

July 30, 2019



U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Serial No. 19-300
NRA/MAE R4
Docket No. 50-395
License No. NPF-12

SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION (VCSNS) UNIT 1 LICENSE
AMENDMENT REQUEST TO REVISE THE COMPANY NAME

In a letter dated April 15, 2019 (Serial No. 19-168) South Carolina Electric & Gas Company (SCE&G) notified the NRC of a name change. Specifically with respect to this amendment request, the letter provided notification that SCE&G would be changing its name to Dominion Energy South Carolina, Inc. (DESC) and that SCE&G would be requesting a license amendment to reflect this name change.

In accordance with the provisions of 10 CFR 50.90, SCE&G requests an amendment to Facility Operating License NPF-12 for Virgil C. Summer Nuclear Station (VCSNS) Unit 1 to reflect the change to SCE&G's name. An evaluation of the requested amendment is provided in Attachment 1. Attachment 2 provides a mark-up of the license pages showing the changes.

The proposed amendment does not involve a Significant Hazards Consideration under the standards set forth in 10 CFR 50.92. The proposed changes have been reviewed and approved by the VCSNS Plant Safety Review Committee.

In accordance with 10 CFR 50.91(b), a copy of this license amendment request is being provided to the State of South Carolina.

*ADD
NRR*

Should you have any questions in regard to this submittal, please contact Michael Whitlock at (804) 273-3123.

Sincerely,

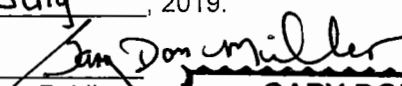


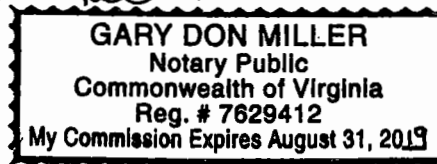
Mark D. Sartain
Vice President – Nuclear Engineering & Fleet Support
Dominion Energy South Carolina, Inc.

COMMONWEALTH OF VIRGINIA
COUNTY OF HENRICO

The foregoing document was acknowledged before me, in and for the County and Commonwealth aforesaid, today by Mark D. Sartain, who is Vice President – Nuclear Engineering & Fleet Support of Dominion Energy South Carolina, Inc. He has affirmed before me that he is duly authorized to execute and file the foregoing document on behalf of that company, and that the statements in the document are true to the best of his knowledge and belief.

Acknowledged before me this 30th day of July, 2019.

My Commission Expires: August 31, 2019 
Notary Public



Attachments:

1. Evaluation of Proposed License Amendment
2. Marked-Up VCSNS Unit 1 Operating License Pages

Commitments made in this letter: None

cc: U. S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Ave, NE
Suite 1200
Atlanta, GA 30303-1257

Mr. Shawn A. Williams
NRC Project Manager
U.S. Nuclear Regulatory Commission, Mail Stop 08 B1A
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

NRC Senior Resident Inspector
Virgil C. Summer Nuclear Station

Ms. Anuradha Nair-Gimmi
Bureau of Environmental Health Services
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

Mr. G. J. Lindamood
Santee Cooper - Nuclear Coordinator
1 Riverwood Drive
Moncks Corner, SC 29461

ATTACHMENT 1

EVALUATION OF PROPOSED LICENSE AMENDMENT

**SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION (VCSNS) UNIT 1**

EVALUATION OF PROPOSED LICENSE AMENDMENT

1.0 Summary Description

In accordance with the provisions of 10 CFR 50.90, South Carolina Electric & Gas Company (SCE&G) is submitting a license amendment request to amend Facility Operating License NPF-12 for Virgil C. Summer Nuclear Station (VCSNS) Unit 1. The amendment would revise the license to change the name of "South Carolina Electric & Gas Company" to "Dominion Energy South Carolina, Inc."

2.0 Description of the Proposed Change

The proposed license amendments would replace "South Carolina Electric & Gas Company" with "Dominion Energy South Carolina, Inc." where appropriate in the license.

References to South Carolina Electric & Gas Company or to SCE&G in the Facility Operating License for V.C. Summer are marked with an asterisk to indicate that on April 29, 2019 the name "South Carolina Electric & Gas Company" was changed to "Dominion Energy South Carolina, Inc." Other references to South Carolina Electric & Gas Company or SCE&G contained in the Renewed Facility Operating License, including Attachment 1 to the Renewed Operating License No. NPF-12, Technical Specifications Section 5, "Design Features", the Environmental Protection Plan in Appendix B (VCSNS Unit 1), and Appendix C, "Additional Conditions Renewed Operating License No. NPF-12" have been changed to reflect the new name "Dominion Energy South Carolina, Inc." or "DESC."

A mark-up of the proposed changes to the VCSNS Unit 1 license are provided in Attachment 2.

3.0 Background

On January 25, 2018 SCE&G submitted a letter requesting transfer of control of Operating License No. NPF-12 for the Virgil C. Summer Nuclear Station which was owned by South Carolina Electric & Gas Company (SCE&G), a subsidiary of SCANA Corporation. In a letter dated August 30, 2018 the Nuclear Regulatory Commission (NRC) approved the proposed indirect transfer of control of Renewed Facility Operating License and issued an Order to VCSNS Unit 1 and a Safety Evaluation¹. On January 1, 2019 Dominion Energy, Inc. purchased SCANA Corporation. Subsequently, on April 26, 2019 Dominion Energy filed with the State of South Carolina to change the name "South Carolina Electric & Gas Company" to "Dominion Energy South Carolina, Inc." effective April 29, 2019.

¹ On September 6, 2018, the South Carolina Electric and Gas Company (SCE&G) informed the NRC of an error in the Safety Evaluation and Orders. On September 24, 2018 the NRC issued Virgil C. Summer Nuclear Station - Correction to the Safety Evaluation and the Orders Approving Indirect Transfer of Licenses.

This is a name change only. The corporate existence of SCE&G continues uninterrupted and all of their legal characteristics remain the same. The name change does not involve any change to the ownership, management (including officers and directors), organization, operation, obligations, rights or liabilities of the companies; nor are there any changes in the function of this company, or the way it does business. Therefore, the name change does not constitute any transfer, either direct or indirect through a transfer of control, of the license that would require NRC consent under 10 C.F.R. 50.80.

The name change does not affect SCE&G's financial qualifications or decommissioning funding assurance, or otherwise impact SCE&G's ability to comply with any of its obligations or responsibilities under the Facility Operating License. The proposed amendments do not alter any technical content of the license or have any effect on the design, function, or operation of plant systems, structures or components or on the current licensing basis of the unit. Based on these considerations, (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendments will not be inimical to the common defense and security or to the health and safety of the public.

4.0 No Significant Hazards Consideration

The proposed license amendments would replace "South Carolina Electric & Gas Company" with "Dominion Energy South Carolina, Inc." where appropriate in the license.

References to South Carolina Electric & Gas Company or to SCE&G in the Facility Operating License are marked with an asterisk to indicate that on April 29, 2019 the name "South Carolina Electric & Gas Company" was changed to "Dominion Energy South Carolina, Inc." Other references to South Carolina Electric & Gas Company or SCE&G contained in the Renewed Facility Operating License, including Attachment 1 to the Renewed Operating License No. NPF-12, Technical Specifications Section 5, Design Features, the Environmental Protection Plan in Appendix B (VCSNS Unit 1), and Appendix C, Additional Conditions Renewed Operating License No. NPF-12 have been changed to reflect the new name "Dominion Energy South Carolina, Inc." or "DESC."

