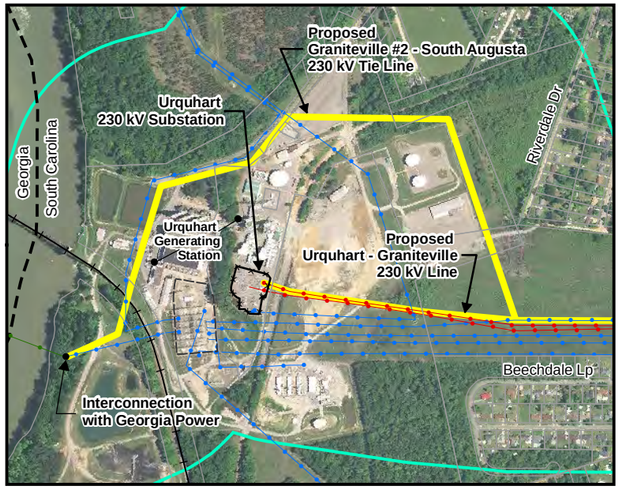
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 1 of 15

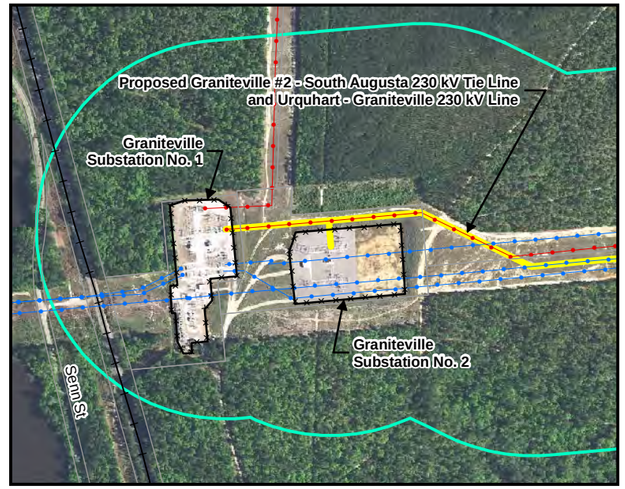
APPENDIX A

REFERENCES AND DATA SOURCES

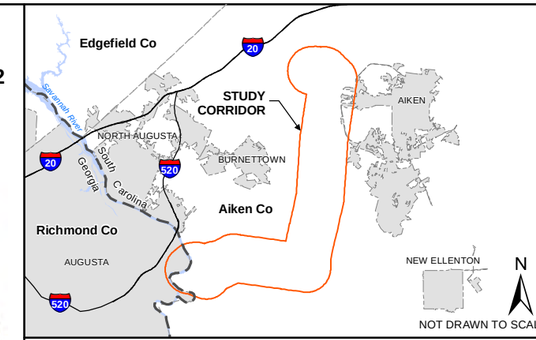
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 2 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor

0 6,000 12,000 Feet

Source: USDA 2015 Aerial Photography

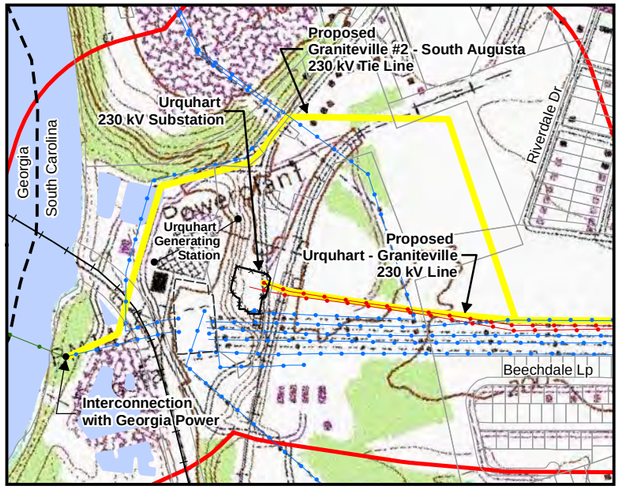
Aerial Photography

Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

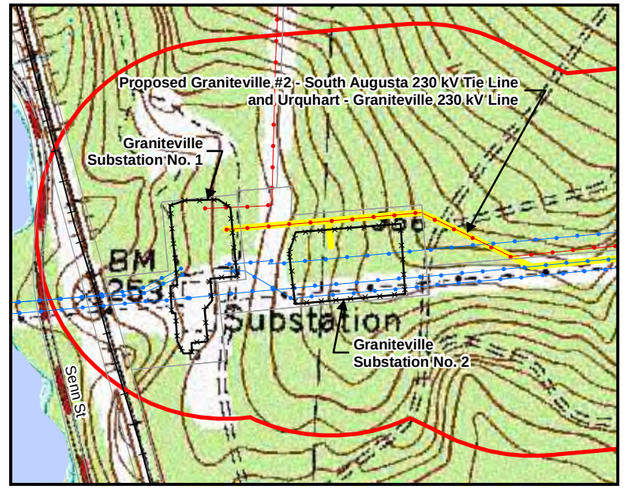
Aiken County, SC and Richmond County, GA

