

South Carolina Regional Transmission Planning

Stakeholder Meeting

Lake Murray Training Center

Lexington, SC

May 9, 2014

Purpose and Goals of Today's Meeting

- FERC Order 1000 Update
- Review and Discuss Current Transmission Expansion Plans
- Review and Discuss Initial Results of the Economic Sensitivities Studies
- Review and Discuss Assessment and Planning Studies
 - CTCA
 - ERAG
 - SERC
 - Other
- EIPC Stakeholder Group Activities

FERC Order 1000 Transmission Planning and Cost Allocation

Clay Young

FERC Order 1000

- Planning Requirements (Regional and Interregional)
 - Reliability
 - Economics
 - Public Policy
- Cost Allocation Requirements
- Non-incumbent Developer Requirements

Order 1000 Update



- **Regional - Milestones**
 - July 21, 2011 FERC issued Order 1000
 - Oct. 11, 2012 SCE&G filed a revised Attachment K including proposed Order 1000 Regional Processes
 - April 18, 2013 FERC issued Order Accepting SCE&G filing but requiring additional revisions
 - Oct. 15, 2013 SCE&G filed a revised Attachment K including proposed additional revisions
 - FERC is reviewing

Order 1000 Update



- Interregional - Milestones
 - July 10, 2013 SCE&G filed a revised Attachment K including proposed Order 1000 Interregional Processes
 - FERC is reviewing

FERC Order 1000

Stakeholder Input, Comments and Questions

Current Transmission Expansion Plans

SCE&G and Santee Cooper

Current Transmission Expansion Plans

SCE&G

Jeff Neal

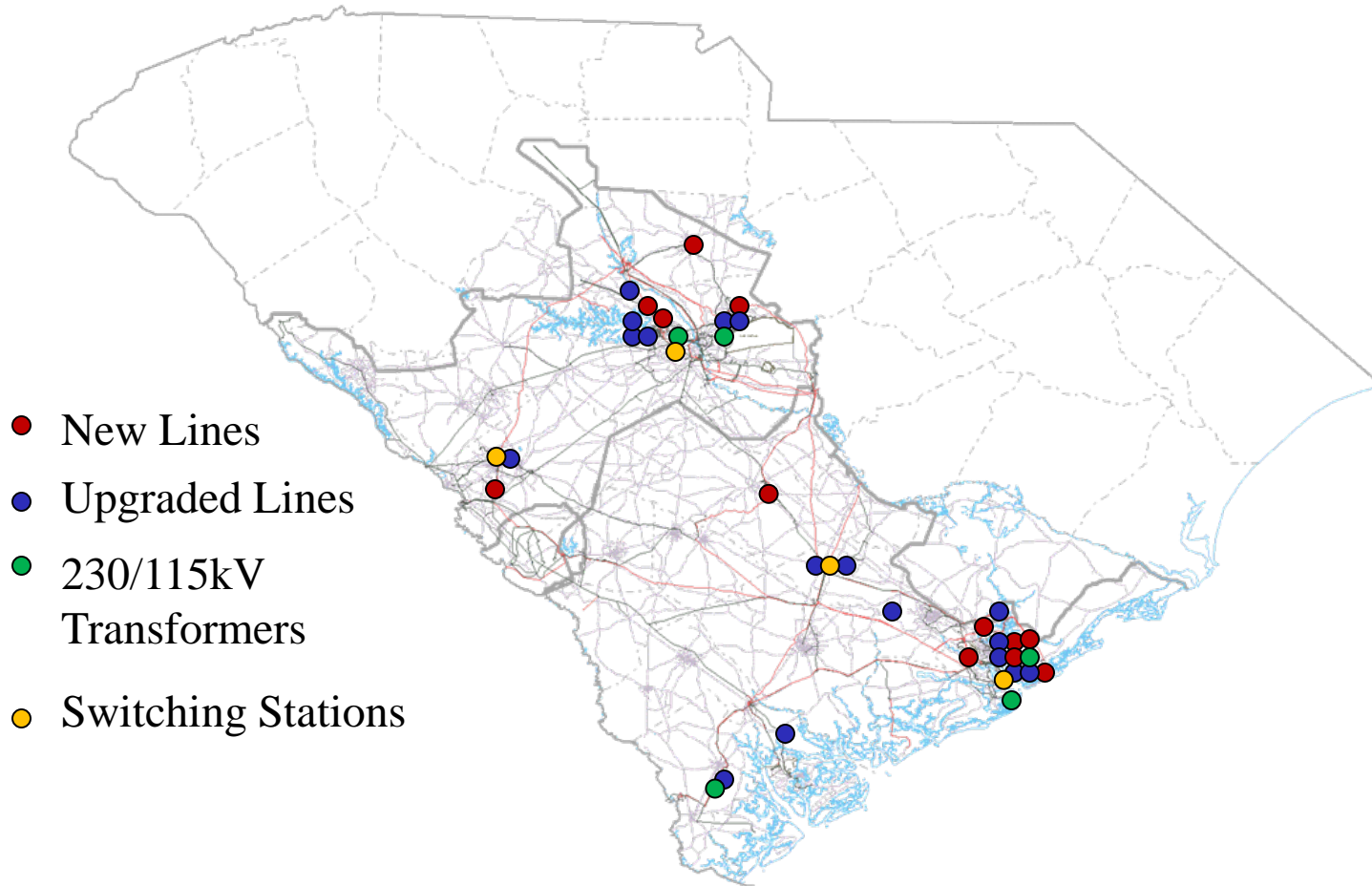
- The projects described in these presentations represent the current transmission plans within the SCRTP footprint.
- The expansion plan is continuously reviewed and may change due to changes in key data and assumptions.
- This presentation does not represent a commitment to build.

SCE&G Transmission Projects

Projects Scheduled for Completion in 2014

- Hamlin - Isle of Palms 115 kV Underground Cable Construct
- Faber Place Switch House Replacement
- VCS1 – Killian 230 kV Line
- Edenwood – Columbia Industrial Park 115 kV Line Improvement
- Mt. Pleasant – Bayview 115 kV – Rebuild B795 Conductor
- Eutawville 115 kV Line
- VCS2 – Lake Murray #1 (**BLRA**)

SCE&G Planned Projects



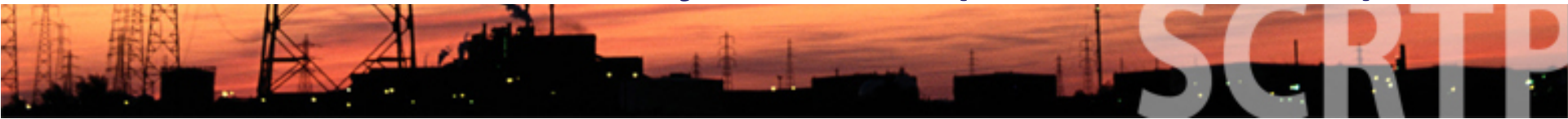
VC Summer Nuclear Unit #2 Related Projects

- VCS1 - Killian 230 kV Line Construct May 2014
- VCS2 - Lake Murray #2 230 kV Line Construct Dec 2014
- Denny Terrace - Lyles 230 kV Line Upgrade April 2015
- Saluda River 230/115 kV Construct and Line Upgrades May 2015

VC Summer Nuclear Unit #3 Related Projects

- St George 230 kV Switching Station Construct May 2017
- St George - Canadys 230 kV Line Upgrade May 2017
- St George - Summerville 230 kV Line Upgrade May 2017
- VCS2- St George 230 kV 1&2 Construct May 2017

SCE&G Planned Projects 2014 (Over \$2 Million)



	Project	Tentative Completion Date	Expenditures as of December 31, 2013	Projected 2014	Projected 2015	Projected 2016	Projected 2017	Projected 2018	Total
1	Hamlin-Isle of Palms 115 kV Underground Cable Construct	Mar-14	33,395,213	922,126					\$34,317,339
2a	VCS1-Killian 230 kV Line Construct (SIMP 25.8%)	May-14	15,562,345	437,655					\$16,000,000
3	Eutawville 115 kV Line Construct	May-14	3,386,045	1,013,955					\$4,400,000
4	Faber Place Replace Switch House	May-14	2,655,209	94,791					\$2,750,000
5	Bayview-Mt Pleasant 115 kV Line Rebuild	Oct-14	4,241,310	2,258,690					\$6,500,000
6	Edenwood – Columbia Industrial Park 115 kV	Dec-14	3,084,169	315,831					\$3,400,000
		Total:	\$62,324,291	\$5,043,048	\$0	\$0	\$0	\$0	\$67,367,339
	BLRA Projects								
2b	VCS1-Killian 230 kV Line Construct (BLRA 74.2%)	May-14	44,756,821	1,275,645					\$46,032,466
7	VCS2 - Lake Murray 230 kV #2 Line Construct	Dec-14	12,515,796	23,025,759					\$35,541,555
		Total:	\$57,272,617	\$24,301,404	\$0	\$0	\$0	\$0	\$81,574,021

SCE&G Planned Projects 2015-2018 (Over \$2 Million)

	Project	Tentative Completion Date	Expenditures as of December 31, 2013	Projected 2014	Projected 2015	Projected 2016	Projected 2017	Projected 2018	Total
8	Hagood - Bee Street 115 kV Rebuild	Jan-15	395,670	6,100,000					\$6,495,670
9	Mt Pleasant-Osceola Pk 115 kV rebuild	Jan-15		400,000	3,900,000				\$4,300,000
10	Faber Place-Hagood 115 kV #1 Line Upgrade	Jan-15	218,353	2,000,000					\$2,218,353
11	Denny Terrace - Lyles 230 kV Line Upgrade	Apr-15	364,310	775,273	4,077,066				\$5,216,649
12	Clemson Wind Turbine 115 kV Tap Construct	May-15		2,200,000					\$2,200,000
13	Aiken Trans - Aiken Hampton 115 kV Line Section Upgrade	May-15	57,403		2,500,000				\$2,557,403
14	Burton - Yemassee 115 kV #2 Line Rebuild as Double Circuit	May-15	642,711		20,400,000				\$21,042,711
15	Aiken 115 kV Switching Station	May-15			5,475,000				\$5,475,000
16	Jack Primus 115 kV Line Construct	May-15	787,126	1,494,000					\$2,281,126
17	Lyles - Williams St 115 kV Rebuild	May-15			2,600,000				\$2,600,000
18	Saluda River 230/115 kV Sub Construct and Line Upgrades	May-15	4,286,602	4,754,600	5,113,081				\$14,154,283
19	Parr 115 kV Sub: Install Lightning Masts	Oct-15			2,000,000				\$2,000,000
20	Bayview - Charlotte St 115 kV U/G #2 Repair/Replace	Dec-15			5,500,000				\$5,500,000
21	St. Andrews - Queensboro 115 kV Rebuild	Dec-15			2,500,000				\$2,500,000
22	Okatie 230/115 kV Sub Construct and Line Upgrades	May-16				8,650,000			\$8,650,000
23	Summerville upgrade 230/115 kV transformer & Relocate 224 MVA transformer	May-16				3,700,000			\$3,700,000
24	Church Creek upgrade 230/115 kV transformer & Relocate 224 MVA transformer	May-16				3,700,000			\$3,700,000
25	Blythewood 115 kV Switching Station	May-16				3,600,000			\$3,600,000
26	Urquhart Replace Switch House	Dec-16				2,500,000			\$2,500,000
27	Queensboro 115 kV Switching Station	Dec-16				4,250,000			\$4,250,000
28	Urquhart - Graniteville 230 kV #2 Line Construct	May-17				9,000,000	9,500,000		\$18,500,000
29	Pepperhill - Summerville 230 kV	May-17	202,544			7,700,000			\$7,902,544
30	Cainhoy 230/115kV Sub Construct and Line Upgrades	May-17	56,011		10,300,000		16,300,000		\$26,656,011
31	Orangeburg 230kV Sub: Fold in VCS2_St.George #1 Line	May-17				TBD	TBD		\$2,159,600
32	VCS #2-St. George 230 kV Lines #1 & #2	May-17	19,888,334	46,342,454	32,406,703	40,929,846	1,955,320		\$141,522,657
33	VCS #2-St. George required 115 kV rebuilds	May-17	147,173	1,490,630	14,272,137	30,255,895	7,199,640		\$53,365,475
34	St. George-Summerville 230 kV upgrade	May-17	23,241	8,363,592	15,139,422	10,488,189	10,893,310		\$44,907,754
35	St. George-Canadys 230 kV upgrade	May-17		653,758	4,914,844	5,508,523	1,008,212		\$12,085,337
36	St. George 230 kV Switching Station	May-17		243,270	4,104,538	4,191,268	2,713,007		\$11,252,083
37	Faber Place-Hagood 115 kV #2 Construct	Dec-17					5,450,000		\$5,450,000
38	Lake Murray-Harbison 115 kV Rebuild	May-18					3,000,000		\$3,000,000
39	Stevens Creek Replace Switch House	Dec-18						2,500,000	\$2,500,000
		Total:	\$27,069,478	\$74,817,577	\$135,202,791	\$134,473,721	\$58,019,489	\$2,500,000	\$434,242,656

Hamlin – Isle of Palms 115 kV Line

Project ID

0011B, 0011F, 0011H

Project Description

Construct a 115 kV transmission line between Hamlin and Isle of Palms substations, consisting of an overhead portion from Hamlin to Hungry Neck, and an underground 115 kV cable from Hungry Neck to Isle of Palms.

Project Need

Hamlin, Isle of Palms, and Osceola substations current have one-way feed service. This new line will give these heavily-loaded substations a second transmission source.

