

EXHIBIT A

PROJECT DESCRIPTION

2.0 RESERVOIR

The Project is located on the Savannah River at river mile 209.1, near the confluence of Stevens Creek, which enters the river just upstream of the dam on the left riverbank. The 7,122 square-mile watershed area¹ is drained by the Savannah River and Stevens Creek above the Stevens Creek Dam.

The Project's impoundment extends approximately 12 miles upstream from the Stevens Creek Dam to a point about 1 mile downstream of the U.S. Army Corps of Engineers' Thurmond Dam. The surface area of the impoundment is about 2,400 acres at full pond at EL 187.5 feet. Gross storage capacity of the reservoir is about 23,600 acre-feet, and usable storage at full pool is about 7,800 acre-feet. The reservoir normally fluctuates between elevation 183.0 feet and 187.5 feet, using available storage capacity to re-regulate flow releases from Thurmond Dam.

¹ Drainage area, as calculated at the Stevens Creek Dam.

3.0 PROJECT GENERATING EQUIPMENT

The powerhouse contains eight turbine-generator units, with a total maximum rated capacity of 17,280 kW. This includes five I.P. Morris Francis vertical shaft turbines, each rated at 3,125 horsepower (hp) and 75 revolutions per minute (rpm); three S. Morgan Smith Francis vertical shaft turbines, each rated at 3,125 hp and 75 rpm; and eight synchronous Westinghouse generators, each rated at 2,700 kilovolt-amperes (kVA), 2,300 volts (V), 60 cycle, 3 phase and 75 rpm. There are four Rapid Power Technologies excitation transformers rated 125 kVA, 2,400 V/121V, each feeding two Rapid Power Technologies static DC Excitation Power Supplies with rated output of 250 ADC, 150 VDC to supply excitation power to each generator field. Governors on Units 1, 2, 4, 5, 6, and 7 are digital governors by American Governor Company, and governors on Units 3 and 8 are Woodward 700H digital governors.

4.0 PROJECT TRANSMISSION EQUIPMENT

Energy generated is conducted from the powerhouse step-up transformers through the main leads exiting the powerhouse via 46 kilovolt overhead lines to SF6 breakers approximately 100 feet west of the powerhouse and then another 100 feet west to the Project switchyard interconnecting the Project to the local grid via the Georgia Power substation. There are no transmission lines included in the Project boundary. Single-line drawings for the Project are included in Appendix A-2.

5.0 APPURTENANT EQUIPMENT

The powerhouse is equipped with both 10-ton and 50-ton Demag overhead cranes for equipment maintenance. Trash racks, with 3.75-inch-clear spacing, and rakes are installed to clear debris from the intake area and headgates.

