

June 8, 1987

Docket Nos.: 50-269, 50-270  
and 50-287

Mr. H. B. Tucker, Vice President  
Nuclear Production Department  
Duke Power Company  
422 South Church Street  
Charlotte, North Carolina 28242

Dear Mr. Tucker:

Subject: Issuance of Amendment Nos. 159, 159, and 156 to Facility Operating  
Licenses DPR-38, DPR-47, and DPR-55 - Oconee Nuclear Station, Units 1,  
2, and 3 (TAC Nos. 63544, 63545, 63546)

The Nuclear Regulatory Commission has issued the enclosed Amendment Nos.  
159, 159, and 156 to Facility Operating Licenses Nos. DPR-38, DPR-47 and  
DPR-55 for the Oconee Nuclear Station, Units 1, 2, and 3. These amendments  
consist of changes to the Station's common Technical Specifications (TSs)  
in response to your request dated February 10, 1986, as supplemented August 20,  
1986.

The amendments modify the TSs to (1) revise TS 3.1.12.1(a), (b) and (d) to indicate  
that three subcooling margin monitors are now available over the previous two  
monitors and reflect the actual plant design and (2) delete TS 3.1.12.1(c) to  
no longer require a 30-day report for outages of less than 4 hours of the  
Operational Aid Computer. Also TS 3.1.12.1(d) has been redesignated as  
TS 3.1.12.1(c) because TS 3.1.12.1(c) has been deleted.

A copy of our Safety Evaluation is also enclosed. Notice of issuance of the  
enclosed amendments will be included in the Commission's bi-weekly Federal  
Register notice.

Sincerely,

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Helen N. Pastis, Project Manager  
Project Directorate II-3  
Division of Reactor Projects - I/II

Enclosures:

1. Amendment No. 159 to DPR-38
2. Amendment No. 159 to DPR-47
3. Amendment No. 156 to DPR-55
4. Safety Evaluation

cc w/enclosures: See next page

\*SEE PREVIOUS CONCURRENCE

PDII-3/DRP-I/II

PDII-3/DRP-I/II

\*MDuncan/rad

\*HPastis

04/21/87

04/21/87

PDII-3/DRP-I/II

BJYoungblood

04/21/87

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P PDR

Mr. H. B. Tucker  
Duke Power Company

Oconee Nuclear Station  
Units Nos. 1, 2 and 3

cc:

Mr. A. V. Carr, Esq.  
Duke Power Company  
P. O. Box 33189  
422 South Church Street  
Charlotte, North Carolina 28242

Mr. Paul Guill  
Duke Power Company  
Post Office Box 33189  
422 South Church Street  
Charlotte, North Carolina 28242

J. Michael McGarry, III, Esq.  
Bishop, Liberman, Cook, Purcell & Reynolds  
1200 Seventeenth Street, N.W.  
Washington, D.C. 20036

Mr. Robert B. Borsum  
Babcock & Wilcox  
Nuclear Power Generation Division  
Suite 220, 7910 Woodmont Avenue  
Bethesda, Maryland 20814

Manager, LIS  
NUS Corporation  
2536 Countryside Boulevard  
Clearwater, Florida 33515

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
Route 2, Box 610  
Seneca, South Carolina 29678

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

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

Office of Intergovernmental Relations  
116 West Jones Street  
Raleigh, North Carolina 27603

Honorable James M. Phinney  
County Supervisor of Oconee County  
Walhalla, South Carolina 29621

DATED: June 8, 1987

AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE DPR-38 - Oconee Nuclear Station, Unit 1  
AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE DPR-47 - Oconee Nuclear Station, Unit 2  
AMENDMENT NO. 156 TO FACILITY OPERATING LICENSE DPR-55 - Oconee Nuclear Station, Unit 3

DISTRIBUTION:

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A. Cappucci



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

DUKE POWER COMPANY

DOCKET NO. 50-269

OCONEE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 159  
License No. DPR-38