Project Status

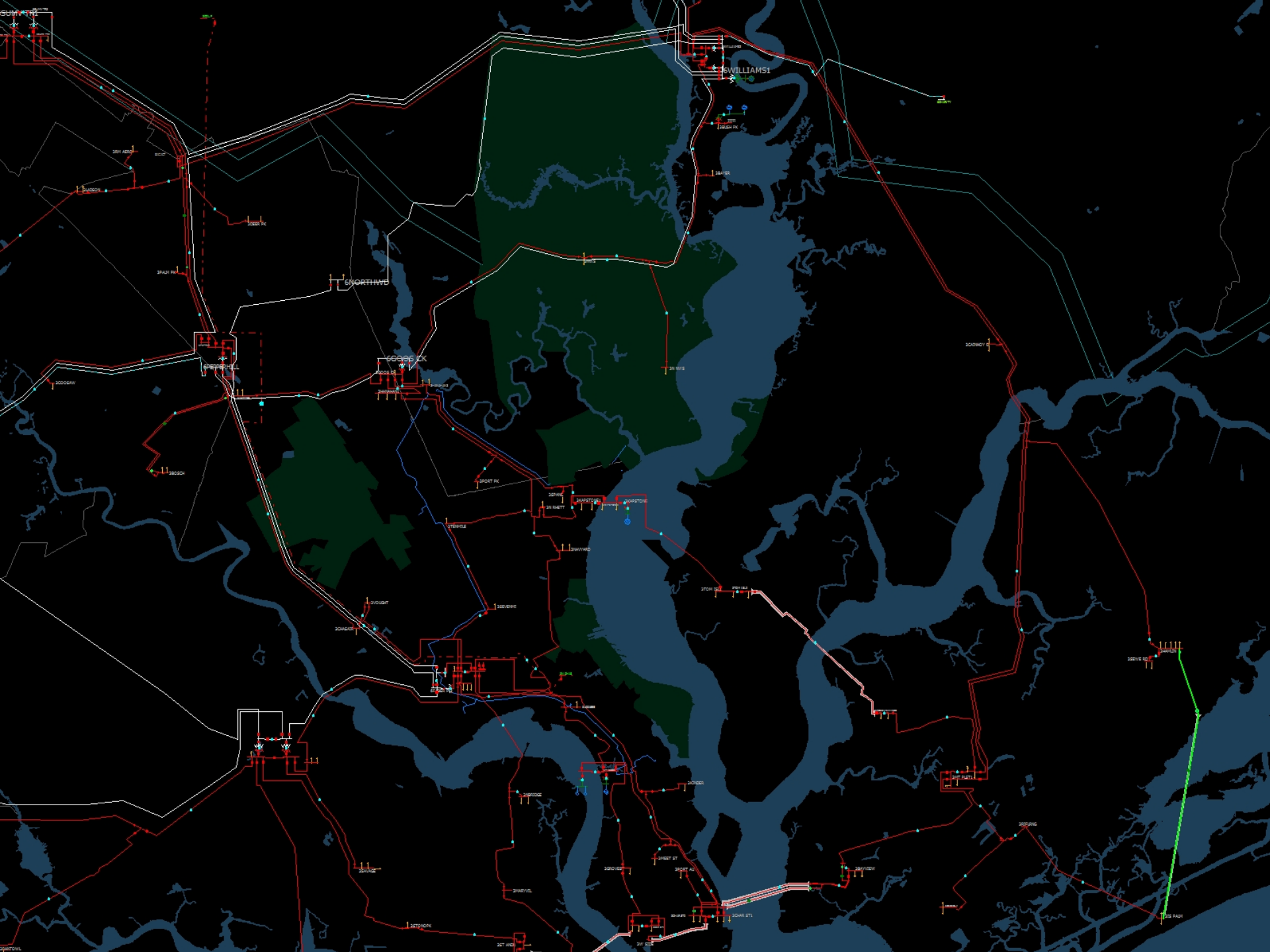
Completed

Planned In-Service Date

4/1/14

Estimated Project Cost (\$)

Previous	2014	2015	2016	2017	2018	Total
\$33,395,213	\$922,126	\$0	\$0	\$0	\$0	\$34,317,339





3CHAR ST1

3BAYVIEW

3OSCOLA

3RIFLRNG

3MT PLST1

3MT PLST2

3DOWNE WISBOHE

3SEWE RD

3SHAMLIN

3IS PALM

VCS1 - Killian 230 kV Line Construct

Project ID

090B11

Project Description

VC Summer to Killian 230 kV Transmission line B1272 ASCR, approximately 35 miles.

Project Need

VCS Nuclear Unit #2 Interconnection Requirement. Distribute power from the generation to load while meeting NERC TPL standards and SCE&G's Internal Planning Criteria.

Project Status

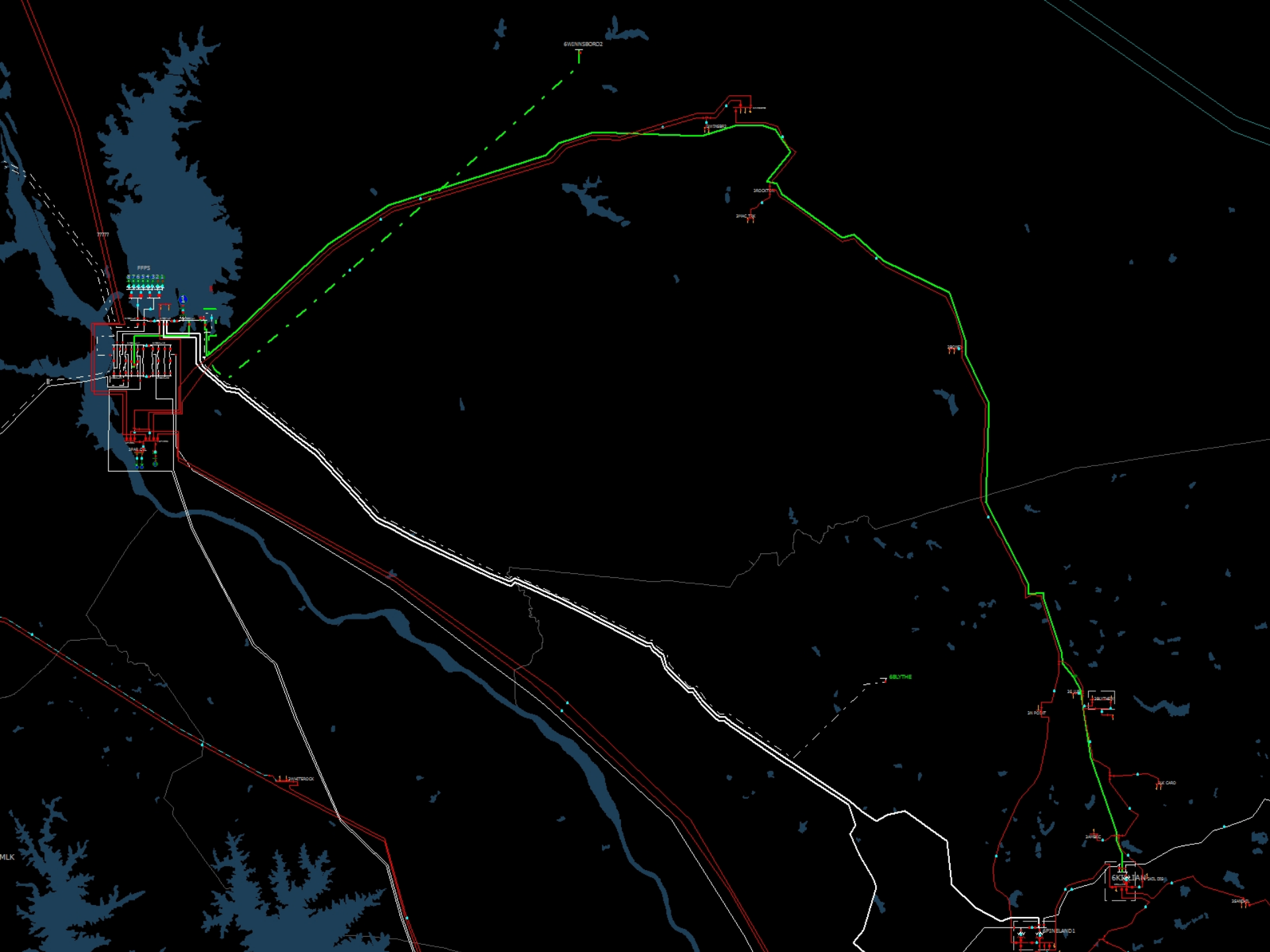
Completed

Planned In-Service Date

5/1/14

Estimated Project Cost (\$)

Previous	2014	2015	2016	2017	2018	Total
\$15,562,345	\$437,655	\$0	\$0	\$0	\$0	\$16,000,000



Edenwood – Columbia Industrial Park 115 kV Line: Improvement

Project ID

4005H

Project Description

Rebuild from State Newspaper tap to Columbia Industrial Park (2.9 miles) with steel structures and 1272 ASCR conductor

Project Need

Identified in Transmission Planning studies as one of worst performers, improvements required.

Project Status

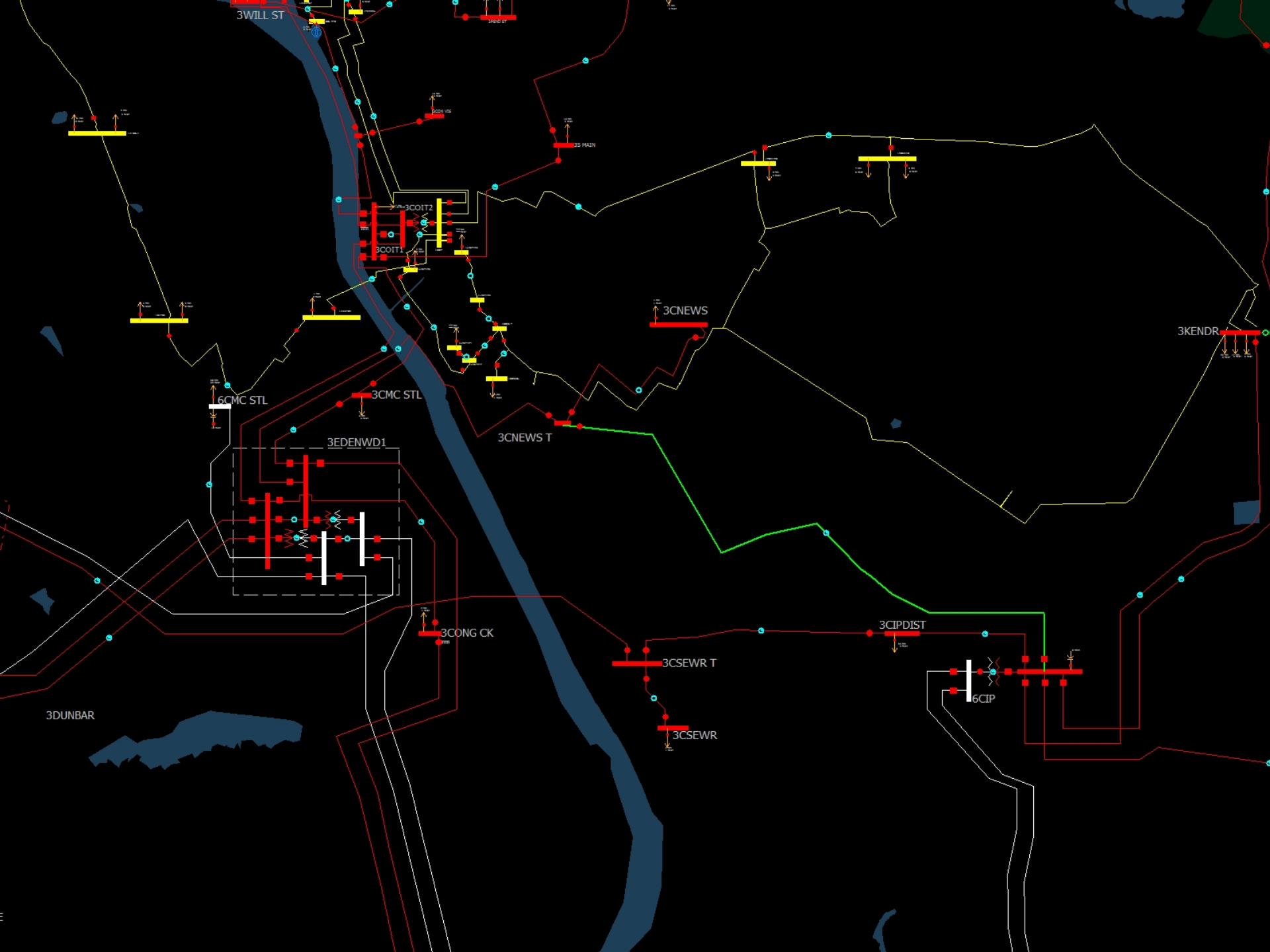
Under Construction

Planned In-Service Date

12/1/2014

Estimated Project Cost (\$)

Previous	2014	2015	2016	2017	2018	Total
\$3,084,169	\$315,831	\$0	\$0	\$0	\$0	\$3,400,000



