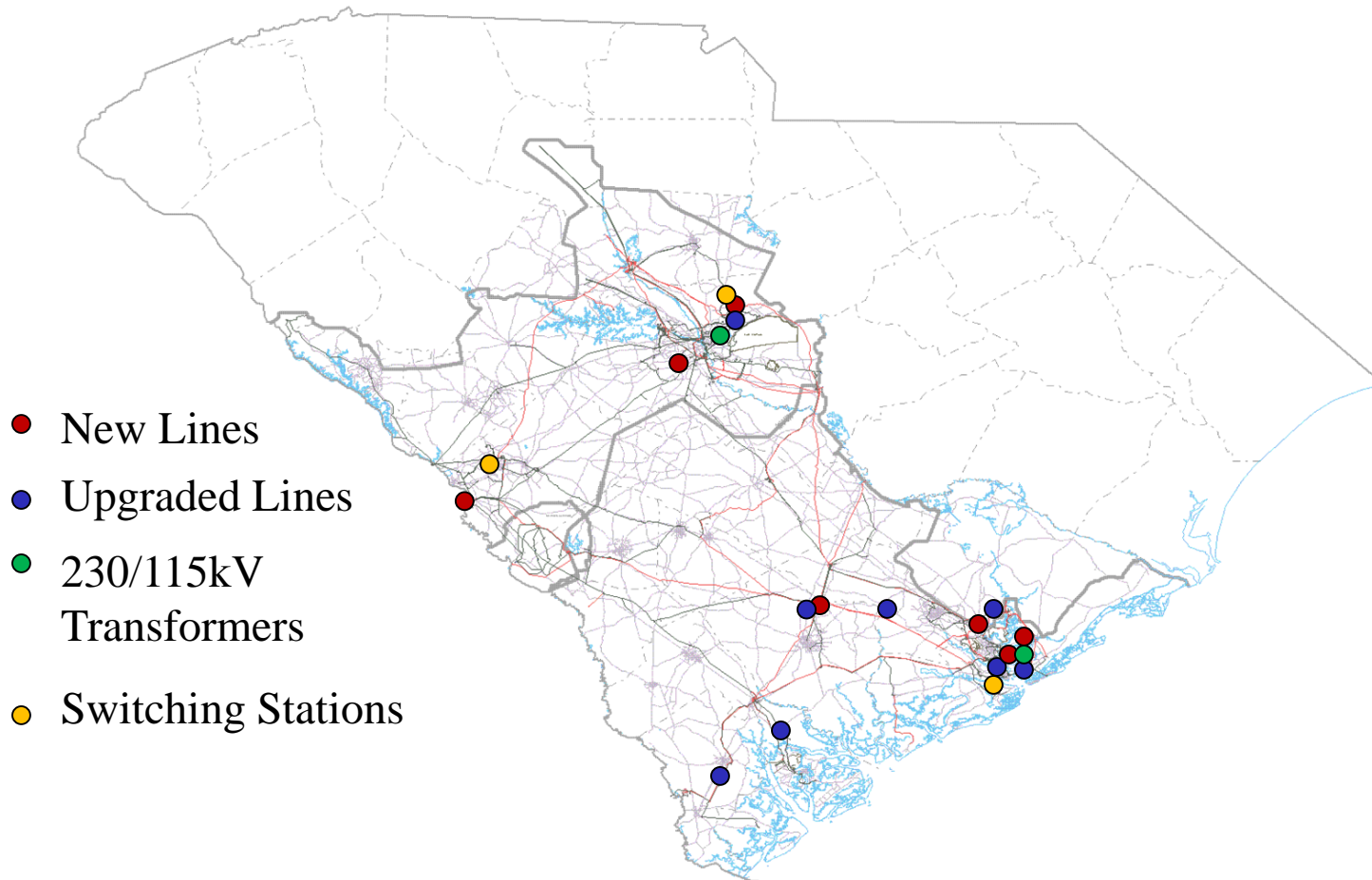
Current Major Transmission Expansion Plans

SCE&G - Jeff Neal

Disclaimer

- These projects represent the current transmission plans within the SCRTP footprint
- The expansion plan is continuously reviewed and may change due to changes in key data and assumptions
- This presentation does not represent a commitment to build

SCE&G Planned Projects



SCE&G Current Projects

- **Active Projects**

- VCS2 – Orangeburg & Saluda River 230 kV Construct (NND)
- St. George – Summerville 230 kV #1&2 (NND/System Improvement)
- Orangeburg 115 kV Add Terminal/Re-terminations (System Improvement)
- Orangeburg 230 kV Fold-in (System Improvement)
- Blythewood 115 kV Switching Station (System Improvement)
- Toolebeck 115 kV Switching Station (System Improvement)
- Cainhoy 230/115 kV Transmission Substation (System Improvement)
- Williams – Mt. Pleasant/Cainhoy 115 kV Rebuild (System Improvement)

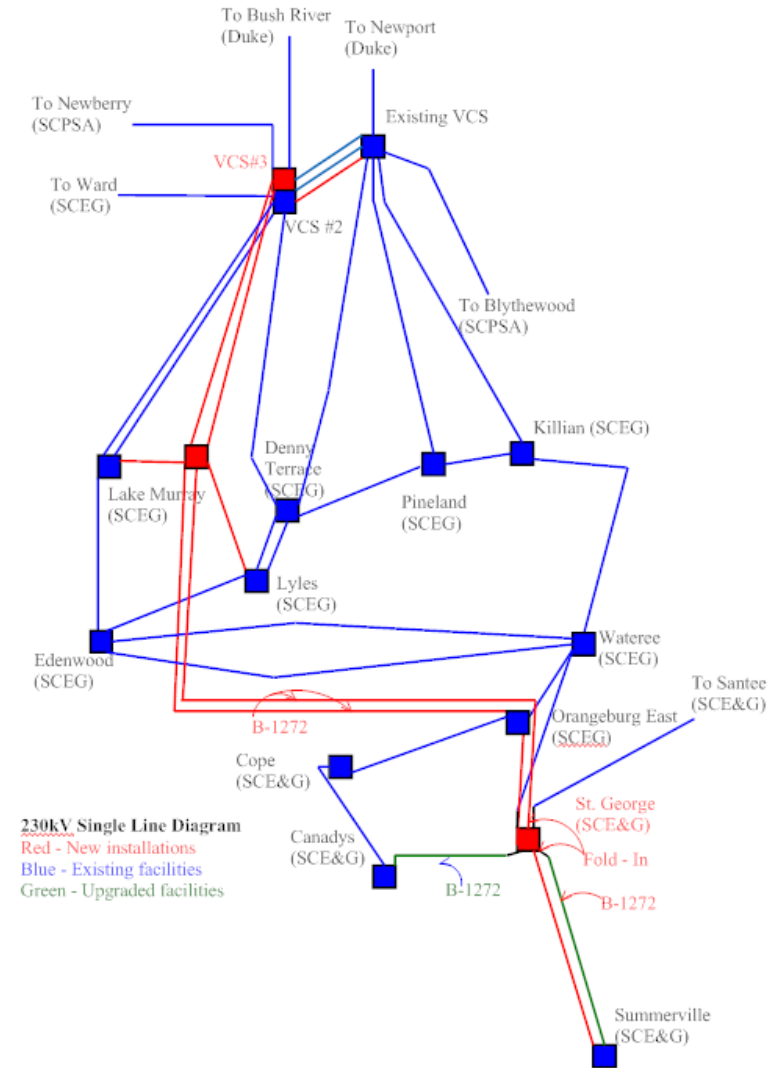
SCE&G Current Projects

- **Future Projects**
 - Burton – Yemassee 115kV #2 Rebuild (System Improvement)
 - Canadys – Ritter 115 kV Rebuild SPDC 230/115 kV (System Improvement)
 - SRS – Vogtle 230 kV Series Reactor Install (System Improvement)
 - South Augusta – Graniteville 230 & 115 kV tie lines (System Improvement)

Active Projects

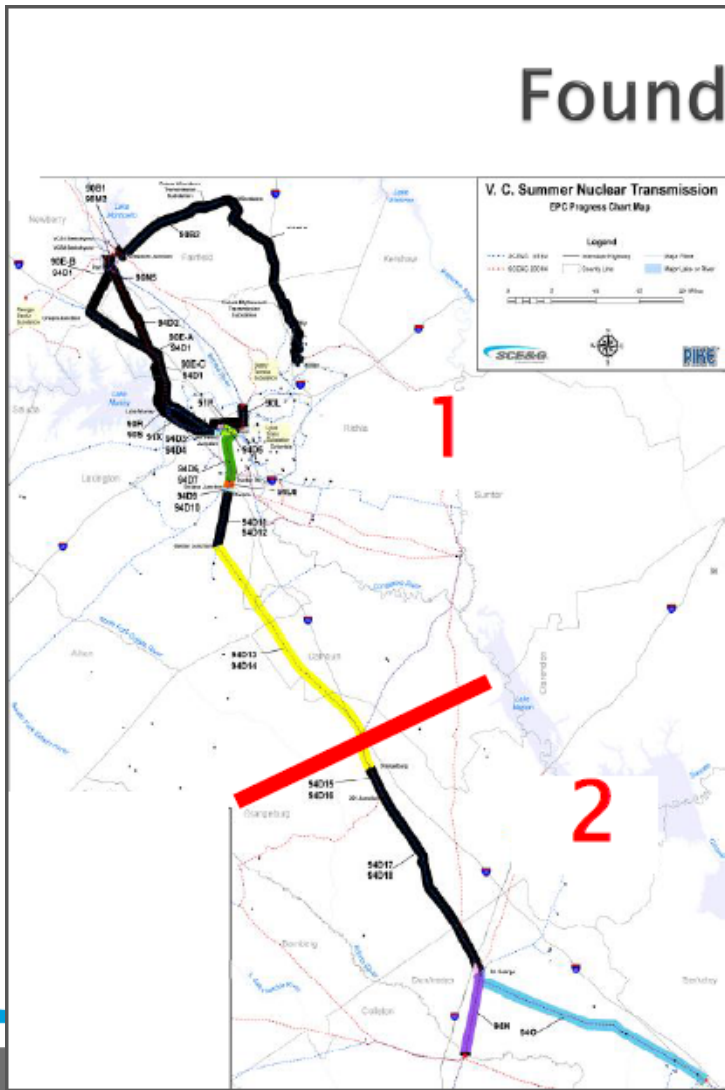
SCE&G NND Unit 3 Transmission Progress

- VCS2 – St. George #1 & #2 230 kV
 - Approximately 75% complete
 - Will be clear of Columbia by August 2017
 - Final segment of 13 miles into Orangeburg complete by December 2018
- St. George – Summerville #1 & #2 230 kV
 - Approximately 50% complete by May 2017
 - Placed in service over summer periods
 - Scheduled for completion May 2018



SCE&G NND Unit 3 Transmission Progress

Foundations

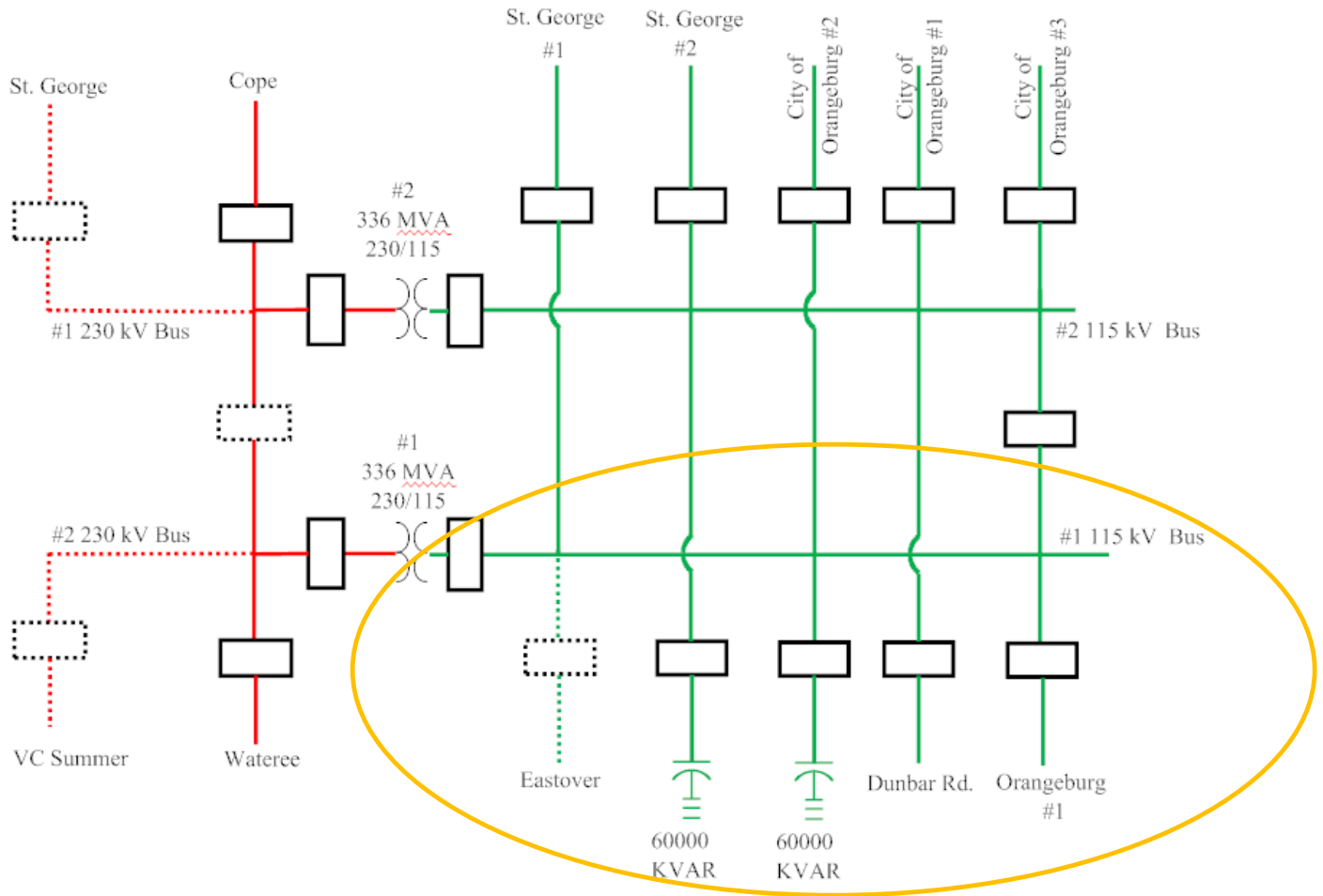


1. Solid Clay/Sand/PWR/Solid Rock
 - ▶ Tangents
 - ▶ Direct Embeds
 - ▶ Dead Ends and Large Angles
 - ▶ Drilled Pier Concrete Foundations

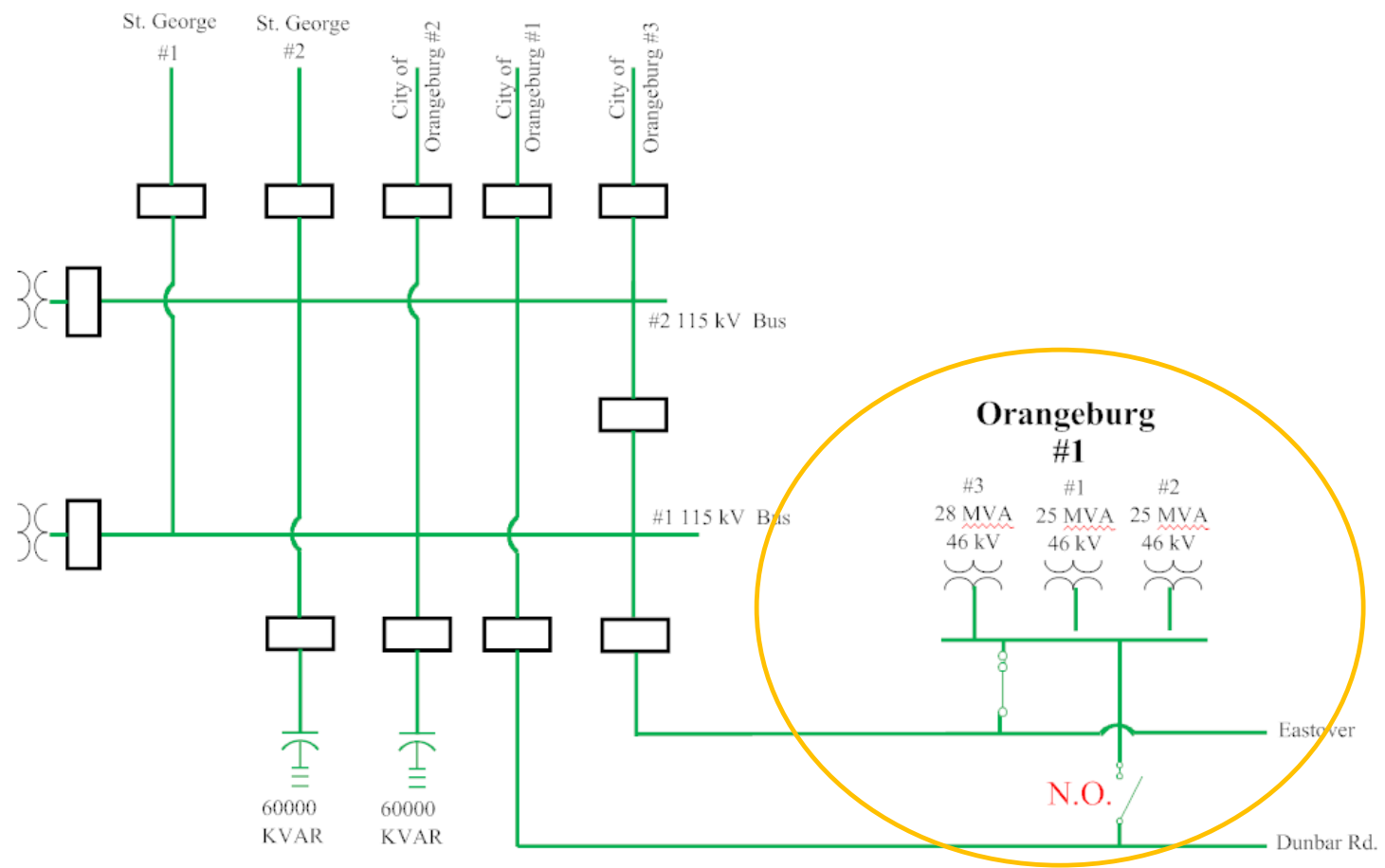
2. Weak Clay/Sand/Cooper Marl
 - ▶ Tangents, Angles, and Dead Ends
 - ▶ Vibratory Caissons