SCE&G
A SCANA COMPANY

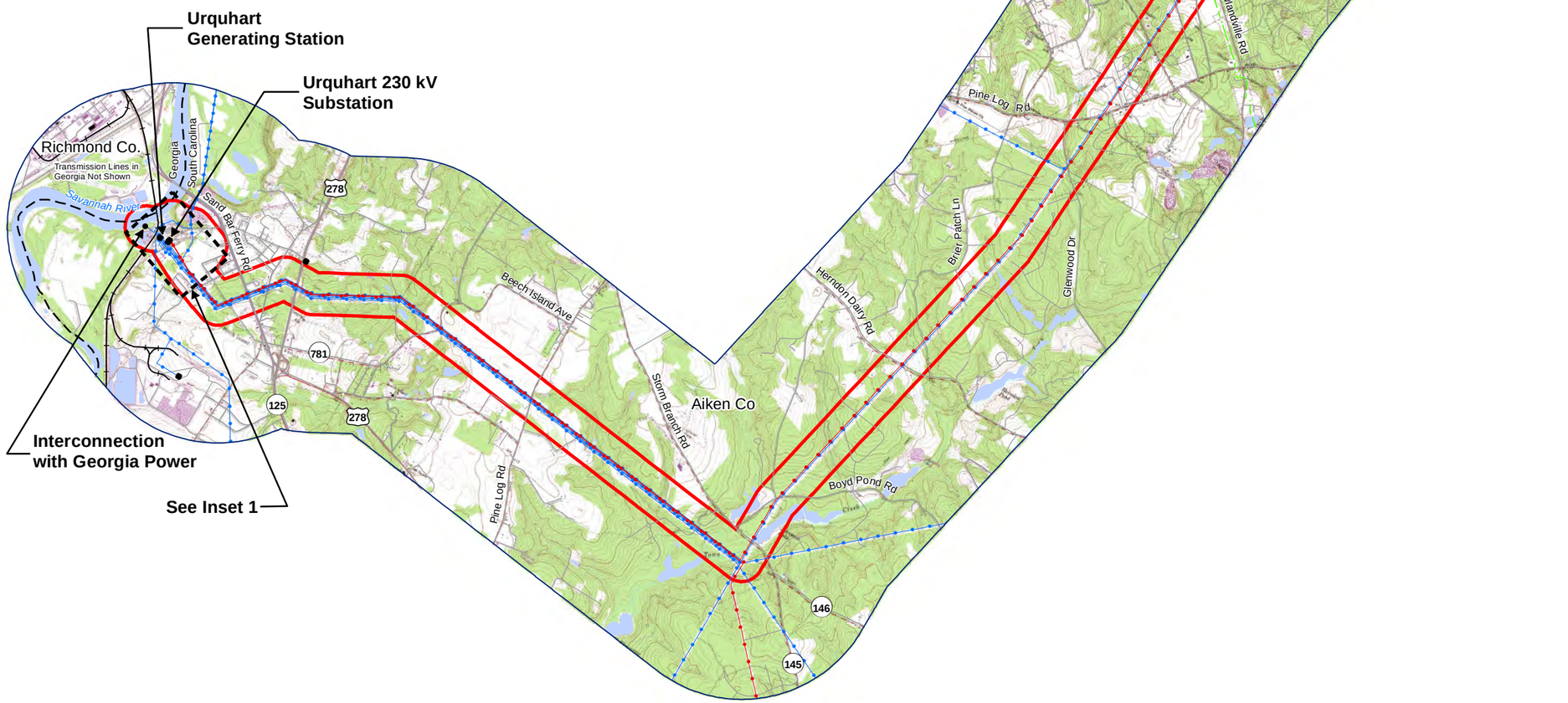
FIGURE 3.1-A

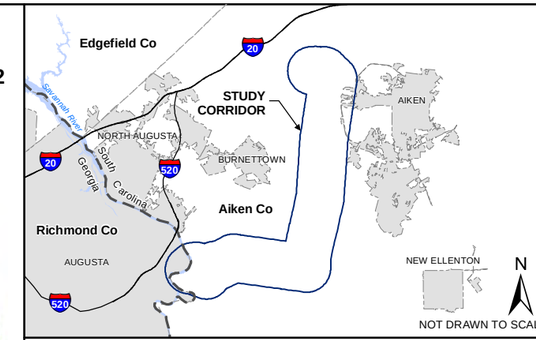


Inset 1



Inset 2





Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor
- Study Corridor

0 6,000 12,000 Feet

Source: USGS 7.5' Quadrangle Maps

USGS Quadrangle Map

Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

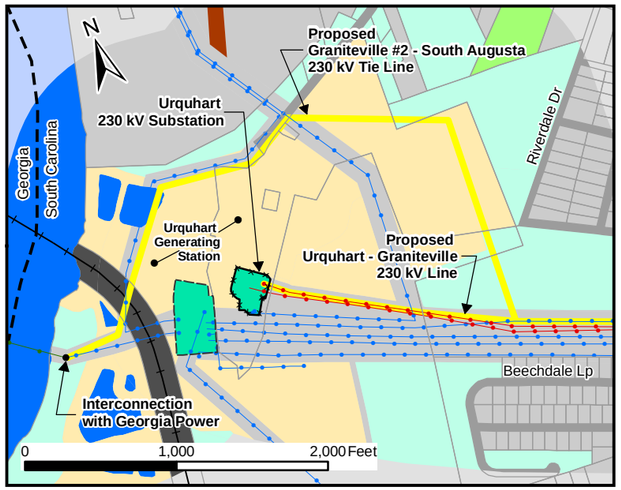
Aiken County, SC and Richmond County, GA

SCE&G
A SCANA COMPANY

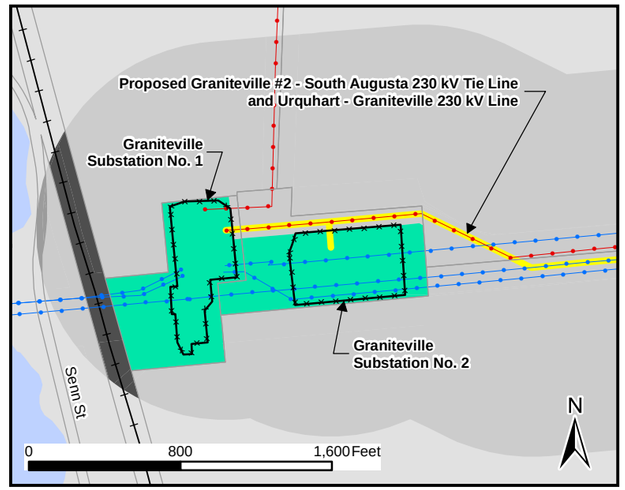
FIGURE 3.1-B

ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 3 of 15

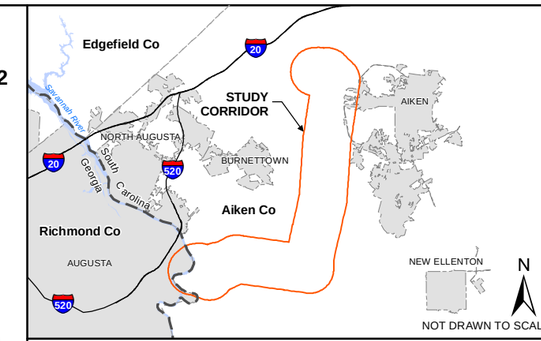
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 4 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Study Corridor
- River/Lake/Pond
- Agricultural Land
- Cemetery
- Communication Tower
- Electric Power Facility
- Electric Power Generation
- Electrical Transmission Right-of-Way - Santee Cooper
- Fire Department
- Gas Pipeline Right-of-Way
- Government
- Place of Worship
- Recreation
- RV Park/Campground
- Railroad Right-of-Way
- Road Right-of-Way
- SCE&G Property
- Sand Quarry
- Transportation, Communications, and Utilities
- Water
- No Identifiable Land Use

0 6,000 12,000 Feet

Source: Aiken County, SC Tax Parcel Information, 2015 Aerial Photography, and Field Reconnaisance

Land Use

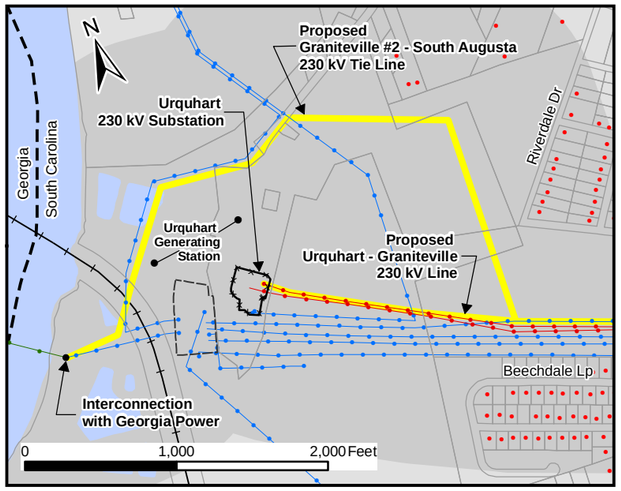
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

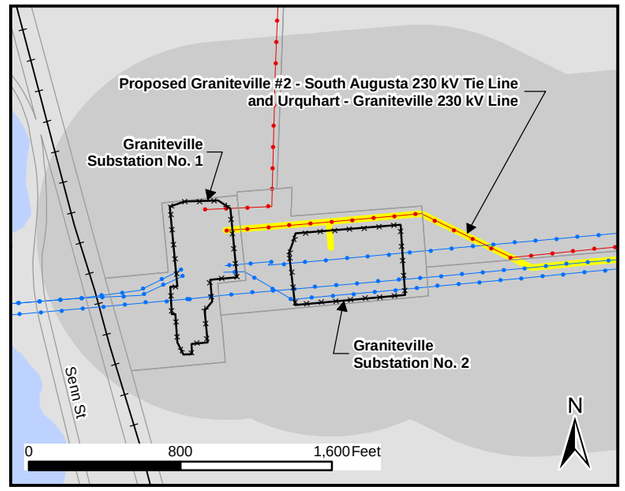
SCE&G
A SCANA COMPANY

FIGURE 5.1-A

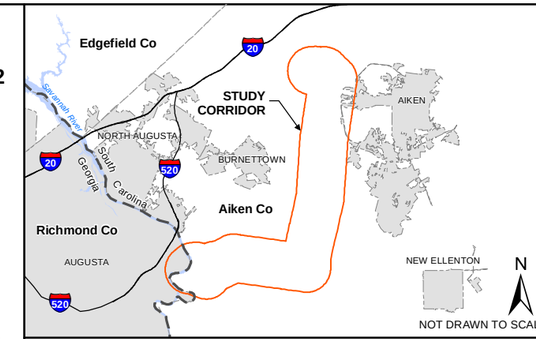
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 5 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor
- Study Corridor
- River/Lake/Pond
- Church
- Commercial
- Government
- Multi-family Residence
- Possible Single Family Residence
- Recreation
- Single Family Residence