3WILL ST

3S MAIN

3COIT2

3COIT1

3CNEWS

3KENDR

6CMC STL

3CMC STL

3CNEWS T

3EDENWD1

3DUNBAR

3CONG CK

3CIPDIST

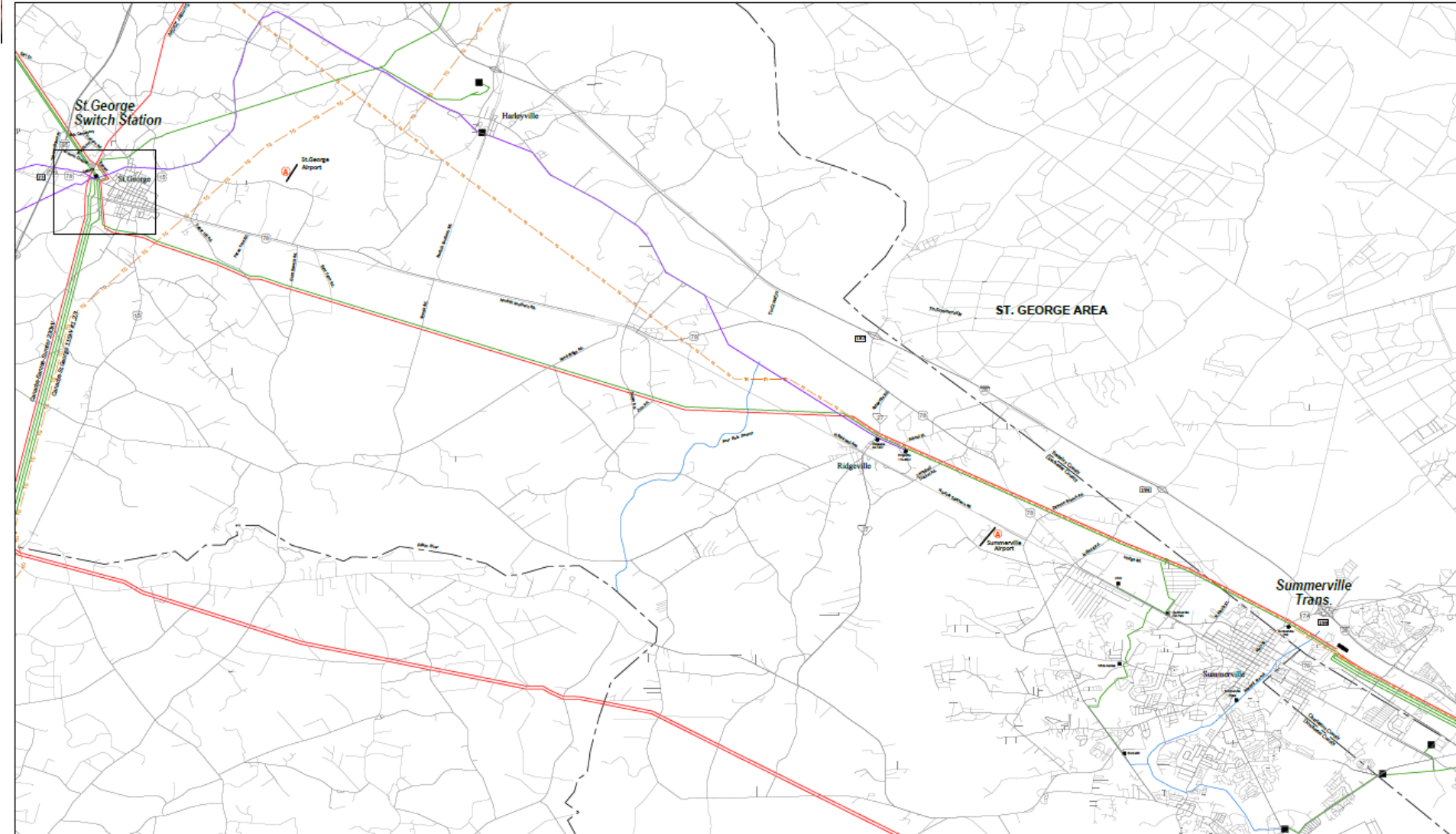
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6CIP

VC Summer 3 Transmission Projects





Orangeburg 230 kV Sub: Fold in VCS2 – St. George #1 230 kV

Orangeburg 230 kV Sub: Fold in VCS2 – St. George 230 kV #1

Project ID

94D23, 94D24

Project Description

Fold in the future VCS2 – St. George 230 kV #1 line at Orangeburg Transmission. Add two 230 kV line terminals at Orangeburg transmission, replace existing 230 kV 2000 Amp bus-tie breaker with 3000 Amp circuit breaker.

Project Need

Canadys generation previously provided 323 MW of support to the 115 kV transmission system serving load around the Orangeburg, St. George and Walterboro load centers. Increased support of Orangeburg 230 kV will decrease the burden of 115 kV system in Orangeburg/St. George areas. This project is required to meet NERC TPL standards and SCE&G's Internal Planning Criteria, as well as providing increased reliability to the Orangeburg and St. George areas.

Project Status

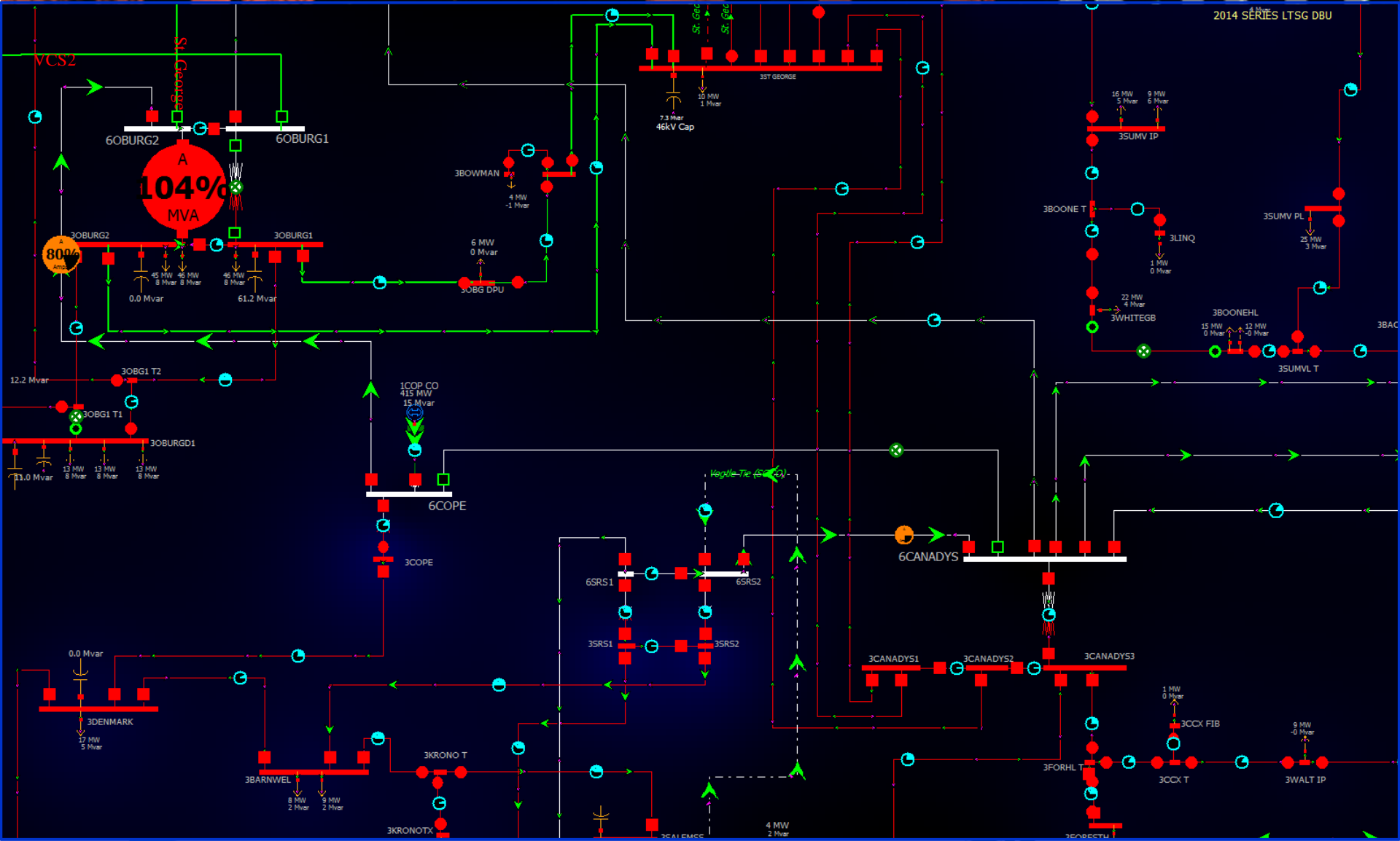
Planned

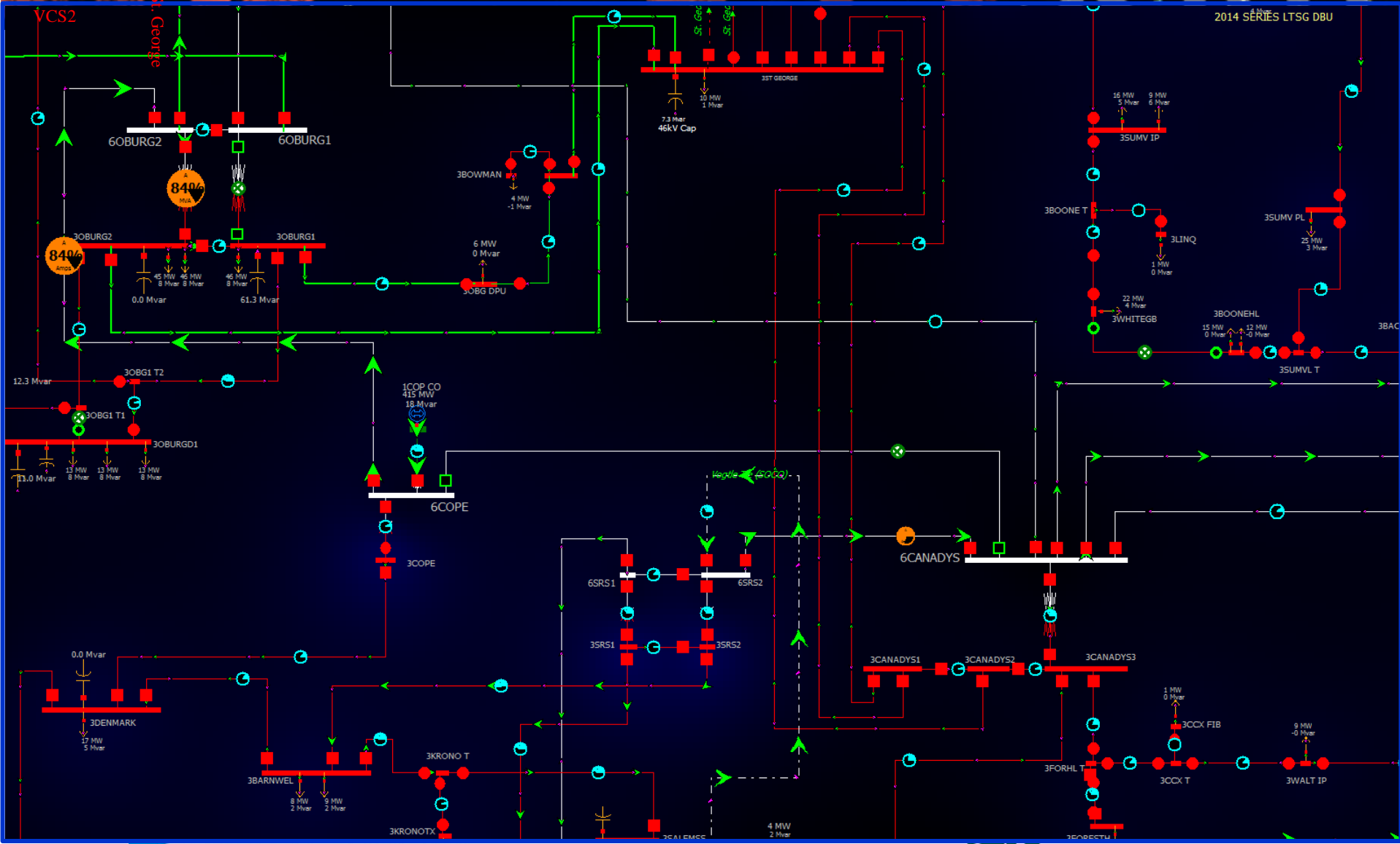
Planned In-Service Date

5/1/2017

Estimated Project Cost (\$)

Previous	2014	2015	2016	2017	2018	Total
\$0	\$0	\$0	\$TBD	\$TBD	\$0	\$2,159,600





Current Transmission Expansion Plans

Santee Cooper

Rick Thornton

Transmission Network Completed Projects

- Orangeburg 230-115 kV Substation 06/2013
- Pomaria 230-69 kV Substation 06/2013
- Fold Newberry-VCS 230 kV into Pomaria 06/2013
- Cane Bay Tap-Sangaree Tap 115 kV Line 06/2013