Where appropriate to preserve the historical context of activities in the license that SCE&G requested, completed, or was assigned, the term SCE&G has not changed.

According to 10 CFR 50.92(c), a proposed amendment to an operating license involves no significant hazards consideration if operation of the facility in accordance with the proposed amendment would not:

1. Involve a significant increase in the probability or consequences of an accident previously evaluated; or
2. Create the possibility of a new or different kind of accident from any accident previously evaluated; or

3. Involve a significant reduction in a margin of safety.

In support of this determination, an evaluation of each of the three criteria set forth in 10 CFR 50.92(c) is provided below with respect to the proposed license amendments.

Criterion 1

Does the proposed amendment involve a significant increase in the probability or consequences of an accident previously evaluated?

Response: No.

The proposed amendment is administrative in nature. SCE&G, which has been renamed Dominion Energy South Carolina, Inc., will remain the licensee authorized to operate and possess VCSNS Unit 1, and its functions, powers, resources and management as described in the license will not change. The proposed changes do not adversely affect accident initiators or precursors, and do not alter the design assumptions, conditions, or configuration of the plant or the manner in which the plant is operated and maintained. The ability of structures, systems, and components to perform their intended safety functions is not altered or prevented by the proposed changes, and the assumptions used in determining the radiological consequences of previously evaluated accidents are not affected.

Therefore, the proposed changes do not involve a significant increase in the probability or consequences of an accident previously evaluated.

Criterion 2

Does the proposed amendment create the possibility of a new or different kind of accident from any accident previously evaluated?

Response: No.

The proposed amendment is purely administrative in nature. The functions of the licensee will not change. These changes do not involve any physical alteration of the plant (i.e., no new or different type of equipment will be installed), and installed equipment is not being operated in a new or different manner. Thus, no new failure modes are introduced. Therefore, the proposed changes do not create the possibility of a new or different kind of accident from any accident previously evaluated.

Criterion 3

Does the proposed amendment involve a significant reduction in a margin of safety?

Response: No

The proposed amendment is administrative in nature. SCE&G, which has been renamed Dominion Energy South Carolina, Inc., will remain the licensee authorized to operate and possess the units, and its functions as described in the license will not change. The proposed changes do not alter the manner in which safety limits, limiting safety system settings, or limiting conditions for operation are determined. There are no changes to setpoints at which protective actions are initiated, and the operability requirements for equipment assumed to operate for accident mitigation are not affected. Therefore, the proposed changes do not involve a significant reduction in a margin of safety.

Conclusion

Based upon evaluation of these criteria, SCE&G concludes that the proposed amendment presents no significant hazards under the standards set forth in 10 C.F.R. 50.92(c) and, accordingly, a finding of "no significant hazards consideration" is justified.

5.0 Environmental Consideration

The requested license amendments are administrative in nature and limited to changing the name of a licensee. Accordingly, the amendments meet the categorical exclusion in 10 C.F.R. 51.22(c)(10)(iii). Therefore, pursuant to 10 C.F.R. 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the requested amendments.

6.0 References

None

7.0 Precedence

Dominion Nuclear Connecticut, Inc. Millstone Power Station Units 1, 2, and 3 License Amendment Request to Revise the Company Name dated June 15, 2017 (ML17171A232) (Approved on February 26, 2018, ML18038B200)

ATTACHMENT 2

MARKED-UP VCSNS UNIT 1 LICENSE PAGES

SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION (VCSNS) UNIT 1

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20355

Dominion Energy
South Carolina, Inc.

SOUTH CAROLINA ELECTRIC & GAS COMPANY
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY
DOCKET NO. 50-395
VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1
RENEWED FACILITY OPERATING LICENSE NO. NPF-12

1. The U.S. Nuclear Regulatory Commission (the Commission or the NRC) having previously made the findings set forth in License No. NPF-12 issued August 6, 1982, has now found that:

See Note ²

- A. The application to renew License No. NPF-12 filed by South Carolina Electric & Gas Company acting for itself and South Carolina Public Service Authority (the licensees) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I, and all required notifications to other agencies or bodies have been duly made;
- B. Actions have been identified and have been or will be taken with respect to (1) managing the effects of aging during the period of extended operation on the functionality of structures and components that have been identified to require review under 10 CFR 54.21(a)(1), and (2) time-limited aging analyses that have been identified to require review under 10 CFR 54.21(c), such that there is reasonable assurance that the activities authorized by this renewed license will continue to be conducted in accordance with the current licensing basis, as defined in 10 CFR 54.3, for Virgil C. Summer Nuclear Station (V. C. Summer), Unit 1, and that any changes made to the plant's current licensing basis in order to comply with 10 CFR 54.29(a) are in accord with the Act and the Commission's regulations;
- C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
- D. There is reasonable assurance: (i) that the activities authorized by this renewed operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
- E. ~~South Carolina Electric & Gas Company~~ is technically qualified to engage in the activities authorized by this renewed operating license in accordance with the rules and regulations of the Commission;

Dominion Energy South Carolina, Inc.

Dominion Energy South Carolina, Inc.

¹ ~~South Carolina Electric & Gas Company~~ is authorized to act as agent for the South Carolina Public Service Authority and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

Renewed Facility Operating License No. NPF-12

² On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed it's name to "Dominion Energy South Carolina, Inc." (DESC)

- F. The licensees have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
- G. The issuance of this renewed license will not be inimical to the common defense and security or to the health and safety of the public;
- H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the Commission concludes that the issuance of Renewed Facility Operating License NPF-12, subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 51, of the Commission's regulations and all applicable requirements have been satisfied; and
- I. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this renewed license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70.

2. On the basis of the foregoing findings regarding this facility, Facility Operating License No. NPF-12, issued August 6, 1982, is superseded by Renewed Facility Operating License No. NPF-12, which is hereby issued to the ~~South Carolina Electric & Gas Company~~ and the South Carolina Public Service Authority (the licensees) to read as follows:

A. This renewed license applies to the Virgil C. Summer Nuclear Station, Unit 1, a pressurized water reactor and associated equipment (the facility), owned by the ~~South Carolina Electric & Gas Company~~ and South Carolina Public Service Authority. The facility is located in Fairfield County, South Carolina, and is described in ~~South Carolina Electric & Gas Company's~~ Final Safety Analysis Report, as amended through No. 33, and the Environmental Report, as amended through Amendment No. 5.

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:

- (1) ~~South Carolina Electric & Gas Company (SCE&G)~~ pursuant to Section 103 of the Act and 10 CFR Part 50, to possess, use, and operate the facility at the designated location in Fairfield County, South Carolina, in accordance with the procedures and limitations set forth in this renewed license;
- (2) South Carolina Public Service Authority to possess the facility at the designated location in Fairfield County, South Carolina, in accordance with the procedures and limitations set forth in this renewed license;

DESC

(3) SCE&G, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as amended through Amendment No. 33;

DESC

(4) SCE&G, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed neutron sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;

DESC

(5) SCE&G, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and

DESC

(6) SCE&G, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This renewed license shall be deemed to contain, and is subject to, the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

DESC

(1) Maximum Power Level

SCE&G is authorized to operate the facility at reactor core power levels not in excess of 2900 megawatts thermal in accordance with the conditions specified herein and in Attachment 1 to this renewed license. The preoperational tests, startup tests and other items identified in Attachment 1 to this renewed license shall be completed as specified. Attachment 1 is hereby incorporated into this license.

