

DEC 6 1982

Docket No. 50-395

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WMiller
IDinitz
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TBarnhart (4).

Mr. O. W. Dixon, Jr.
Vice President Nuclear Operations
South Carolina Electric and Gas Company
Post Office Box 764
Columbia, South Carolina 29218

Dear Mr. Dixon:

Subject: Issuance of Amendment No. 7 to Facility Operating License NPF-12
Virgil C. Summer Nuclear Station, Unit No. 1

The Nuclear Regulatory Commission has issued Amendment No. 7 to Facility Operating License NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1 located in Fairfield County, South Carolina.

This amendment is in response to your letter dated October 19, 1982. This amendment provides for a range on the content of hydrogen and oxygen in the standard gas samples used in the channel calibration of the hydrogen and oxygen monitors in the waste gas holdup system explosive gas monitoring system as required by the Technical Specifications.

A copy of the related safety evaluation supporting Amendment No. 7 to Facility Operating License NPF-12 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,
15/

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

- Enclosures:
1. Amendment No. 7
 2. Safety Evaluation
 3. Federal Register Notice

cc w/enclosure:
See next page

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OFFICE	DL:LB#1	DL:LB#1	OELD	DL:LB#1	DL:AD		
SURNAME	WKane:cw	MRushbrook	GO-00316	BJYoungblood	TMovak		
DATE	11/24/82	11/24/82	11/30/82	12/6/82	12/6/82		

Mr. O. W. Dixon, Jr.
Vice President, Nuclear Operations
South Carolina Electric & Gas Company
Post Office Box 764 (Mail Code F-04)
Columbia, South Carolina 29218

DEC 6 1982

cc: Mr. Henry Cyrus
Senior Vice President
South Carolina Public Service Authority
223 North Live Oak Drive
Moncks Corner, South Carolina 29461

J. B. Knotts, Jr., Esq.
Debevoise & Liberman
1200 17th Street, N. W.
Washington, D. C. 20036

Mr. Mark B. Whitaker, Jr.
Group Manager - Nuclear Engineering & Licensing
South Carolina Electric & Gas Company
Post Office Box 764
Columbia, South Carolina 29218

Mr. Brett Allen Bursey
Route 1, Box 93C
Little Mountain, South Carolina 29076

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

Mr. James P. O'Reilly
U. S. NRC, Region II
101 Marietta Street
Suite 3100
Atlanta, Georgia 30303

Mr. R. W. Knapp
Combustion Engineering, Inc.
1000 Prospect Hill Road
Windsor, Connecticut 06095-0500

DEC 6 1982

Chairman, Fairfield County Council
Post Office Box 293
Winnsboro, South Carolina 29180

State Clearinghouse
Office of the Governor
Division of Administration
1205 Pendleton Street, 4th Floor
Columbia, South Carolina 29201

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

Director, Criteria & Standards (ANR-460)
Office of Radiation Programs
U. S. Environmental Protection Agency
Washington, D. C. 20460

Director, Eastern Environmental Radiation
Facility
U. S. Environmental Protection Agency
Post Office Box 3009
Montgomery, Alabama 36193

EIS Review Coordinator
U. S. Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30308

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. 7
License No. NPF-12

1. The 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) Facility Operating License No. NPF-12 filed by the South Carolina Electric & Gas Company acting for itself and South Carolina Public Service Authority (the licensees), dated October 19, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application as amended, the provisions of the Act, and the 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 set forth in 10 CFR Chapter I;
 - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The issuance of this license 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 page change to the Technical Specifications as indicated in the attachments to this license amendment. 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. 7, are hereby incorporated into this license. South Carolina Electric & Gas Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

15/
B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Attachment:
Technical Specification
Changes

Date of Issuance: DEC 6 1982

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DATE	11/24/82	11/24/82	11/30/82	12/6/82			

ATTACHMENT TO LICENSE AMENDMENT NO. 7

FACILITY OPERATING LICENSE NO. NPF-12

DOCKET NO. 50-395

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the area of the change.

Amended
Page

3/4 3-79

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USGPO: 1981-335-960

INSTRUMENTATION

TABLE 4.3-9 (Continued)

TABLE NOTATION

* At all times.