Transmission Network

Active Projects

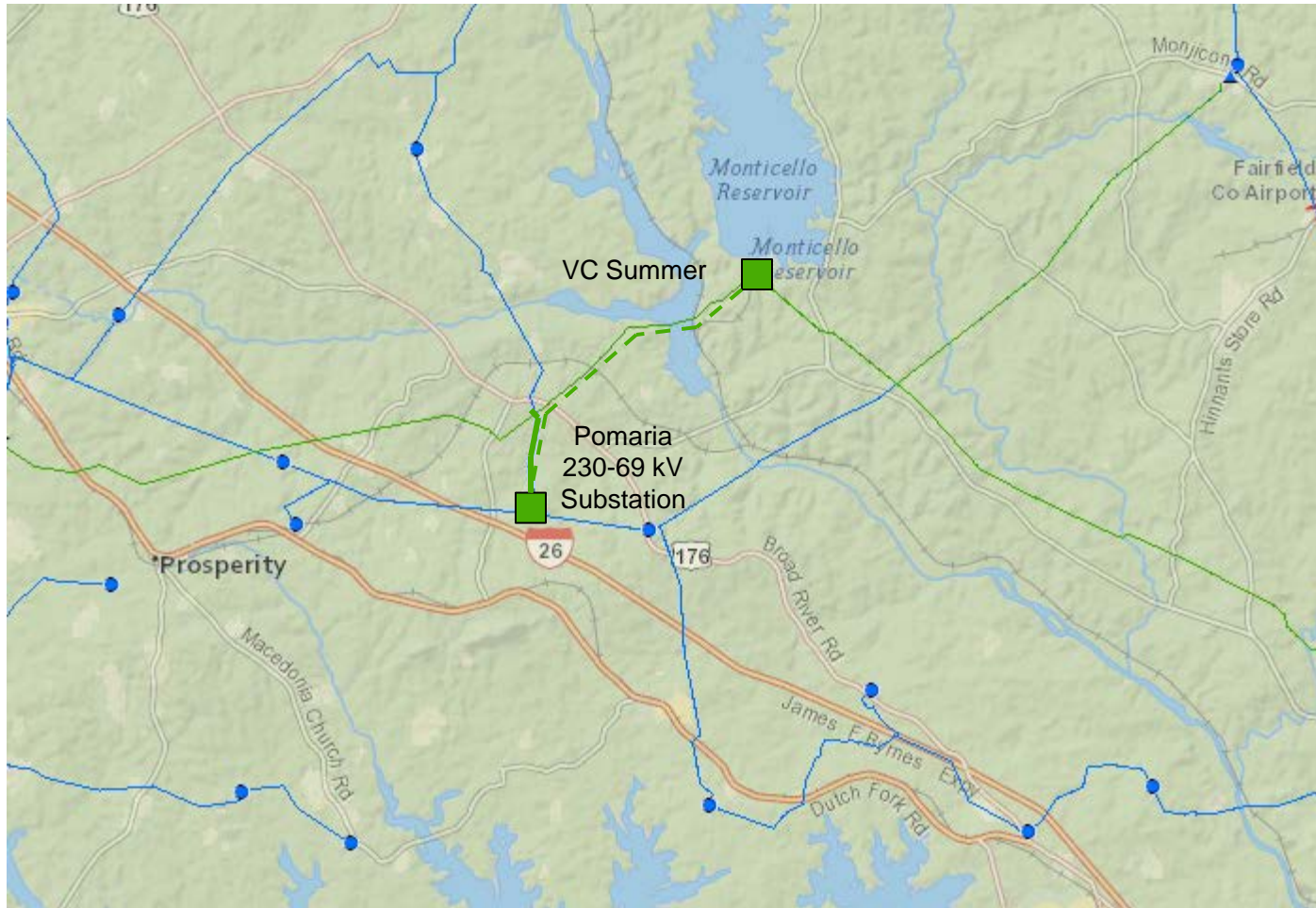
- VCS-Pomaria #2 230 kV Line 05/2014
- Winnsboro 230-69 kV Substation 06/2014
- VCS-Winnsboro 230 kV Line 06/2014
- Bucksville 230-115 kV Substation 06/2014
- Richburg 230-69 kV Substation 03/2015
- Winnsboro-Richburg 230 kV Line 04/2015
- Purrysburg 230-115 kV Substation 06/2015
- Purrysburg-McIntosh 230 kV Line #2 06/2015
- Winyah-Bucksville 230 kV Line 06/2015

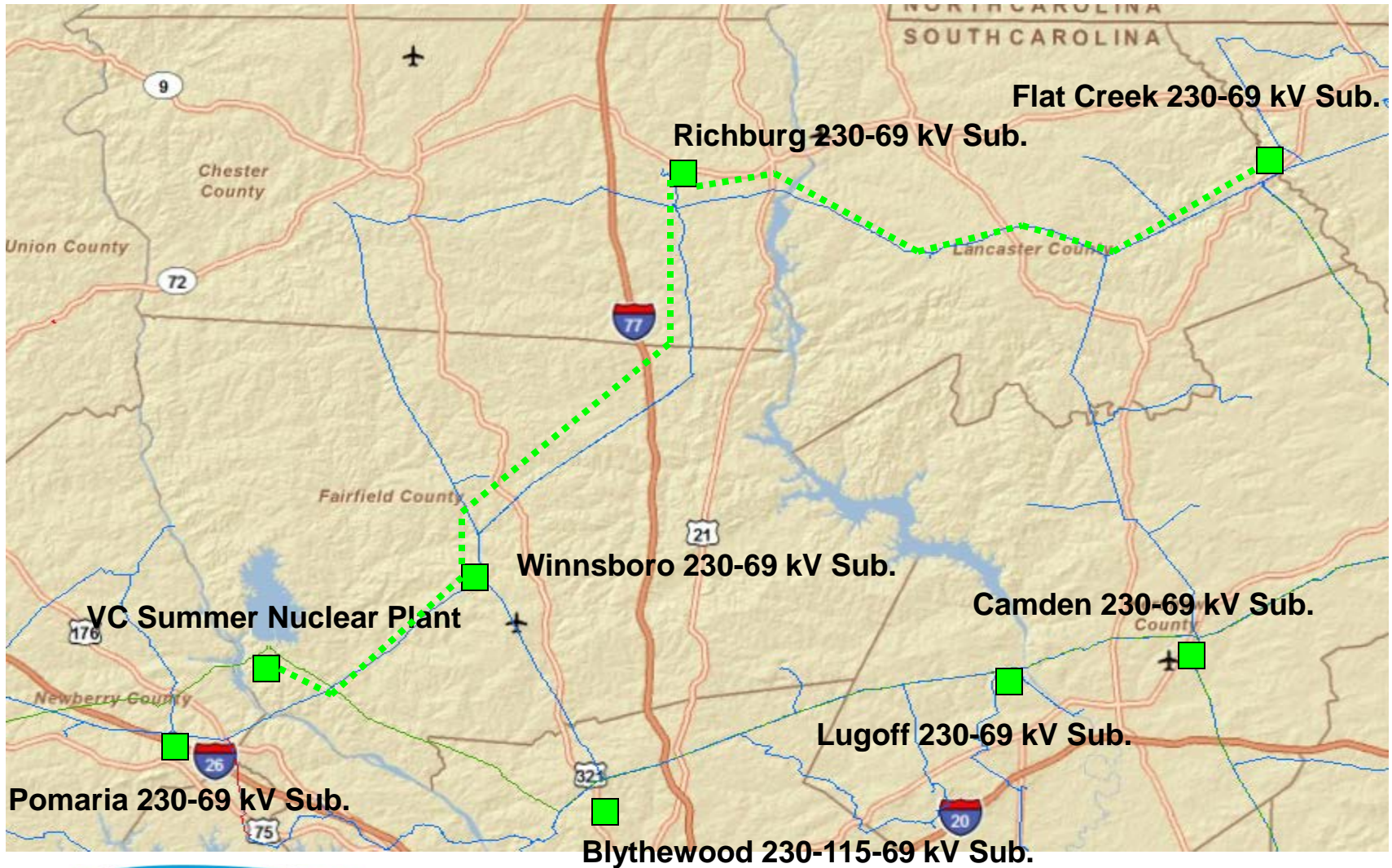
Transmission Network

Active Projects

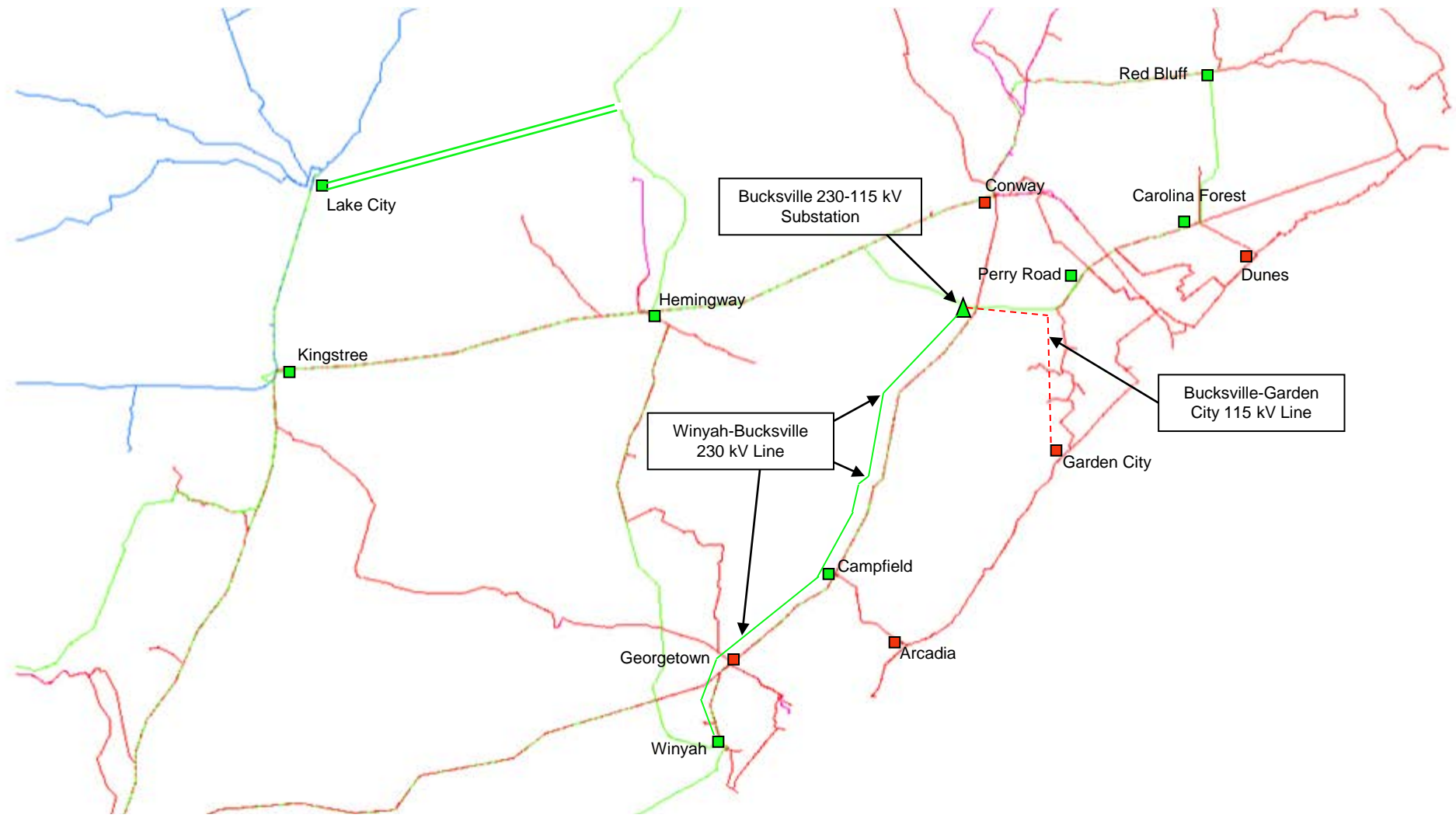
- Richburg-Flat Creek 230 kV Line 06/2016
- Bucksville-Garden City 115 kV Line 06/2016
- Sandy Run 230-115 kV Substation 05/2017
- Pomaria-Sandy Run 230 kV Line 05/2017
- Sandy Run-Orangeburg 230 kV Line 11/2017