0 6,000 12,000 Feet

Source: Field Reconnaissance and 2015 Aerial Photography

Occupied Buildings

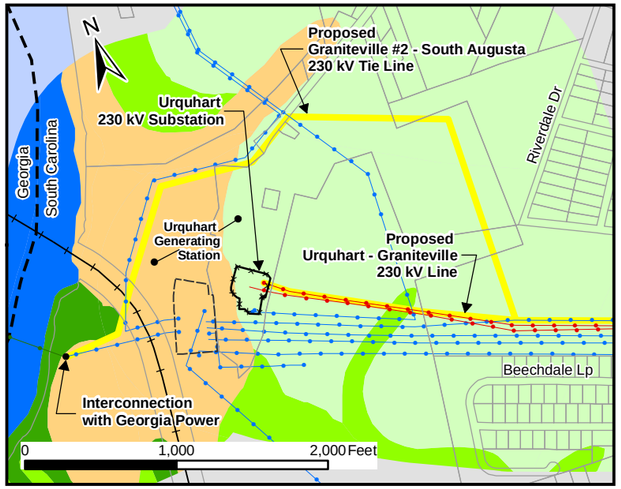
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

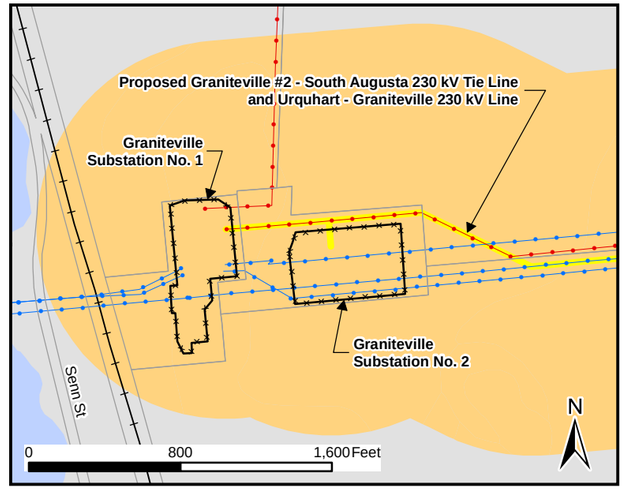
SCE&G
A SCANA COMPANY

FIGURE 5.1-B

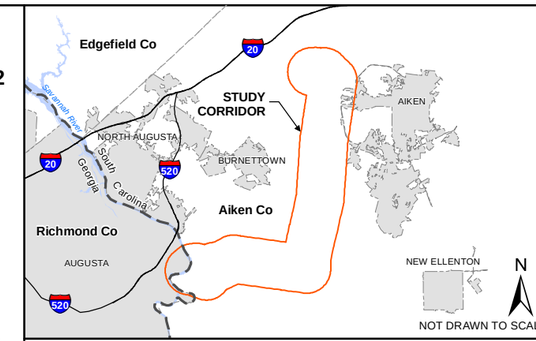
ELECTRONICALLY FILED – 2017 August 22 3:05 PM – SCPSC – Docket # 2017-221-E – Page 6 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Study Corridor
- River/Lake/Pond
- Prime Farmland
- Farmland Of Statewide Importance
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Not Prime Or Important Farmland
- Water

0 6,000 12,000 Feet

Source: United States Department of Agriculture, Natural Resources Conservation Service

Prime Farmland and Soils of Statewide Importance

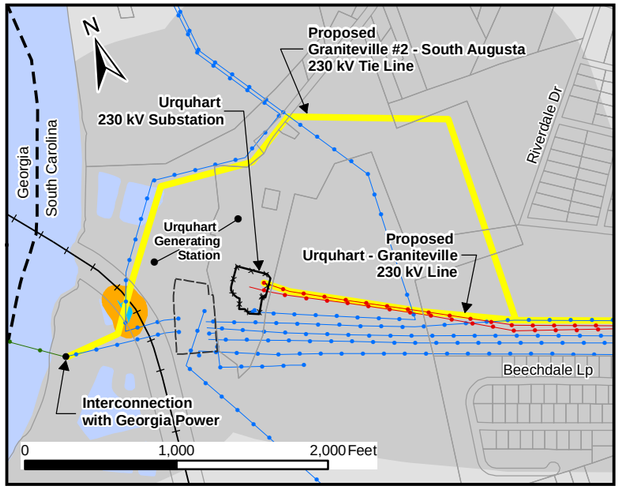
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

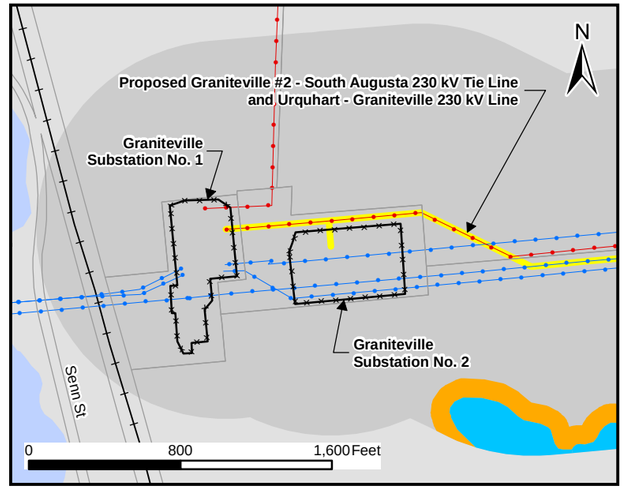
SCE&G
A SCANA COMPANY

FIGURE 5.3

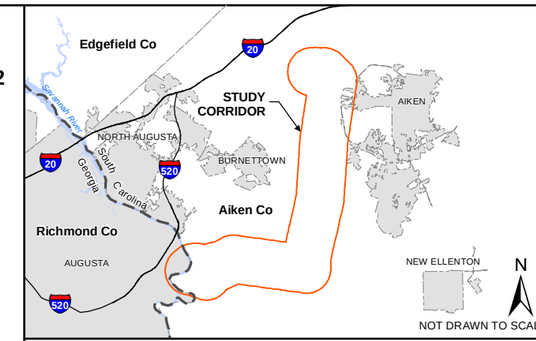
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 7 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor
- Study Corridor
- River/Lake/Pond
- Wetland
- 100' Buffer

0 6,000 12,000 Feet

Source: Palmetto Environmental Consulting, Inc. and U.S. Fish and Wildlife Service (National Wetlands Inventory)

Wetlands

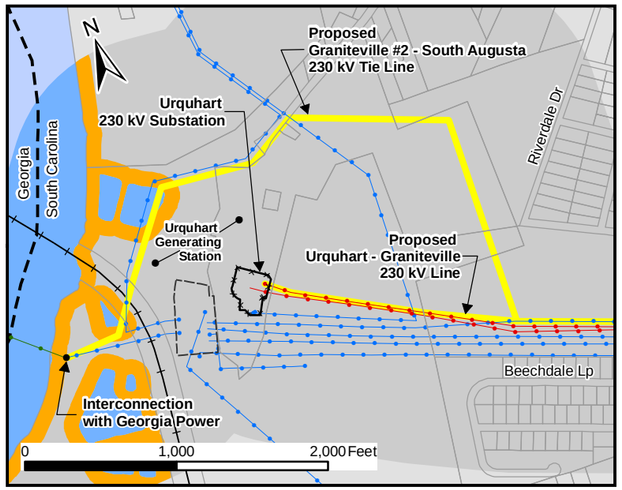
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

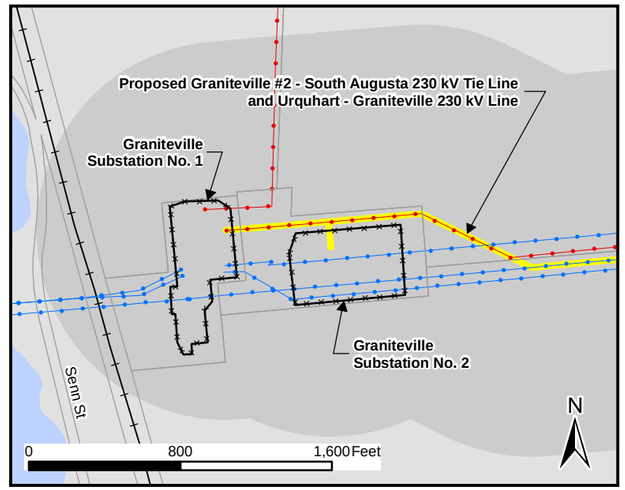
SCE&G
A SCANA COMPANY

FIGURE 5.4-A

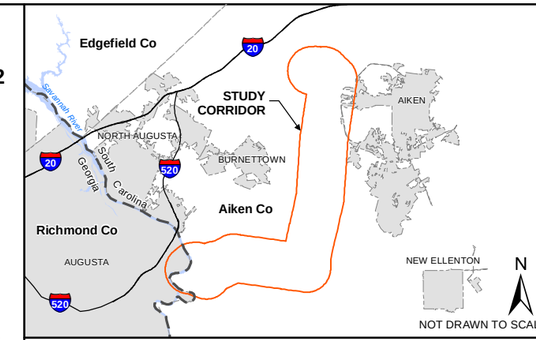
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 8 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor
- Study Corridor
- Water Body (outside route corridor)
- Stream
- River/Lake/Pond
- 100' Buffer

0 6,000 12,000 Feet

Source: USGS Digital Line Graphs, USDA 2015 Aerial Photography, and Palmetto Environmental Consulting, Inc.