Orangeburg 115 kV Add Terminal/Re-terminations

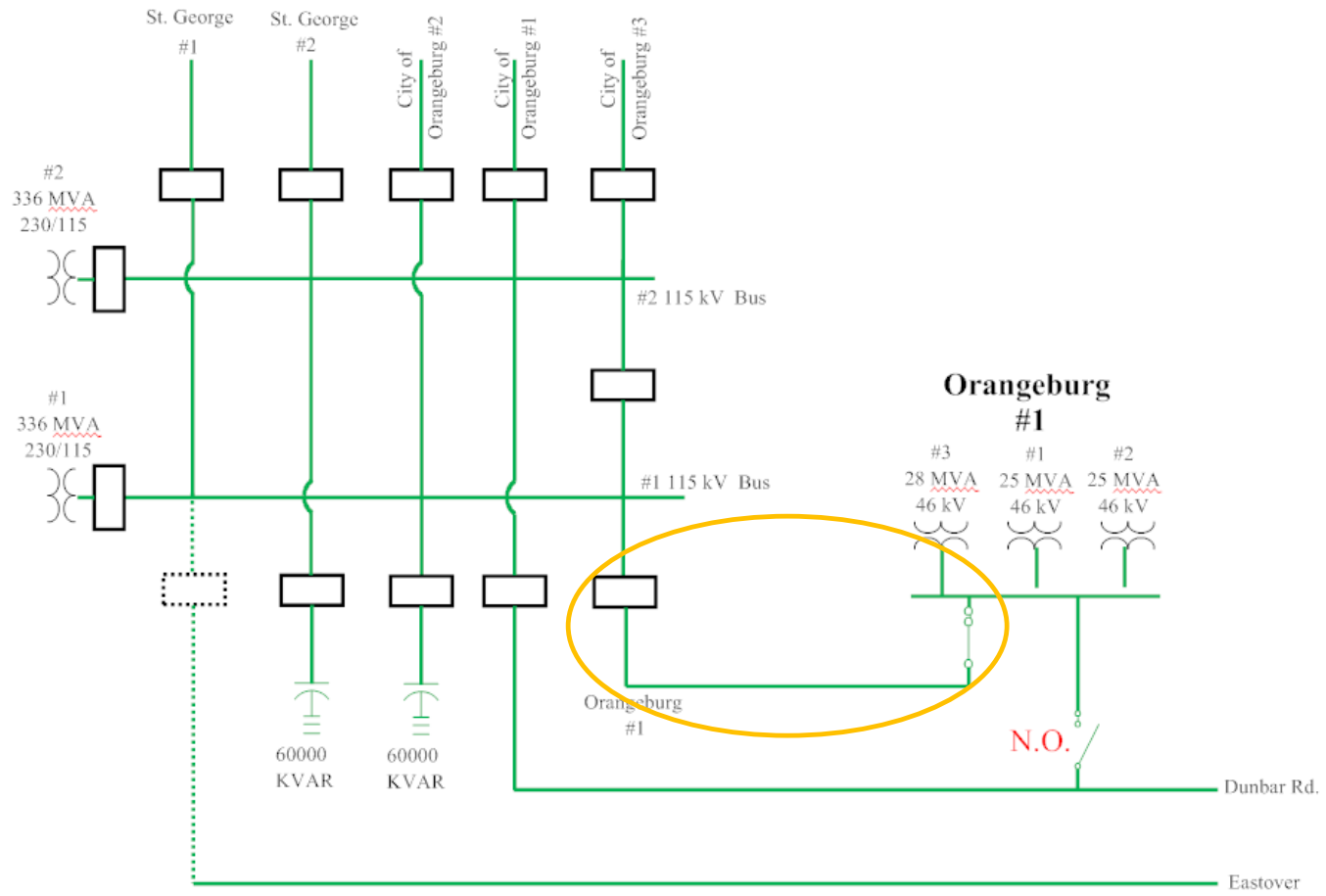
- Add new 115 kV terminal on #1 115 kV bus
- Re-terminate the Eastover – Orangeburg 115 kV line to new terminal
- Place Orangeburg #1 115/46 kV substation on dedicated feed from Orangeburg East with one way GOAB back-up feed from Dunbar Rd. – Orangeburg East 115 kV line
- Reduces exposure to industrial and wholesale customers tapped off of Eastover – Orangeburg East 115 kV line
- Eliminates the need for relay blocking scheme required to protect 115 kV network line from seeing faults on 46 kV transmission system
- Scheduled for completion by May 2017



Orangeburg East 230/115 kV Substation Future



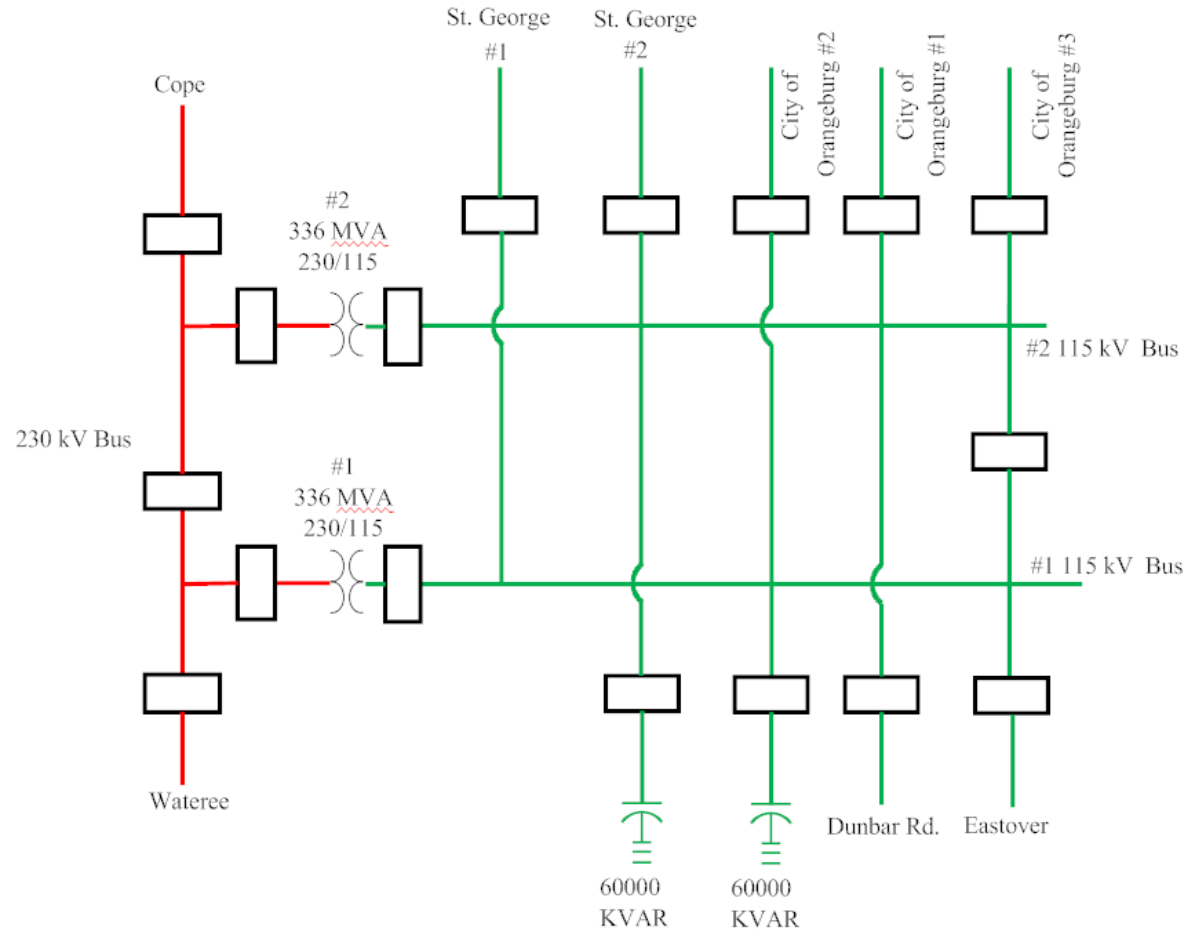
**Orangeburg East 230/115 kV Substation
Present 115 kV Layout**



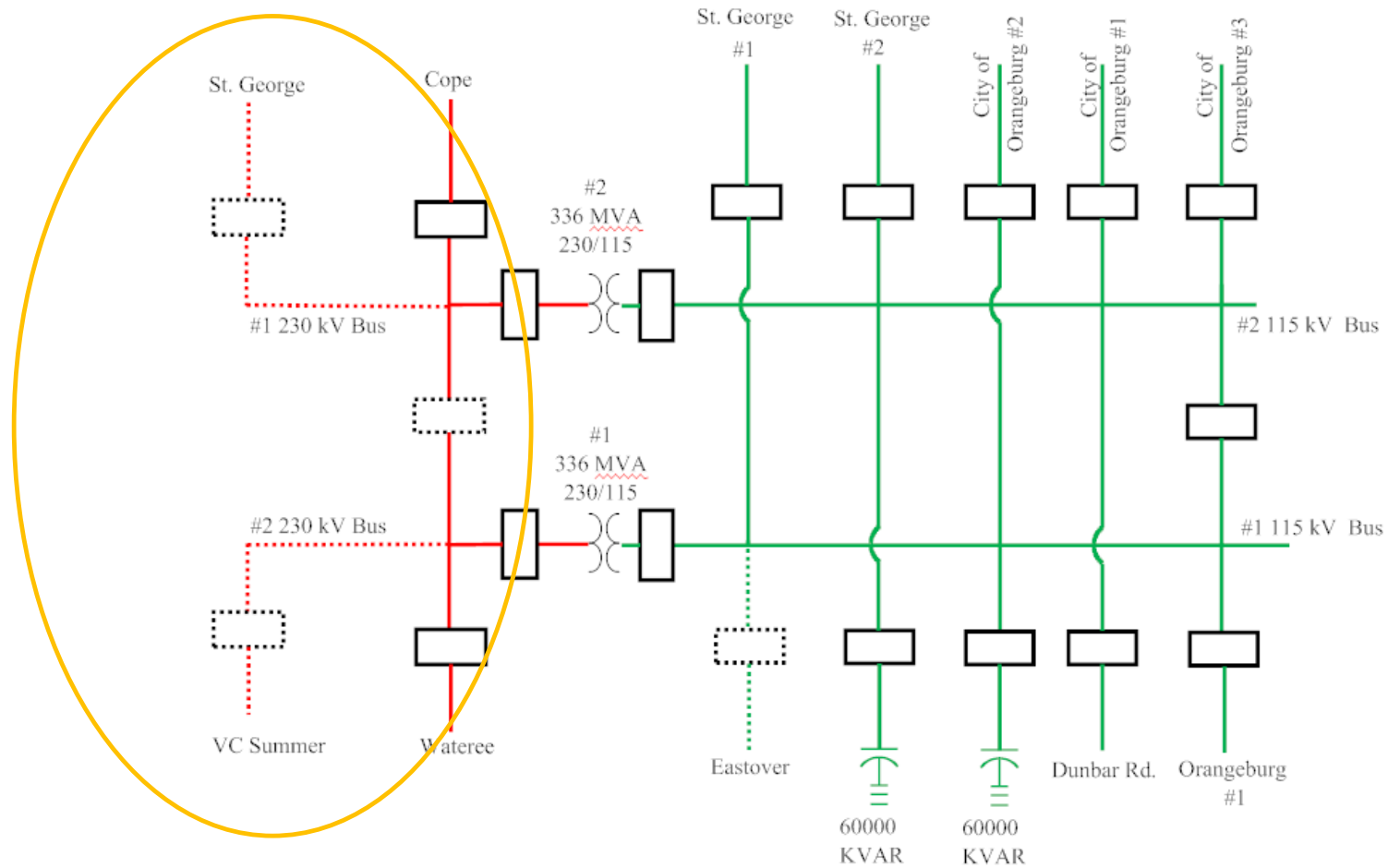
**Orangeburg East 230/115 kV Substation
Future 115 kV Layout**

Orangeburg VCS2 – St. George 230 kV Fold-In

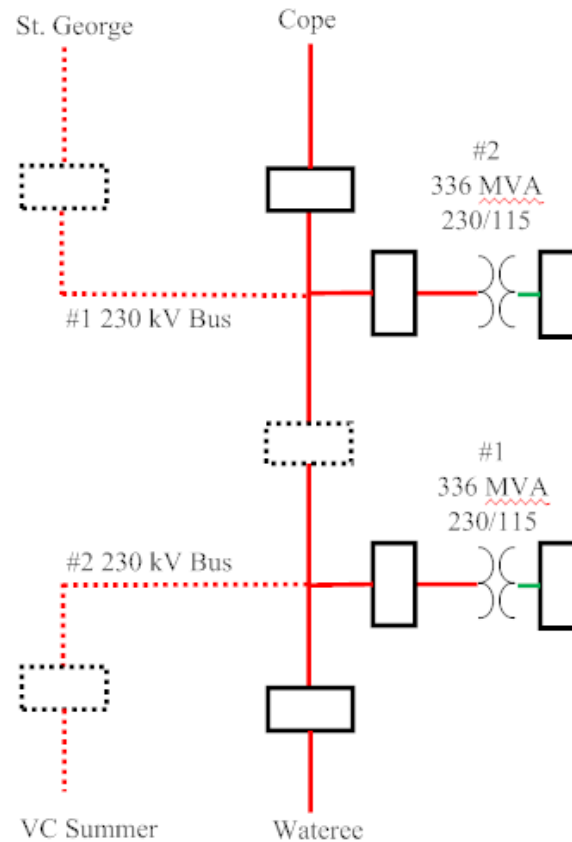
- Add two 230 kV terminals on #1 & #2 230 kV bus
- Fold in the VCS2 – St. George 230 kV line at the Orangeburg 230/115 kV Transmission substation
- Replace 2000 Amp bus-tie breaker with 3000 Amp breaker
- Project now required to alleviate potential N-2 contingency overload associated with retirement of Canadys Coal fired generators
- Increased support of Orangeburg 230 kV will decrease the burden of the 115 kV system in Orangeburg/St. George areas
- Scheduled for completion by December 2017