VCS-Pomaria 230 kV Line #2

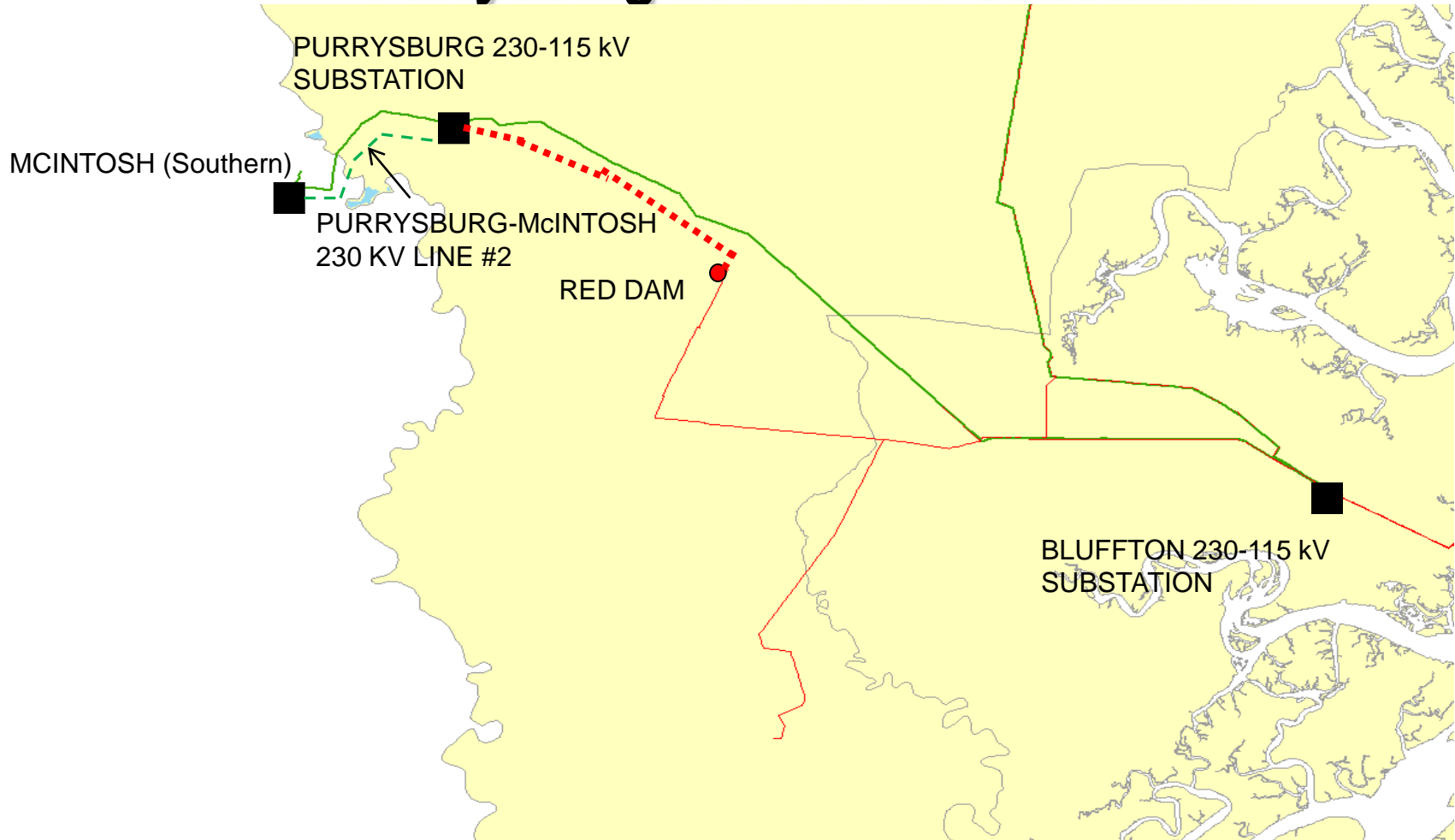




Bucksville Transmission Projects



Purrysburg 230-115 kV Substation

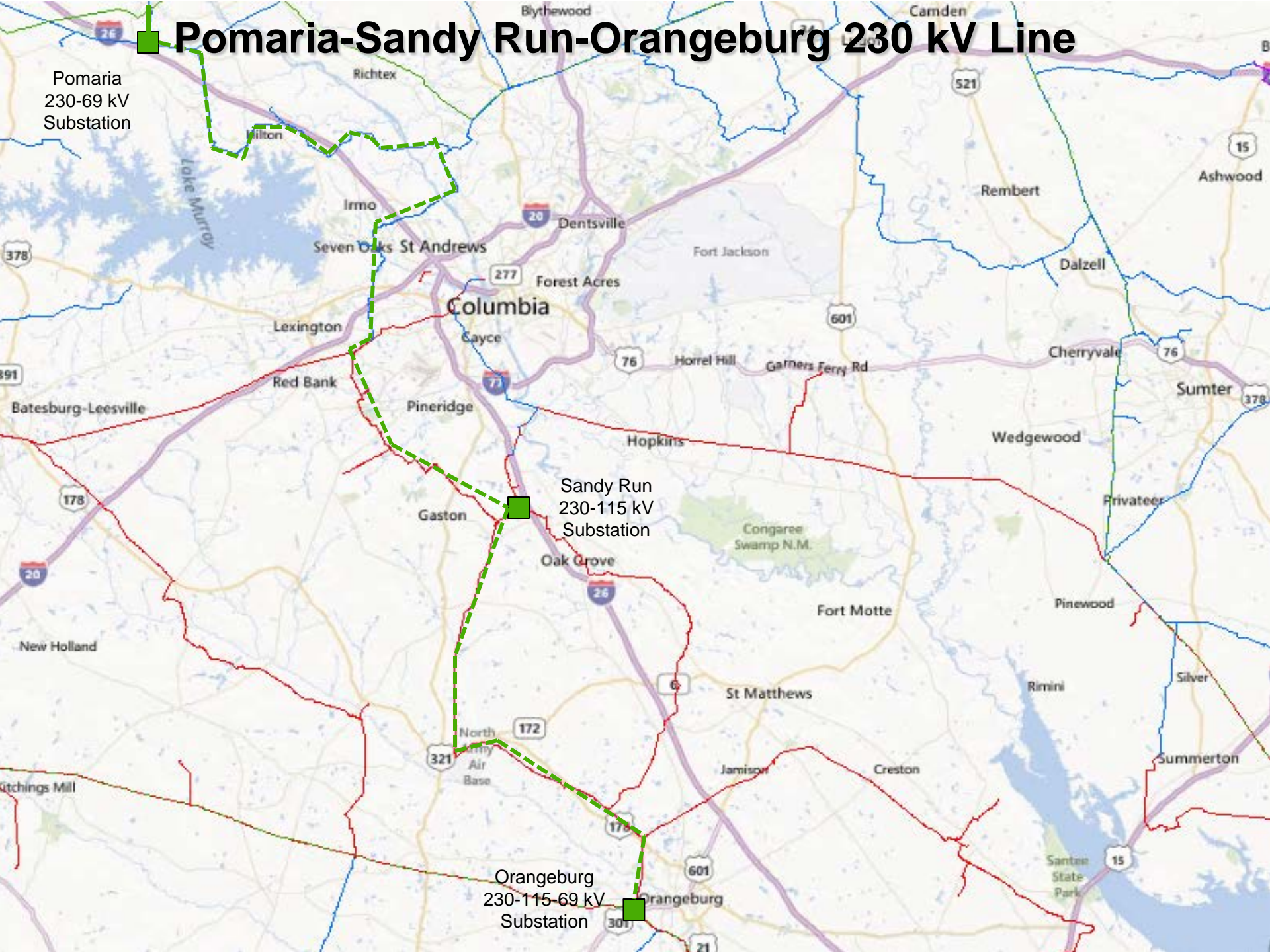


Pomaria-Sandy Run-Orangeburg 230 kV Line

Pomaria
230-69 kV
Substation

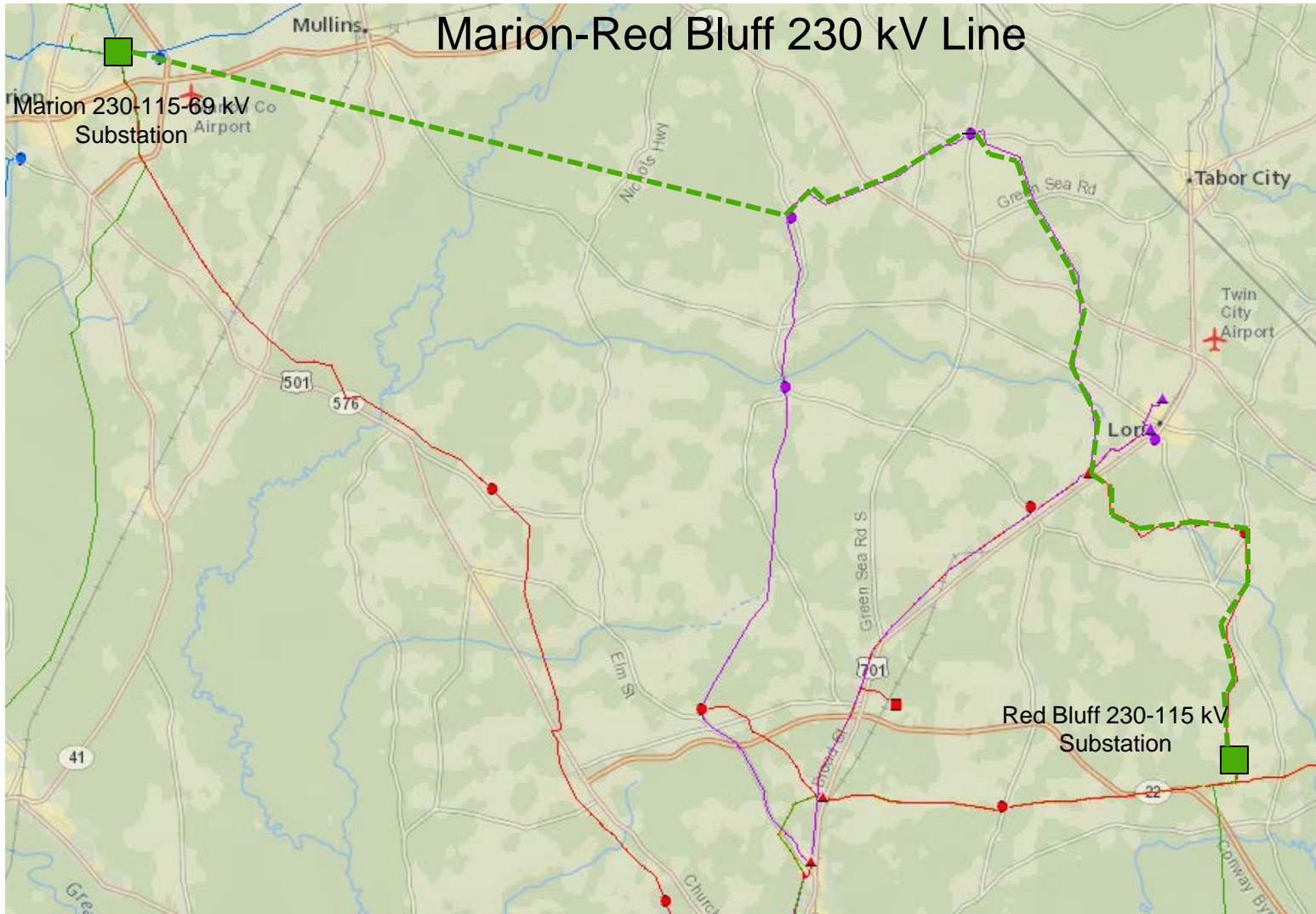
Sandy Run
230-115 kV
Substation

Orangeburg
230-115-69 kV
Substation

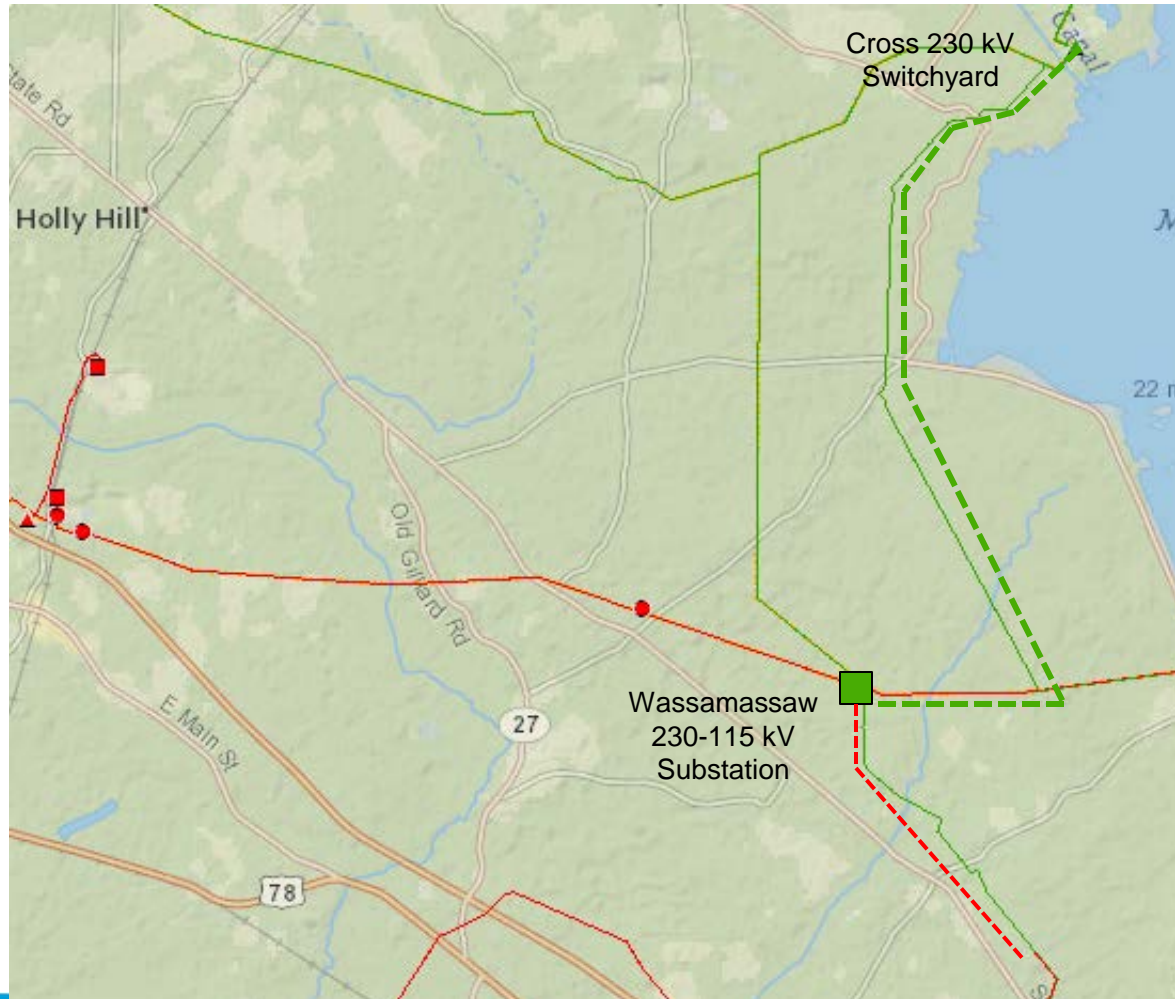


Transmission Network Planned Projects

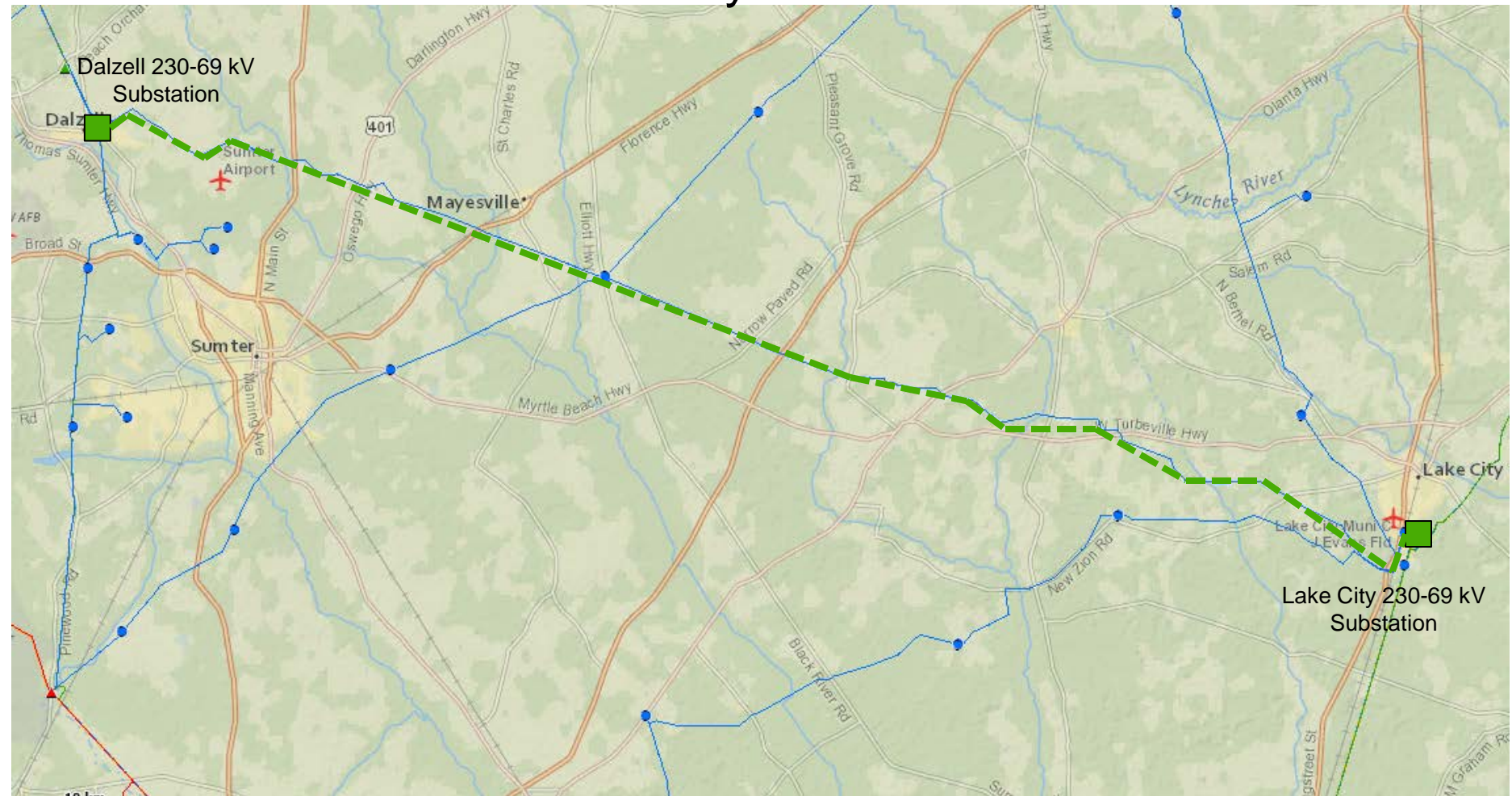
- Marion-Red Bluff 230 kV Line 12/2015
- Wassamassaw 230-115 kV Substation 06/2019
- Cross-Wassamassaw #2 230 kV Line 06/2020
- Dalzell-Lake City 230 kV Line 05/2017
- Sandy Run-Pinewood 230 kV Line 05/2018



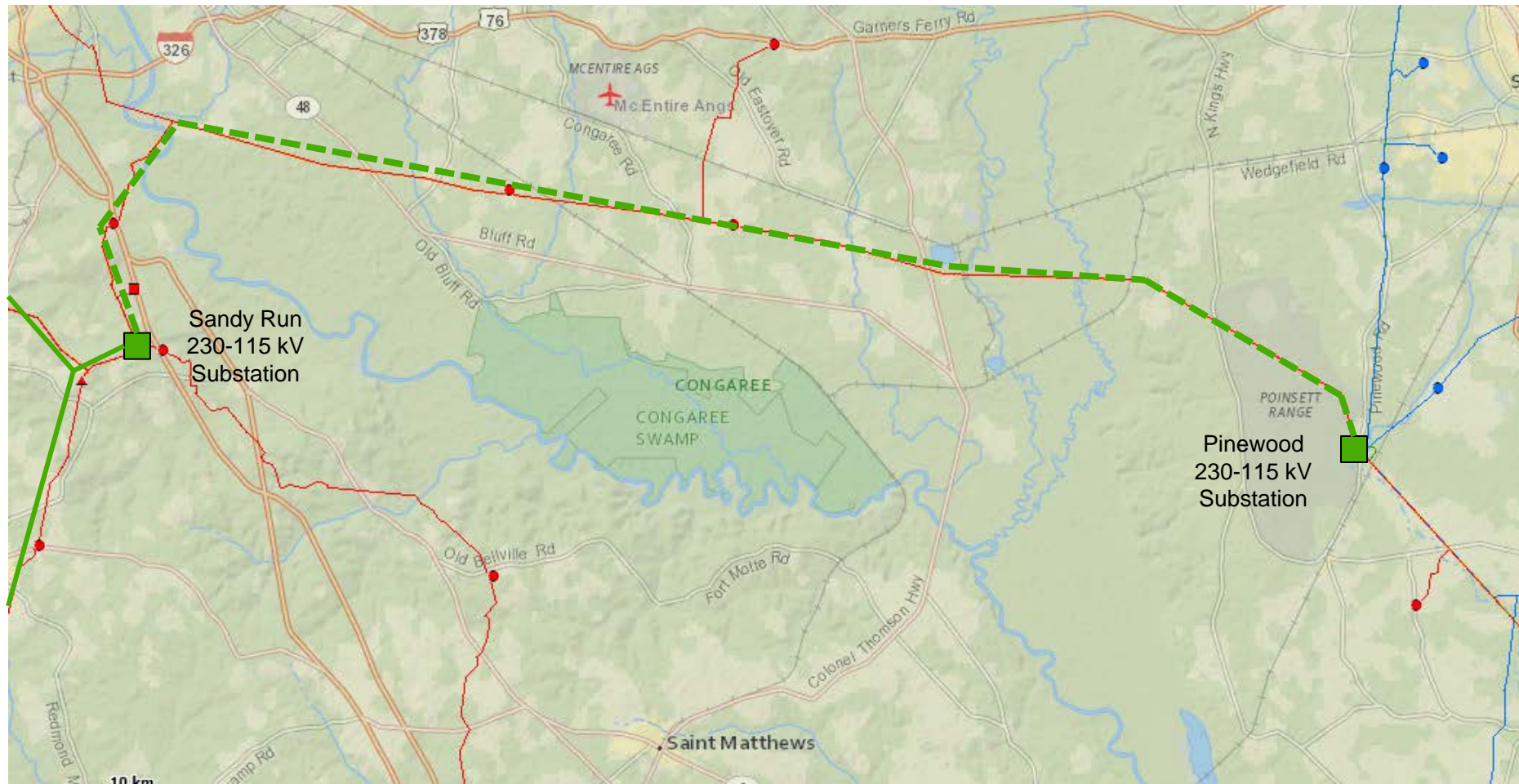
Wassamassaw 230-115 kV Substation



Dalzell-Lake City 230 kV Line



Sandy Run-Pinewood 230 kV Line



Current Transmission Expansion Plans

Stakeholder Input, Comments and Questions

Economic Transmission Planning Studies – Initial Findings

Jeff Neal
Rick Thornton

Study Methodology

Two types of studies:

- Linear transfer analysis using PTI's MUST Software. Analysis includes single contingencies of SERC while monitoring SCE&G and Santee Cooper Transmission Systems.
- A Thermal and Voltage analysis using PTI's PSS/E and/or PowerWorld Simulator Software. This analysis of SCE&G and Santee Cooper's internal transmission systems included single contingencies, double contingencies and selected bus outages with and without the simulated transfer in effect. However, this analysis is not a complete testing of NERC TPL standards.

Case Development

- The most current MMWG models were used for the systems external to SCE&G and SCPSA as a starting point for the study case.
- The study case(s) include the detailed internal models for SCE&G and SCPSA. The study case(s) include new transmission additions currently planned to be in-service for the given year (i.e. in-service by summer 2017 for 2017S case).