Hydrography

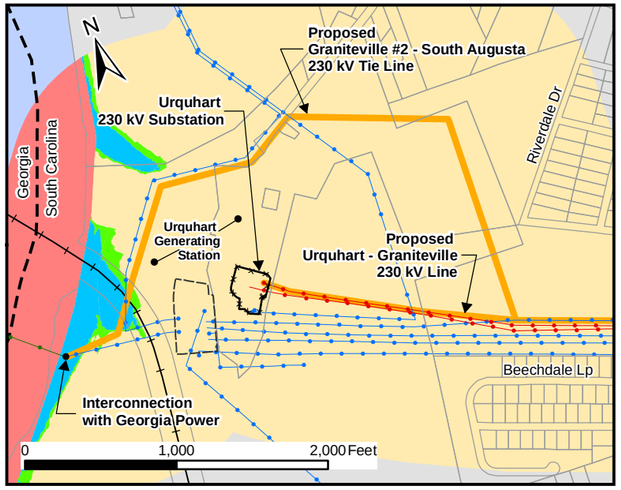
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

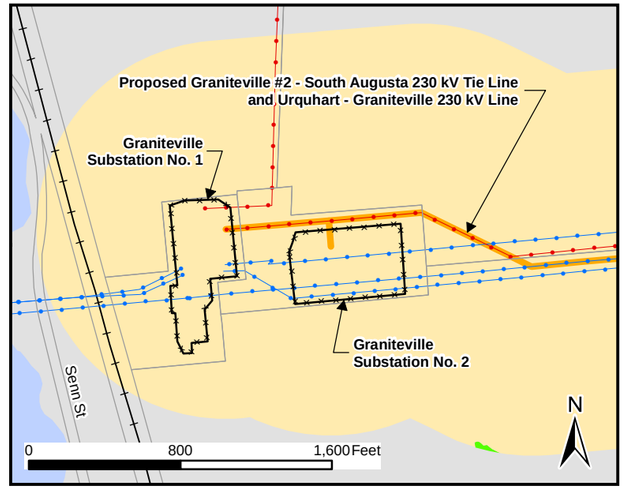
SCE&G
A SCANA COMPANY

FIGURE 5.4-B

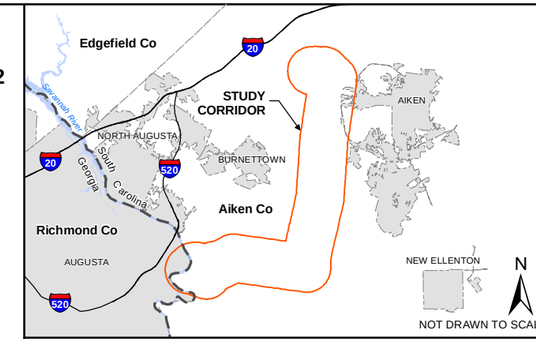
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 9 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Study Corridor
- River/Lake/Pond
- Zone AE - Floodway
- Zone AE - Areas of 100-Year Flood (Base Flood Elevations Determined)
- Zone X - Areas of 500-Year Flood; 100-Year Flood (Less Than 1' Depth)
- Zone X - Areas Determined to be Outside 500-Year Flood Plain

0 6,000 12,000 Feet

Source: Federal Emergency Management Agency

FEMA Flood Zones

Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

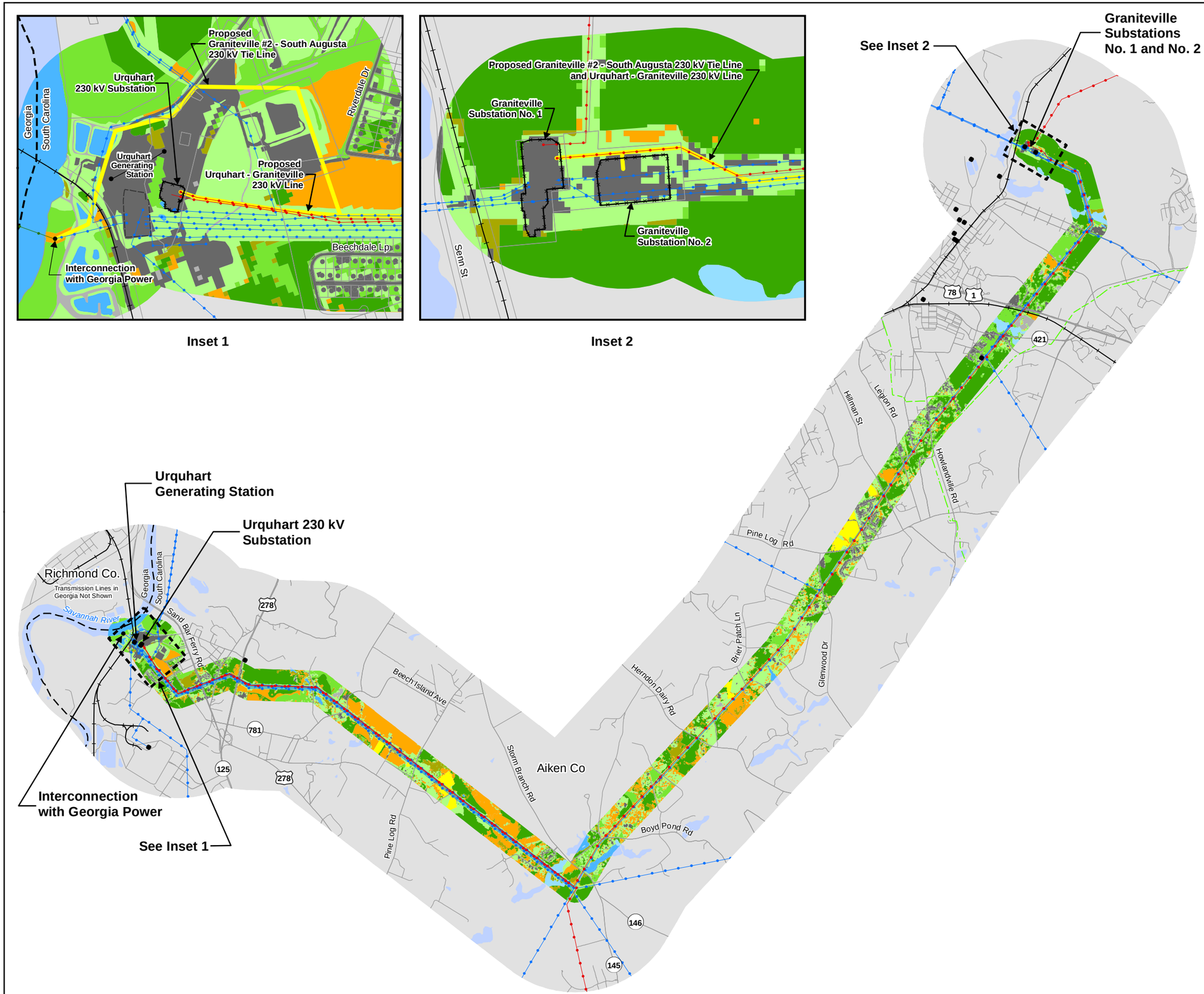
SCE&G
A SCANA COMPANY

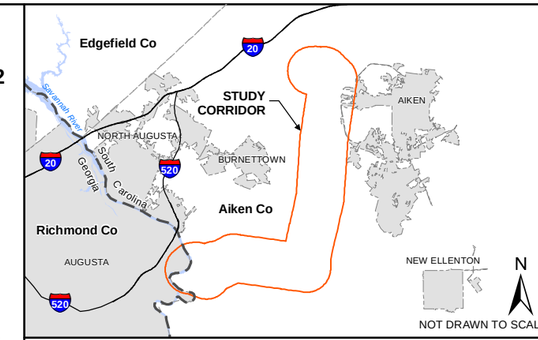
FIGURE 5.5

ELECTRONICALLY FILED – 2017 August 22 3:05 PM – SCPSC – Docket # 2017-221-E – Page 10 of 15