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 215, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. ~~South Carolina Electric & Gas Company~~ shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

Dominion Energy South Carolina, Inc.

DESC (3) Conduct of Work Activities During Fuel Load and Initial Startup

SCE&G shall review by committee all facility construction, preoperational testing, and system demonstration activities performed concurrently with facility initial fuel loading or with the facility startup test program to assure that the activity will not affect the safe performance of the facility fuel loading or the portion of the facility startup program being performed. The review shall address, as a minimum, system interaction, span of control, staffing, security, and health physics, with respect to the performance of the activity concurrently with the facility fuel loading or the portion of the facility startup program being performed. The committee for the review shall be composed of at least three members, knowledgeable in the above areas, and who meet the qualifications for professional-technical personnel specified by Section 4.4 of ANSI N18.7-1971. At least one of these three shall be a senior member of the Plant Manager's staff.

DESC (4) Initial Test Program

SCE&G shall conduct the post-fuel-loading initial test program set forth in Chapter 14 of the Final Safety Analysis Report, as amended through No. 33, without making any major modifications to this program unless such modifications have been identified and have received prior NRC staff approval. Major modifications are defined as:

the

a. Elimination of any test other than those identified as non-essential in Chapter 14 of SCE&G's Final Safety Analysis Report, as amended through Amendment No. 33,

the

b. Modifications of test objectives, methods or acceptance criteria for any test other than those identified as non-essential in Chapter 14 of SCE&G's Final Safety Analysis Report, as amended through Amendment No. 33,

c. Performance of any test at a power level different from the power level indicated in the described program; and

d. Failure to complete any tests included in the described program (planned or scheduled for power levels up to the authorized power level).

For the performance of startup testing as described in Table 14.1-75 of the Final Safety Analysis Report, as amended through Amendment No. 33, compliance with items 3 and 4 of Table 3.3-1 of the Technical Specifications is not required.

(5) Stability of the West Embankment and its Effects on the Intake Structure (Section 2.5.4, SSER 3)

DESC

SCE&G shall conduct the monitoring program discussed in Section 2.5.4.10.6.2 of the Final Safety Analysis Report, as amended through Amendment No. 33, to specifically include the following:

- a. At the vicinity of the pumphouse and intake structure, four settlement points capable of monitoring both horizontal and vertical movements shall be established to monitor the embankment movements.
- b. The submerged slope profile of the west embankment over the intake structure shall be established and monitored to detect any unusual movements that may affect the intake structure.
- c. The schedule and the reporting requirements of the above inspection shall be in accordance with the recommendations stated in Regulatory Guide 1.127.
- d. The condition of the intake structure shall be monitored to detect new cracks and changes to the old grouted or ungrouted cracks. Observed changes (length or width) in existing cracks and any new cracks shall be reported by SCE&G to the NRC staff. The maximum inspection interval for this monitoring of the intake structure is five (5) years.
- e. The condition of the intake structure shall also be monitored as specified in (d.) above following any earthquake during which the plant seismic instrumentation indicates that the operating basis earthquake has been exceeded.

DESC

(6) Design Verification Program (Section 3.7.4, SSER #5)

*

Prior to December 31, 1982 SCE&G shall provide a final report to the NRC staff delineating the final resolution of the actions taken to satisfy the recommendations of the independent design verification conducted by Stone & Webster Engineering Corporation.

(7) Thermal Sleeves (Section 3.9.3, SSER #5)

*

Prior to startup after the first refueling outage, SCE&G shall provide, for NRC staff review and approval, justification for continued operation with the thermal sleeves removed from selected nozzles in the reactor coolant system.

* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed it's name to "Dominion Energy South Carolina, Inc."

* [] (8) Environmental Qualification of Mechanical and Electrical Equipment (Section 3.11, SSER 4)

a. SCE&G shall complete all actions related to environmental qualification of equipment on a schedule specified in Section 3.11 of Supplement 4 to the Safety Evaluation Report.

* [] b. Complete and audible records shall be available and maintained at a central location by SCE&G. Such records shall describe the environmental qualification methods used for all safety-related electrical equipment in sufficient detail to document the degree of compliance with NUREG-0588, "Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment," Revision 1, dated July 1981. Such records shall be updated and maintained current as equipment is replaced, further tested, or otherwise further qualified to document compliance with NUREG-0588.

* [] c. Prior to startup after the first major shutdown or refueling outage after June 1983, SCE&G shall be in compliance with the provisions of NUREG-0588 for safety-related electrical equipment exposed to a harsh environment.

* [] (9) Mechanical Performance (Section 4.2.3, SER)

Prior to startup after the first refueling outage, SCE&G shall examine fuel rods for baffle-jetting failure as specified in Section 4.2.3 of the Safety Evaluation Report. Should damage be observed at that time, a corrective action plan shall be submitted to the NRC staff for review and approval.

* [] (10) Overpressurization Protection (Section 5.2.2, SSER 4)

Prior to startup after the first refueling outage, SCE&G shall install an NRC staff-approved low-temperature overpressurization protection system. The preliminary design shall be provided for NRC staff review not later than June 30, 1983.

* [] (11) Inservice Inspection and Testing (Section 5.2.4, SSER 3)

SCE&G shall perform the following actions in conjunction with the first inservice examination:

a. Demonstrate the ability of the ultrasonic examination procedure to detect actual flaws and/or artificial reflectors in the volume subject to examination to the acceptance standards of Paragraph IWB-3500 in weldments representative of the design and materials of construction.

* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed it's name to "Dominion Energy South Carolina, Inc."

- b. In the event that one-third thickness semi-circular reference flaws cannot be detected and discriminated from inherent anomalies, the entire volume of the weld shall be examined during the inservice inspection.
- c. The reporting of the inservice inspection examination results shall be documented in a manner to define qualitatively whether, the weldment and the heat affected zone and adjacent base metal on both sides of the weld were examined by ultrasonic angle beam techniques.

DESC → (9) Design Description - Control (Section 4.3.2, SER)
SCE&G is prohibited from using part-length rods during power operation.

(13) Deleted

(14) Deleted

(15) Deleted

* → (16) Cable Tray Separation (Section 8.3.3, SSER 4)
Prior to startup after the first refueling outage, SCE&G shall implement the modifications to the cable trays discussed in Section 8.3.3 of Supplement No. 4 to the Safety Evaluation Report or demonstrate to the NRC staff that faults induced in non-class 1E cable trays will not result in failure of cable in the adjacent Class 1E cable trays.

* → (17) Alternate Shutdown System Section 9.5.1, SSER 4)
Prior to startup after the first refueling outage, SCE&G shall install a source range neutron flux monitor independent of the control complex as part of the alternate shutdown system.

(18) Fire Protection Program

→ Dominion Energy South Carolina, Inc. → ~~South Carolina Electric & Gas Company~~ shall implement and maintain in effect all provisions of the approved fire protection program that comply with 10 CFR 50.48(a) and 10 CFR 50.48(c), as specified in the licensee amendment request dated 11/15/11 (and supplements dated 1/26/12, 10/10/12, 2/1/13, 4/1/13, 10/14/13, 11/26/13, 1/9/14, 2/25/14, 5/2/14, 5/11/14, 8/14/14, 10/9/14, and 12/11/14) and as approved in the safety evaluation report dated 02/11/15. Except where NRC approval for changes or deviations is required by 10 CFR 50.48(c), and provided no other regulation, technical specification, license condition or requirement would require prior NRC approval, the licensee may make changes to the fire protection program without prior approval of the Commission if those changes satisfy the provisions set forth in 10 CFR 50.48(a) and 10 CFR 50.48(c), the change does not require a change to a technical specification or a license condition, and the criteria listed below are satisfied.

* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed it's name to "Dominion Energy South Carolina, Inc."

The licensee may use an engineering evaluation to demonstrate that changes to certain NFPA 805, Chapter 3, elements are acceptable because the alternative is "adequate for the hazard." Prior NRC review and approval would not be required for alternatives to four specific sections of NFPA 805, Chapter 3, for which an engineering evaluation demonstrates that the alternative to the Chapter 3 element is adequate for the hazard. A qualified fire protection engineer shall approve the engineering evaluation and conclude that the change has not affected the functionality of the component, system, procedure, or physical arrangement, using a relevant technical requirement or standard. The four specific sections of NFPA 805, Chapter 3, are as follows:

- Fire Alarm and Detection Systems (Section 3.8);
- Automatic and Manual Water-Based Fire Suppression Systems (Section 3.9);
- Gaseous Fire Suppression Systems (Section 3.10); and,
- Passive Fire Protection-Features (Section 3.11).

This License Condition does not apply to any demonstration of equivalency under Section 1.7 of NFPA 805.

2. Fire Protection Program Changes that Have No More than Minimal Risk Impact

Prior NRC review and approval are not required for changes to the licensee's fire protection program that have been demonstrated to have no more than a minimal risk impact. The licensee may use its screening process as approved in the NRC safety evaluation dated February 11, 2015. The licensee shall ensure that fire protection defense-in-depth and safety margins are maintained when changes are made to the fire protection program.

c. Transition License Conditions

1. Before achieving full compliance with 10 CFR 50.48(c), as specified by c.2 and c.3 below, risk-informed changes to the licensee's fire protection program may not be made without prior NRC review and approval unless the change has been demonstrated to have no more than a minimal risk impact, as described in b.2 above.

* []

2. The licensee shall implement the modifications to its facility, as described in Attachment S, Table S-1, "Plant Modifications Committed," of SCE&G letter RC-14-0196, dated December 11, 2014, by the end of the calendar year 2015. The licensee shall maintain appropriate compensatory measures in place until completion of these modifications.

* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed its name to "Dominion Energy South Carolina, Inc."

- 3. The licensee shall implement items listed in Attachment S, Table S-2, "Implementation Items," of SCE&G letter RC-14-0196, dated December 11, 2014, to complete the transition to full compliance with 10 CFR 50.48(c) by March 31, 2016 as follows:
 - a. Items 3, 6, 7, 8, 10, 13, 14, 17, 19, and 21 within 180 days of NRC approval.
 - b. Items 1, 2, 4, 11, and 12 by December 31, 2015.
 - c. Items 5, 15, 16, 18, 20, 22, and 23 by March 31, 2016.

(19) Instrument and Control Vibration Tests for Emergency Diesel Engine Auxiliary Support Systems (Section 9.5.4, SER)

Prior to startup after the first refueling outage, SCE&G shall either provide test results and results of analyses to the NRC staff for review and approval which validate that the skid-mounted control panels and mounted equipment have been developed, tested, and qualified for operation under severe vibrational stresses encountered during diesel engine operation, or SCE&G shall floor mount the control panels presently furnished with the diesel generators separate from the skid on a vibration-free floor area.

(20) Solid Radioactive Waste Treatment System (Section 11.2.3, SSER 4)

SCE&G shall not ship "wet" solid wastes from the facility until the NRC staff has reviewed and approved the process control program for the cement solidification system.

(21) Process and Effluent Radiological Monitoring and Sampling Systems (Section 11.3, SSER 4)

Prior to startup after the first refueling outage, SCE&G shall install and calibrate the condensate demineralizer backwash effluent monitor RM-L11.

(22) Core Reactivity Insertion Events (Section 15.2.4, SSER 4)

For operations above 90% of full power, SCE&G shall control the reactor manually or the rods shall be out greater than 215 steps until written approval is received from the NRC staff authorizing removal of this restriction.

(23) NUREG-0737 Conditions (Section 22)

SCE&G shall complete the following conditions to the satisfaction of the NRC staff. Each item references the related subpart of Section 22 of the SER and/or its supplements.

a. Procedures for Transients and Accidents (I.C.1, SSER 4)

Prior to startup after the first refueling outage, SCE&G shall implement emergency operating procedures based on guidelines approved by the NRC staff.

- * [] b. Special Low Power Testing and Training (I.G.1, SSER 4)
Within twelve months following completion of the startup test program, SCE&G shall provide a report describing the results of a comparison of actual plant data taken during the natural circulation test program to the simulator responses described in the SCE&G letter, T. C. Nichols, Jr. to H. R. Denton dated March 31, 1982.
- * [] c. Direct Indication of Safety Valve Position (II.D.3, SSER 4)
Prior to exceeding 5 percent of full power, the safety valve position indication system shall be seismically qualified by SCE&G consistent with the component or system to which it is attached, and documentation of this shall be provided to the NRC staff for review and approval.
- * [] d. Inadequate Core Cooling Instruments (II.F.2, SSER 4)
Prior to startup after the first major shutdown or refueling outage after June 30, 1983, SCE&G shall complete upgrading of the incore thermocouple wiring and qualification of isolators, reference junction boxes and connectors.
- * [] e. Plant-Specific Calculations for Compliance with 10 CFR Section 50.46 (II.K.3.31, SSER 1)
Within one year after model revisions are approved by the NRC staff, SCE&G shall provide a supplemental plant-specific analysis to verify compliance with 10 CFR 50.46, using the revised models developed under item II.K.3.30 of NUREG-0737.
- * [] f. Upgrade Emergency Support Facilities (III.A.1.2, SSER 4)
SCE&G shall complete its emergency response facilities as follows:
- (i) Safety parameter display system - April 1, 1983
 - (ii) Emergency operations facility - April 1, 1983
 - (iii) Technical support center - April 1, 1983

(24) Deleted

Renewed Facility Operating License No. NPF-12

* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed its name to "Dominion Energy South Carolina, Inc."

(25) Confirmatory Seismic Analysis (ASLB Partial Initial Decision, July 20, 1982, Section VI.2)

* []

During the first year of operation, SCE&G shall successfully complete the confirmatory program on plant equipment and components within the guidelines established in the findings contained in the ASLB Partial Initial Decision dated July 20, 1982, to demonstrate to the NRC staff's satisfaction that explicit safety margins exist for each component necessary for shutdown and continued heat removal in the event of the maximum potential shallow earthquake.

(26) Plume Exposure Emergency Planning Zone (ASLB Supplemental Partial Initial Decision, August 4, 1982, Section VIII.3)

* []

During the first year of operation, SCE&G shall assure that the plume exposure emergency planning zone has been expanded to include the Kelly Miller, Greenbriar Headstart and Chapin Elementary schools and the emergency evacuation plans have been adjusted accordingly.

(27) Transportation Planning (ASLB Supplemental Partial Initial Decision, August 4, 1982, Section VIII.4)

* []

During the first year of operation, SCE&G shall assure that the defects in transportation planning discussed in Finding 24 of the ASLB Supplemental Partial Initial Decision dated August 4, 1982 have been remedied.

(28) Food Pathway Contamination (ASLB Supplemental Partial Initial Decision, August 4, 1982, Section VIII.6)

* []

During the first year of operation, SCE&G shall assure that plans to implement remedial and preventive measures for consumer protection against food pathway contamination have been formulated and communicated to the agricultural community.