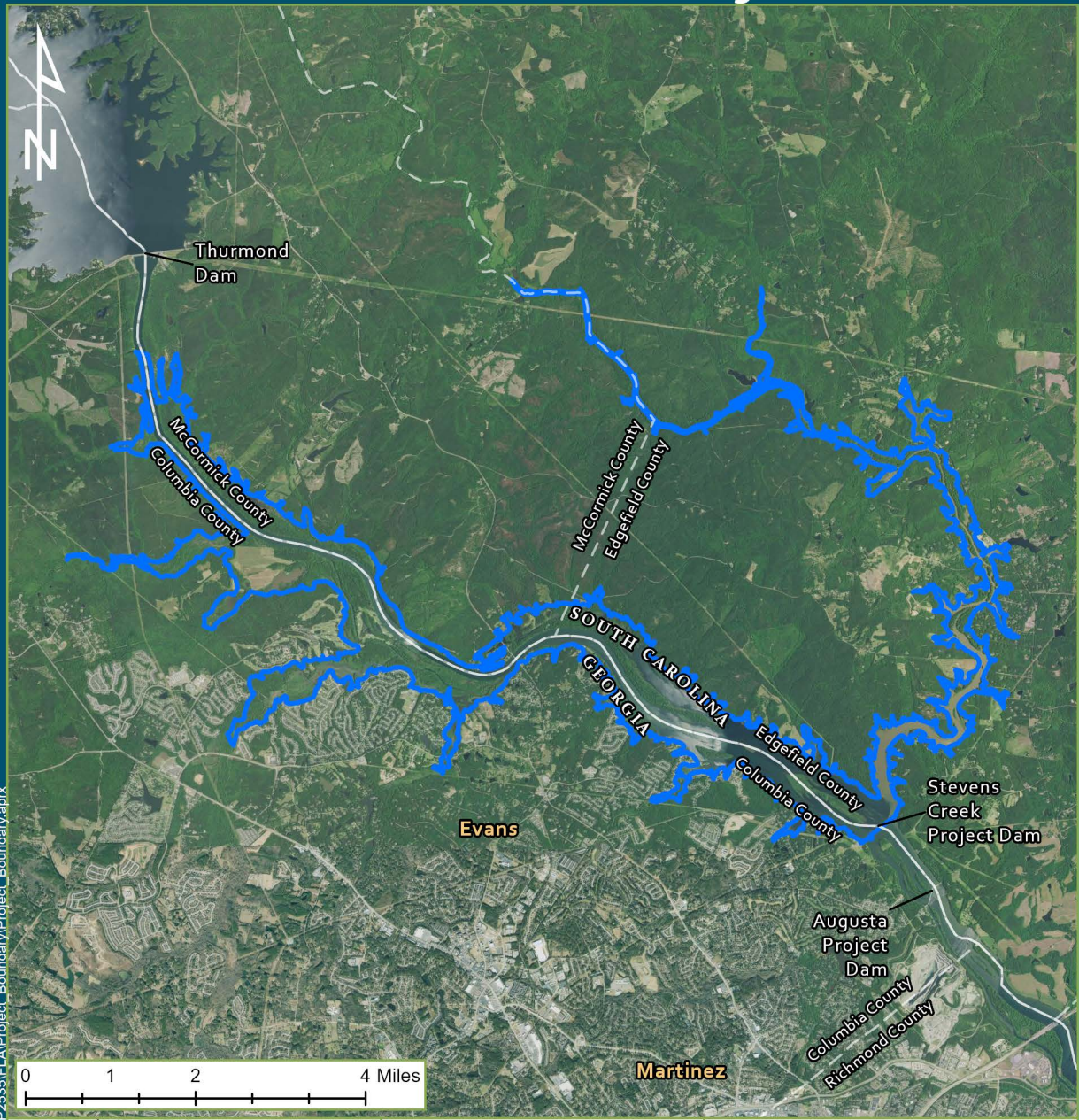
6.0 PROJECT FEDERAL LANDS

There are 104.4 acres of federal lands administered by the U.S. Forest Service, which are part of the Stevens Creek Hydroelectric Project. Of that acreage, 104.19 acres have a pre-existing easement in which Dominion Energy South Carolina, Inc. owns flowage easements, which predate the acquisition of the National Forest Lands by the United States. Appendix A-3 contains a tabulation of federal lands within the Project boundary by tract number, along with a designation as to which Exhibit G map sheet each tract is shown on.

APPENDIX A-1

PROJECT LOCATION MAP

Project Location



Legend
 Project Boundary

Dominion Energy South Carolina, Inc.
 Augusta, GA

Drawn By: JJJ	Date Drawn: 10-23-2023	Checked By: KPN	Date Checked: 10-23-2023
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Path: Q:\Client_Data\ERCC_P\Projects\P26535\F1A\Project_Boundary\Project_Boundary.aprx

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APPENDIX A-2

SINGLE LINE DIAGRAM

This material contains Critical Energy Infrastructure Information (CEII).
Members of the public may obtain nonpublic or privileged information by submitting a
Freedom of Information Act Request.

APPENDIX A-3

FEDERAL LANDS

EXHIBIT A-3

STEVENS CREEK HYDROELECTRIC PROJECT P-2535

FEDERAL ACREAGE WITHIN THE PROJECT BOUNDARY

Exhibit G Sheet No.	USFS Tract No.	Federal Acreage with Pre-Existing Easement	Federal Acreage without Pre- Existing Easement
G-2	L-238	28.65	0.21
G-3	L-238	7.20	
G-3	L-320	5.52	
G-3	L-108	0.58	
G-3	L-107	0.90	
G-3	L-106	0.05	
G-3	L-105	0.60	
G-3	L-238a	1.15	
G-4	L-238	59.40	
G-5	L-263c	0.14	
Total		104.19	0.21