Inset 1

Inset 2





Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Study Corridor
- River/Lake/Pond
- Barren
- Bottomland/Floodplain/Hardwood Forest
- Cropland
- Grass/Pasture
- Mixed Hardwood/Pine Forest
- Pine Forest
- Scrub/Shrub
- Urban/Built-up
- Water
- Wetland

0 6,000 12,000 Feet

Source: 2014 Satellite Image (Landsat), 2015 USDA Aerial Photography, Field Reconnaissance, and Palmetto Environmental Consulting, Inc.

Land Cover

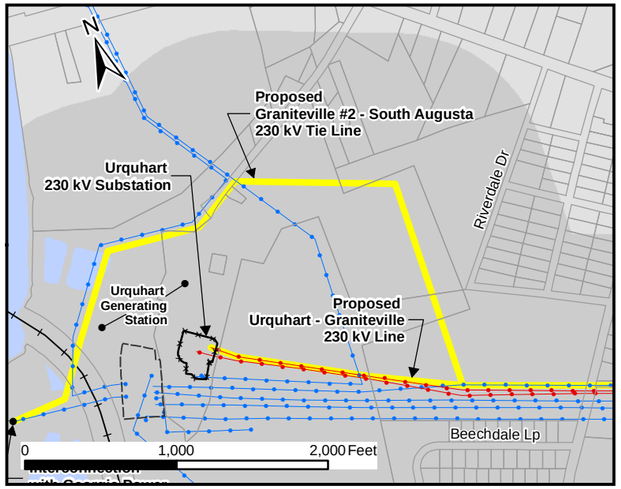
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

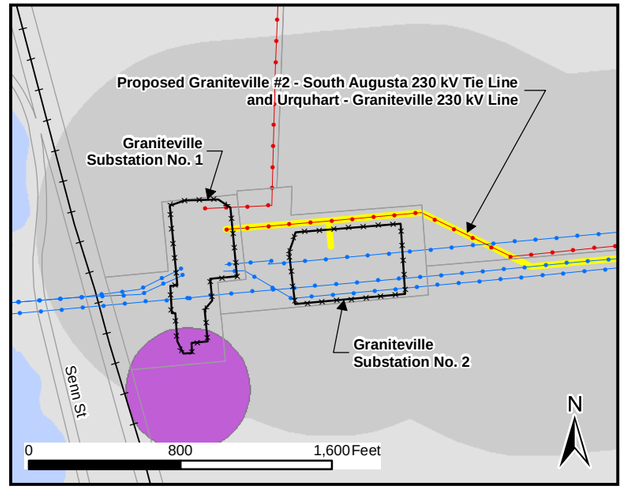
SCE&G
A SCANA COMPANY

FIGURE 5.6

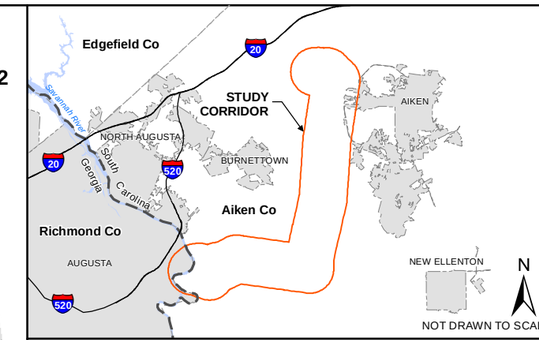
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 11 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor
- Study Corridor
- River/Lake/Pond
- Georgia Plume
- Carolina Larkspur
- Relict Trillium
- Red-cockaded Woodpecker
- Piedmont Water-milfoil
- Southern mixed hardwood forest
- Bog Spicebush
- Hoary Bat
- Red Standing-cypress
- Sweet Pitcher-plant
- Winter Grape-fern
- Xeric sandhill scrub

0 6,000 12,000 Feet

Source: South Carolina Department of Natural Resources (Heritage Trust Program) and Palmetto Environmental Consulting, Inc.

Natural Resources

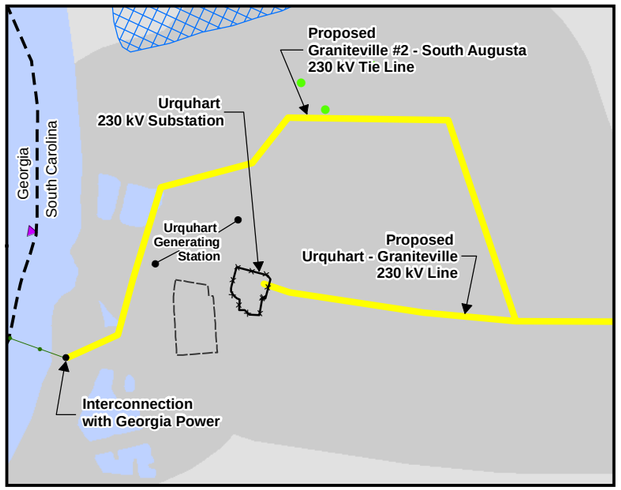
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

