

July 22, 1986

Docket No. 50-395

DISTRIBUTION

Mr. D. A. Nauman
Vice President, Nuclear Operations
South Carolina Electric & Gas Company
P.O. Box 764 (Mail Code 167)
Columbia, South Carolina 29218

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D. McDonald	V. Benaroya
OELD	Tech Branch
L. Harmon	ACRS (10)
E. Jordan	C. Miles, OPA
L. Tremper, LFMB	Gray File

Dear Mr. Nauman:

The Commission has issued the enclosed Amendment No. 51 to Facility Operating License No. NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1. The amendment consists of changes to the Technical Specifications in response to your application dated March 17, 1986.

The amendment changes Technical Specification (TS) 6.2.2, "Administrative Controls - Unit Staff," by clarifying that the Director, Nuclear Plant Operations does not need to review individual overtime during extended shutdown periods. The amendment also changes TS 3.5.3, "ECCS Subsystems - Tav_g Less than 350°F," by clarifying that the residual heat removal system can be aligned to the reactor coolant system during Mode 4 operation and manual alignment to the refueling water storage tank would be utilized upon receipt of a safety injection signal. The amendment is effective as of its date of issuance and shall be implemented within 30 days of issuance.

A copy of the related Safety Evaluation is enclosed. The Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

/s/

Jon B. Hopkins, Project Manager
PWR Project Directorate #2
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 51 to NPF-12
2. Safety Evaluation

cc w/enclosures:

See next page

*See previous concurrence

*LA:PAD#2
DMiller
7/1/86

PM:PAD#2
JHopkins:hc
7/2/86

D:PAD#2
LRubenstein
7/18/86

OELD *started review*
MYoung
7/3/86

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Jon B. Hopkins, Project Manager
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7/ /86

D:PAD#2
LRubenstein
7/ /86

OELD
7/ /86

Mr. D. A. Nauman
South Carolina Electric & Gas Company

Virgil C. Summer Nuclear Station

cc:

Mr. William A. Williams, Jr.
Technical Assistant - Nuclear Operations
Santee Cooper
P.O. Box 764 (Mail Code 167)
Columbia, South Carolina 29218

J. B. Knotts, Jr., Esq.
Bishop, Liberman, Cook, Purcell
and Reynolds
1200 17th Street, N.W.
Washington, D. C. 20036

Resident Inspector/Summer NPS
c/o U.S. Nuclear Regulatory Commission
Route 1, Box 64
Jenkinsville, South Carolina 29065

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission,
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323

Chairman, Fairfield County Council
P.O. Box 293
Winnsboro, South Carolina 29180

Attorney General
Box 11549
Columbia, South Carolina 29211

Mr. Heyward G. Shealy, Chief
Bureau of Radiological Health
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



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

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

DOCKET NO. 50-395

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.51
License No. NPF-12

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by South Carolina Electric & Gas Company and South Carolina Public Service Authority (the licensees) dated March 17, 1986, 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 amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-12 is hereby amended to read as follows:

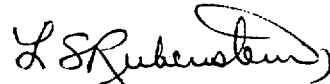
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(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 51, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This amendment is effective as of its date of issuance, and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Lester S. Rubenstein, Director
PWR Project Directorate #2
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 22, 1986

ATTACHMENT TO LICENSE AMENDMENT

AMENDMENT NO. 51 TO FACILITY OPERATING LICENSE NO. NPF-12

DOCKET NO. 50-395

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the areas of change. Corresponding overleaf pages are also provided to maintain document completeness.

Remove Pages

3/4 5-7

6-1a

Insert Pages

3/4 5-7

6-1a

EMERGENCY CORE COOLING SYSTEMS

3/4.5.3 ECCS SUBSYSTEMS - $T_{avg} < 350^{\circ}\text{F}$

LIMITING CONDITION FOR OPERATION

3.5.3 As a minimum, one ECCS subsystem comprised of the following shall be OPERABLE:

- a. One OPERABLE centrifugal charging pump,#
- b. One OPERABLE residual heat removal heat exchanger,
- c. One OPERABLE residual heat removal pump, and
- d. An OPERABLE flow path capable of taking suction from the refueling water storage tank upon being manually realigned and capable of transferring suction to the RHR sump during the recirculation phase of operation.

APPLICABILITY: MODE 4.