**Orangeburg East 230/115 kV Substation
Present**

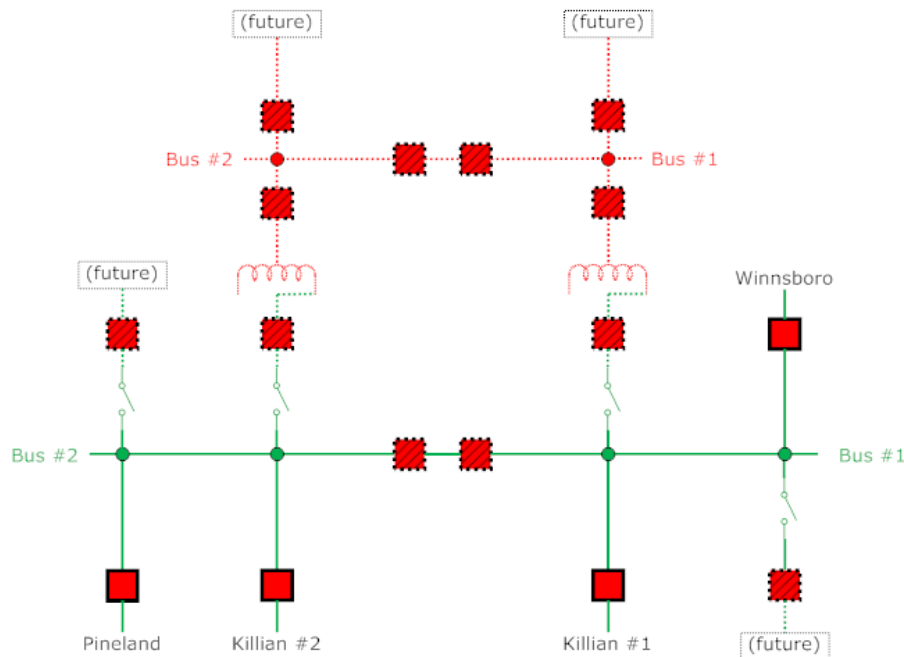


**Orangeburg East 230/115 kV Substation
Future**

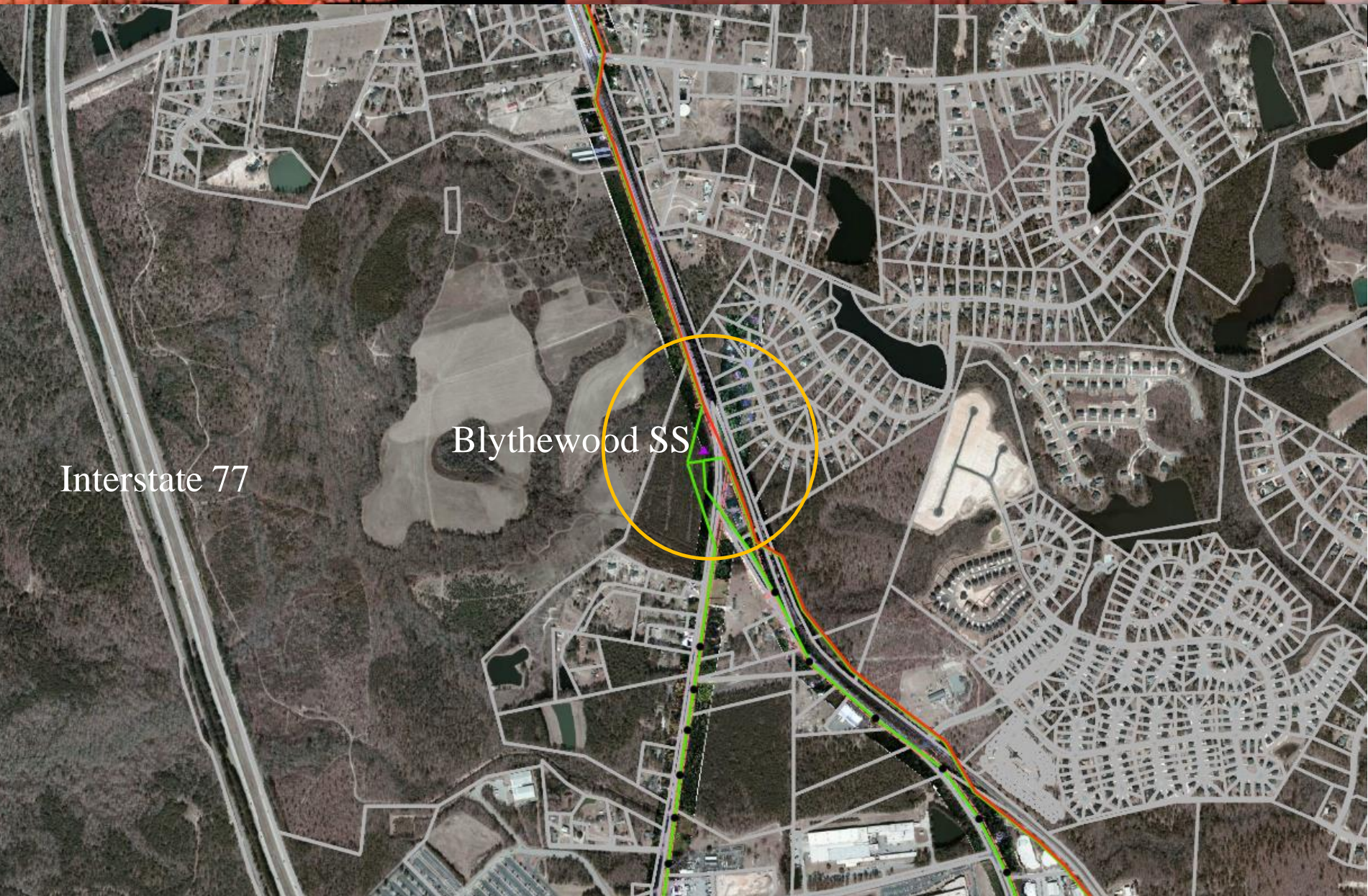


Orangeburg East 230/115 kV Substation Future 230 kV Fold-In

Blythewood 115 kV Switching Station



- Tentative completion date of **March 2017**
- Construct 115 kV transmission substation near existing in Blythewood
 - Four 115 kV line terminals
 - Bus tie breaker (Future Back-to-Back)
 - Built to accommodate future growth, i.e. 230/115 kV transformation
- Fold-in of Pineland - Winnsboro 115 kV line
- Terminate new Killian – Blythewood 115 kV line
- NERC TPL System Improvement
 - Operating guides in place to alleviate potential branch overloads and voltage concerns

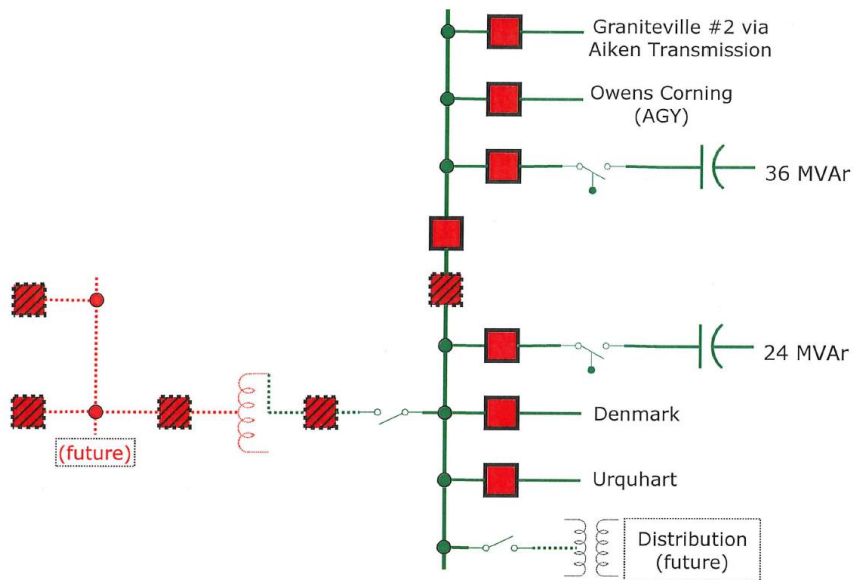


Blythewood SS

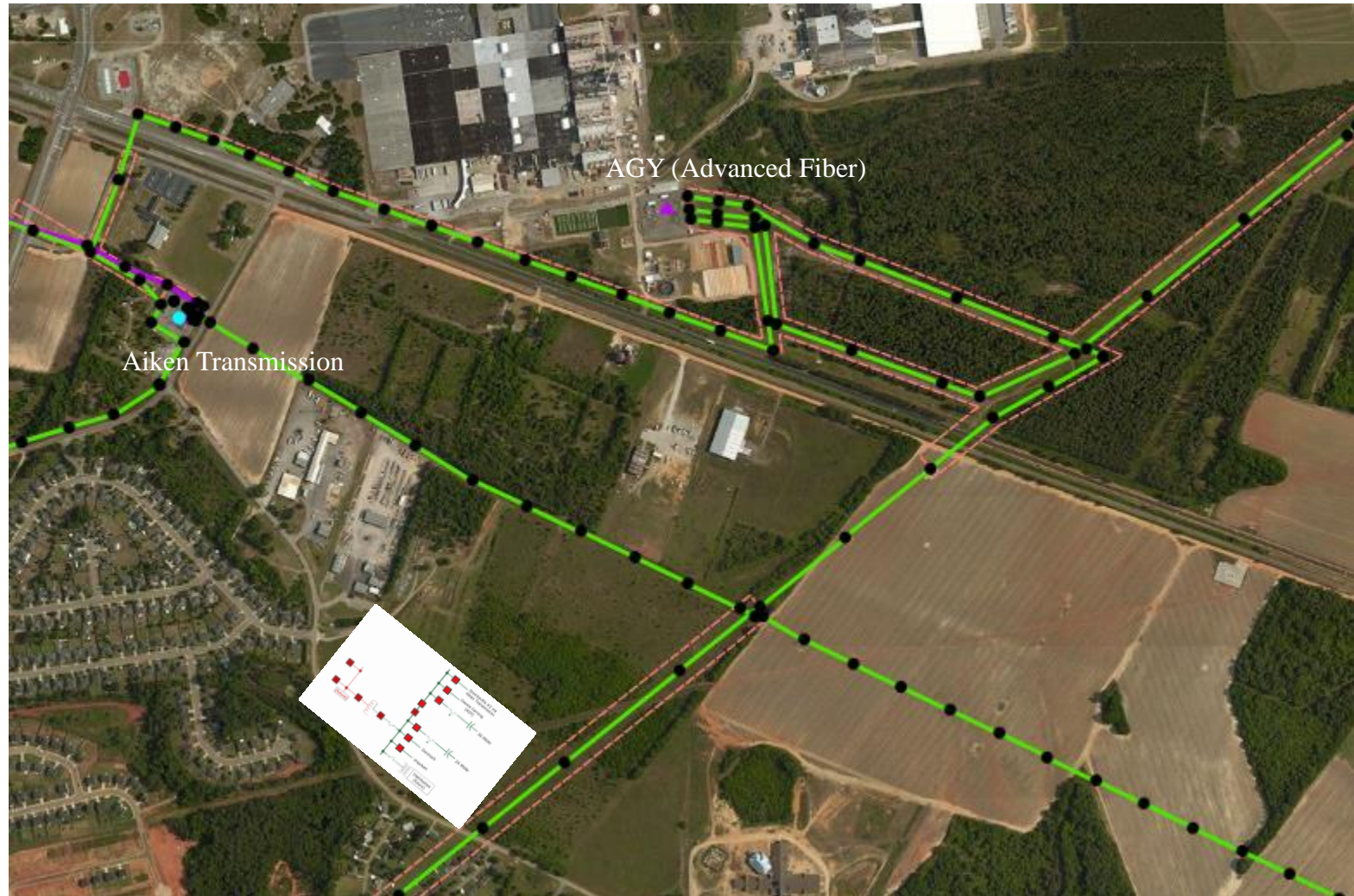
Interstate 77



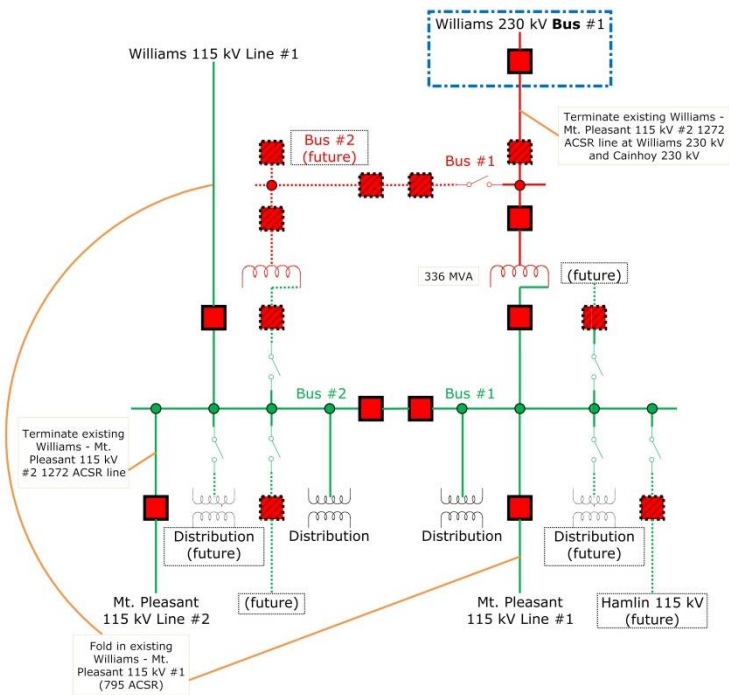
Toolebeck 115 kV Switching Station



- Completion date delayed to **May 2017**
- Construct 115 kV transmission substation near existing Aiken Transmission and Owens Corning substations
 - Four 115 kV line terminals
 - Bus tie breaker (Future Back-to-Back)
 - One 24 MVAR and one 36 MVAR capacitor
 - Built to accommodate future growth, i.e. 230/115 kV transformation and distribution transformer
- Fold-in of Urquhart – Owens Corning 115 kV line
- Fold-in of Aiken – Denmark 115 kV line
- NERC TPL System Improvement
 - Operating guides in place to alleviate potential branch overloads and voltage concerns



Cainhoy 230/115 kV Transmission

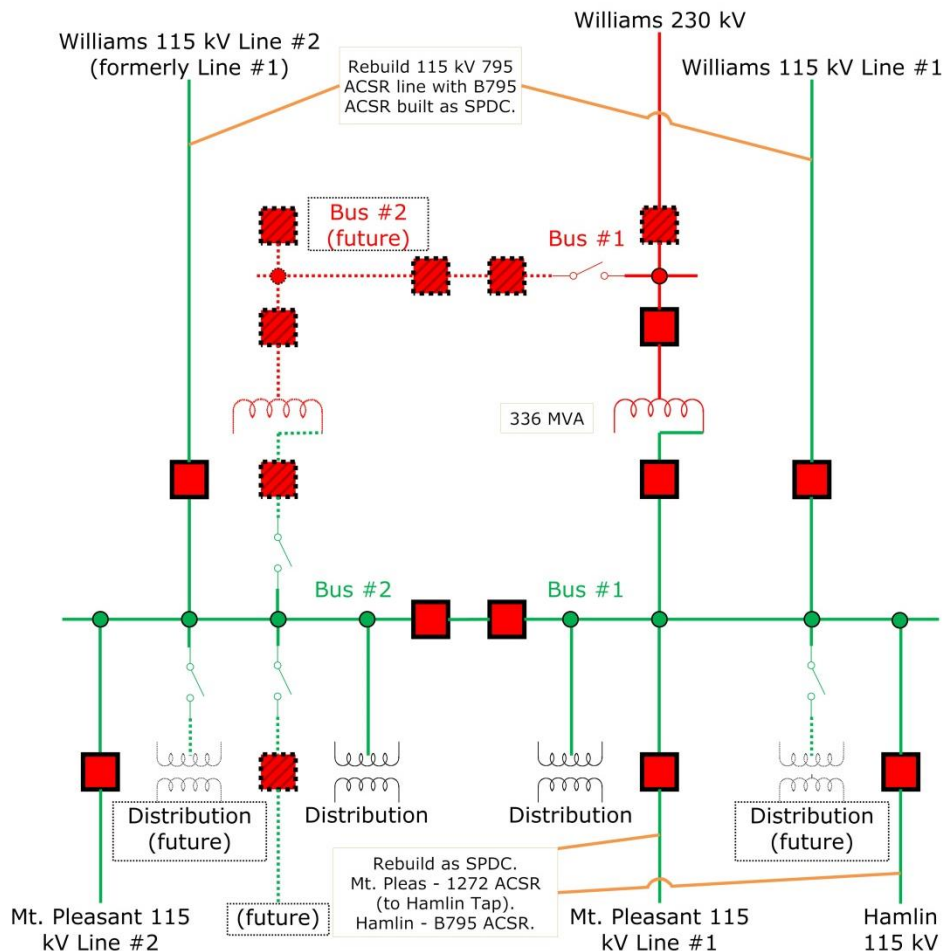


- Construct 230/115 kV transmission substation near existing Cainhoy distribution substation
 - Three 115 kV line terminals
 - Back-to-back bus tie breakers on 115 kV bus
 - One 230/115 kV 336 MVA autotransformer with high side and low side breakers
- Add one 230 kV terminal to #1 AM Williams 230 kV bus
- Fold Williams – Mt. Pleasant 115 kV #2 into Cainhoy 230 kV and 115 kV
 - Creates Williams – Cainhoy 230 kV & Cainhoy – Mt. Pleasant 115 kV #2
- Fold Williams – Mt. Pleasant 115 kV #1 into Cainhoy 115 kV #2 bus
 - Creates Williams – Cainhoy 115 kV and Cainhoy – Mt. Pleasant 115 kV #1