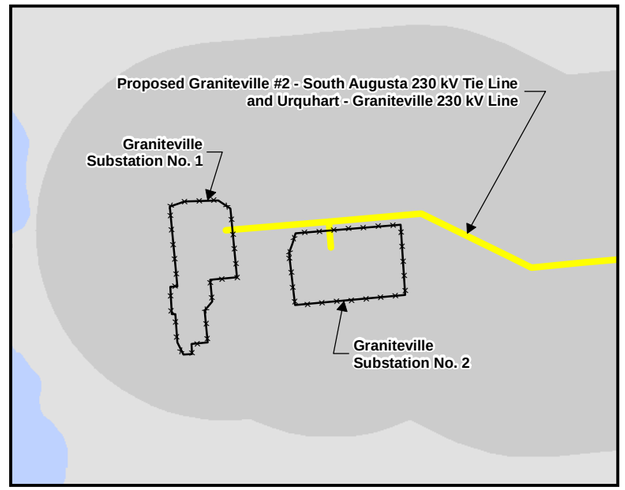
SCE&G
A SCANA COMPANY

FIGURE 5.8

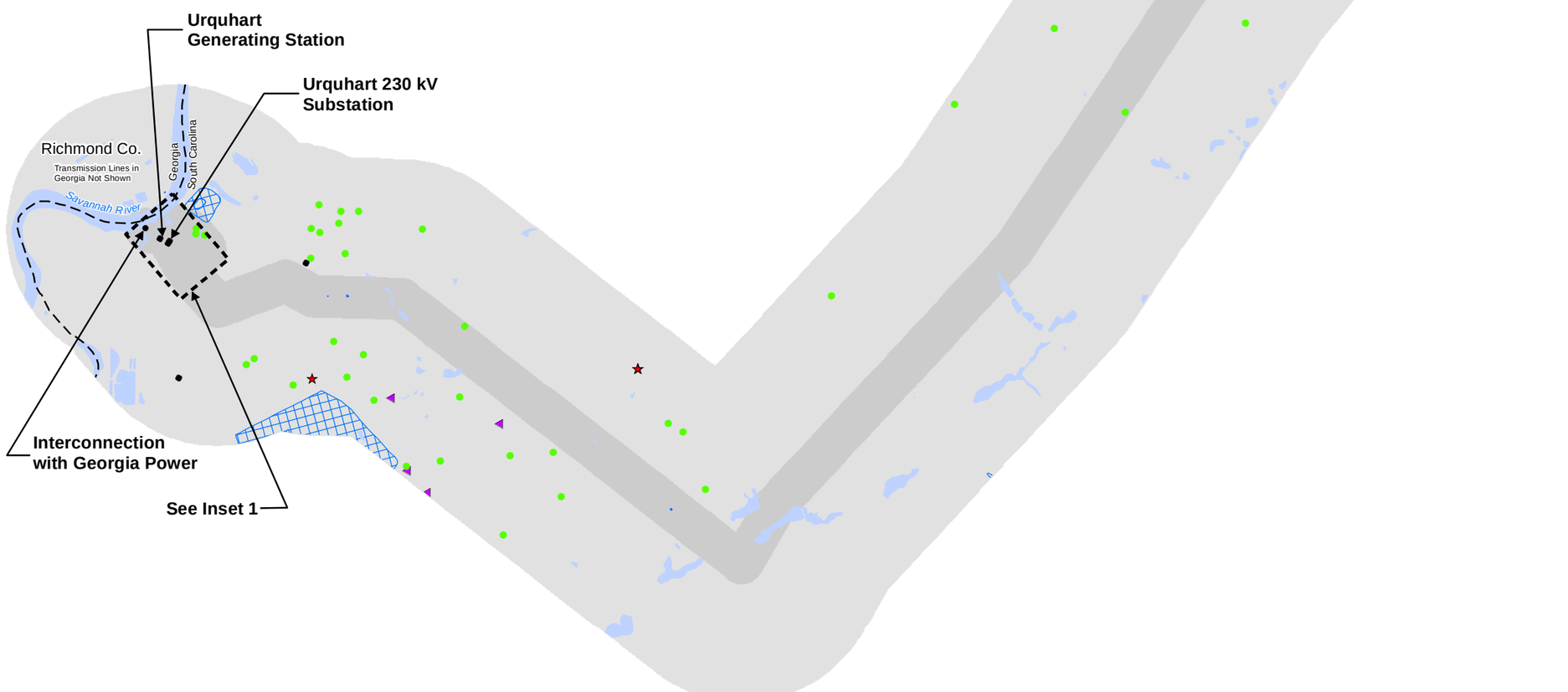
ELECTRONICALLY FILED – 2017 August 22 3:05 PM – SCPSC – Docket # 2017-221-E – Page 12 of 15

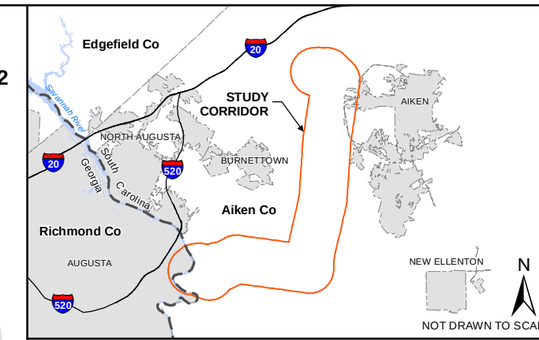


Inset 1



Inset 2





Legend

- SCE&G Substation
- State Line
- Route Corridor
- Study Corridor
- River/Lake/Pond
- Historic Site - Listed on the NRHP*
- Historic Site - Eligible for the NRHP
- Historic Site - Not Eligible for the NRHP
- Archaeological Site
- Historic District - Listed on the NRHP
- Historic District - Eligible for the NRHP
- Historic District - Not Eligible for the NRHP

**National Register of Historic Places*

0 6,000 12,000 Feet

Source: Brockington and Associates, Inc. (South Carolina Department of Archives and History, South Carolina Institute of Archaeology and Anthropology, and Georgia Natural, Archaeological, and Historic Resources GIS), and Field Reconnaissance (Brockington and Associates, Inc.)

Cultural Resources

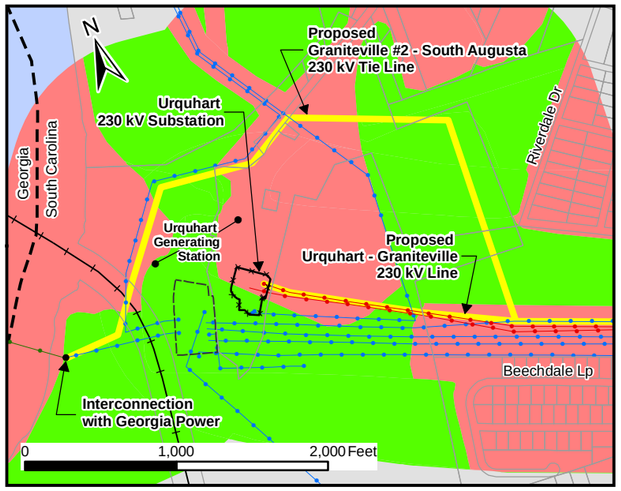
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

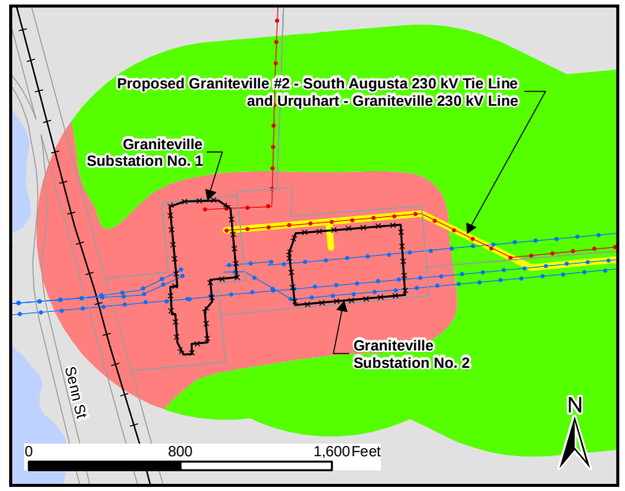
SCE&G
A SCANA COMPANY

FIGURE 5.9

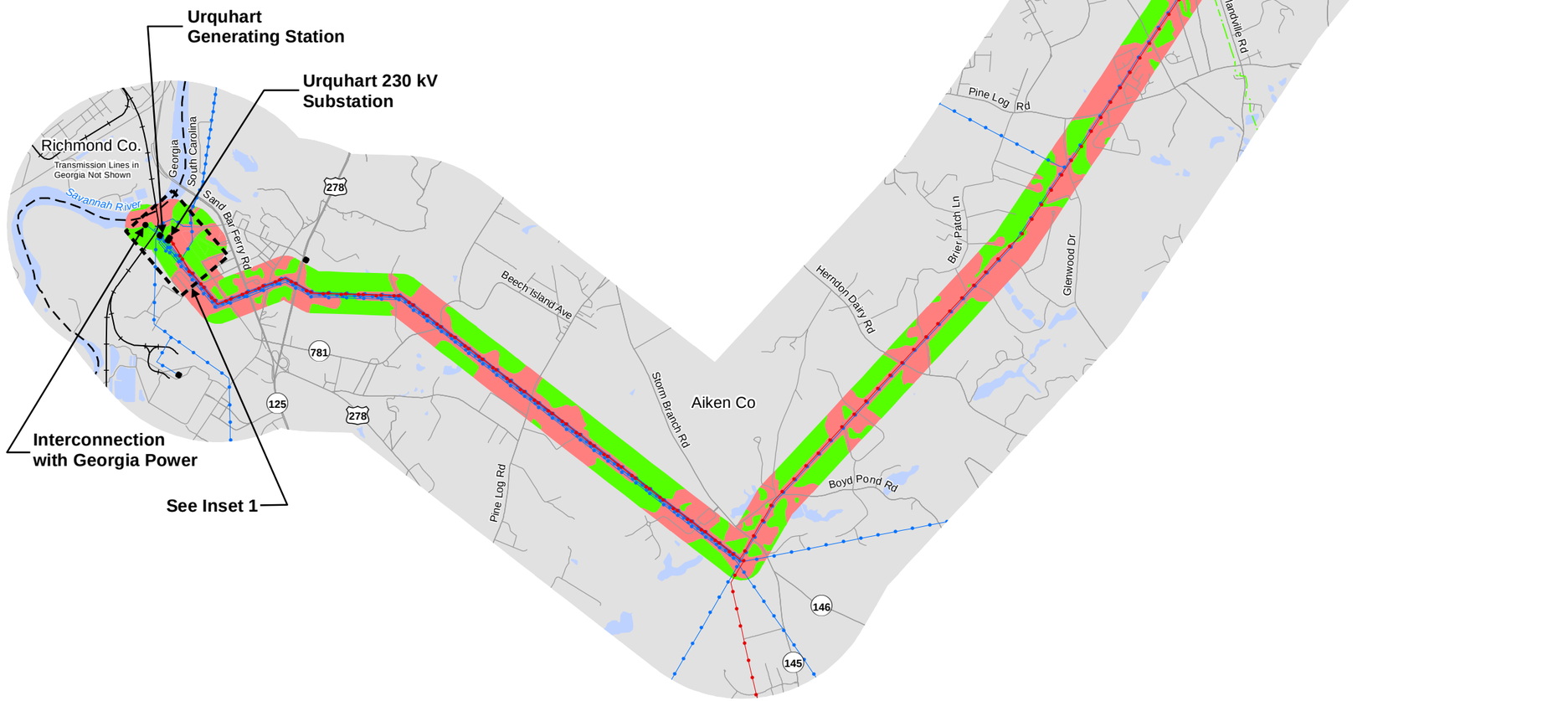
ELECTRONICALLY FILED - 2017 August 22 3:05 PM - SCPSC - Docket # 2017-221-E - Page 13 of 15