** During waste gas holdup system operation (treatment for primary system offgases).

- (1) The ANALOG CHANNEL OPERATIONAL TEST shall also demonstrate that automatic isolation of this pathway and control room alarm annunciation occurs if any of the following conditions exists:
 1. Instrument indicates measured levels above the alarm/trip setpoint.
 2. Loss of Power (alarm only).
 3. Instrument indicates a downscale failure (alarm only).
 4. Instrument controls not set in operate mode.
- (2) The ANALOG CHANNEL OPERATIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
 1. Instrument indicates measured levels above the alarm setpoint.
 2. Loss of Power.
 3. Instrument indicates a downscale failure.
 4. Instrument controls not set in operate mode.
- (3) The initial CHANNEL CALIBRATION shall be performed using one or more of the reference standards certified by the National Bureau of Standards or using standards that have been obtained from suppliers that participate in measurement assurance activities with NBS. These standards shall permit calibrating the system over its intended range of energy and measurement range. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration shall be used.
- (4) The CHANNEL CALIBRATION shall include the use of standard gas samples containing a nominal:
 1. 1500 ± 30 ppm hydrogen, balance nitrogen, for the outlet hydrogen monitor and
 2. 4 ± 0.1 volume percent hydrogen, balance nitrogen for the inlet hydrogen monitor.
- (5) The CHANNEL CALIBRATION shall include the use of standard gas samples containing a nominal:
 1. 75 ± 1.5 ppm oxygen, balance nitrogen, for the outlet oxygen monitor and
 2. 3.5 ± 0.1 volume percent oxygen, balance nitrogen for the inlet oxygen monitor.

INSTRUMENTATION

LOOSE-PART DETECTION INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.10 The loose-part detection system shall be OPERABLE.

APPLICABILITY: MODES 1 and 2

ACTION:

- a. With one or more loose part detection system channels inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.10 Each channel of the loose-part detection system shall be demonstrated OPERABLE by performance of:

- a. A CHANNEL CHECK at least once per 24 hours,
- b. An ANALOG CHANNEL OPERATIONAL TEST at least once per 31 days, and
- c. A CHANNEL CALIBRATION at least once per 18 months.

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 7
TO LICENSE NPF-12
SOUTH CAROLINA ELECTRIC & GAS COMPANY
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

INTRODUCTION

By letter, dated October 19, 1982, the South Carolina Electric & Gas Company (SCE&G) requested a change to the Technical Specifications to provide for a tolerance on the hydrogen and oxygen content of the standard gas samples used in the channel calibration of the hydrogen and oxygen monitors in the waste gas holdup system explosive gas monitoring system.

EVALUATION

The surveillance requirements for the hydrogen and oxygen monitors on page 3/4 3-79 require in part the conduct of a periodic channel calibration of the containment hydrogen monitors using standard gas samples. The licensee in its letter of October 19, 1982 requested that this surveillance requirements be changed to provide acceptable tolerances to be used in the procurement of the sample gases used for calibration of the instruments.

We have reviewed the above change and conclude that it is administrative in nature and consistent with the basis for our approval of the design of the waste gas holdup system explosive gas monitoring system during the operating license stage of review.

ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

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CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered, does not create the possibility of an accident of a type different from any evaluated previously and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be 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.

DATE: DEC 6 1982

*SEE PREVIOUS PAGE FOR CONCURRENCES

OFFICE	DL:LB#1	DL:LB#1	DL:LB#1	ETSB			
SURNAME	WKane:cw*	MRushbrook*	BJYoungblood*	WGammill*			
DATE	11/24/82	11/24/82	12/06/82	11/24/82			

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-395VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1NOTICE OF ISSUANCE OF AMENDMENT TO
FACILITY OPERATING LICENSE NO. NPF-12

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 7 to Facility Operating License No. NPF-12, issued to South Carolina Electric & Gas Company and South Carolina Public Service Authority (the licensees) for the Virgil C. Summer Nuclear Station, Unit No. 1 (the facility) located in Fairfield County, South Carolina. This amendment modifies the Technical Specifications to provide for a tolerance on the hydrogen and oxygen content of the standard gas samples used in the calibration of the hydrogen and oxygen monitors in the waste gas holdup system explosive gas monitoring system. The amendment is effective as of its date of issuance.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5 (d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

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For further details with respect to this action, see (1) South Carolina Electric & Gas Company letter, dated October 20, 1982, (2) Amendment No. 7 to Facility Operating License No. NPF-12 with Appendix A Technical Specifications page change, and (3) the Commission's related safety evaluation.

All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555 and the Fairfield County Library, Garden and Washington Streets, Winnsboro, South Carolina 29180. A copy of Amendment No. 7 may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 6th day of December 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

OFFICE	DL:LB#1	DL:LB#1	OELD	DL:LB#1	DL:AD/L		
SURNAME	W Kane: cw	MRdshovok	Goldstein	BJYoungblood	TNovak		
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*does not create
the possibility
of an accident of a
type different from
any evaluated
previously*

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be 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.

DATE:

OFFICE	DL:LB#1	DL:LB#1	DL:LB#1	ETSB			
SURNAME	W Kane: cw	MRushbrook	BJYoungblood	WGamm			
DATE	11/24/82	11/24/82	11/24/82	11/24/82			