Cainhoy 230/115 kV Transmission

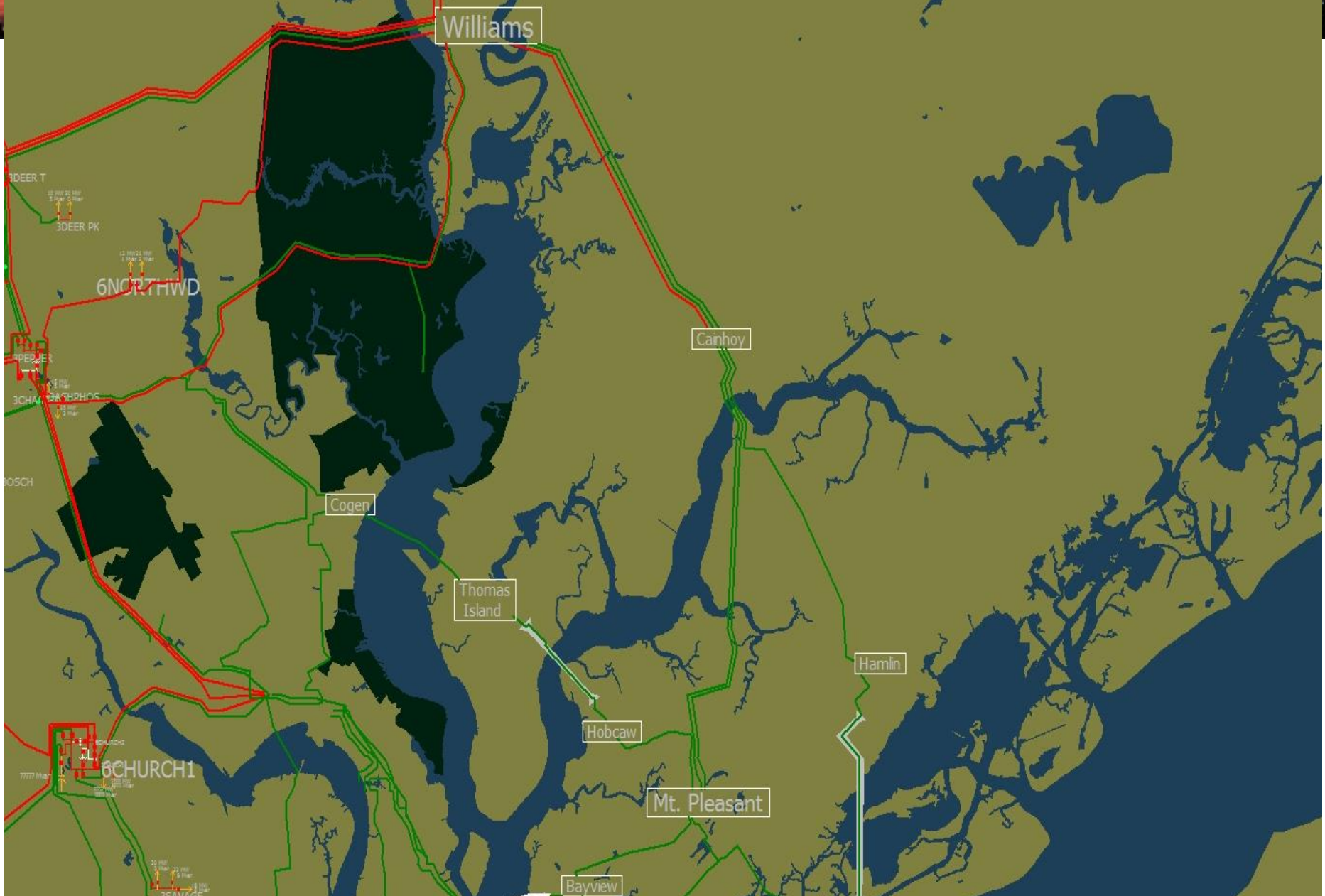


Cainhoy 230/115 kV Transmission



- Rebuild Cainhoy – Hamlin 115 kV to SPDC
 - Creates Cainhoy – Mt. Pleasant 115 kV partially 1272 ACSR & Cainhoy – Hamlin 115 kV B795 ACSR
- Add 115 kV Hamlin terminal
- Rebuild Williams – Cainhoy 230 kV SPDC
 - Creates Williams – Cainhoy 115 kV #1 & #2 B795 ACSR
- Upgrade terminals at Williams to 2000A for Cainhoy 115 kV circuits

Cainhoy 230/115 kV Transmission

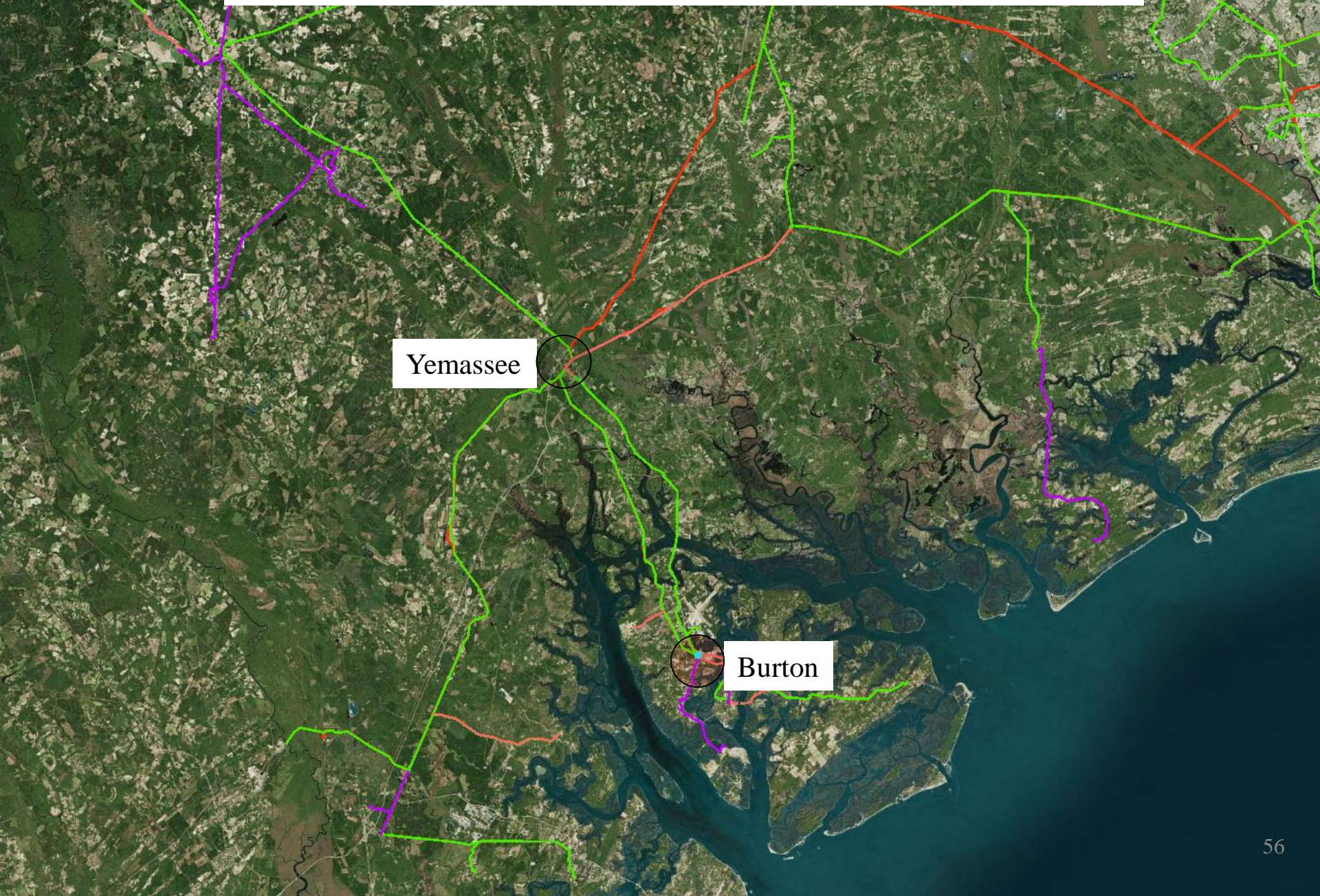


Future Projects

Burton – Yemassee 115 kV #2 Rebuild

- Remove existing H-Frame 477 ACSR 115 kV line, rebuild approximately 21 miles SPDC B795 ACSR
 - Burton – Yemassee 115 kV #2 upgraded
 - Burton – Yemassee 115 kV #3 created
- Upgrade/Add 115 kV terminals at Yemassee & Burton
- Project required to alleviate potential N-2 contingency overload that requires load shedding under peak conditions
 - Radial load shed only, does not have any adverse effects on BES
- Completion date delayed to December 2018 (Tentative)

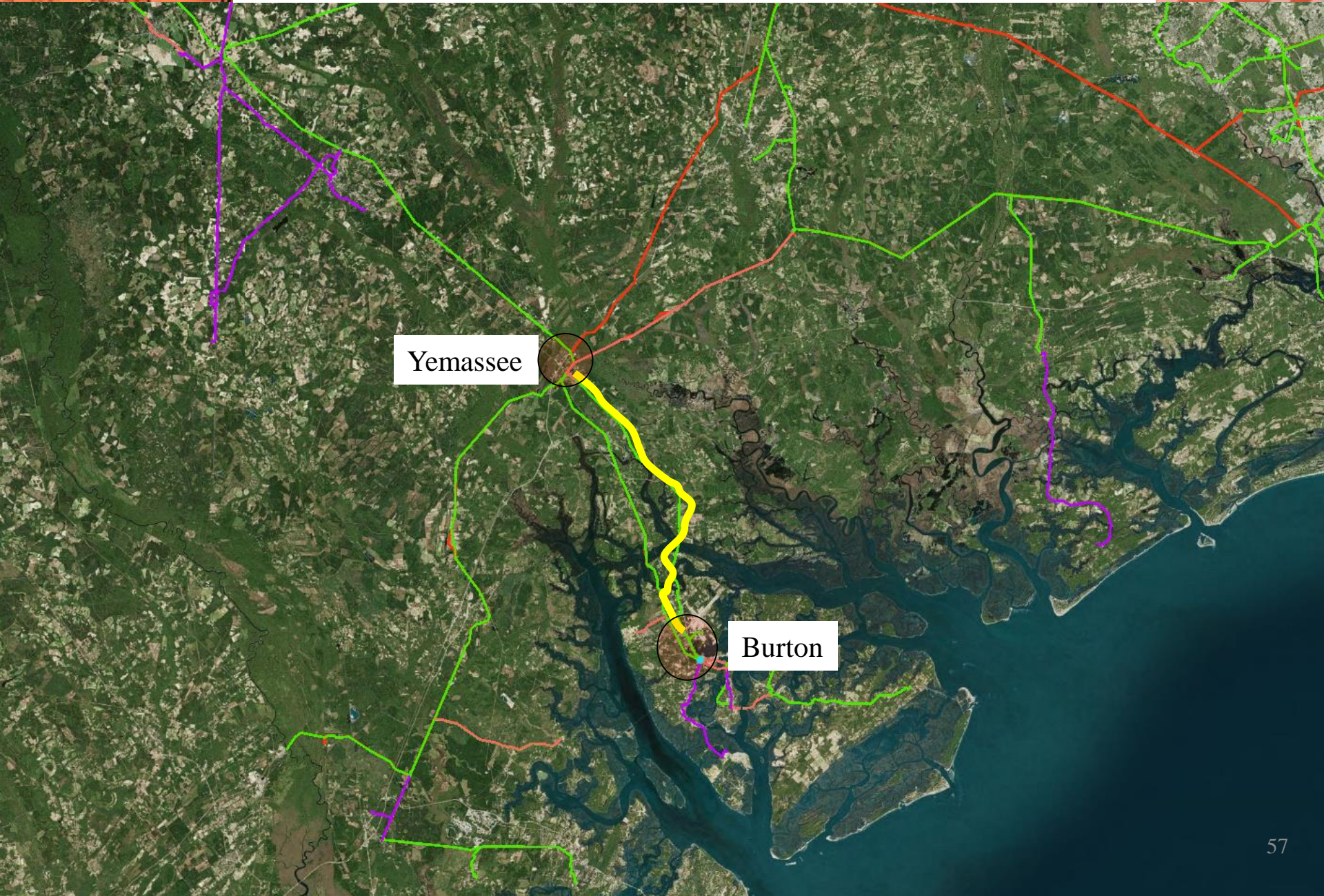
Burton – Yemassee 115 kV #2 Rebuild



Yemassee

Burton

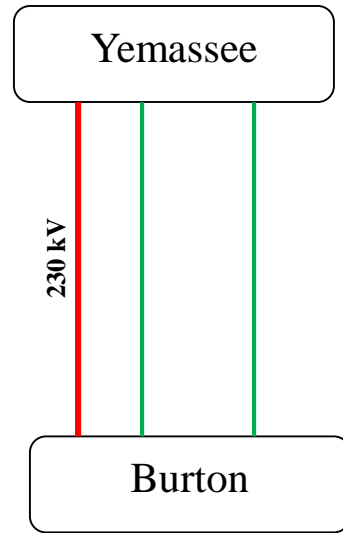
Burton – Yemassee 115 kV #2 Rebuild



Yemassee

Burton

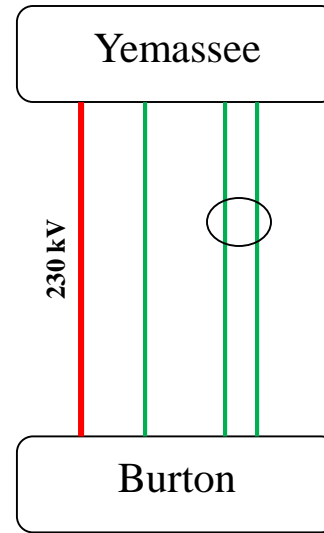
Burton – Yemassee 115 kV #2 Rebuild



Current Configuration:

- 1-230 kV 1272 ACSR
- 2-115 kV 477 ACSR

Total Capacity: **730 MVA**



Future Configuration:

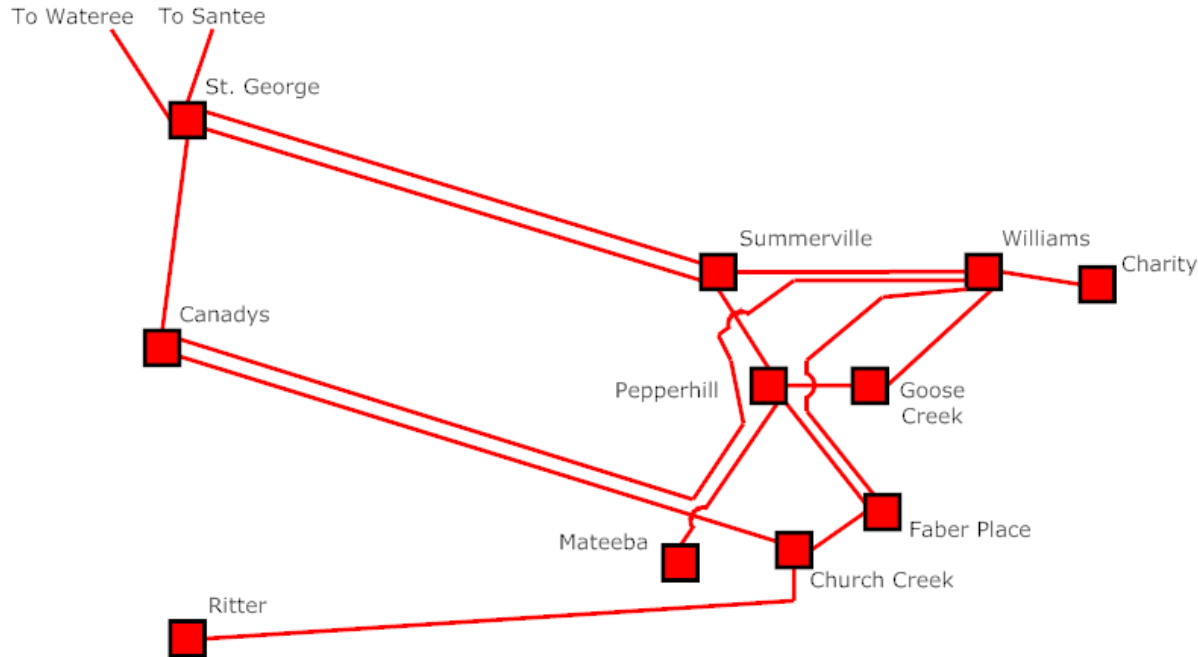
- 1-230 kV 1272 ACSR
- 1-115 kV 477 ACSR
- 2-115 kV B795 ACSR

Total Capacity: **1,074 MVA**

Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV

- Project required to alleviate several potential NERC TPL-001-4 contingencies that will cause the loading/overload of transmission system facilities in SCE&G's southern region
- Two phase project:
 - 1.) Fold the Williams – Canadys 230 kV line into Pepperhill (2020)
 - 2.) Rebuild approximately 18 miles Canadys – Ritter 115 kV line as SPDC with Canadys – Ritter 230 kV B1272 ACSR and Canadys – Ritter 115 kV 1272 ACSR (2022)

Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV

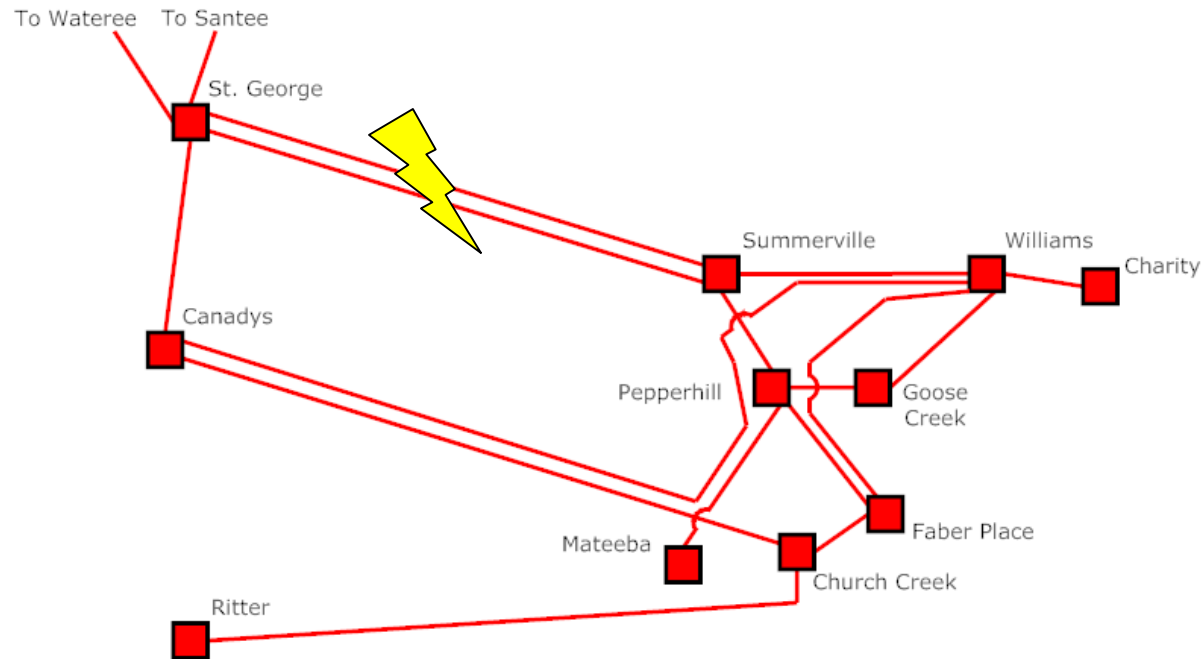


Charleston Region 230 kV Transmission (>2018)

Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV

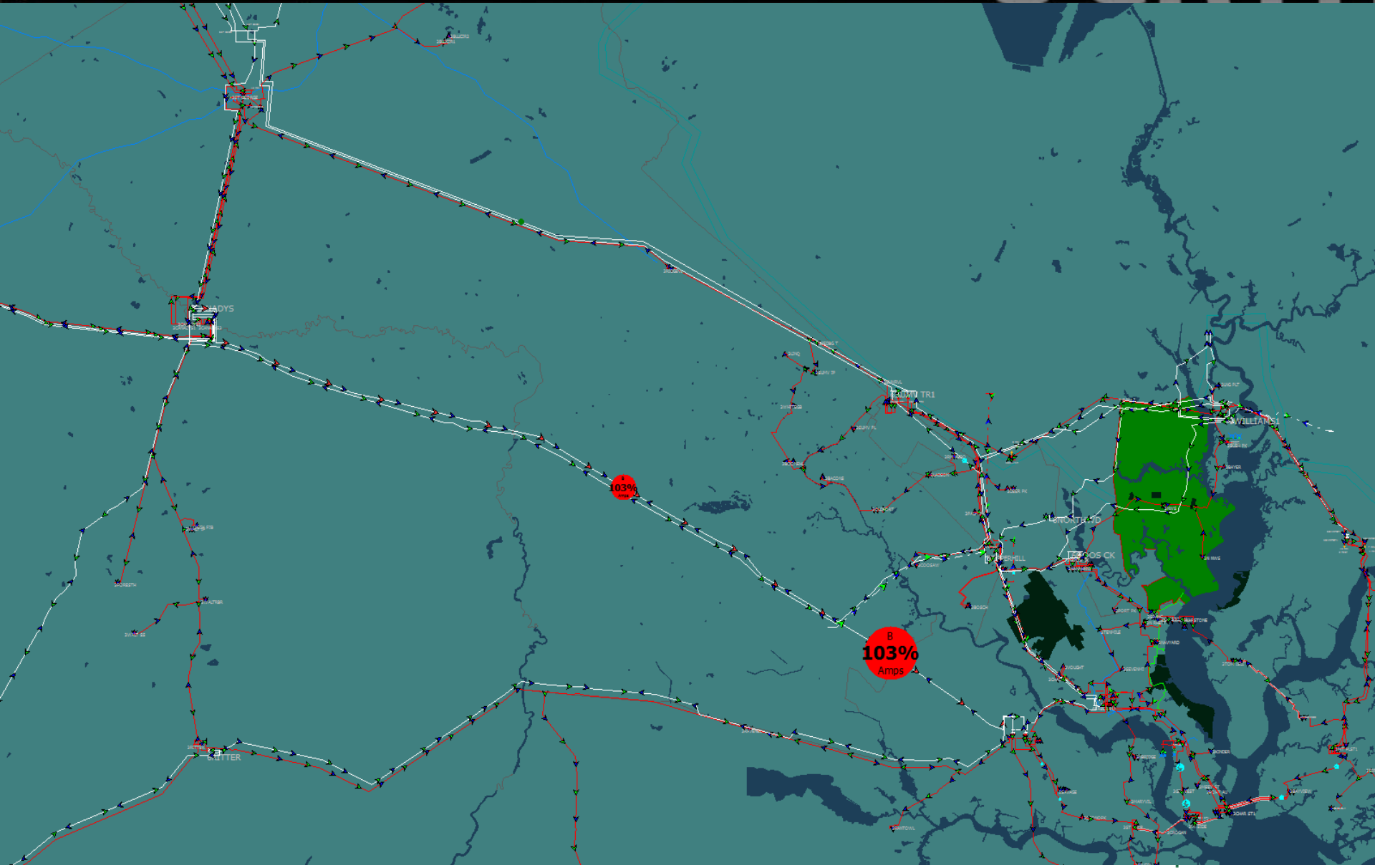
Year/Season	Contingency	Monitored Element	Flow (Rating)
2019S	C5: St. George – Summerville 230 kV #1 and St. George – Summerville 230 kV #2 SPDC	<u>Canadys</u> – Church Creek 230 kV	94% (376.3 MVA)
2019S	C3: <u>Pepperhill</u> – Summerville 230 kV and Summerville 230/115 kV Transformer 1/2	Summerville 230/115 kV Transformer 2/1	94% (336 MVA)
2019S	C3: Church Creek – Faber Place 230 kV and Church Creek 230/115 kV Transformer 1/2	Church Creek 230/115 kV Transformer 2/1	95% (336 MVA)
2020S	C5: St. George – Summerville 230 kV #1 and St. George – Summerville 230 kV #2 (SPDC)	<u>Canadys</u> – Church Creek 230 kV	103% (376.3 MVA)
2020S	C3: <u>Pepperhill</u> – Summerville 230 kV and Summerville 230/115 kV Transformer 1/2	Summerville 230/115 kV Transformer 2/1	99% (336 MVA)
2020S	C3: Church Creek – Faber Place 230 kV and Church Creek 230/115 kV Transformer 1/2	Church Creek 230/115 kV Transformer 2/1	100% (336 MVA)

Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV



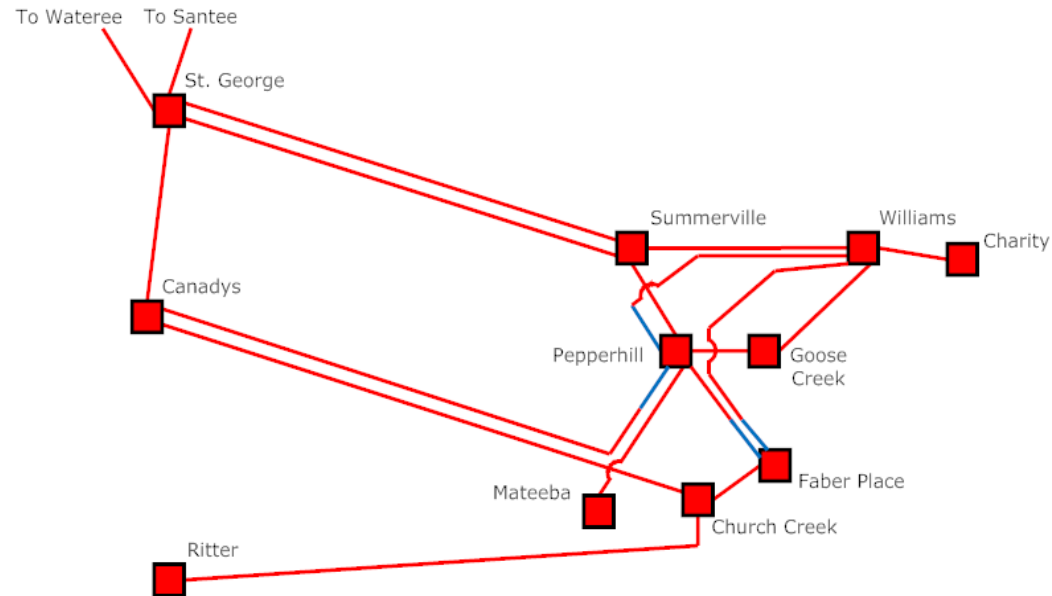
C5 Contingency: Loss of St. George – Summerville 230 kV #1&2

Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV



Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV

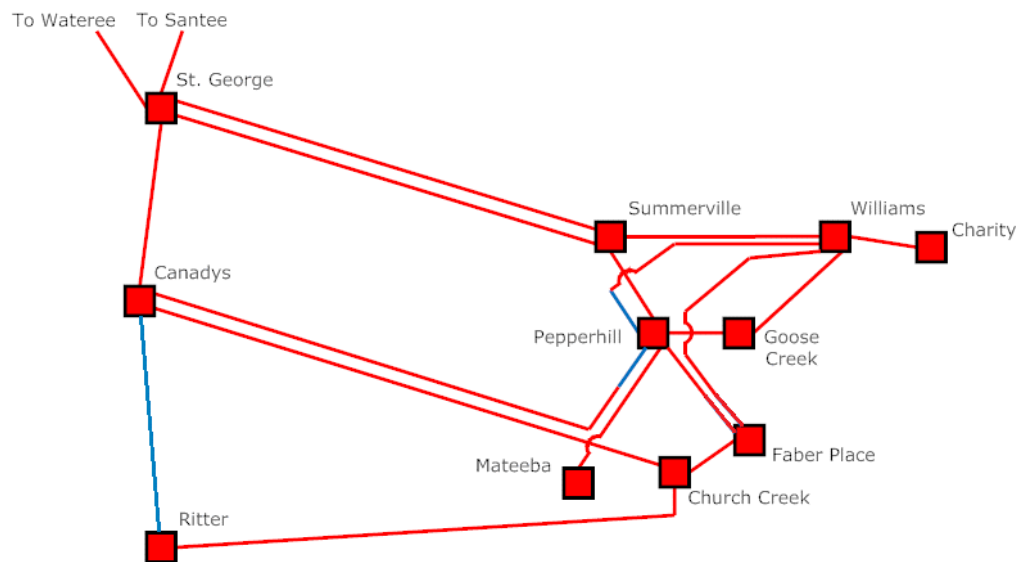
Phase I: Fold Canadys – Williams 230 kV line into Pepperhill



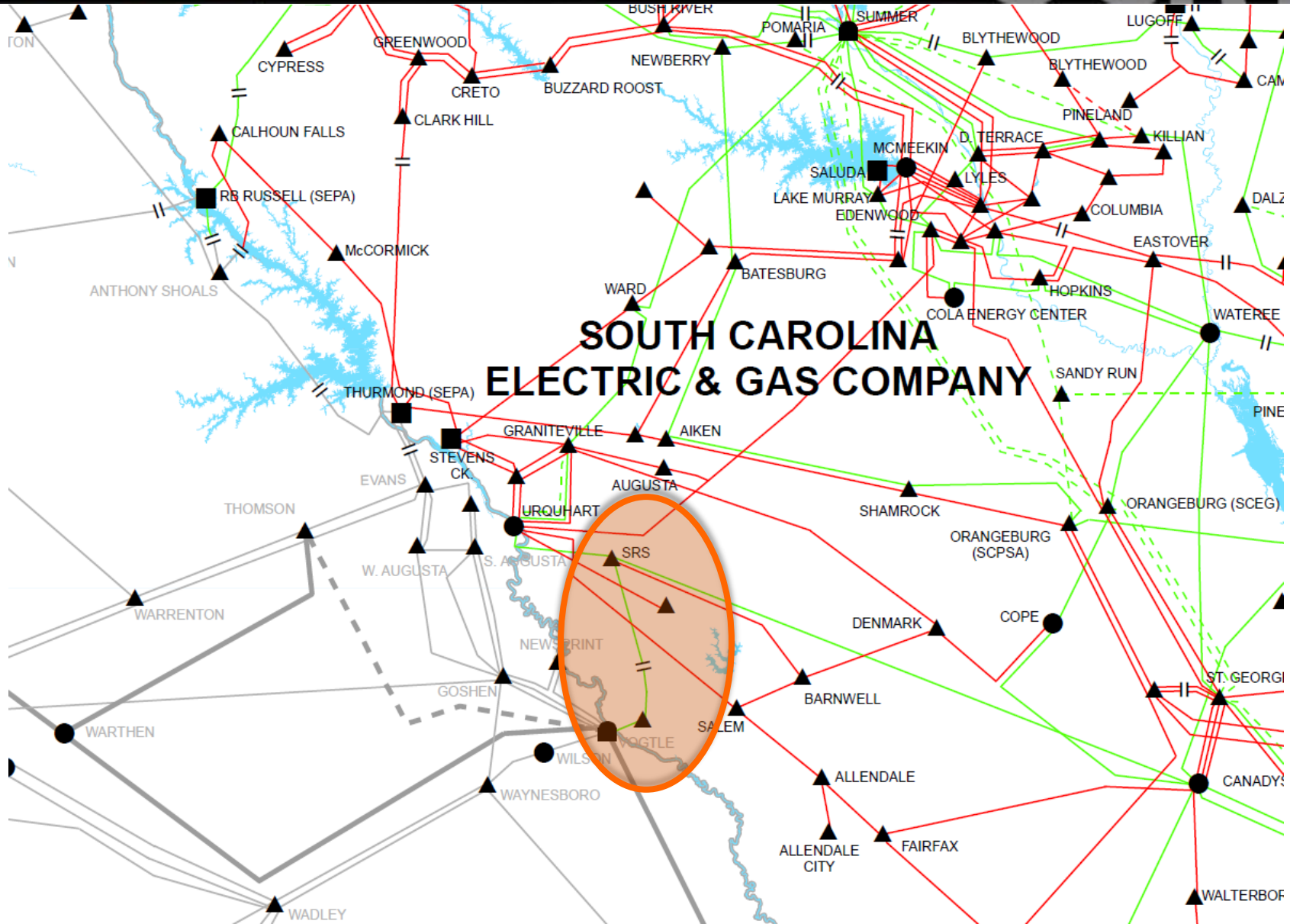
- Causes flow to be more evenly split from Canadys to Church Creek and Williams
- Breaks 49 mile line into two segments of 30 and 19 miles
- Allows for 2 year delay of Canadys – Ritter 230 kV construction

Canadys – Ritter 115 kV Rebuild as SPDC 230/115 kV

Phase II: Rebuild Canadys – Ritter 115 kV to SPDC 230/115 kV



SRS – Vogtle 230 kV Series Reactor Install



SRS – Vogtle 230 kV Series Reactor Install

- Phase I of Joint Study Results Assessment agreed upon between SCE&G and Southern Company.
- Install 1% Series Reactor at SRS end of SRS – Vogtle 230 kV (SCE&G/SOCO) tie line
- Required to alleviate high loading due to market flows and loop flows, and/or potential overloading due to certain contingencies
- Long lead times associated with the specific design, engineering, and construction of reactors. Scheduled to be in service by 2018, or prior to test power operation of Vogtle Unit 3

