

January 12, 1983

Docket No. 50-395

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

Dear Mr. Dixon:

Subject: Issuance of Amendment No. 8 to Facility Operating License NPF-12 Virgil C. Summer Nuclear Station, Unit No. 1

The Nuclear Regulatory Commission has issued Amendment No. 8 to Facility Operating License NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1 located in Fairfield County, South Carolina. The amendment consists of changes to the Technical Specifications in response to your application telecopied to us on December 28, 1982. The amendment was authorized by telephone on December 28, 1982, and was confirmed by letter dated December 29, 1982.

The amendment authorizes, through July 1, 1983, operation of the facility with certain containment isolation valves inoperable. The amendment was issued on an expedited basis so the facility could change power modes.

A copy of the related safety evaluation supporting Amendment No. 8 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,

*S/R. Herman*  
*for*  
Elinor G. Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing

Enclosures:

1. Amendment No. 8
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosure:  
See next page

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SUMMER

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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. 8  
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 December 28, 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:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 8, are hereby incorporated into this license. South

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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 December 28, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

*S/R. Herman*  
*for*  
Elinor G. Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing

Enclosure:  
Technical Specification  
Changes

Date of Issuance: January 12, 1983

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DATE	1/12/83	1/3/83	1/4/83	1/10/83	1/21/83		

ATTACHMENT TO LICENSE AMENDMENT NO. 8

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 pages are identified by Amendment number and contain vertical lines indicating the area of change.

Amended  
Page

3/4 6-20  
3/4 6-20c

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TABLE 3.6-1 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>		<u>FUNCTION</u>	<u>MAXIMUM</u>
<u>A. PHASE "A" ISOLATION (Continued)</u>			<u>ISOLATION TIME</u>
			<u>(SEC)</u>
31.	9312A-SS	Sampling Line Supply Return From Radiation Monitor	40
32.	9312B-SS	Sampling Line Return Return From Radiation Monitor	40
33.	9339-SS	Sample Return Line To PRT	40
34.	9341-SS	Sample Return Line To PRT	40
35.	9356A-SS	Sampling Line From Pressurizer	40
36.	9356B-SS	Sampling Line From Pressurizer	40
37.	9357-SS	Sampling Line From Pressurizer	40
38.	9364B-SS	Sampling Lines From Reactor Coolant Loop B	40
39.	9365B-SS	Sampling Lines From Reactor Coolant Loop B	40
40.	9364C-SS	Sampling Lines From Reactor Coolant Loop C	40
41.	9365C-SS	Sampling Lines From Reactor Coolant Loop C	40
42.	9387-SS	Sampling Line From Accumulators	40
43.	9398A-SS # (3)	Sampling Line From Steam Generator A Blowdown	40
44.	9398B-SS # (3)	Sampling Line From Steam Generator B Blowdown	40
45.	9398C-SS # (3)	Sampling Line From Steam Generator C Blowdown	40
46.	7126-WL	Reactor Coolant Drain Tank Vent Header	40
47.	7150-WL	Reactor Coolant Drain Tank Vent Header	40
48.	1003-WL	Reactor Coolant Drain Tank Discharge To Waste	40
49.	7136-WL	Reactor Coolant Drain Tank Discharge To Waste	40
<u>B. PHASE "B" ISOLATION</u>			
1.	9568-CC	Component Cooling To R. C. Pumps Bearings	60
2.	9600-CC	Component Cooling To R. C. Pumps	60
3.	9605-C	Component Cooling From R. C. Pumps Bearings	60
4.	9606-CC	Component Cooling From R. C. Pumps Bearings	60
5.	1633A-FW #	Chemical Feed Line To Feedwater Loop A	60
6.	1633B-FW #	Chemical Feed Line To Feedwater Loop B	60
7.	1633C-FW #	Chemical Feed Line To Feedwater Loop C	60
<u>C. REACTOR BUILDING PURGE SUPPLY AND EXHAUST ISOLATION</u>			
1.	0001A-AH	Reactor Building Purge Supply	5
2.	0001B-AH	Reactor Building Purge Supply	5
3.	0002A-AH	Reactor Building Purge Exhaust	5

TABLE 3.6-1 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (SEC)</u>
1. 7541-AC	CRDM Coolant Water Inlet Line	N/A
2. 7544-AC	CRDM Coolant Water Outlet Line	N/A
3. 9570-CC	Component Cooling To R. C. Pump Bearings	N/A
4. 9689-CC	Component Cooling From R. C. Pump Bearings	N/A
5. 8103-CS	Reactor Coolant Pump Seal Water Return	N/A
6. 8368A-CS	Seal Injection To R. C. Pump A	N/A
7. 8368B-CS	Seal Injection To R. C. Pump B	N/A
8. 8368C-CS	Seal Injection To R. C. Pump C	N/A
9. 8381-CS	Charging Line To Regenerative Heat Exchanger	N/A
10. 6799-FS	Fire Service Deluge To Charcoal Filters	N/A
11. 2661-IA	Instrument Air Supply To Reactor Building	N/A
12. 6588-NG	Nitrogen Supply To Steam Generators	N/A
13. 8046-RC	Pressurizer Relief Tank Makeup Water Line	N/A
14. 2913-SA	Service Air Supply To Reactor Building	N/A
15. 3009A-SP	Supply To Reactor Building Spray Nozzles	N/A
16. 3009B-SP	Supply To Reactor Building Spray Nozzles	N/A
17. 8947-SI	Accumulator Nitrogen Supply	N/A
18. 8861-SI	Fill Line To Accumulators	N/A

#Valve not subject to Type "C" leakage test.