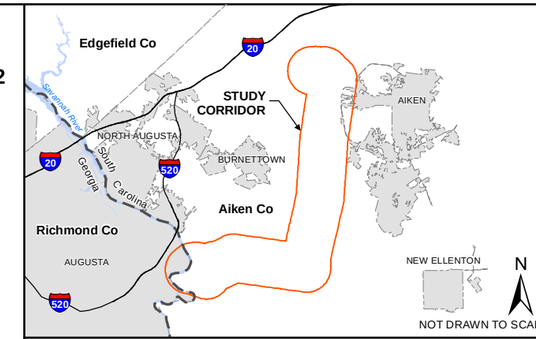


Inset 1



Inset 2





Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Study Corridor
- River/Lake/Pond
- Visible from a Public Road
- Not Visible from a Public Road

0 6,000 12,000 Feet

Source: Field Reconnaissance

Visibility from Roads

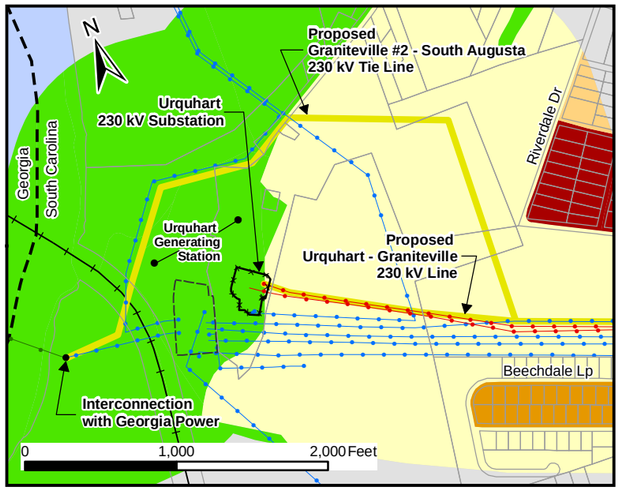
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

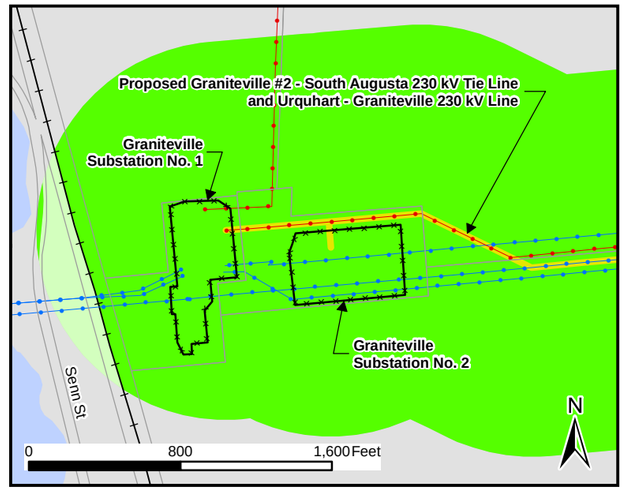
SCE&G
A SCANA COMPANY

FIGURE 5.10

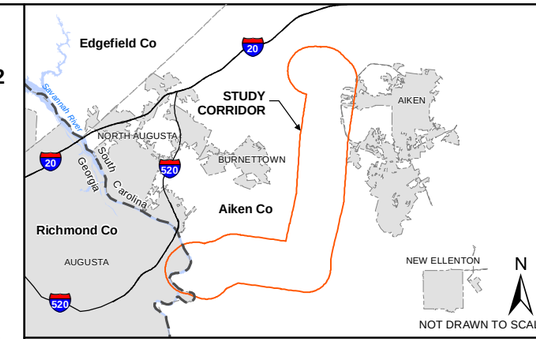
ELECTRONICALLY FILED – 2017 August 22 3:05 PM – SCPSC – Docket # 2017-221-E – Page 14 of 15



Inset 1



Inset 2



Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Study Corridor
- River/Lake/Pond
- < 0.25 Acres per Person
- 0.25 - 0.50 Acres per Person
- 0.51 - 1.0 Acres per Person
- 1.1 - 2.0 Acres per Person
- 2.1 - 4.0 Acres per Person
- 4.1 - 10.0 Acres per Person
- > 10 Acres per Person

0 6,000 12,000 Feet

Source: 2010 US Census Bureau

Population Density

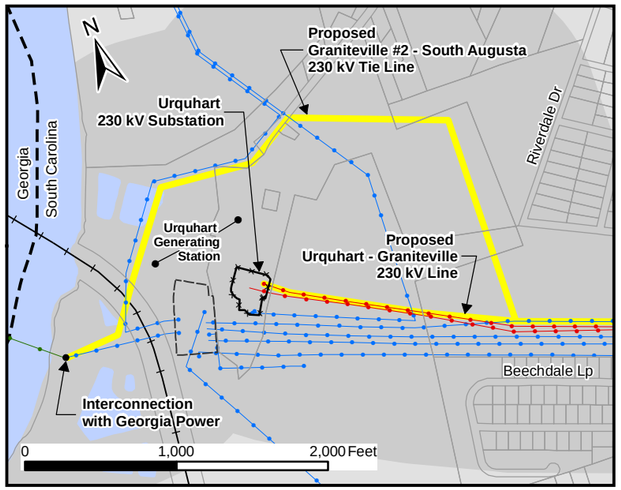
Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