SRS – Vogtle 230 kV Series Reactor Install

VOGTLE

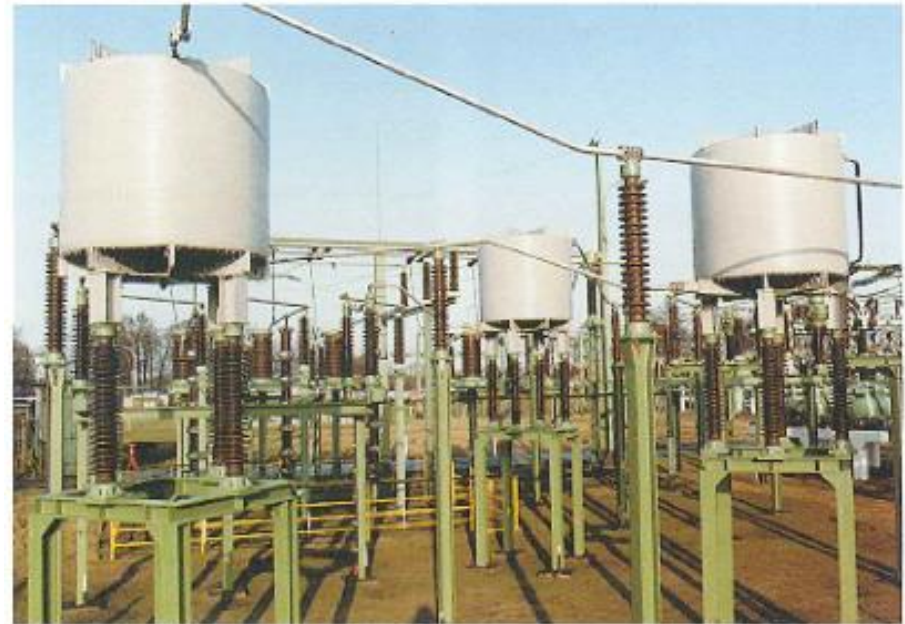
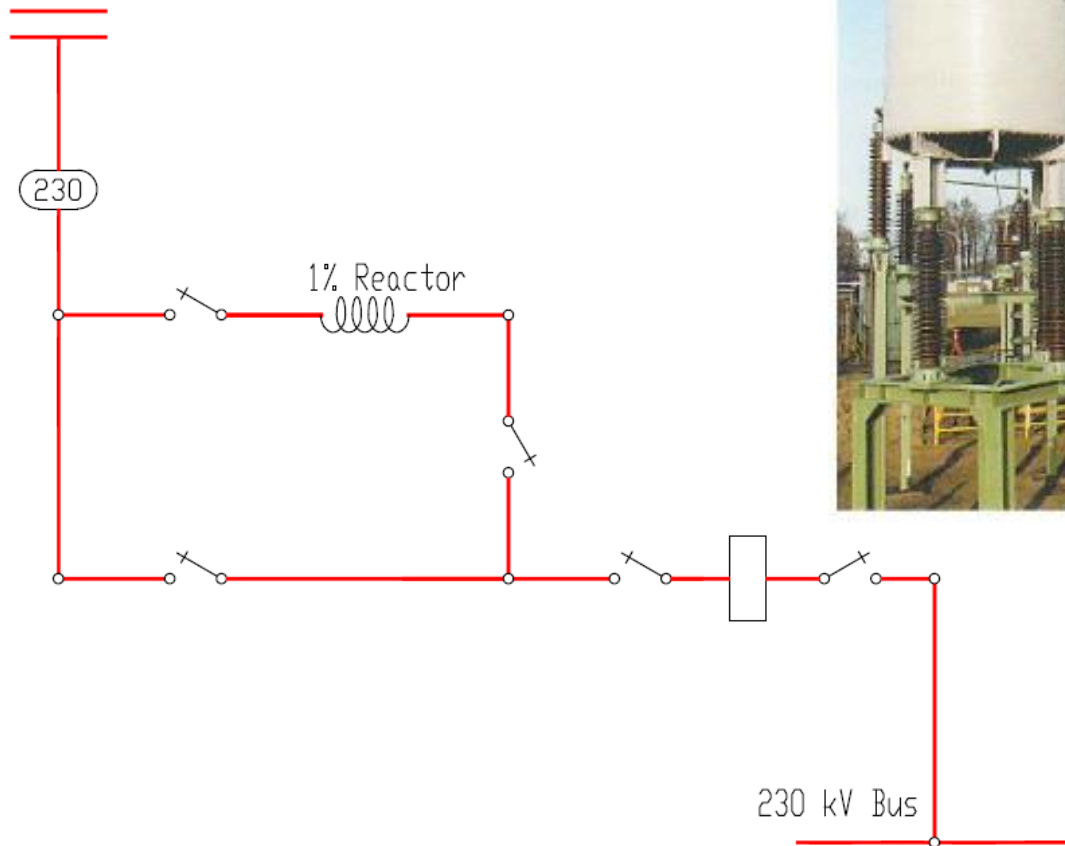
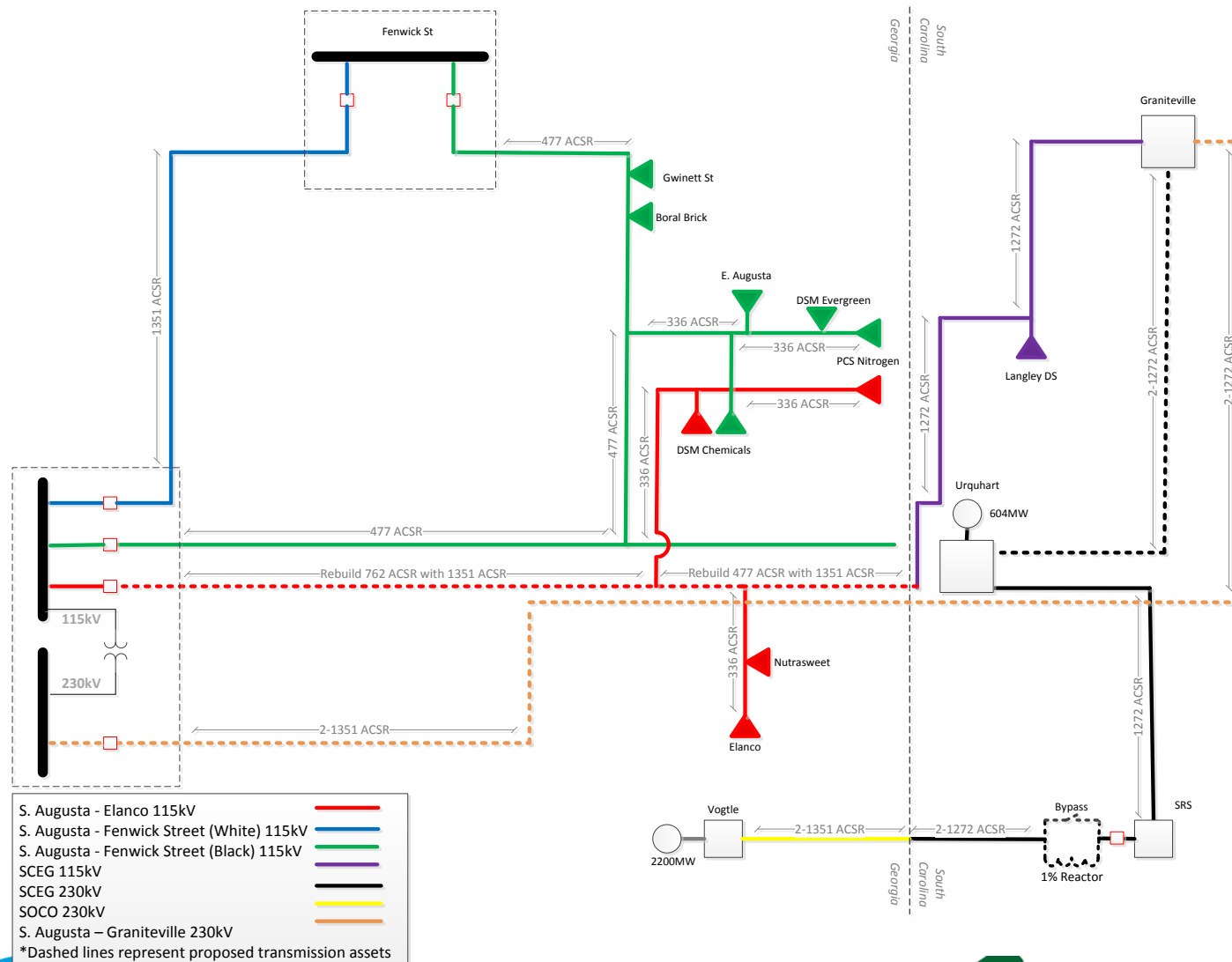


Fig. 3

South Augusta – Graniteville 230 & 115 kV tie lines

- Phase II of Joint Study Results Assessment agreed upon between SCE&G and Southern Company
- Construct a 230 & 115 kV double circuit line from SOCO South Augusta substation to SCE&G Graniteville substation
 - Rebuild current Urquhart – Graniteville 115 kV line to SPDC B1272 ACSR 230 kV lines
 - Creates Graniteville – South Augusta 230 kV & Urquhart – Graniteville #2 230 kV lines
 - Existing Urquhart – Graniteville #2 230 kV line will be converted to 115 kV and become Urquhart – Graniteville 115 kV (1272 ACSR)
- Mitigates high loading and/or potential overloading seen in future cases on the SRS – Vogtle 230 kV line by increasing the transfer capability on the SCE&G and SOCO interface
- Replaces project “Urquhart – Graniteville 230 kV #2 Line Construct” previously in queue for SCE&G

South Augusta – Graniteville 230 & 115 kV tie lines



Questions?

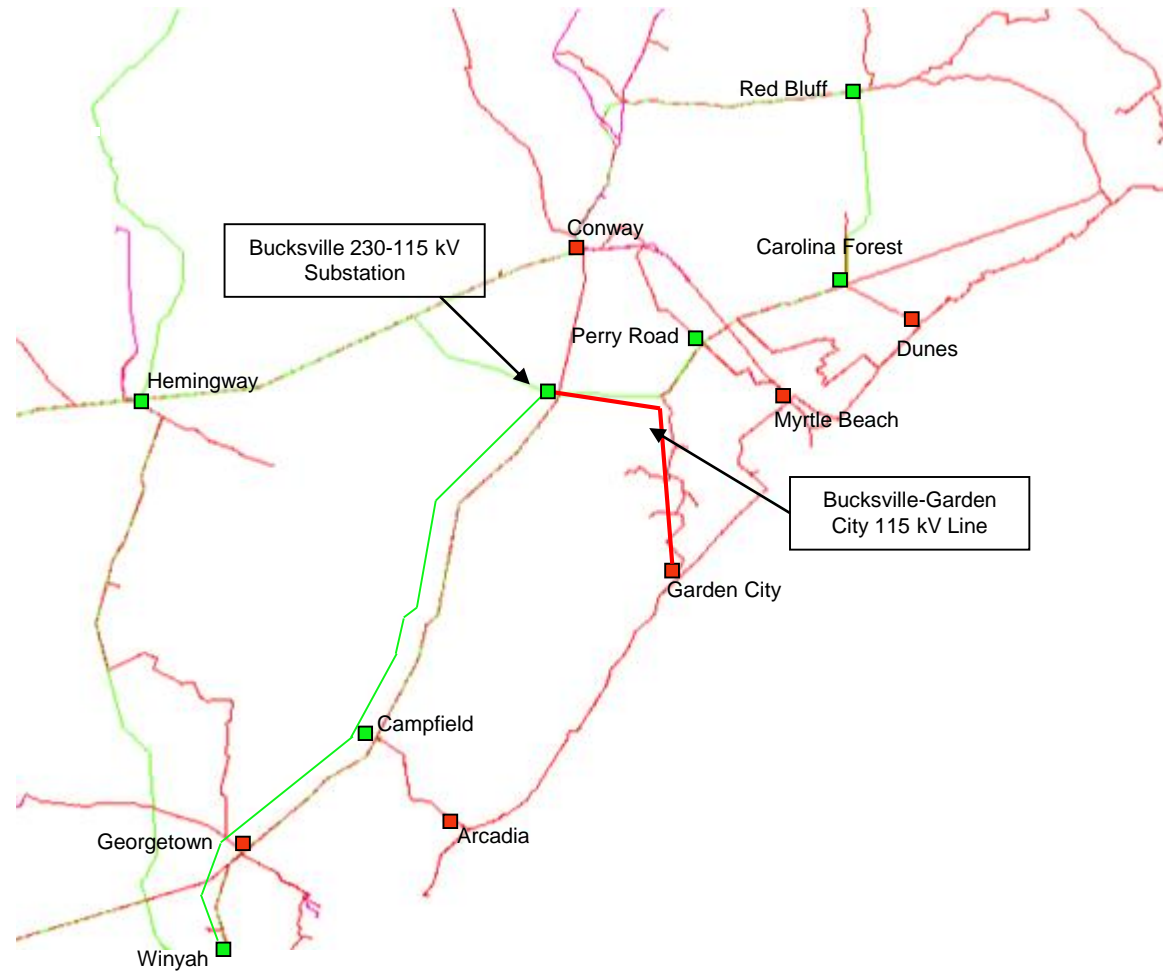
Current Major Transmission Expansion Plans

Santee Cooper - Weijian Cong

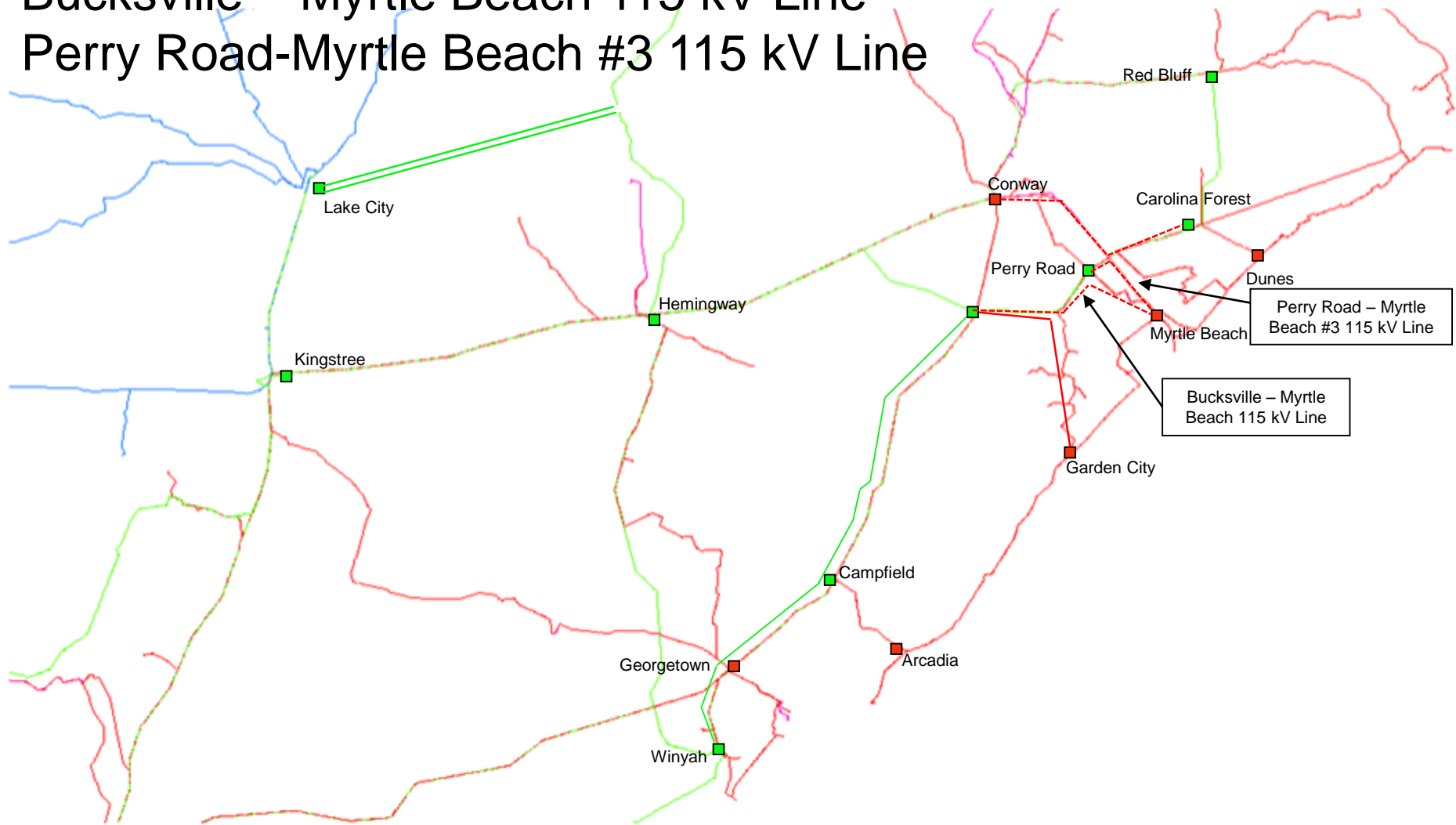
Transmission Network Active Projects

Bucksville-Myrtle Beach 115 kV Line	12/31/2016
Richburg-Flat Creek 230 kV Line	05/01/2017
Perry Road-Myrtle Beach #3 115 kV Line	06/01/2017
Pine Level-Allen #2 115 kV Line	06/01/2017
New Harleys Bridge 115-69 kV Substation	12/31/2017
Carnes Crossroads-Harleys Bridge 115 kV Line via McQueen Phase I	12/31/2017
Sandy Run 230-115 kV Substation	05/31/2018
Add Bucksville 230-115 kV Transformer #2	06/01/2018
Pomaria-Sandy Run 230 kV Line	06/30/2019
Sandy Run-Orangeburg 230 kV Line	06/30/2019
Marion-Red Bluff 230 kV Line	12/31/2019