- (1) Manual valves may be opened on an intermittent basis under administrative control.
- (2) Remote manual valve positions are maintained by administrative control.
- (3) The provisions of Specification 3.0.4 are not applicable from December 28, 1982, until July 1, 1983.

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 8 TO FACILITY OPERATING LICENSE NPF-12

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

INTRODUCTION

By telecopied letter dated December 28, 1982, the South Carolina Electric & Gas Company (SCE&G) requested a change to the Technical Specifications. The change would add a footnote (3) to Table 3.6-1 for valves 9398A-SS, 9398B-SS, and 9398C-SS to read:

The provisions of Specification 3.0.4 are not applicable from December 28, 1982, until July 1, 1983.

BACKGROUND

Containment isolation valves 9398A-SS and 9398B-SS, sampling line from steam generator A and B respectively, were recently declared inoperable because they were not able to close within the 40 seconds allowed by Technical Specification Table 3.6-1. Action statement 3.6.4.c states that plant operation may continue with one or more containment isolation valves inoperable provided that each affected penetration is isolated by at least one manual closed valve.

The licensee complied with the action statement and continued plant operation.

On December 28, 1982, the Summer plant tripped due to a personnel error. According to Specification 3.0.4, plant startup may not take place because the plant is relying on provisions contained in the action statement.

Repair of the isolation valve was the critical path for plant startup. Only one of the two replacement valves was onsite. This condition posed an economic concern for SCE&G and the South Carolina Public Service Authority (SCPSA). Because SCE&G's generating configuration allowed several fossil units to be shut down, the licensee was required to purchase 300 MWe from neighboring utilities and operate a pumped storage facility to replace the Virgil C. Summer Nuclear Station's output. Those sources of energy were limited.

On December 28, 1982, the licensee requested a Technical Specification change to allow plant startup with these two containment isolation valves inoperable.

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EVALUATION

The licensee's proposed basis for requesting an exemption to Specification 3.0.4 is as follows:

1. the sample lines involved are small (3/8") high pressure secondary system lines that are exempt from 10 CFR 50 Appendix J, Type C testing requirements.
2. these valves are currently in their containment isolation position (closed).
3. these lines are equipped with manual isolation valves downstream which have also been closed.
4. continuous operation is allowed within the action statement indicating that the safety concern is that the valves are isolated in their safety position, not that they are immediately restored in operation.
5. alternate methods for sampling exist which provide representative samples and do not increase operator dose rates, namely via the Steam Generator Blowdown System through valves 550-A-BD and 550D-BD or 10512-BD and 10513-BD for steam generator A and 550B-BD and 550E-BD or 1054-BD and 10515-BD for steam generator B and 550C-BD and 550F-BD or 10516-BD and 10517-BD for steam generator C.

Although only two of the three steam generator sample line isolation valves are inoperable, the licensee has requested that the change be applicable for all three isolation valves as a precautionary measure.

We concur with the licensee that restart of the Virgil C. Summer Nuclear Station is the most feasible means of supplying the power needs. The proposed Technical Specification change states that this one-time only exemption will only last through July 1, 1983. It is our understanding that the licensee plans to shutdown in late March 1983 or early April 1983 to perform steam generator modifications. The licensee states that this is when the valve replacement will take place.

We agree that safe operation may be conducted with these valves in the closed position. Also, as stated above, steam generator sampling will not be interrupted as a result of this change. Therefore, we feel the proposed change to be acceptable.

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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 §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.

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 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.

Date: January 12, 1983

Principal Contributors: Jon Hopkins, Licensing Branch No. 4, DL  
Douglas Pickett, Operating Reactors Assessment Branch, DL

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-395

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

NOTICE OF ISSUANCE OF AMENDMENT TO

FACILITY OPERATING LICENSE NO. NPF-12

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 8 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. The amendment was authorized by telephone on December 28, 1982, and was confirmed by letter on December 29, 1982. The amendment authorizes, through July 1, 1983, operation of the facility with certain containment isolation valves inoperable. The amendment was issued on an expedited basis so the facility could change power modes. The amendment was effective December 28, 1982.

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 December 28, 1982, (2) Amendment No. 8 to Facility Operating License No. NPF-12 with Appendix A Technical Specifications page changes, 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. 8 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 10<sup>th</sup> day of January 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

Ronald W. Hernan, Acting Chief  
Licensing Branch No. 4  
Division of Licensing

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*Amended  
to CB Notice  
only*

January 3, 1983

Docket Nos: 50-395

DISTRIBUTION:  
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MEMORANDUM FOR: Thomas M. Novak, Assistant Director  
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Division of Licensing

THRU: Elinor G. Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing

FROM: Jon Hopkins, Project Manager  
Licensing Branch No. 4  
Division of Licensing

SUBJECT: ISSUANCE OF AMENDMENT NO. 8 TO FACILITY OPERATING  
LICENSE NPF-12, VIRGIL C. SUMMER NUCLEAR STATION,  
UNIT 1

Regarding the issuance of subject amendments, there is no known public  
correspondence or irreversible impact associated with this subject.

*sl*

Jon Hopkins, Project Manager  
Licensing Branch No. 4  
Division of Licensing

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DATE	1/3/83	1/3/83	1/6/83				

AMENDMENT NO. 8 TO FACILITY OPERATING LICENSE NPF-12 - Virgil C. Summer Unit 1

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