(29) Siren Alerting System (ASLB Supplemental Partial Initial Decision, August 4, 1982, Section VIII.7)

* []

Prior to exceeding 5% of full power, SCE&G shall complete installation and satisfactory testing of its siren alerting system.

(30) Emergency Facilities and Staffing (ASLB Supplemental Partial Initial Decision, August 4, 1982, Section VIII.8)

* []

SCE&G shall complete the following three items related to emergency preparedness to the satisfaction of the NRC staff, consistent with the Supplement No. 2 to the Safety Evaluation Report, page A-13:

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* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed its name to "Dominion Energy South Carolina, Inc."

- (i) Minimum shift manning requirements
- (ii) Emergency response facilities
- (iii) Meteorological and dose assessment capability

(31) Final NRC Approval of Emergency Preparedness (ASLB Supplemental Partial Initial Decision, August 4, 1982, Section VIII.9)

Prior to exceeding 5% of full power, final NRC staff approval of the state of emergency preparedness for the Virgil C. Summer Nuclear Station site shall be required.

(32) Deleted

(33) Emergency Preparedness Exercise (Section 13.3, SSER #5)

*

Prior to March 31, 1983, SCE&G shall conduct an emergency exercise similar to that conducted on May 5, 1982 but which includes full participation of the local governments and partial State participation.

DESC

(34) Mitigation Strategy License Condition

SCE&G shall develop and maintain strategies for addressing large fires and explosions and that include the following key areas:

- a. Fire fighting response strategy with the following elements:
 - i. Pre-defined coordinated fire response strategy and guidance
 - ii. Assessment of mutual aid fire fighting assets
 - iii. Designated staging areas for equipment and materials
 - iv. Command and control
 - v. Training of response personnel
- b. Operations to mitigate fuel damage considering the following:
 - i. Protection and use of personnel assets
 - ii. Communications
 - iii. Minimizing fire spread
 - iv. Procedures for implementing integrated fire response strategy
 - v. Identification of readily-available pre-staged equipment
 - vi. Training on integrated fire response strategy
 - vii. Spent fuel pool mitigation measures
- c. Actions to minimize release to include consideration of:
 - i. Water spray scrubbing
 - ii. Dose to onsite responders

* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed its name to "Dominion Energy South Carolina, Inc."

D. An exemption to the requirements of Paragraph III.B.4 of Appendix G to 10 CFR Part 50 is described in Section 5.3.1 of Supplement No. 1 to the Office of Nuclear Reactor Regulation's Safety Evaluation Report. A limited exemption to the requirements of Section IV.F.1(b) of Appendix E to 10 CFR Part 50 is described in a letter from B. J. Youngblood, NRC to O. W. Dixon, Jr., dated November 2, 1982. These exemptions are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest. The facility will operate, to the extent authorized herein, in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission.

DESC

E. SCE&G shall fully implement and maintain in effect all provisions of the Commission-approved physical security, training and qualification, and safeguards contingency plans including amendments made pursuant to provisions of the Miscellaneous Amendments and Search Requirements revisions to 10 CFR 73.55 (51 FR 27817 and 27822) and to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The combined set of plans, which contain Safeguards Information protected under 10 CFR 73.21, is entitled: "Virgil C. Summer Nuclear Station Security Plan," as updated through May 15, 2006. This document includes the Security Training and Qualification Plan as Appendix B and the Safeguards Contingency Plan as Appendix C.

DESC

SCE&G shall fully implement and maintain in effect all provisions of the Commission-approved cyber security plan (CSP), including changes made pursuant to the authority of 10 CFR 50.90 and 10 CFR 50.54(p). The SCE&G CSP was approved by License Amendment No. 184, as supplemented by changes approved by License Amendment Nos. 198 and 208.

- F. This renewed license is subject to the following additional condition for the protection of the environment:

DESC

Before engaging in activities that may result in a significant adverse environmental impact that was not evaluated or that is significantly greater than that evaluated in the Final Environmental Statement, SCE&G shall provide a written notification of such activities to the NRC Office of Nuclear Reactor Regulation and receive written approval from that office before proceeding with such activities.

- G. Reporting to the Commission:

DESC

(1) DELETED

(2) SCE&G shall notify the Commission, as soon as possible but not later than one hour, of any accident at this facility which could result in an unplanned release of quantities of fission products in excess of allowable limits for normal operation established by the Commission.

- H. The licensees shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.

- I. In accordance with the Commission's direction in its Statement of policy, Licensing and Regulatory Policy and Procedures for Environmental Protection: Uranium Fuel Cycle Impacts, October 29, 1982, this license is subject to the final resolution of the pending litigation involving Table S-3. See, Natural Resources Defense Council v. NRC, No. 74-1586 (April 27, 1982).

- J. Additional License Conditions

Dominion Energy South Carolina, Inc.

The Additional Conditions contained in Appendix C, as revised through Amendment No. 185, are hereby incorporated into this renewed license. ~~South Carolina Electric & Gas Company~~ shall operate the facility in accordance with the Additional Conditions.

- K. Updated Final Safety Analysis Report

The ~~South Carolina Electric & Gas Company~~ Updated Final Safety Analysis Report supplement, submitted pursuant to 10 CFR 54.21(d), describes certain future activities to be completed prior to the period of extended operation. The

Dominion Energy South
Carolina, Inc.

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~~South Carolina Electric & Gas Company~~ shall complete these activities no later than August 6, 2022, and shall notify the NRC in writing when implementation of these activities is complete and can be verified by NRC inspection.

Dominion Energy
South Carolina, Inc.

The Updated Final Safety Analysis Report supplement, as revised, shall be included in the next scheduled update to the Updated Final Safety Analysis Report required by 10 CFR 50.71(e)(4) following issuance of this renewed license. Until that update is complete, the ~~South Carolina Electric & Gas Company~~ may make changes to the programs and activities described in the supplement without prior Commission approval, provided that the ~~South Carolina Electric & Gas Company~~ evaluates each such change pursuant to the criteria set forth in 10 CFR 50.59 and otherwise complies with the requirements in that section.

Dominion Energy
South Carolina, Inc.

- L. All capsules in the reactor vessel that are removed and tested must meet the test procedures and reporting requirements of ASTM E 185-82 to the extent practicable for the configuration of the specimens in the capsule. Any changes to the capsule withdrawal schedule, including spare capsules, must be approved by the NRC prior to implementation. All capsules placed in storage must be maintained for future insertion. Any changes to storage requirements must be approved by the NRC.
- M. This renewed license is effective as of the date of issuance and shall expire at midnight, August 6, 2042.

FOR THE NUCLEAR REGULATORY COMMISSION

/RA/

J. E. Dyer, Director
Office of Nuclear Reactor Regulation

Enclosures:

1. Appendix A (Technical Specifications)
2. Appendix B (Environmental Protection Plan)
3. Appendix C (Additional Conditions)

Date of Issuance: April 23, 2004

Renewed Facility Operating License No. NPF-12

Attachment 1 to Renewed Operating License No. NPF-12

* [Redacted]

This attachment identifies certain preoperational tests, system demonstrations and other items which must be completed to the satisfaction of NRC Region II. SCE&G shall not proceed without written confirmation from NRC Region II that the following items have been completed in accordance with the conditions and schedules set forth below:

* [Redacted]

1. Prior to initial criticality, SCE&G shall complete to the satisfaction of NRC Region II the following 10 CFR Part 21 identified item:

Correct the diesel generator slow start times attributed to fuel oil header drain down (81-29-01).

