



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

April 10, 2019

Mr. George A. Lippard, III  
Vice President, Nuclear Operations  
South Carolina Electric & Gas Company  
Virgil C. Summer Nuclear Station  
P.O. Box 88, Mail Code 800  
Jenkinsville, SC 29065

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1 – ISSUANCE OF  
AMENDMENT RE: REMOVES THE EXPIRED ONE-TIME EXTENSION TO  
SURVEILLANCE REQUIREMENT 4.3.3.6 AND REMOVES THE INDEX FROM  
TECHNICAL SPECIFICATIONS (EPID L-2018-LLA-0568)

Dear Mr. Lippard:

The U.S. Nuclear Regulatory Commission (the Commission) has issued the enclosed Amendment No. 214 to Renewed Facility Operating License No. NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1, in response to your application dated December 12, 2018.

The amendment removes an expired one-time extension to Technical Specification (TS) Surveillance Requirement (SR) 4.3.3.6, which describes the SRs for the Accident Monitoring Instrumentation. Additionally, this amendment removes the index from the TSs. These are administrative non-technical changes.

A copy of the related Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,

A handwritten signature in cursive script that reads "Shawn Williams".

Shawn A. Williams, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-395

Enclosures:

1. Amendment No. 214 to NPF-12
2. Safety Evaluation

cc: Listserv



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

DOCKET NO. 50-395

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 214  
Renewed License No. NPF-12

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Virgil C. Summer Nuclear Station, Unit No. 1 (the facility), Renewed Facility Operating License No. NPF-12 filed by the South Carolina Electric & Gas Company (the licensee), dated December 12, 2018, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

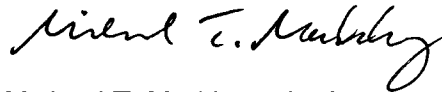
2. Accordingly, the license is hereby amended by a page change to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Renewed Facility Operating License No. NPF-12 is hereby amended to read as follows:

- (2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 214, 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.

3. This amendment is effective as of its date of issuance and shall be implemented within 90 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Michael T. Markley, Chief  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to Renewed Facility Operating  
License and Technical Specifications

Date of Issuance: April 10, 2019

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1  
ATTACHMENT TO LICENSE AMENDMENT NO. 214  
RENEWED FACILITY OPERATING LICENSE NO. NPF-12  
DOCKET NO. 50-395

Replace the following pages of the Renewed Facility Operating License and Appendix A, Technical Specifications (TSs), with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove

License  
Page 3

TS  
Entirety of Index  
3/4 3-56

Insert

License  
Page 3

TS  
Not Applicable  
3/4 3-56

- (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;
- (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;
- (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
- (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:

(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. 214, 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.

## INSTRUMENTATION

### ACCIDENT MONITORING INSTRUMENTATION

#### LIMITING CONDITION FOR OPERATION

---

3.3.3.6 The accident monitoring instrumentation channels shown in Table 3.3-10 shall be OPERABLE.

APPLICABILITY MODES 1, 2, and 3.

ACTION:

- a. With the number of OPERABLE accident monitoring channels less than the Required Number of Channels shown on Table 3.3-10, either restore the inoperable channel(s) to OPERABLE status within 30 days or submit a Special Report within the following 14 days from the time the action is required. The report shall outline the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the instrumentation channels to operable status.
- b.1 With the number of OPERABLE Reactor Building radiation monitoring channels less than the Minimum Channels Operable requirement of Table 3.3-10, either restore the inoperable channel(s) to OPERABLE status within 72 hours, or:
  - i) Initiate the preplanned alternate method of monitoring the appropriate parameter(s), and
  - ii) Submit a Special Report to the Commission pursuant to Specification 6.9.2 within 14 days following the event outlining the action taken, the cause of the inoperability, and the plans and schedule for restoring the system to OPERABLE status.
- b.2 Deleted
- b.3 With the number of OPERABLE accident monitoring channels less than the Minimum Channels Operable requirement of Table 3.3-10, either restore the inoperable channels to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the next 12 hours.
- c. The provisions of Specification 3.0.4 are not applicable.

#### SURVEILLANCE REQUIREMENTS

---

4.3.3.6 Each accident monitoring instrumentation channel shall be demonstrated OPERABLE by performing a monthly CHANNEL CHECK and a CHANNEL CALIBRATION every refueling outage. The Reactor Building Radiation Level Instrumentation CHANNEL CALIBRATION may consist of an electronic calibration of the channel, not including the detector, for the range decades above 10R/hr and a single point calibration of the detector below 10R/hr with an installed or portable gamma source.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 214 TO

RENEWED FACILITY OPERATING LICENSE NO. NPF-12

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-395

1.0 INTRODUCTION

By letter dated December 12, 2018 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML18346A595), South Carolina Electric & Gas Company (SCE&G, the licensee) requested changes to the Technical Specifications (TSs) for Virgil C. Summer Nuclear Station (VCSNS), Unit No. 1.

The licensee requested to remove an expired one-time extension to TS Surveillance Requirement (SR) 4.3.3.6, which describes the SRs for the Accident Monitoring Instrumentation. Additionally, the licensee requested to remove the index from the TSs and place it under licensee control. The licensee stated that these changes are administrative, non-technical changes.