Case Development

- SCE&G and SCPSA have coordinated interchange which includes all confirmed long term firm transmission reservations with roll-over rights applicable to the study year.
- The coordinated cases were used to build base cases.
- Base cases were used to build transfer cases.

Study Results

- SCE&G and SCPSA have reported results based on thermal loading greater than 90% and voltage violations in accordance with their planning criteria.
- Overloaded facilities that had a low response to the requested transfer were excluded and problems or issues identified that are local area in nature were also excluded.

2014 Economic Planning Studies

Source	Sink	Study Year	Transfer
Duke	Santee Cooper	2015 Winter	250 MW
Offshore Wind Injection (115 kV)	Santee Cooper/SCE&G	2019 Winter	300 MW
Southern Company	SCE&G	2015 Summer	300 MW
SCE&G	Duke	2019 Summer	200 MW

Power Flow Base Cases

- 2013 Series Internal PSSE Models
 - 2015 Winter
 - 2015 Summer
 - 2020 Winter (Proxy for 2019 Winter)
 - 2020 Light Load (Proxy for 2019 Light Load)
 - 2019 Summer

Preliminary Result Components

- The following information is preliminary and subject to change pursuant to additional analyses.
- The following information does not represent a commitment to proceed with the recommended enhancements nor implies that the recommended enhancements could be implemented by the study dates.
- These potential solutions only address constraints identified within the respective areas that comprise the SCRTP. Balancing Areas external to the SCRTP were not monitored, which could result in additional limitations and required system enhancements.

Preliminary Results

Duke-Santee Cooper 250 MW 2015 Winter

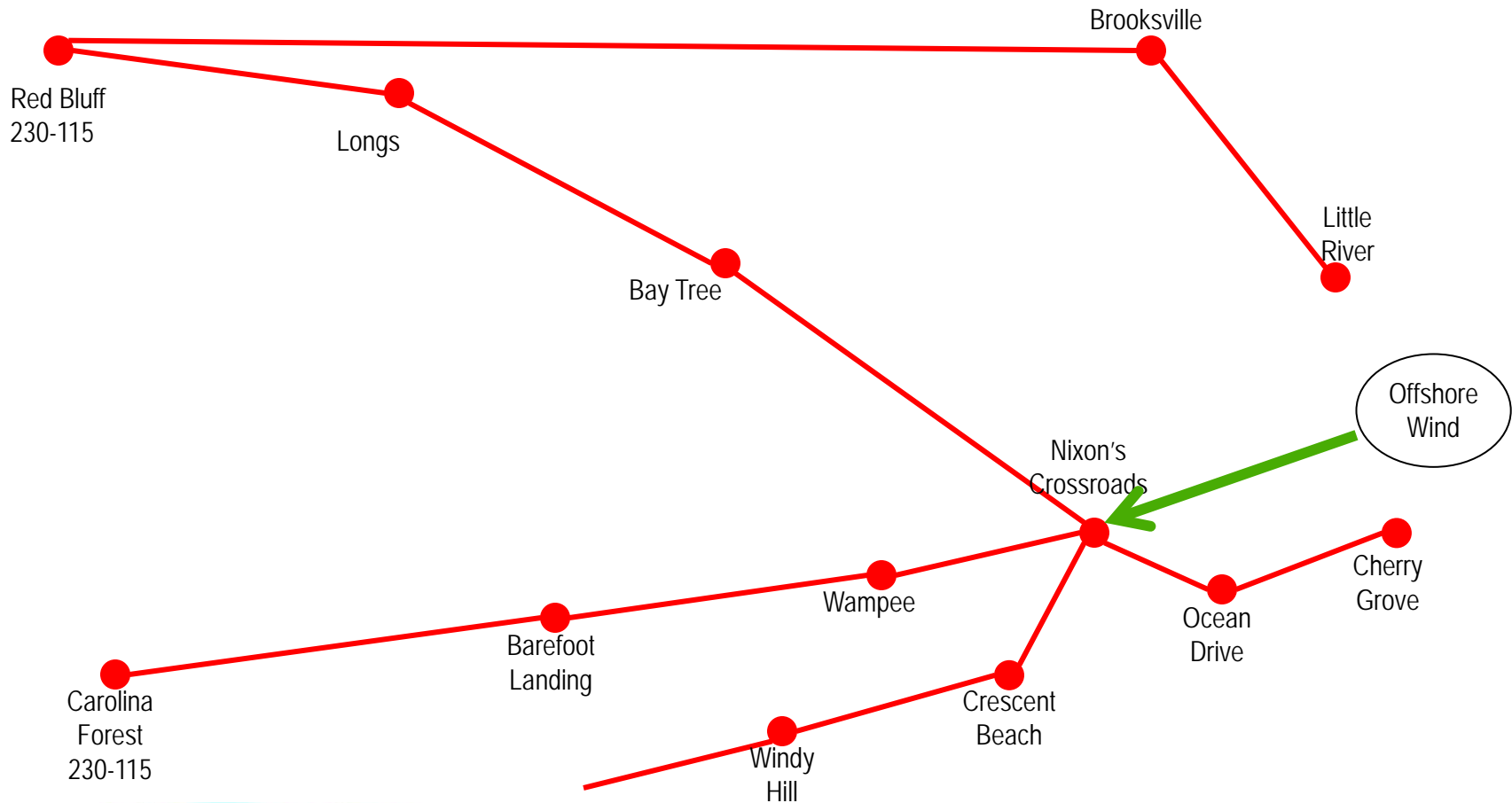
Case	FCITC	Limiting Element
2015 Winter	-	None