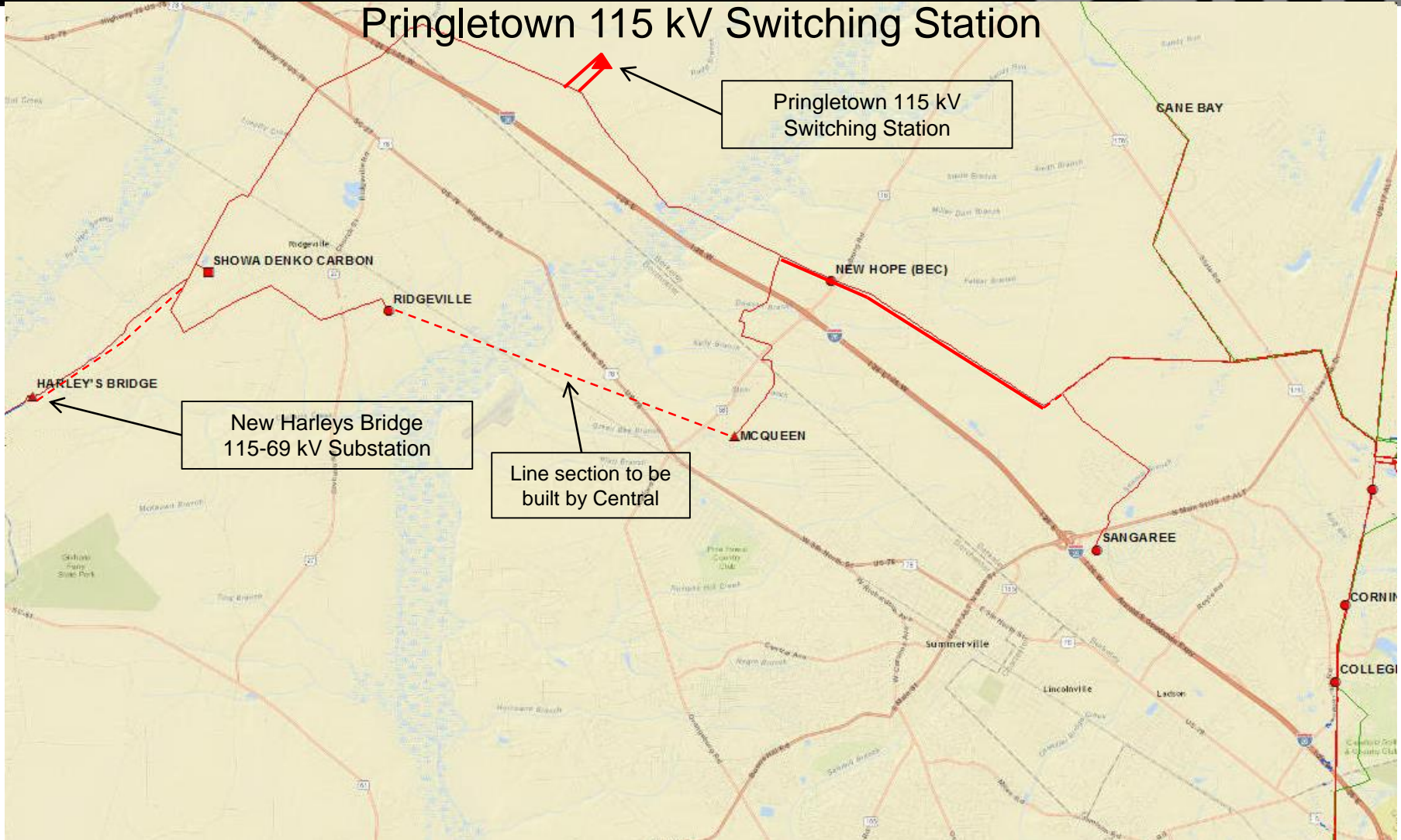
Bucksville-Garden City 115 kV Line

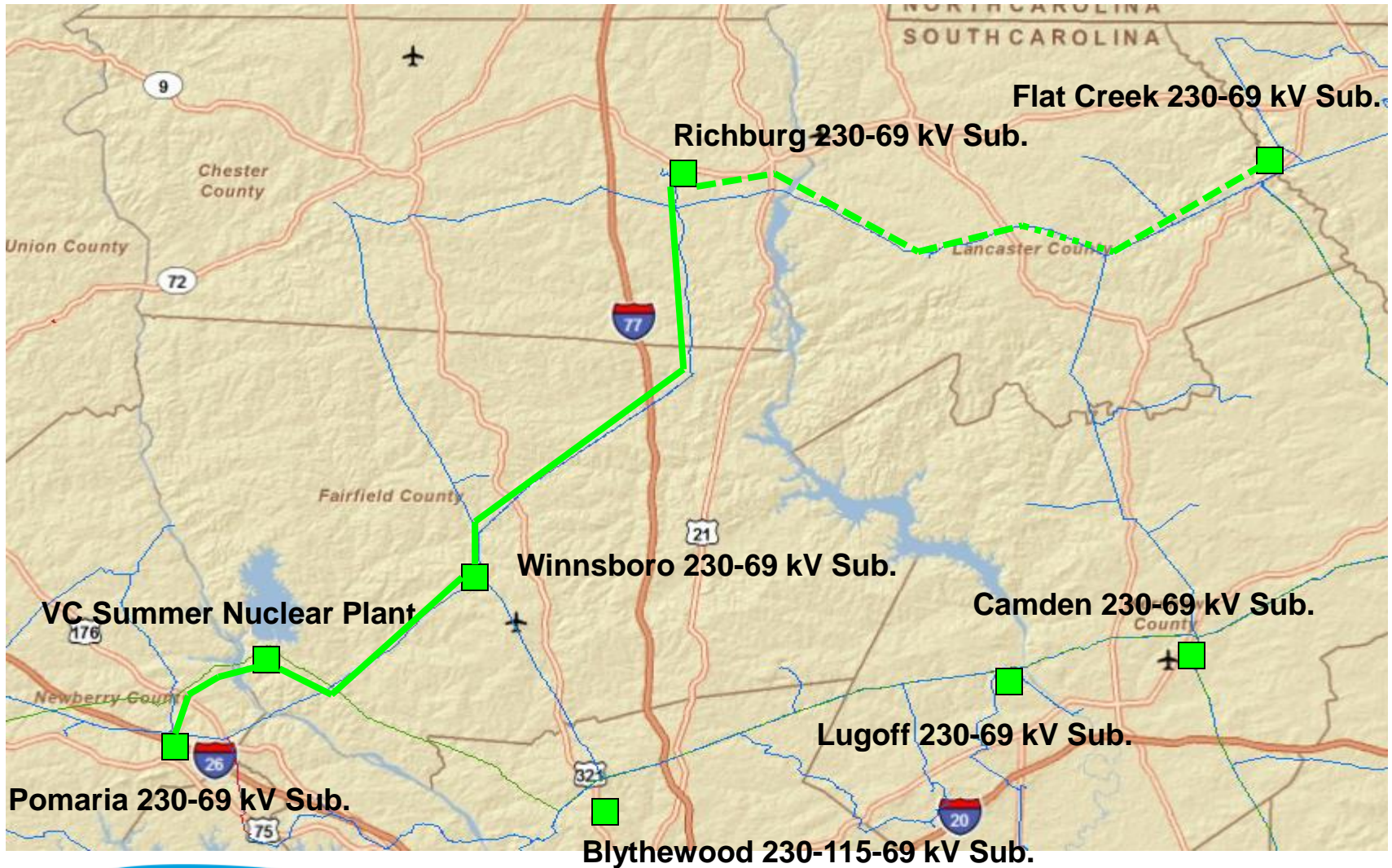


Bucksville – Myrtle Beach 115 kV Line Perry Road-Myrtle Beach #3 115 kV Line



Pringletown 115 kV Switching Station





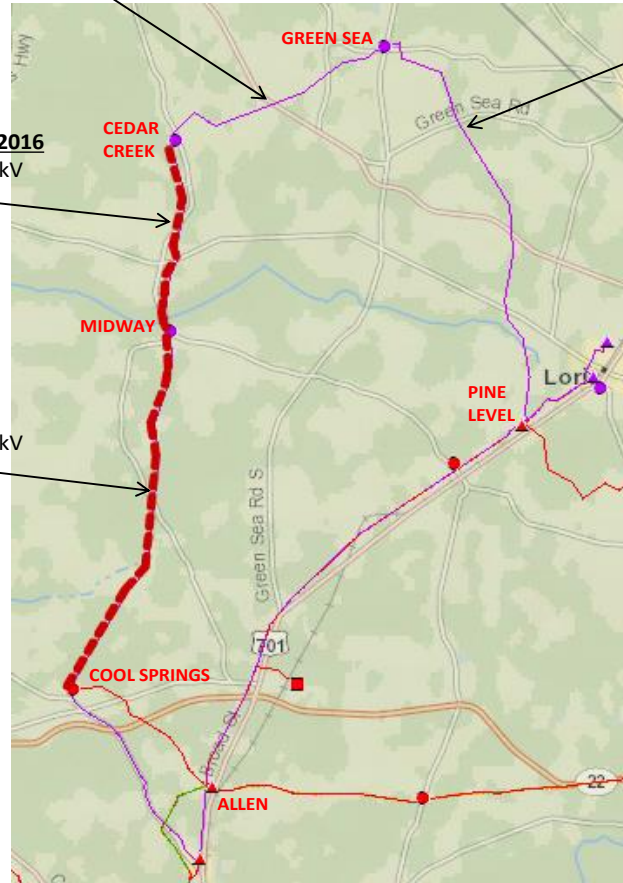
Allen – Pine Level #2 115 kV Line

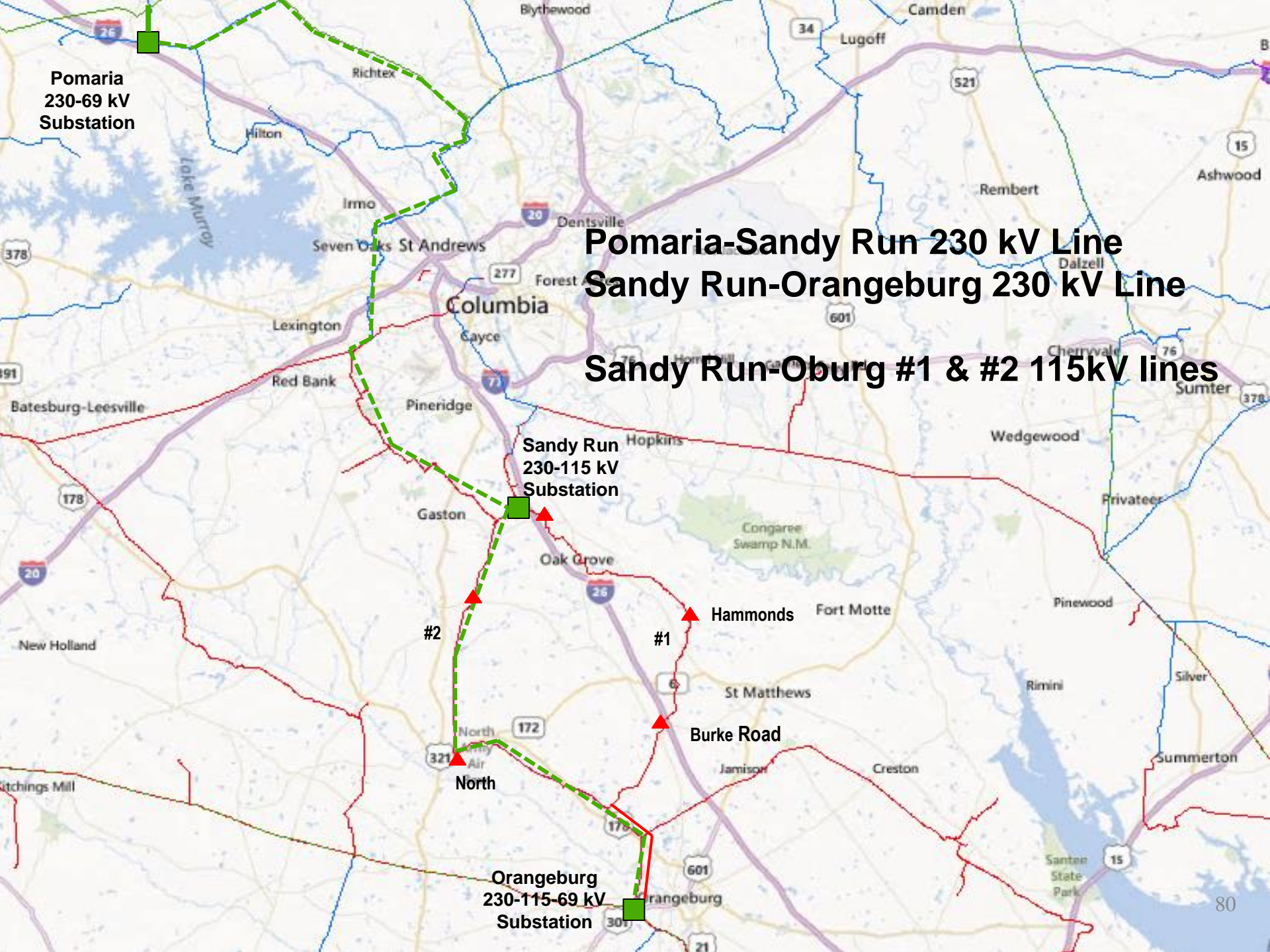
Changed to **3/1/2017**
OPERATE AT 115kV
 (ALREADY 477 ACSR
 BUILT FOR 115kV)

Changed to **5/1/2016**
REBUILD FOR 115kV
 795 ACSR

BY 11/30/2015
REBUILD FOR 115kV
 795 ACSR

Changed to **3/1/2017**
OPERATE AT 115kV
 (ALREADY 477 ACSR
 BUILT FOR 115kV)