2.0 REGULATORY EVALUATION

2.1 Proposed Changes

The current TS Surveillance Requirement 4.3.3.6 states:

Each accident monitoring instrumentation channel shall be demonstrated OPERABLE by performing a monthly CHANNEL CHECK and a CHANNEL CALIBRATION every refueling outage. An extension for the CHANNEL CALIBRATION interval for Item 12 in Table 3.3-10 to 19 months is permitted on a one-time basis. This extension expires prior to entering MODE 3, following the RF-24 refueling outage. The Reactor Building Radiation Level Instrumentation CHANNEL CALIBRATION may consist of an electronic calibration of the channel, not including the detector, for the range decades above 10R/hr and a single point calibration of the detector below 10R/hr with an installed or portable gamma source.

The licensee proposed to remove the expired one-time extension. The revised TS SR 4.3.3.6 would state:

Each accident monitoring instrumentation channel shall be demonstrated OPERABLE by

performing a monthly CHANNEL CHECK and a CHANNEL CALIBRATION every refueling outage. The Reactor Building Radiation Level Instrumentation CHANNEL CALIBRATION may consist of an electronic calibration of the channel, not including the detector, for the range decades above 10R/hr and a single point calibration of the detector below 10R/hr with an installed or portable gamma source.

In addition, the licensee proposed to remove the Index from TSs. The licensee stated that the Index for the TSs is not being eliminated but will be maintained under licensee control.

## 2.2 Applicable Regulatory Requirements

The NRC's regulatory requirements related to the content of the Technical Specifications are contained in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50.36. The regulations in 10 CFR 50.36 require that the technical specifications include items in the following categories: (1) safety limits, limiting safety system settings, and limiting control settings; (2) limiting conditions for operation; (3) surveillance requirements; (4) design features; and (5) administrative controls.

The regulation in 10 CFR 50.36(c)(3), "Surveillance requirements," states that "[s]urveillance requirements are requirements related to test, calibration, or inspection to assure that the necessary quality of systems and components is maintained, that facility operation will be within safety limits, and that the limiting conditions for operation will be met."

The regulation in 10 CFR 50.36(c)(5) "Administrative controls," state that "[a]dministrative controls are the provisions relating to organization and management, procedures, recordkeeping, review and audit, and reporting necessary to assure operation of the facility in a safe manner."

## 3.0 TECHNICAL EVALUATION

### NRC Staff Evaluation

The proposed change in TS SR 4.3.3.6 to remove an expired one-time extension is an administrative, non-technical change. The staff finds that upon removal of the expired one-time extension, TS SR 4.3.3.6 will continue to provide reasonable assurance that the necessary quality of systems and components is maintained, that facility operation will be within safety limits, and that the limiting conditions for operation will be met, as required by 10 CFR 50.36(c)(3). Therefore, the NRC staff finds this proposed change acceptable.

The VCSNS TS Index is a list that provides information on where (i.e., page number) specific TS sections can be found. The staff notes that the Index does not contain any technical information required by 10 CFR 50.36. Moreover, the index, which contains only administrative information, is not required to be in the TSs per the requirements of 10 CFR 50.36 and is not relied upon to assure safe operation of the facility. Inclusion of an index as part of the TS is optional and is not required by regulation. Removal of the index from the TSs constitutes an administrative change and is, therefore, acceptable.



### NRC Staff Conclusion

The NRC staff finds that the proposed change TS SR 4.3.3.6 to remove an expired one-time extension, and the proposed change to remove the index from VCSNS TSs, are administrative, non-technical changes. The NRC staff concludes that the VCSNS TSs will continue to meet the requirements in 10 CFR 50.36, and are therefore, acceptable.

### 4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the State of South Carolina official was notified of the proposed issuance of the amendment on March 15, 2019. On March 16, 2019, the State official confirmed that the State of South Carolina had no comments.

### 5.0 ENVIRONMENTAL CONSIDERATION

The amendment relates to changes in recordkeeping, reporting, or administrative procedures or requirements. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) there is reasonable assurance that such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principle Contributor: S. Williams, NRR

Date: April 10, 2019

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1 – ISSUANCE OF AMENDMENT RE: REMOVES THE EXPIRED ONE-TIME EXTENSION TO SURVEILLANCE REQUIREMENT 4.3.3.6 AND REMOVES THE INDEX FROM TECHNICAL SPECIFICATIONS (EPID L-2018-LLA-0568) DATED APRIL 10, 2019

**DISTRIBUTION:**

RidsACRS\_MailCTR Resource  
 RidsNrrDorlLpl2-1 Resource  
 RidsNrrLAKGoldstein Resource  
 RidsNrrPMSummer Resource  
 RidsRgn2MailCenter Resource

**ADAMS Accession No.: ML19074A222**

OFFICE	DORL/LPL2-1/PM	DORL/LPL2-1/LA	OGC/NLO	DORL/LPL2-1/BC
NAME	SWilliams	KGoldstein	RSusko	MMarkley
DATE	3/15/19	3/26/19	4/8/19	4/9/19
OFFICE	DORL/LPL2-1/PM			
NAME	SWilliams			
DATE	4/10/19			

OFFICIAL RECORD COPY