* [Redacted]

2. Prior to initial criticality, SCE&G shall complete to the satisfaction of NRC Region II the following open items:

- a. Complete the replacement of all damaged prefilters external to the containment building (82-07-03).
- b. Complete the repair and testing of diesel generator B before entering Mode 4.

* [Redacted]

3. Prior to exceeding 5% of full power, SCE&G shall complete to the satisfaction of NRC Region II the requirements of the following bulletins:

- a. Failure of gate-type valves to close against differential pressure (81-BU-02).
- b. Seismic analysis for as-built safety-related piping systems required to support operations above 5% of full power (79-BU-14).

* [Redacted]

4. Prior to exceeding 5% of full power, SCE&G shall complete to the satisfaction of NRC Region II the following 10 CFR 21 identified items:

- a. Westinghouse 3-inch gate valve closure failure (80-37-10).
- b. Westinghouse 4-inch gate valve closure failure (81-05-09).

* [Redacted]

5. Prior to exceeding 5% of full power, SCE&G shall complete to the satisfaction of NRC Region II the following open items:

- a. Correct the hydrogen recombiner high hydrogen alarm set at 6% versus proposed Technical Specification limit of 2% (80-06-07).
- b. Satisfactorily complete the capability test for Fe-55 analyses of liquid waste samples.

Renewed Facility Operating License No. NPF-12

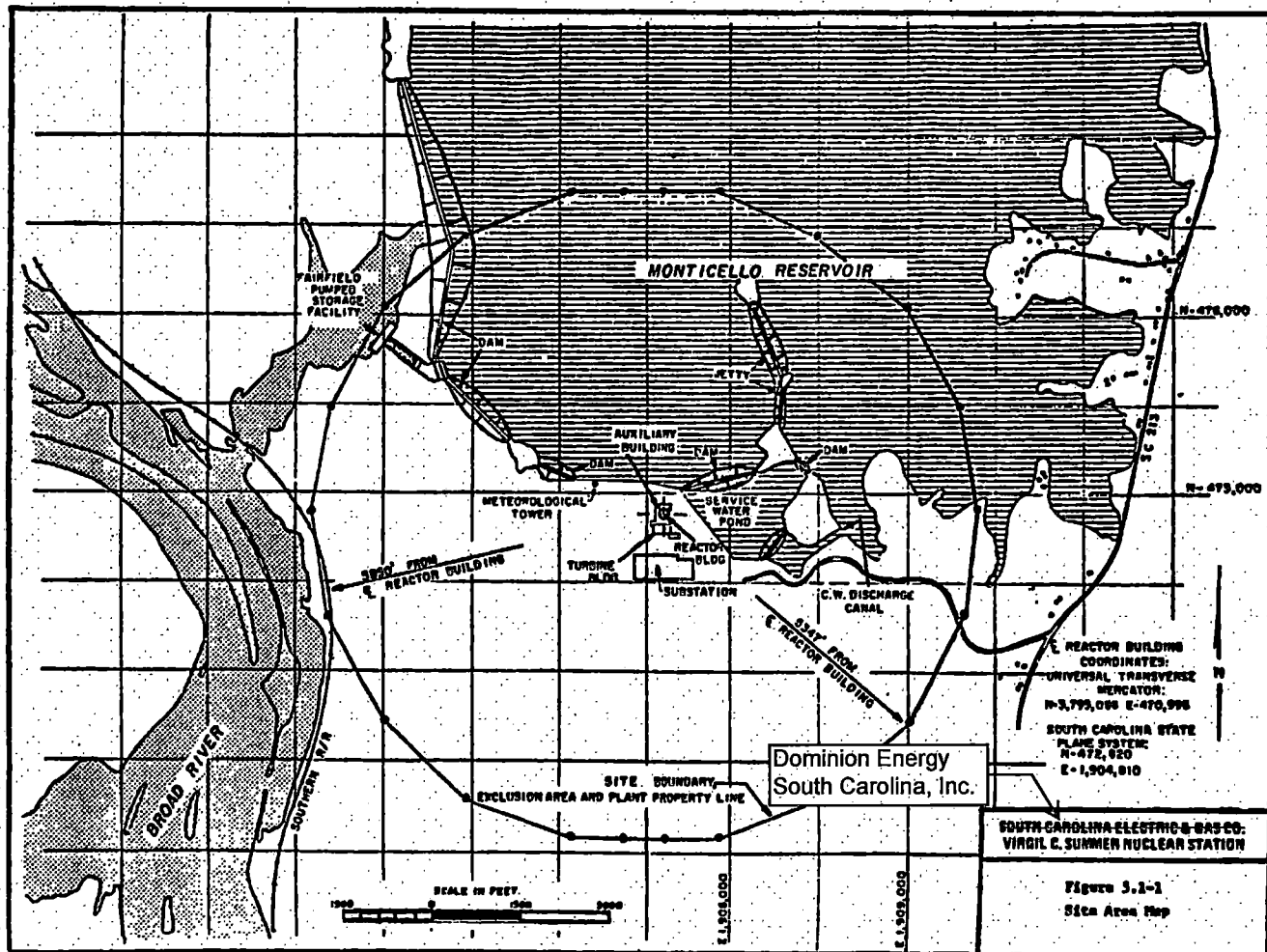
* On April 29, 2019 "South Carolina Electric & Gas Company" (SCE&G) changed its name to "Dominion Energy South Carolina, Inc."

- * [redacted] →
6. Prior to full power operation, SCE&G shall complete to the satisfaction of NRC Region II the requirements of the following bulletin:

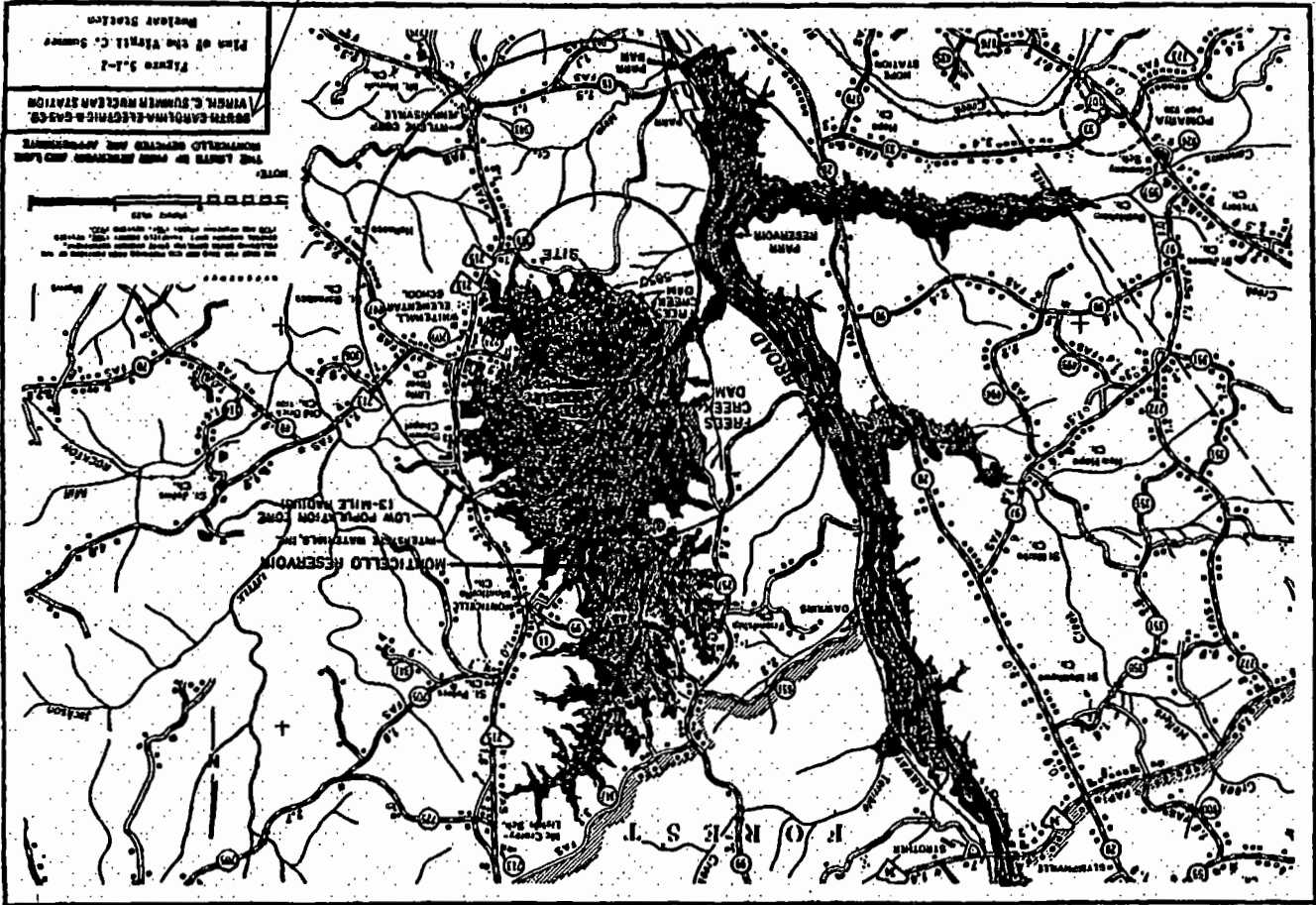
* [redacted] → Audibility problems encountered during evacuation alarm in high noise area (79-BU-18).

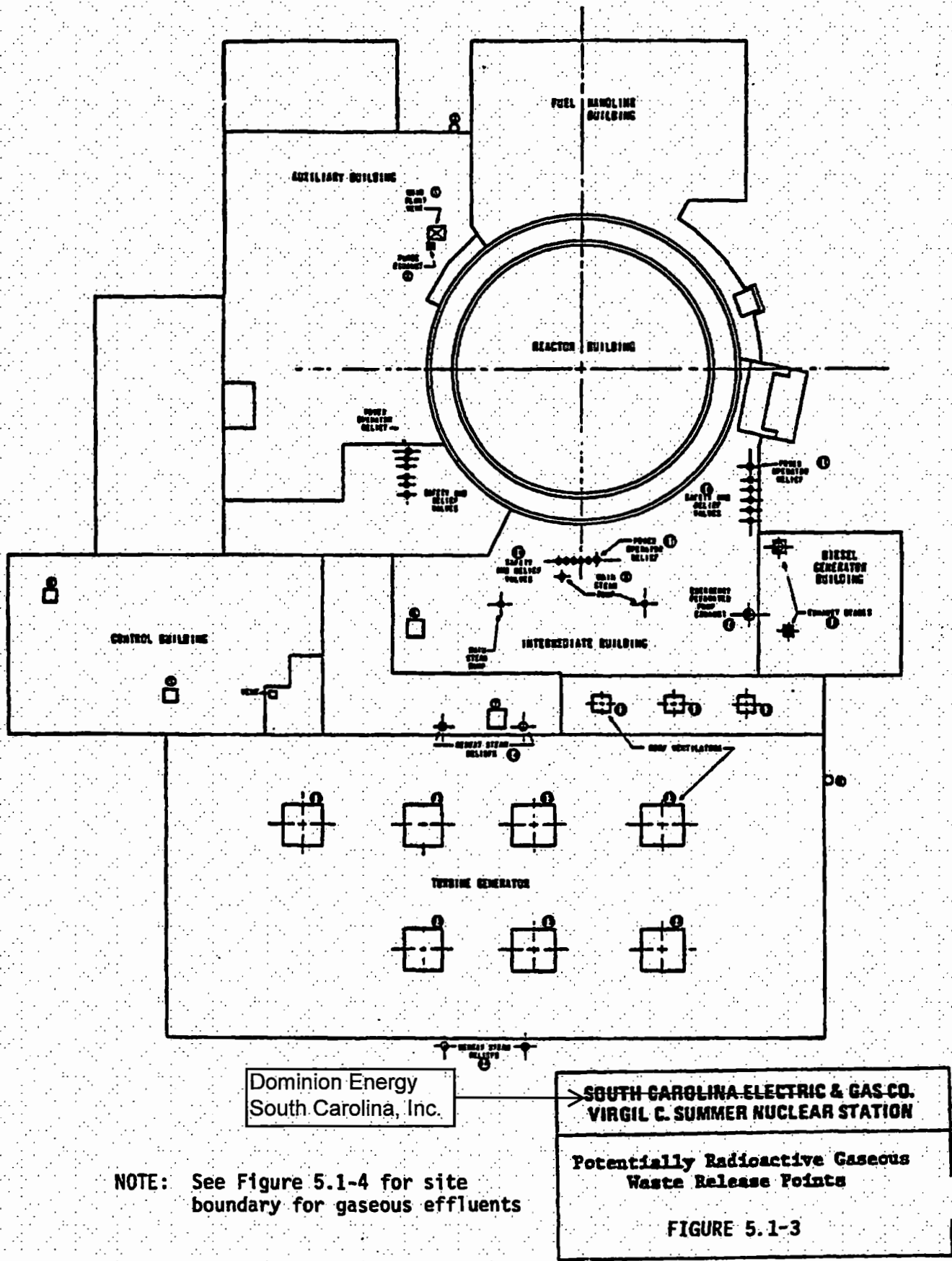
7. Prior to full power operation, SCE&G shall complete to the satisfaction of NRC Region II the following open item:

Resolve the problem of the reactor building temperature being greater than expected during hot functional testing (80-25-09).