ACTION:

- a. With no ECCS subsystem OPERABLE because of the inoperability of either the centrifugal charging pump or the flow path from the refueling water storage tank, restore at least one ECCS subsystem to OPERABLE status within 1 hour or be in COLD SHUTDOWN within the next 20 hours.
- b. With no ECCS subsystem OPERABLE because of the inoperability of either the residual heat removal heat exchanger or residual heat removal pump, restore at least one ECCS subsystem to OPERABLE status or maintain the Reactor Coolant System T_{avg} less than 350°F by use of alternate heat removal methods.
- c. In the event the ECCS is actuated and injects water into the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date. The current value of the usage factor for each affected safety injection nozzle shall be provided in this Special Report whenever its value exceeds 0.70.

A maximum of one centrifugal charging pump shall be OPERABLE whenever the temperature of one or more of the RCS cold legs is less than or equal to 300°F .

- i. Administrative procedures shall be developed and implemented to limit the working hours of unit staff who perform safety-related functions; e.g., senior reactor operators, reactor operators, health physicists, auxiliary operators, and key maintenance personnel.

Adequate shift coverage shall be maintained without routine heavy use of overtime. However, in the event that unforeseen problems require substantial amounts of overtime to be used, or during extended periods of shutdown for refueling, major maintenance or major plant modifications, on a temporary basis, the following guidelines shall be followed:

- a. An individual should not be permitted to work more than 16 hours straight, excluding shift turnover time.
- b. An individual should not be permitted to work more than 16 hours in any 24-hour period, nor more than 24 hours in any 48-hour period, nor more than 72 hours in any seven day period, all excluding shift turnover time.
- c. A break of at least eight hours should be allowed between work periods, including shift turnover time.
- d. Except during extended shutdown periods, the use of overtime should be considered on an individual basis and not for the entire staff on a shift.

Any deviation from the above guidelines shall be authorized by the Director, Nuclear Plant Operations or his deputy, or higher levels of management, in accordance with established procedures and with documentation of the basis for granting the deviation. Except during extended shutdown periods, controls shall be included in the procedures such that individual overtime shall be reviewed monthly by the Director, Nuclear Plant Operations or his designee to assure that excessive hours have not been assigned. Routine deviation from the above guidelines is not authorized.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 51 TO FACILITY OPERATING LICENSE NO. NPF-12

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

DOCKET NO. 50-395

I. INTRODUCTION

By letter dated March 17, 1986, South Carolina Electric and Gas Company (the licensee) requested changes to the Virgil C. Summer Nuclear Station Technical Specifications. The first change, Technical Specification (TS) 6.2.2, "Administrative Controls - Unit Staff," clarifies that the Director, Nuclear Plant Operations does not need to review individual overtime during extended shutdown periods. The other change, TS 3.5.3, "ECCS Subsystems - Tav_g Less than 350°F," clarifies that the residual heat removal system can be aligned to the reactor coolant system during Mode 4 operation and manual alignment to the refueling water storage tank would be utilized upon receipt of a safety injection signal.

II. EVALUATION

Section 6.2.2.f.d. of the Technical Specifications states, "Except during extended shutdown periods, the use of overtime should be considered on an individual basis and not for the entire staff on a shift." However, the final paragraph of Section 6.2.2.f states, "Controls shall be included in the procedures such that individual overtime shall be reviewed monthly by the Director, Nuclear Plant Operations, or his designee to assure that excessive hours have not been assigned." These two statements appear contradictory because, in the latter statement, the exception to dispense with the monthly review of individual overtime during periods of extended shutdown is not restated.

It is the NRC staff's view that the intent of the NRC overtime policy expressed in Generic Letter 82-12 can be achieved if the Director's monthly review of individual overtime is dispensed with during extended shutdown periods. The monthly reviews of individual overtime would be required at all other times.

The NRC staff has reviewed this change and finds that it is a clarification made for consistency in the Technical Specifications and therefore is acceptable.

TS 3.5.3.d states in part, "An OPERABLE flow path capable of taking suction from the refueling water storage tank" This statement could cause confusion because it could be viewed as meaning aligned to the refueling water

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storage tank instead of capable of being aligned to the refueling water storage tank. To address that concern the words "upon being manually realigned . . ." are being added after the above statement. This change is in accordance with the Westinghouse Standard Technical Specifications. Another change to TS 3.5.3.d. is made by substituting "transferring suction" for the words "being manually or automatically realigned to the suction." This change is made for consistency with and is in accordance with Westinghouse Standard Technical Specifications.

The NRC staff has reviewed these changes and finds that they are clarifying in nature and therefore, are acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the use of a facility component located within the restricted area as defined in 10 CFR Part 20 and a change in an administrative procedure or requirement. The staff has determined that this amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sections 51.22(c)(9) and (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 this amendment.

CONCLUSION

We have 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, and
(2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: July 22, 1986

Principal Contributor:

Jon B. Hopkins, Project Directorate #2, DPLA