**Pomaria
230-69 kV
Substation**

**Pomaria-Sandy Run 230 kV Line
Sandy Run-Orangeburg 230 kV Line**

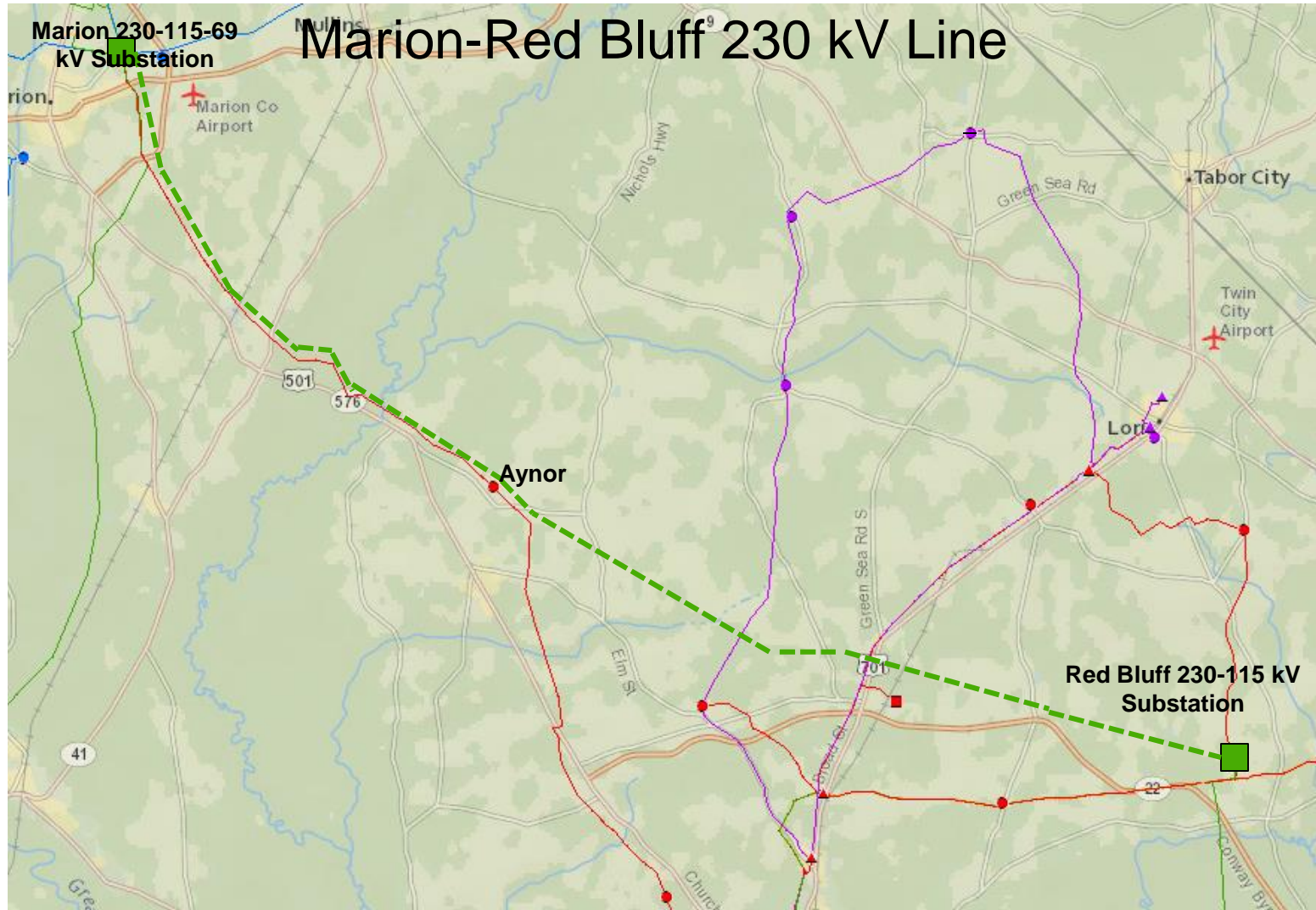
Sandy Run-Oburg #1 & #2 115kV lines

**Sandy Run
230-115 kV
Substation**

#2

#1

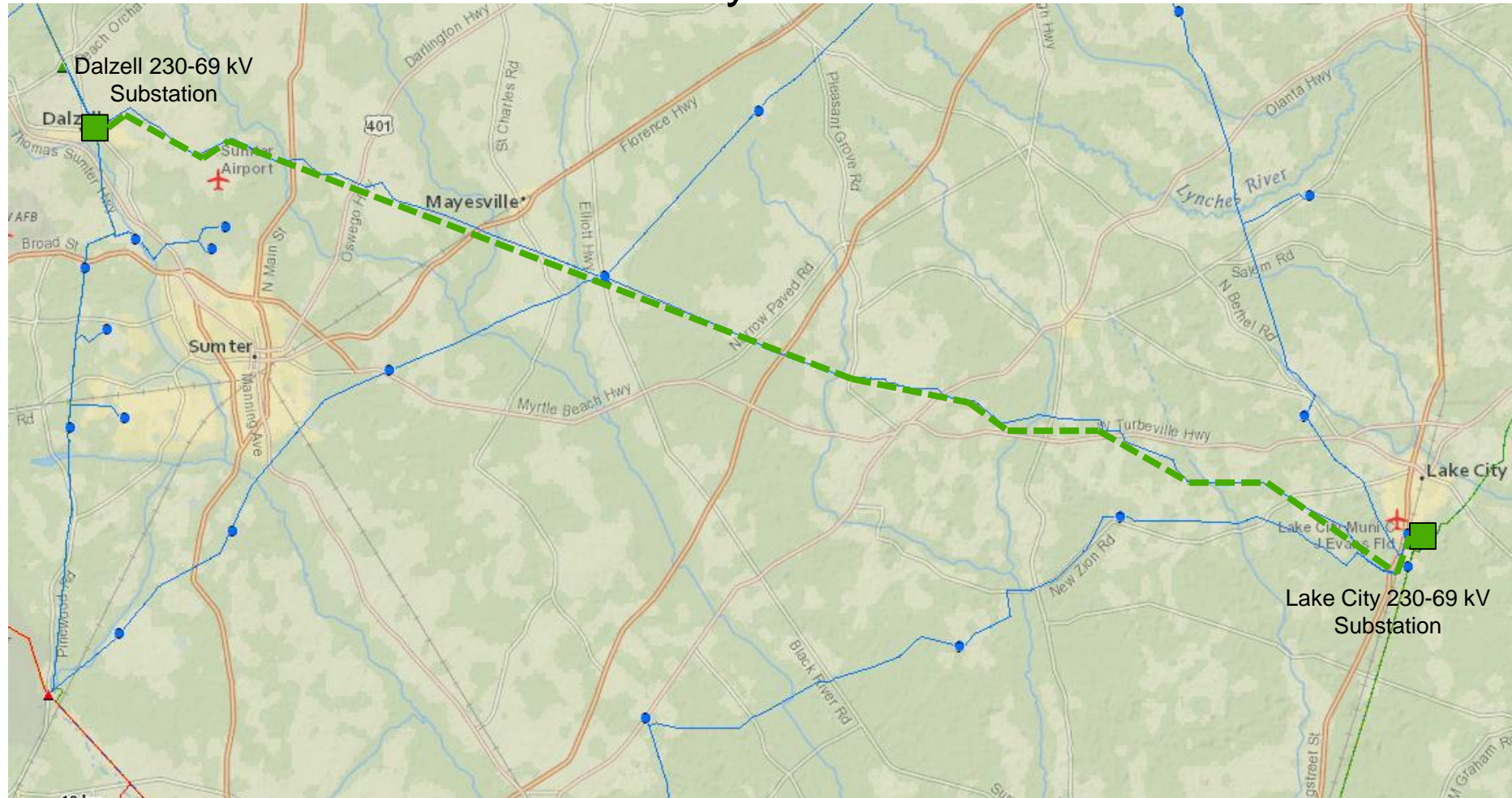
**Orangeburg
230-115-69 kV
Substation**



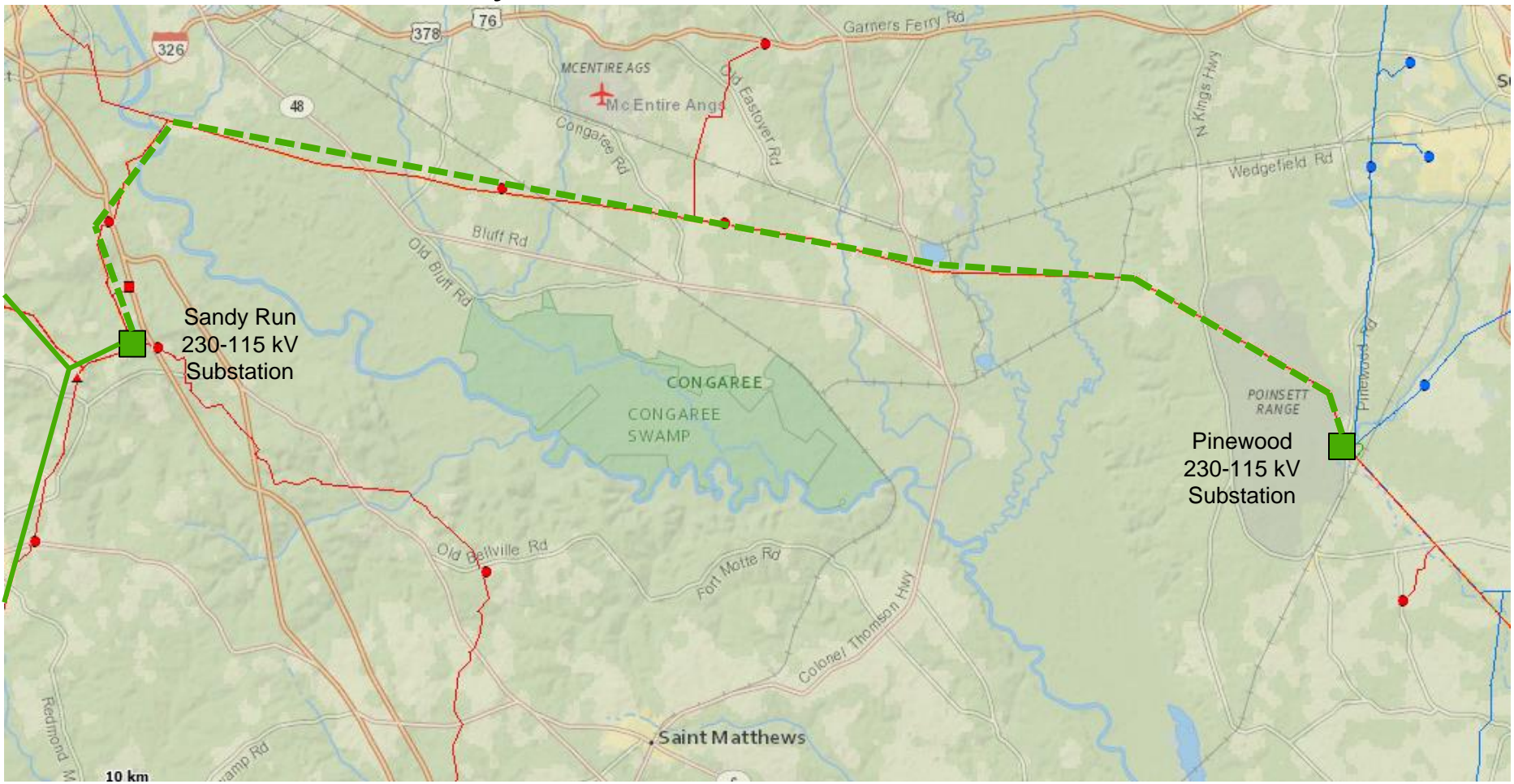
Transmission Network Planned Projects

- Carnes-Harleys Bridge via Ridgeville-McQueen I 12/2017
- SCE&G Church Creek / Ritter-SCPSA Johns Island 12/2018 (tentative)
- SCE&G Queensboro-SCPSA Johns Island 12/2019 (tentative)
- Bucksville 230-115 kV transformer #2 12/2019
- Red Bluff-Nixons Crossroads #1 115 kV 06/2020
- Carnes-Harleys Bridge 115 kV Line via McQueen II 12/2021
- HHGT-Market Place #2 115 kV Line 06/2021
- Dalzell-Lake City 230 kV Line 06/2022
- Sandy Run-Pinewood 230 kV Line 12/2023

Dalzell-Lake City 230 kV Line



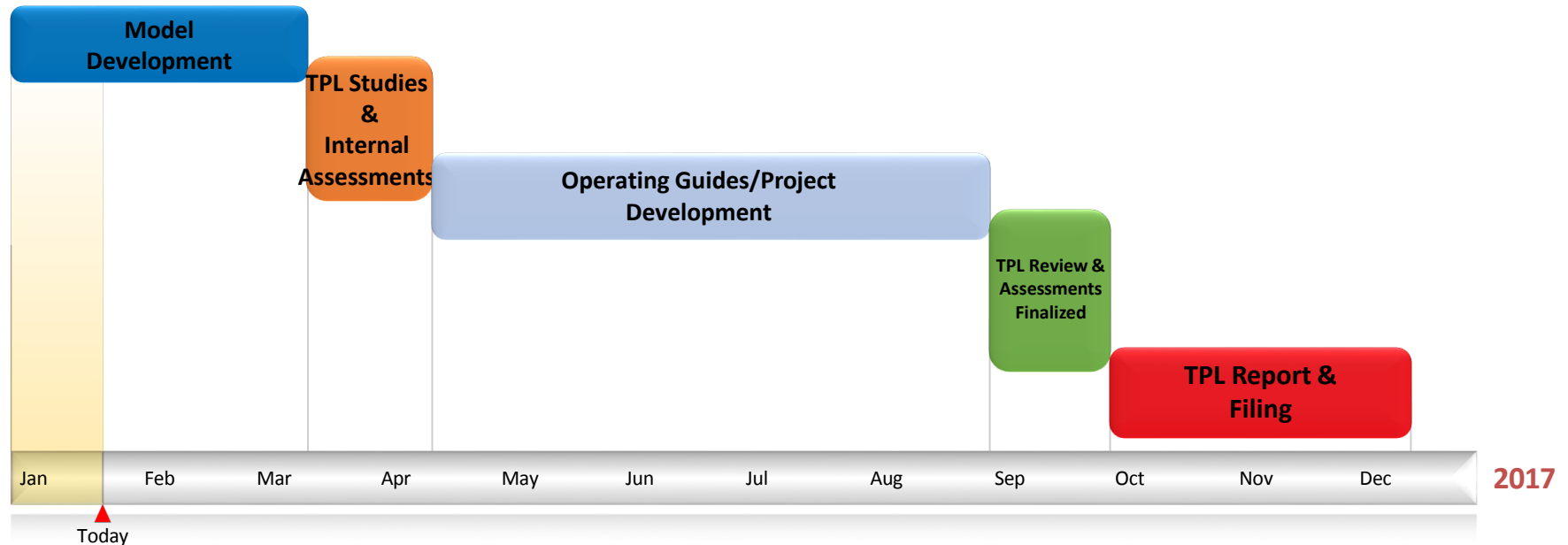
Sandy Run-Pinewood 230 kV Line



Current Major Transmission Expansion Plans

Stakeholder Input and Questions?

Reliability Transmission Planning Studies Timeline



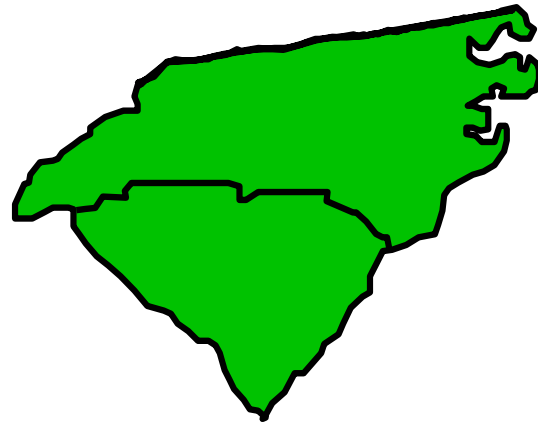
Reliability Assessment and Multi-Party Studies

Weijian Cong

Multi-Party Assessments

- **Carolina Transmission Coordination Arrangement (CTCA) Assessments**
- **Southeastern Electric Reliability Corporation (SERC) Assessments**

CTCA Future Year Assessments



CTCA Purpose

- **Collection of agreements developed concurrently by the Principals, Planning Representatives, and Operating Representatives of multiple two-party Interchange Agreements**
- **Establishes a forum for coordinating certain transmission planning assessment and operating activities among the specific parties associated with the CTCA**

CTCA Power Flow Study Group

- **Duke Energy Carolinas (“Duke”)**
- **Duke Energy Progress (“Progress”)**
- **South Carolina Electric & Gas (“SCEG”)**
- **South Carolina Public Service Authority (“SCPSA”)**

CTCA Studies

- Assess the existing transmission expansion plans of Duke, Progress, SCEG, and SCPSA to ensure that the plans are simultaneously feasible.
- Identify any potential joint solutions that are more efficient or cost-effective than individual company plans, which also improve the simultaneous feasibility of the Participant companies' transmission expansion plans.
- The Power Flow Study Group ("PFSG") , performs the technical analysis outlined in this study scope under the guidance and direction of the Planning Committee ("PC").

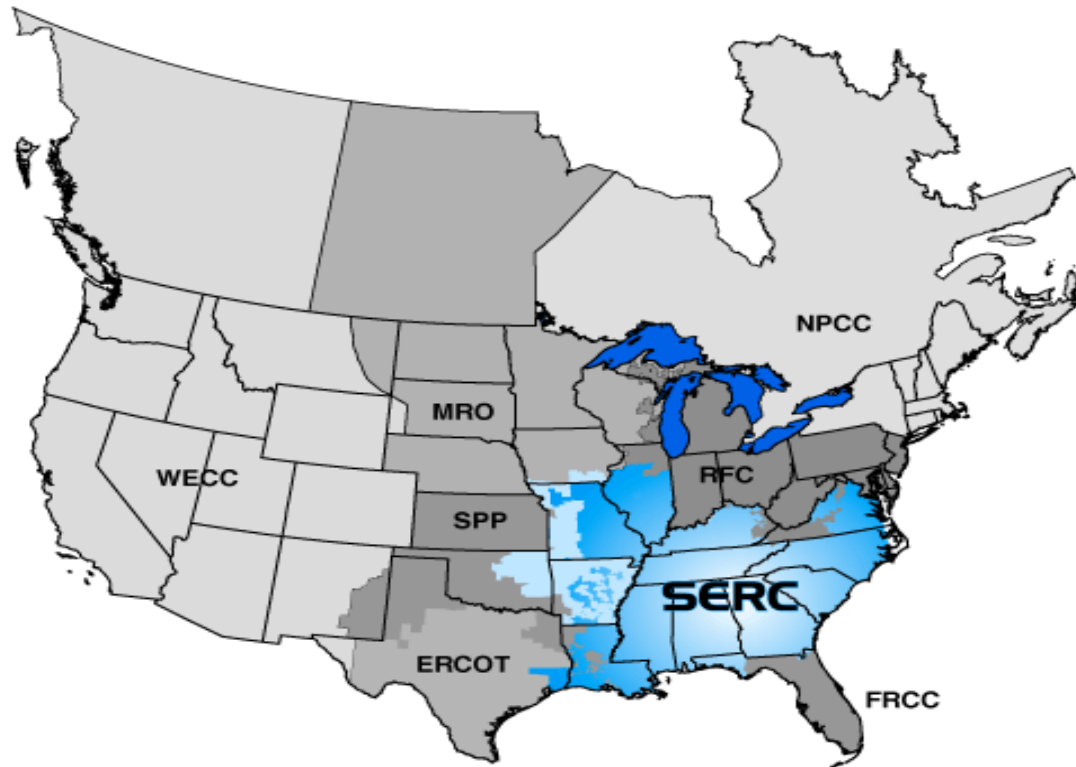
CTCA Studies

2017 PFSG Study

- TBD during meetings/Web Conferences (usually two study cases)
- Report completion in December, 2016

SERC LTSG Assessments

SERC Future Year Assessments Long Term Study Group (LTSG)



SERC LTSG Study Purpose

- Analyze the performance of the members' transmission systems and identify limits to power transfers occurring non-simultaneously among the SERC members.
- Evaluate the performance of bulk power supply facilities under both normal and contingency conditions for future years.
- Focus on the evaluation of sub-regional and company-to-company transfer capability.

SERC Long Term Study Group 2017 Work Schedule

- LTSG Data Bank Update –May 23-24 Hosted by TVA
- Study Case: 2022 Summer Peak Load
- Study to be completed by LTSG June thru October
- Final Report in December

Reliability Assessment and Multi-Party Studies

Questions?

Next SCRTP Meeting

- Stakeholders will select up to 5 Economic Transmission Planning Studies
- Review and discuss Multi-Party Assessment Studies
- SCRTP Email Distribution List will be notified
- Register online
- Likely be Web Conference ONLY

South Carolina Regional Transmission Planning

Stakeholder Meeting

Hilton Garden Inn Charleston Airport

North Charleston, SC

January 24, 2017