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Oconee Nuclear Station, Unit 1 (the facility) Facility Operating License No. DPR-38 filed by the Duke Power Company (the licensee) dated February 10, 1986, as supplemented on August 20, 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 set forth in 10 CFR Chapter 1;
  - 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; 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 attachments to this license amendment, and Paragraph 3.B of Facility Operating License No. DPR-38 is hereby amended to read as follows:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 159, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

(S)

B.J. Youngblood, Director  
Project Directorate II-3  
Division of Reactor Projects - I/II

Attachment:  
Technical Specification  
Changes

Date of Issuance: June 8, 1987

PDII-3/DRP-I/II  
MDuncan/rad  
04/2/87

PDII-3/DRP-I/II  
RPastis  
04/2/87

w/changes noted in SE.  
Do not issue until 6/5/87  
OGC-Bethesda  
BJYoungblood  
04/23/87  
04/4/87



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

DUKE POWER COMPANY

DOCKET NO. 50-270

OCONEE NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 159  
License No. DPR-47

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Oconee Nuclear Station, Unit 2 (the facility) Facility Operating License No. DPR-47 filed by the Duke Power Company (the licensee) dated February 10, 1986, as supplemented on August 20, 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 set forth in 10 CFR Chapter 1;
  - 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; 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 attachments to this license amendment, and Paragraph 3.B of Facility Operating License No. DPR-47 is hereby amended to read as follows:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 159, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

(S)  
B.J. Youngblood, Director  
Project Directorate II-3  
Division of Reactor Projects - I/II

Attachment:  
Technical Specification  
Changes

Date of Issuance: June 8, 1987

PDII-3/DRP-I/II  
MDuncan/rad  
04/21/87

PDII-3/DRP-I/II  
HPastis  
04/21/87

w/ change to SE  
OGC-Bethesda  
04/23/87

PDII-3/DRP-I/II  
BJYoungblood  
04/24/87



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

DUKE POWER COMPANY

DOCKET NO. 50-287

OCONEE NUCLEAR STATION, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 156  
License No. DPR-55

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Oconee Nuclear Station, Unit 3 (the facility) Facility Operating License No. DPR-55 filed by the Duke Power Company (the licensee) dated February 10, 1986, as supplemented on August 20, 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 set forth in 10 CFR Chapter 1;
  - 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; 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 attachments to this license amendment, and Paragraph 3.B of Facility Operating License No. DPR-55 is hereby amended to read as follows:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 156, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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B.J. Youngblood, Director  
Project Directorate II-3  
Division of Reactor Projects - I/II

Attachment:  
Technical Specification  
Changes

Date of Issuance: June 8, 1987

PDII-3/DRP-I/II  
MDuncan/rad  
04/2/87

PDII-3/DRP-I/II  
H. B. Stis  
04/2/87

w/ noted changes to SE  
Do not issue until 6/5/87  
OGC-Bethesda  
04/23/87

PDII-3/DRP-I/II  
BJYoungblood  
04/4/87

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 159 TO DPR-38

AMENDMENT NO. 159 TO DPR-47

AMENDMENT NO. 156 TO DPR-55

DOCKET NOS. 50-269, 50-270, AND 50-287

Replace the following page of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by amendment number and contains a vertical line indicating the area of change.

Remove  
Page

3.1-24

Insert  
Page

3.1-24

3.1.12      Reactor Coolant System Subcooling Margin Monitor

Specification

- 3.1.12.1      a.    A minimum of two of the three Reactor Coolant System subcooling monitors (Loop "A" temperature, Loop "B" temperature, and Core temperature) shall be operable when the average RCS coolant temperature is above 300°F.
- b.    If only one monitor is operable, at least one other monitor shall be restored to operable status within seven days or the unit shall be in hot shutdown within the next 12 hours.
- c.    If all of the subcooling monitors are inoperable, then restore at least one monitor to operable status within 48 hours or be in at least hot shutdown within the next 12 hours.