Preliminary Results

Offshore Wind Injection-Santee Cooper/SCE&G 300 MW

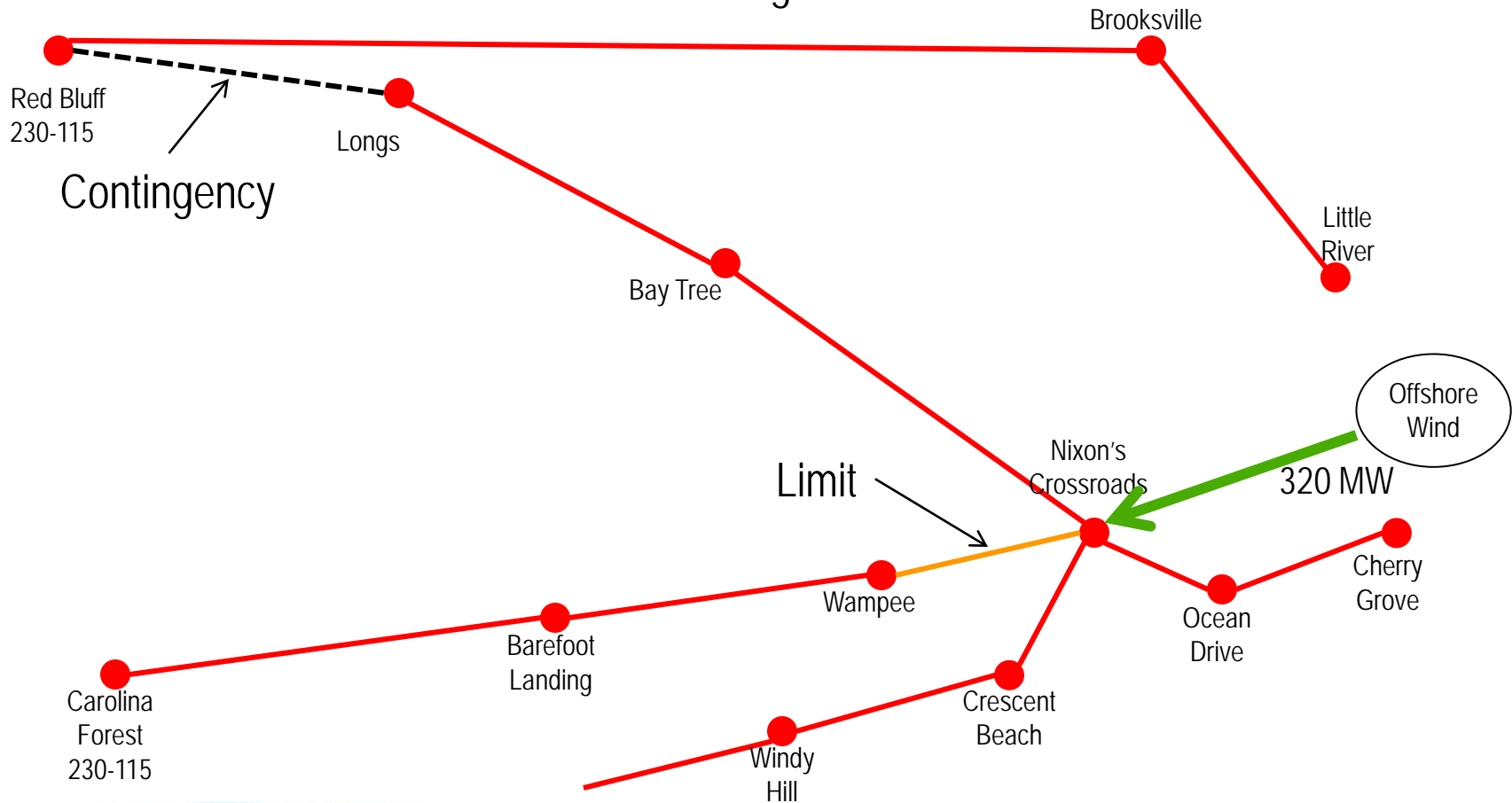
Case	FCITC	Limiting Element
2020 Winter	448 MW	Nixon's Crossroads – Wampee 115 kV
		C: Red Bluff – Longs 115 kV
2020 Light Load	320 MW	Nixon's Crossroads – Wampee 115 kV
		C: Red Bluff – Longs 115 kV
2020 Light Load with Red Bluff-Nixon's Crossroads #2 115 kV	400 MW	Nixon's Crossroads – Wampee 115 kV
		C: Red Bluff – Longs 115 kV

Offshore Wind – Santee Cooper/SCE&G



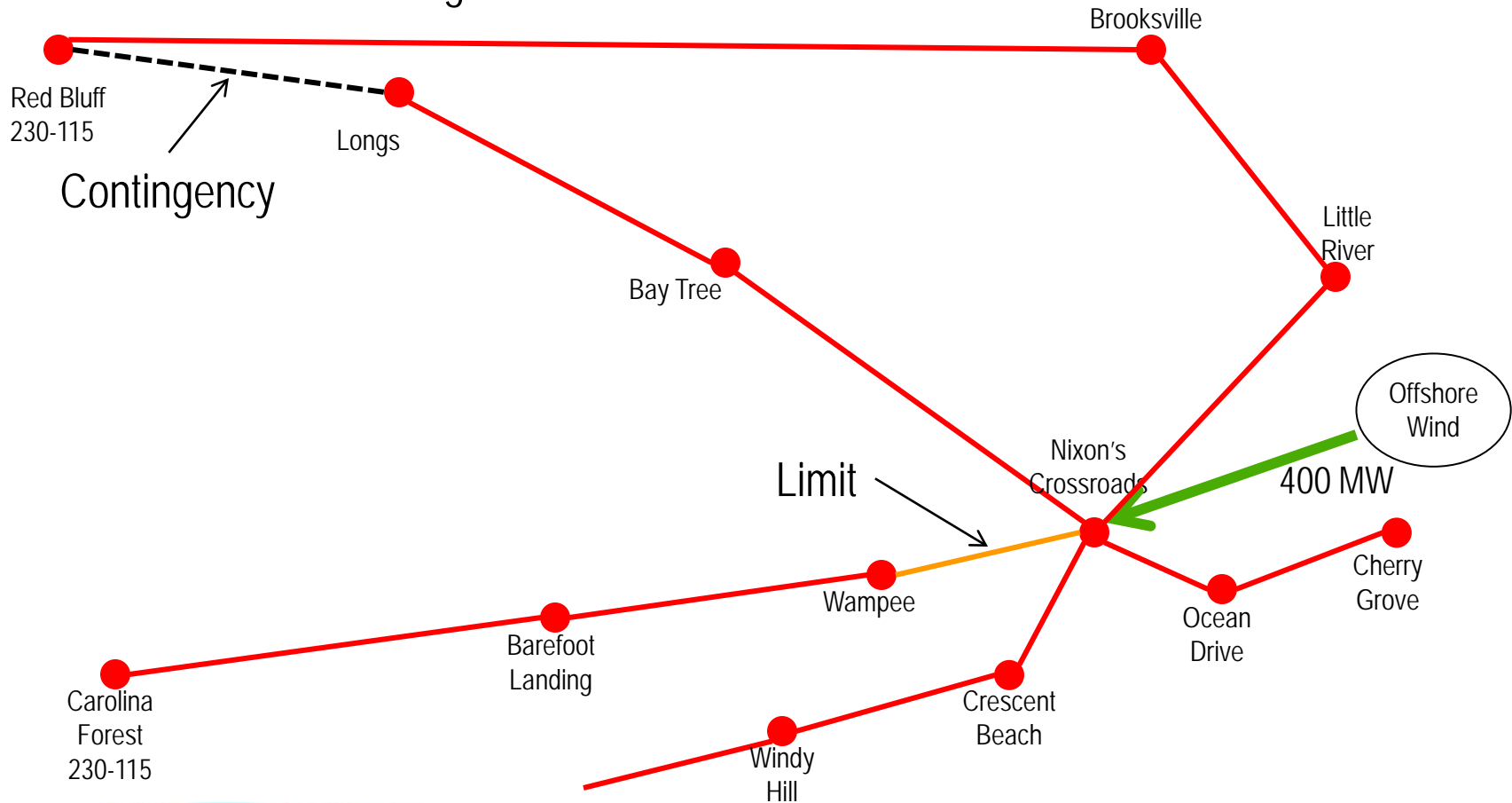
Offshore Wind – Santee Cooper/SCE&G

2020 Light Load



Offshore Wind – Santee Cooper/SCE&G

2020 Light Load with Red Bluff-Nixon's Crossroads #2



Preliminary Results

Southern Company-SCE&G 300 MW 2015 Summer Study

Constrained Facility	Loading %	Increase %	Contingency	Project
Graniteville 230/115 kV 3	101.4	3.3	Graniteville – Graniteville #2 230 kV and VC Summer #1 Generator	P0*
Savannah River Site 230/115 kV 1/2	103.5	3.2	Urquhart – Graniteville #2 230 kV and Savannah River Site 230/115 kV 1/2	P0*
Graniteville 230/115 kV 3	108.6	3.0	Graniteville – Graniteville #2 230 kV and Graniteville – Owens Corning 115 kV	P0*

*Project is active, and scheduled for completion in May 2016. Operating Guides are currently in place to avoid potential overloads in these situations.

Preliminary Results

Southern-SCE&G 300 MW

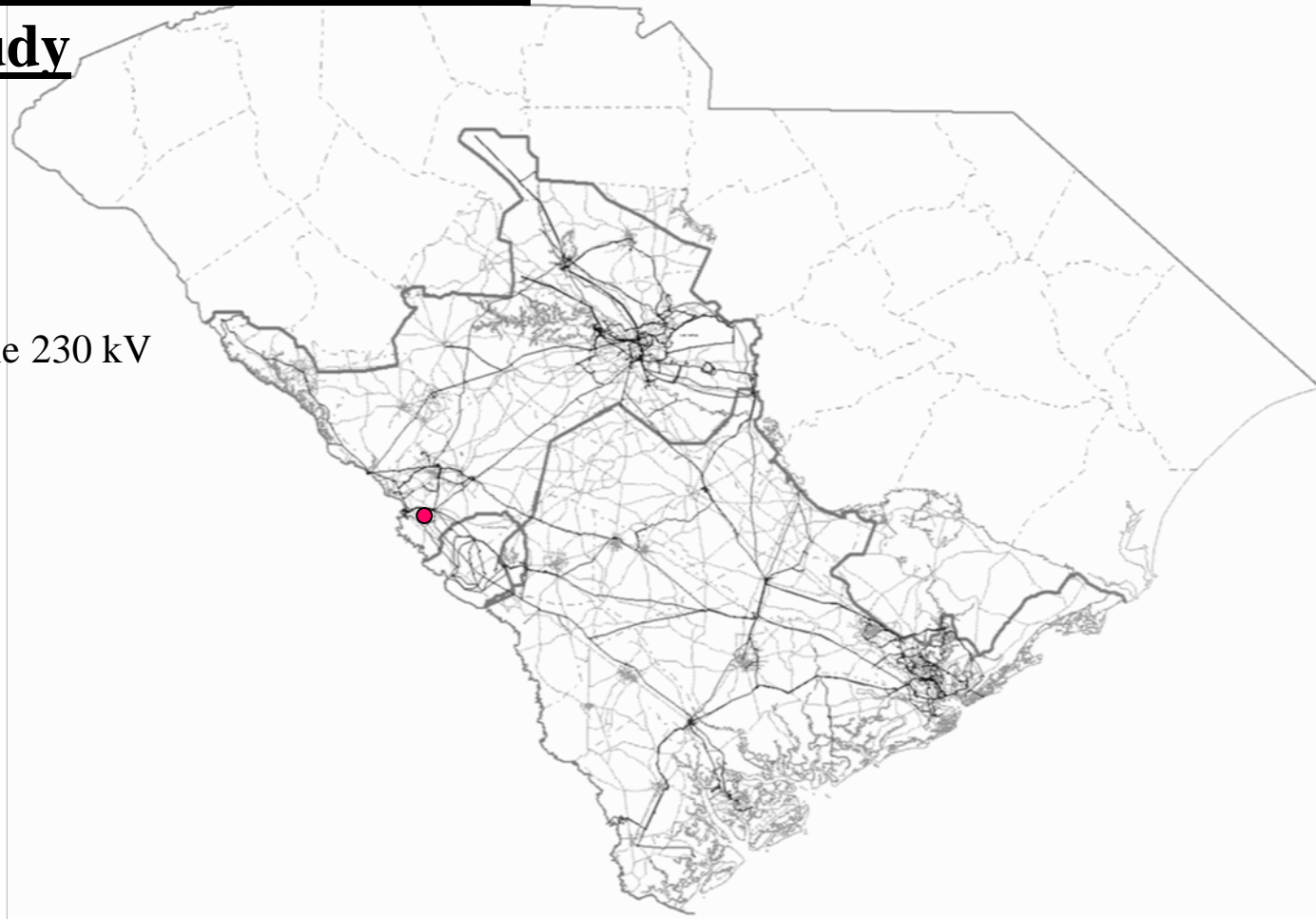
2015 Summer Study

Project	Description	Cost (2014\$)	Duration (Months)
P0*	Rebuild Urquhart – Graniteville 115 kV as SPDC 230 kV construction with B1272 ACSR	18,500,000	18
TOTAL (2014\$)		\$18,500,000	

*Project is active, and scheduled for completion in May 2016. Operating Guides are currently in place to avoid potential overloads in these situations.