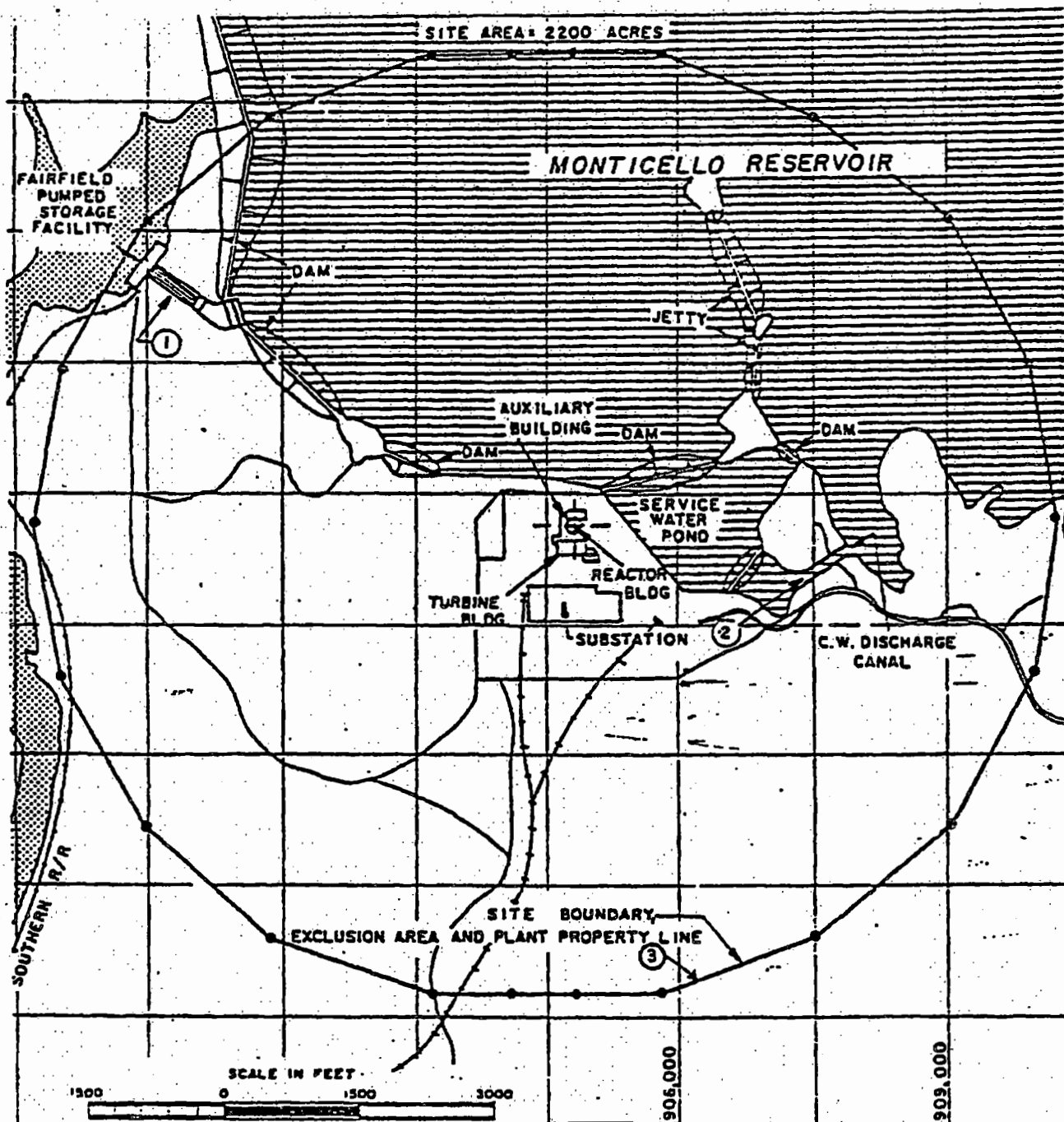
South Carolina, Inc.
Dominion Energy





NOTE: See Figure 5.1-4 for site boundary for gaseous effluents

FIGURE 5.1-3



LIQUID RELEASES:

- ① FAIRFIELD PUMPED STORAGE FACILITY PENSTOCKS
(A) LIQUID WASTE PROCESSING SYSTEM
(B) PROCESSED STEAM GENERATOR BLOWDOWN
- ② CIRCULATING WATER DISCHARGE CANAL
(A) UNPROCESSED STEAM GENERATOR BLOWDOWN
(B) TURBINE BUILDING FLOOR DRAINS

GASEOUS RELEASES:

- ③ SITE BOUNDARY FOR GASEOUS RELEASES

SOUTH CAROLINA ELECTRIC & GAS CO.
VIRGIL C. SUMMER NUCLEAR STATION

Location of Liquid
Release Points

FIGURE 5.1-4

APPENDIX B

TO RENEWED FACILITY LICENSE NO. NPF-12

FOR

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

Dominion Energy South Carolina, Inc.



SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

DOCKET NO. 50-395

ENVIRONMENTAL PROTECTION PLAN

evaluation which provides bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question.

3.2 Reporting Related to the NPDES Permits and State Certifications

Violations of the NPDES permit or State certification (pursuant to Section 401 of the Clean Water Act) shall be reported to the NRC by submittal of copies of the reports required by the NPDES permit or certification. ~~South Carolina Electric & Gas Company~~ shall also provide the NRC with a copy of the results of the following studies at the same time they are submitted to the permitting agency:

- (1) Thermal Effects Study Plan
- (2) Section 316(b) Demonstration Study

Dominion Energy South Carolina, Inc.

Changes and additions to the NPDES permit or the State certification shall be reported to the NRC within 30 days following the date the change is approved. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

The NRC shall be notified of changes to the effective NPDES permit proposed by the licensees by providing NRC with a copy of the proposed change at the same time it is submitted to the permitting agency. ~~South Carolina Electric & Gas Company~~ shall provide the NRC with a copy of the application for renewal of the NPDES permit at the same time the application is submitted to the permitting agency.

Dominion Energy South Carolina, Inc.

3.3 Changes Required for Compliance with Other Environmental Regulations

Changes in facility design or operation and performance of tests or experiments which are required to achieve compliance with other Federal, State or local environmental regulations are not subject to the requirements of Section 3.1.

ADDITIONAL CONDITIONS
RENEWED OPERATING LICENSE NO. NPF-12

~~South Carolina Electric & Gas Company~~ (the term licensee in Appendix C refers to ~~South Carolina Electric & Gas Company~~) shall comply with the following conditions on the schedules noted below:

| Amendment Number | Additional Condition | Implementation Date |
|------------------|--|--|
| 137 | The licensee is authorized to relocate certain Technical Specification requirements to licensee-controlled documents. Implementation of this amendment shall include the relocation of those technical specification requirements to the appropriate documents, as described in the licensee's application dated November 14, 1995, as supplemented by letters dated July 11, 1996, and July 24, 1997, and evaluated in the staff's Safety Evaluation attached to this amendment. | The amendment shall be implemented within 180 days from August 13, 1997. |
| 180 | <p>Upon implementation of Amendment No. 180 adopting TSTF-448, Revision 3, the determination of control room envelope (CRE) unfiltered air inleakage as required by Surveillance Requirement SR 4.7.6.e. in accordance with TS 6.8.4.m.3.(i), the assessment of CRE habitability as required by Specification 6.8.4.m.3.(ii), and the measurement of CRE pressure as required by Specification 6.8.4.m.4, shall be considered met. Following implementation:</p> <p>(a) The first performance of SR 4.7.6, in accordance with Specification 6.8.4.m.3.(i), shall be within the specified frequency of 6 years, plus the 18-month allowance of SR 4.0.2, as measured from March 25, 2005, the date of the most recent successful tracer gas test, as stated in the November 18, 2005 letter response to Generic Letter 2003-01, or within the next 18 months if the time period since the most recent successful tracer gas test is greater than 6 years.</p> <p>(b) The first performance of the periodic assessment of CRE habitability, specification 6.8.4.m.3.(ii), shall be within 3 years, plus the 9-month allowance of SR 4.0.2, as measured from March 25, 2005, the date of the most recent successful tracer gas test, as stated in the November 18, 2005 letter response to Generic Letter 2003-01, or within the next 9 months if the time period since the most recent successful tracer gas test is greater than 3 years.</p> <p>The first performance of the periodic measurement of CRE pressure, specification 6.8.4.m.4, shall be within 18 months, plus the 138 days allowance of SR 4.0.2, as measured from September 28, 2006, the date of the most recent successful pressure measurement test, or within 138 days if not performed previously.</p> | As stated in the Additional Condition |