Bases

The operability requirements of the Reactor Coolant System subcooling margin monitors ensures that sufficient information is available to the operators to provide prompt recognition of saturated conditions in the primary coolant system and advanced warning of the approach to inadequate core cooling. Guidance for these requirements was provided by the NRC letter of July 2, 1980, and derived from the implementation of the TMI-2 lessons learned program.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE NO. DPR-38

AMENDMENT NO. 159 TO FACILITY OPERATING LICENSE NO. DPR-47

AMENDMENT NO. 156 TO FACILITY OPERATING LICENSE NO. DPR-55

DUKE POWER COMPANY

OCONEE NUCLEAR STATION, UNITS 1, 2, and 3

DOCKET NOS. 50-269, 50-270 AND 50-287

I. INTRODUCTION

By letter dated February 10, 1986 as supplemented on August 20, 1986, Duke Power Company (the licensee) proposed changes to the Technical Specifications (TS) of Facility Operating License Nos. DPR-38, DPR-47 and DPR-55 for the Oconee Nuclear Station, Units 1, 2, and 3. These amendments would consist of changes to the Station's common TSs and would authorize these proposed changes (1) to revise TS 3.1.12.1(a), (b) and (d) to indicate that three subcooling margin monitors are now available over the previous two monitors and reflect the actual plant design; and (2) to delete TS 3.1.12.1(c) to no longer require a 30-day report for outages of less than 4 hours of the Operational Aid Computer. Also TS 3.1.12.1(d) has been redesignated as TS 3.1.12.1(c) because TS 3.1.12.1(c) has been deleted.

II. EVALUATION

2.1 Deletion of TS 3.1.12.1(c)

The U.S. Nuclear Regulatory Commission revised the regulations for reactor plant reporting requirements by changes to 10 CFR Part 50.72 "Immediate Notification Requirements for Operating Nuclear Power Reactors" and added a new regulation 10 CFR Part 50.73, "Licensee Event Report System." These revisions became effective on January 1, 1984. The revisions to the regulations eliminated the necessity for TSs on reporting an event which requires shutdown of the plant because of Limiting Conditions for Operation (LCOs). This revision to the regulations makes the requirement in the Oconee TSs to report an outage of the subcooling margin monitors redundant, and therefore, TS 3.1.12.1(c) may be deleted. We find deletion of TS 3.1.12.1(c) acceptable.

2.2 Revision of TS 3.1.12.1(d)

As discussed in Section 2.1 above, TS 3.1.12.1(c) has been deleted. Because of this revision the licensee has proposed to change TS 3.1.12.1(d) to TS 3.1.12.1(c). We find this editorial change acceptable.

2.3 Revision to TSs 3.1.12.1.(a), (b), and (d) to reflect actual plant design.

Other changes to TS 3.1.12.1 were proposed by the licensee to reflect the actual plant design which includes three subcooling margin monitors instead of two. The monitors consist of reactor coolant loop "A" temperature, reactor coolant loop "B" temperature, and core outlet temperature. Application of the revised TSs will still assure operability of the subcooling margin monitors by "Action Statements" requiring that if only one monitor is operable another must be made operable within seven days, or be in a hot shutdown within 12 hours. Also, if all subcooling margin monitors are inoperable, then one monitor must be restored to operable status within 40 hours, or be in a hot shutdown within 12 hours. Based upon maintaining the assurance of operability of the subcooling monitors, we find these proposed changes acceptable.

2.4 Summary

Therefore, we find acceptable the proposed amendments to delete TS 3.1.12.1(c) which allows inoperability of two subcooling margin monitors because of the Operational Aid Computer being out-of-service for less than four hours without having to prepare a report per TS 6.6.2; to rewrite TSs 3.1.12.1(a), 3.1.12.1(b), and 3.1.12.1(d) to reflect the actual plant design and include three reactor coolant subcooling margin monitors and change TS 3.1.12.1(d) to TS 3.1.12.1(c).

III. ENVIRONMENTAL CONSIDERATION

These amendments involve a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. We have determined that the amendments involve 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 these amendments involve no significant hazards consideration, and there has been no public comment on such finding. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

IV. CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (52 FR 16942) on May 6, 1987, and consulted with the state of South Carolina. No public comments were received, and the state of South Carolina did not have any comments.

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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Dated: June 8, 1987

Principal Contributors: A. Cappucci  
H. Pastis