Southern Company-SCE&G 300 MW 2015 Summer Study

- Urquhart-Graniteville 230 kV



Preliminary Results

SCE&G-Duke 200 MW 2019 Summer Study

Constrained Facility	Loading %	Increase %	Contingency	Project
Graniteville 230/115 kV 1/2	107	6.5	Graniteville 230/115 kV 1/2 & Graniteville 230/115 kV 3	P1

Preliminary Results

SCE&G-Duke 200 MW 2019 Summer Study

Project	Description	Cost (2014\$)	Duration (Months)
P1	Upgrade Graniteville 224 MVA 230/115 kV Banks 1&2 to 336 MVA	7,400,000	18
TOTAL (2014\$)		\$7,400,000	

SCE&G – Duke 200 MW 2019 Summer Study

- Graniteville 230/115 kV Upgrade



Report and Power Flow Case Access

- Draft reports will be provided to stakeholders
- Power Flow Starting Point Cases available as of May 15, 2013

Economic Transmission Planning Studies Initial Findings

Stakeholder Input, Comments and Questions

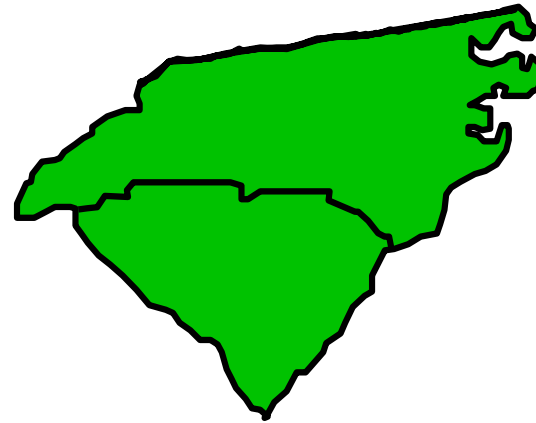
Reliability Assessment Studies

Rick Thornton

Multi-Party Assessments

- Carolina Transmission Coordination Arrangement (CTCA) Assessments
- SERC Assessments
- ERAG Assessments
- Two Party or Multi-Party 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 and assessment and operating activities among the specific parties associated with the CTCA

CTCA Purpose

Interchange Agreements associated with the CTPCA

Duke Energy Carolinas (“Duke”) and Duke Energy Progress (“Progress”)

Duke Energy Carolinas (“Duke”) and South Carolina Electric & Gas Company (“SCE&G”)

Duke Energy Carolinas (“Duke”) and South Carolina Public Service Authority (“SCPSA”)

Duke Energy Progress (“Progress”) and South Carolina Electric & Gas Company (“SCE&G”)

Duke Energy Progress (“Progress”) and South Carolina Public Service Authority (“SCPSA”)

South Carolina Electric & Gas Company (“SCE&G”) and South Carolina Public Service Authority (“SCPSA”)

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

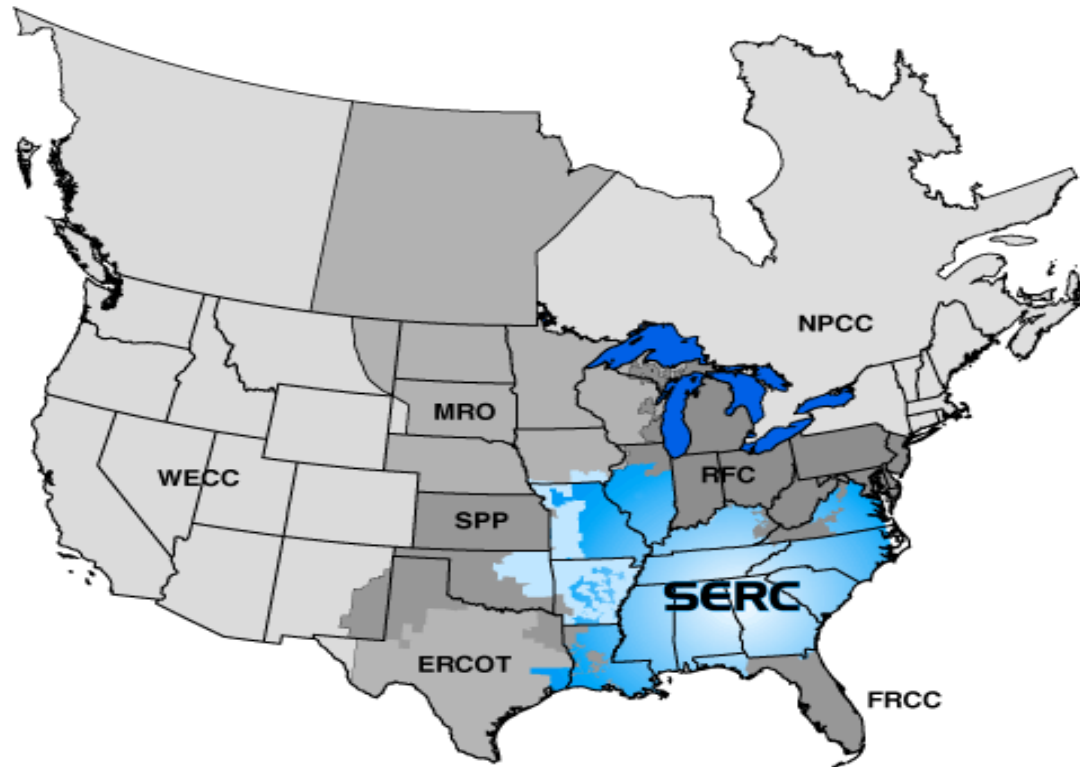
- Assess the existing transmission expansion plans of Duke, Progress, SCEG, and SCPSA to ensure that the plans are simultaneously feasible.
- Identify any potential joint solutions that are more efficient or cost-effective than individual company plans, which also improve the simultaneous feasibility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

CTCA Studies 2014 Schedule

- 2014 Study Scenario pending

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.

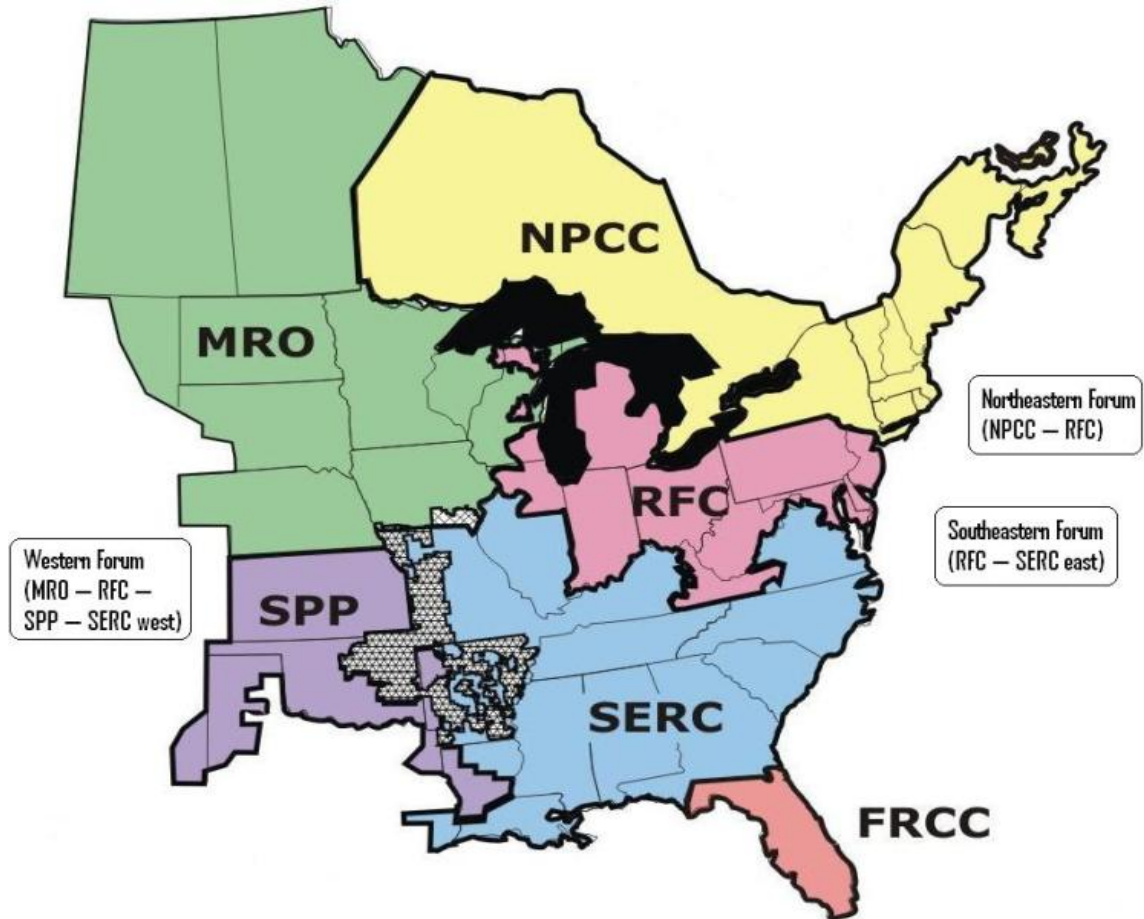
SERC Long Term Study Group 2014 Work Schedule

- LTSG Data Bank Update –May 20-22 Hosted by TVA
- Study assignment by RSSC in July 2014
- Work completed by LTSG August thru October
- Report issued late November 2014.

SERC Assessments

Questions?

ERAG Assessments



ERAG Studies

- Seasonal and Near Term/Long Term Studies are to be prepared on a 4-year rotation.
- Rotation will consist of two assessments being performed each year.

MRSS-RN

- MRO – Midwest Reliability Organization
- RFC - Reliability First Corporation
- SERC west
- SPP – Southwest Power Pool

MRSS-RN

(CONT.)

- RFC – Reliability First Corporation
- NPCC – Northeast Power Coordinating Council

MRSS - RN

2014 Studies

- 2014 Summer
 - Final Report due May 9
- 2014/15 Winter

ERAG Reliability Assessments

Questions?

Eastern Interconnection Planning Collaborative Update

Phil Kleckley

SCRTP Regional Stakeholder Meeting

May 9, 2014

About the EIPC

- 23 Planning Authority (Planning Coordinator) members including ISOs/RTOs, non-ISO regions, municipals, cooperatives, ...
- Members are from the U.S. and Canada
- Approximately 95% of the Eastern Interconnection customers covered

EIPC Supporting Activities

- CEII: Continue to make EIPC models available to those who have completed the EIPC CEII process (based on regional clearance)
- Website: www.eipconline.com
 - Continue to host the EIPC website
 - Review current EIPC website and recommend modifications as appropriate
 - Post material from both grant and non-grant EIPC activities

EIPC Stakeholder Process

- Existing stakeholder groups previously created for other purposes such as compliance with FERC Order 890 will be used to facilitate stakeholder input
- Ensure a regional focus:
 - Present roll-up models and results
 - Receive stakeholder feedback, input, comments and suggestions on specific scenarios to be studied
 - Present the results of scenario studies
 - Seek stakeholder feedback on reports that are created

EIPC 2014 Study

- Webinar conducted March 25, 2014
- Presented study scenario options to stakeholders
 - 2 EIPC Proposals
 - 4 Stakeholder Proposals

EIPC Study Proposals

- 2018 Spring Peak Load Inter-Regional Capabilities and Constraints
- 2018 Winter Peak Load Inter-Regional Capabilities and constraints

Stakeholder Study Proposals

- 2023 Summer Peak Load Heat Wave and Drought Conditions With Long Distance Transfers
- 2023 Summer Peak Load With Updated NY Transmission Owners' Transmission Solutions (and solicit other Regions' updates)
- 2023 Summer Peak Load and Increased Gas Generation in Lower Hudson Valley (and solicit other Regions increased' gas generation)
- 2023 Summer Peak Load with High Transmission Build Out (increased transfer capability)

EIPC Study Selections

Scenario A

2023 Summer Peak Load With Updated NY Transmission Owners' Transmission Solutions (and solicit other Regions' updates)

- Re-perform transfer analysis to identify effect of model updates on transfer capability between areas

Scenario B

2023 Scenario A updates plus Heat Wave And Drought Conditions With Long Distance Transfers

- Perform Heat Wave and Drought Analysis

EIPC Study Selections

2018 Winter Peak Load Model

- 2014 resources will be devoted to 2023 Scenarios
- Near-term case may be included in 2015 efforts
- Would be completely new model rather than update of 2013 roll-up case for 2018 summer

2014 Scenario Analysis Timeline

- 5/2/2014 Finalize modeling assumptions for Scenario B
- 5/30/2014 Complete update of 2023 Study Case for Scenario A
- 6/27/2014 Re-perform transfer analysis for Updated Scenario A
- 6/27/2014 Update 2023 Study Case for Scenario B

2014 Scenario Analysis Timeling

- 8/29/2014 Complete Scenario B analysis
- 10/31/2014 Produce draft report for Scenario A and Scenario B
- 11/28/2014 Web Conference to present draft report
- 12/31/2014 Possible interconnection-wide stakeholder meeting to review study report

Questions?

Contact Phil Kleckley

pkleckley@scana.com

Next SCRTP Meeting

- Update on FERC Order 1000
- Review Changes in Transmission Expansion Plans due to NERC TPL review
- SCRTP Email Distribution List will be notified
- Register online

South Carolina Regional Transmission Planning

Stakeholder Meeting

Lake Murray Training Center

Lexington, SC

May 9, 2014