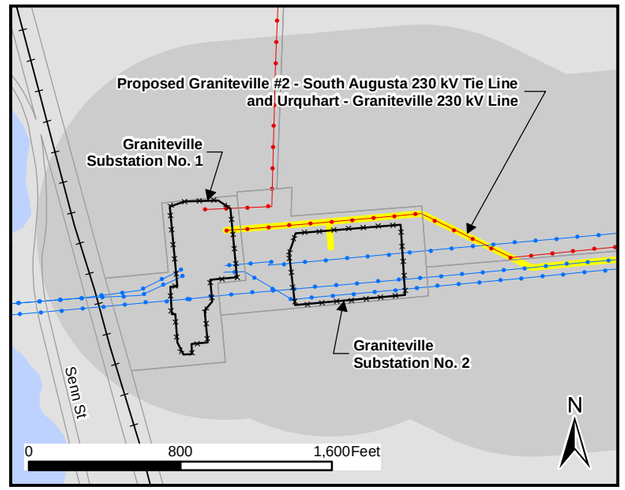
SCE&G
A SCANA COMPANY

FIGURE 5.11

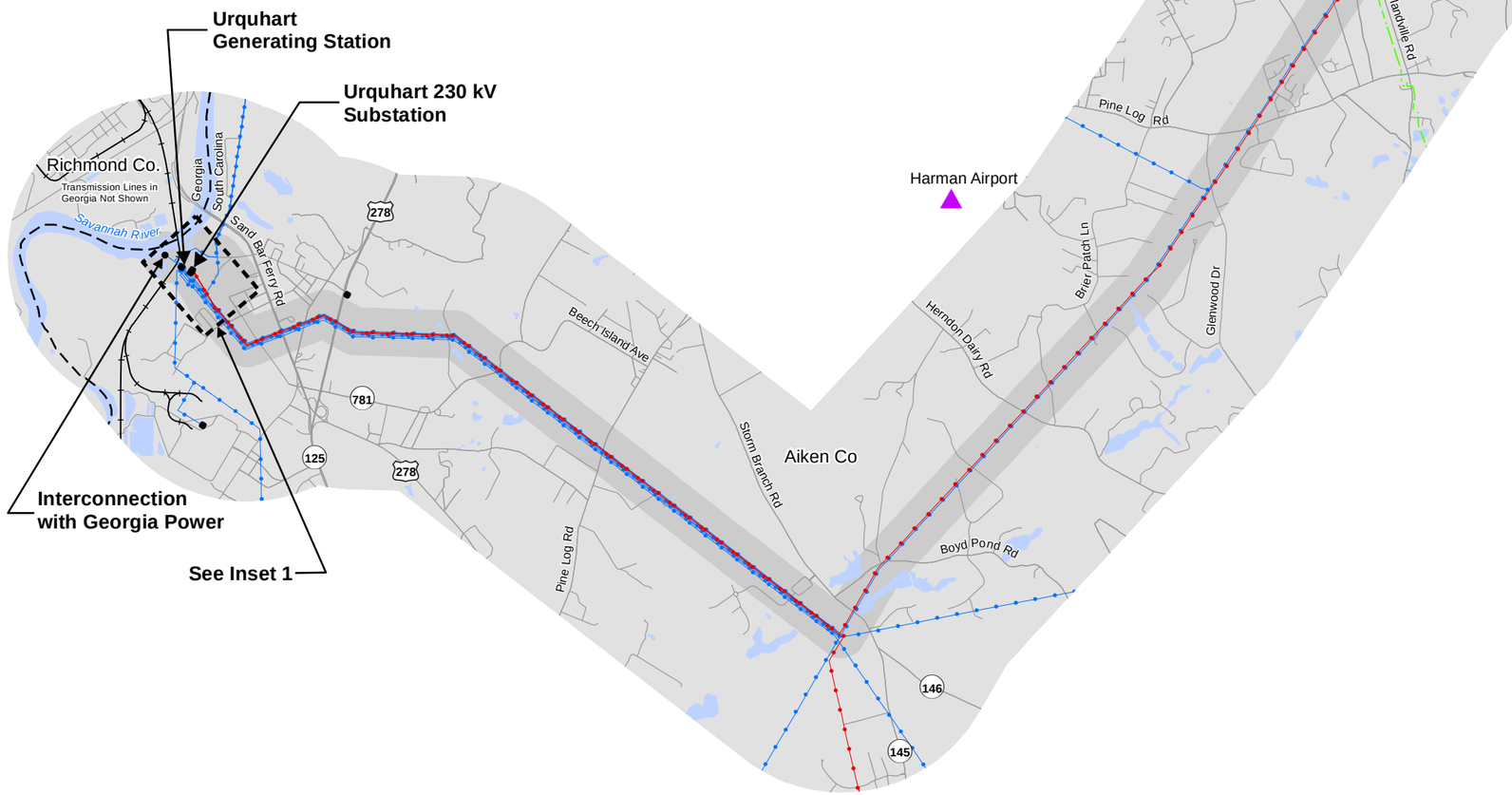
ELECTRONICALLY FILED – 2017 August 22 3:05 PM – SCPSC – Docket # 2017-221-E – Page 15 of 15

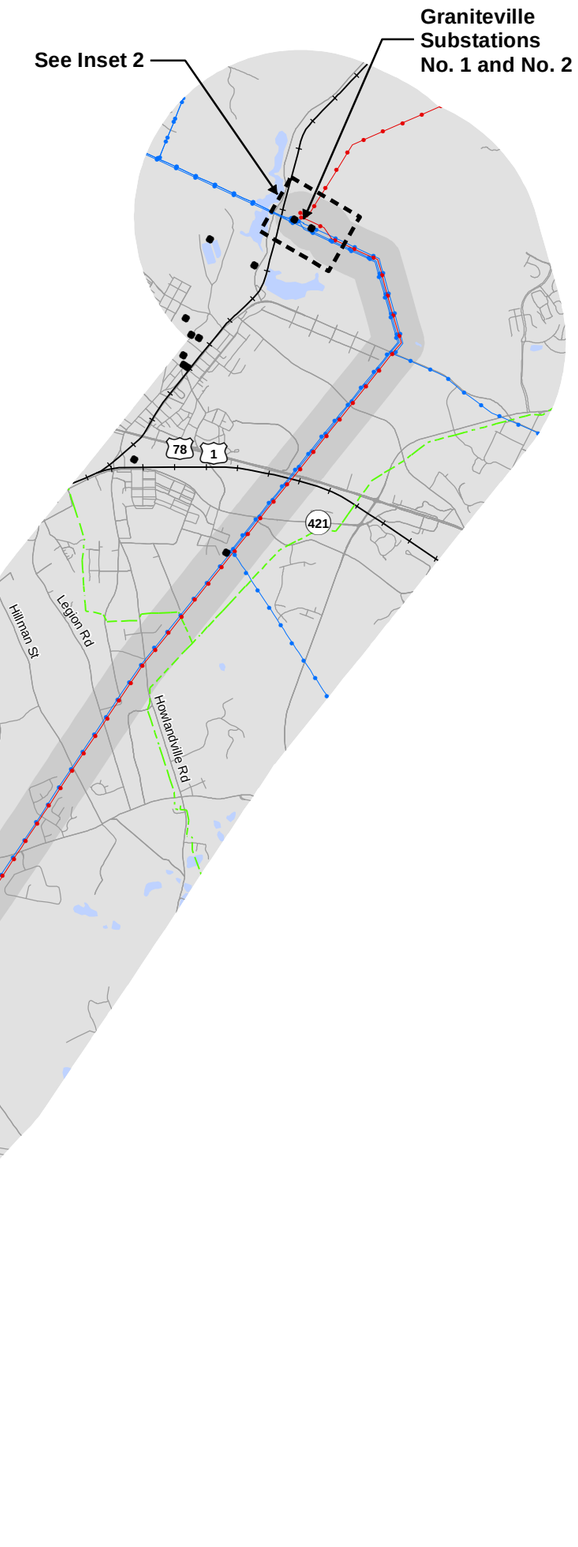


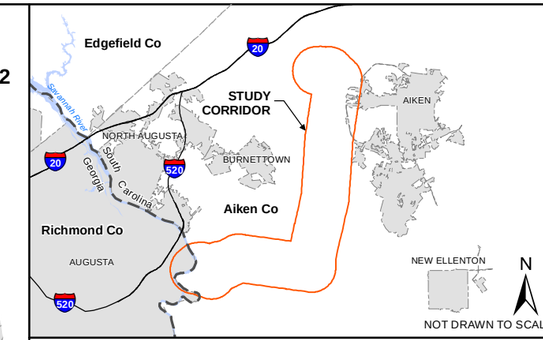
Inset 1



Inset 2







Legend

- SCE&G Substation
- Road
- Railroad
- State Line
- SCE&G 115 kV Transmission Line
- SCE&G 230 kV Transmission Line
- Santee Cooper Transmission Line
- Route Corridor
- Study Corridor
- River/Lake/Pond
- Airport

0 6,000 12,000 Feet

Source: Federal Aviation Administration (FAA) and National Transportation Atlas Database

Aviation Facilities

Graniteville #2 - South Augusta 230 kV Tie Line
and
Urquhart - Graniteville 230 kV Line

Aiken County, SC and Richmond County, GA

SCE&G
A SCANA COMPANY

FIGURE 5.12