

Docket Nos.: 50-413
and 50-414

May 28, 1987

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 No. 28 to Facility Operating License NPF-35
and Amendment No. 19 to Facility Operating License NPF-52 - Catawba
Nuclear Station, Units 1 and 2 (TACS 63784/63785)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 28 to Facility Operating License NPF-35 and Amendment No. 19 to Facility Operating License NPF-52 for the Catawba Nuclear Station, Units 1 and 2. These amendments consist of changes to the Technical Specifications in response to your application dated November 17, 1986.

The amendments modify Table 4.4-5 of Technical Specification 3/4.4.9, "Pressure/Temperature Limits," to provide a revised reactor vessel surveillance capsule withdrawal schedule for Catawba, Units 1 and 2. The amendments are effective as of the date of issuance.

A copy of the related safety evaluation supporting Amendment No. 28 to Facility Operating License NPF-35 and Amendment No. 19 to Facility Operating License NPF-52 is enclosed.

Notice of issuance will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

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Kahtan N. Jabbour, Project Manager
Project Directorate II-3
Division of Reactor Projects I/II

Enclosures:

1. Amendment No. 28 to NPF-35
2. Amendment No. 19 to NPF-52
3. Safety Evaluation

cc w/encl:
See next page

DISTRIBUTION:
See attached page

PDII-3/DRPI/II
MDuncan/rad
05/15/87

PDII-3/DRPI/II
KJabbour
05/18/87

PDII-3/DRPI/II
BJYoungblood
05/28/87

Mr. H. B. Tucker
Duke Power Company

Catawba Nuclear Station

cc:

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

DUKE POWER COMPANY

NORTH CAROLINA ELECTRIC MEMBERSHIP CORPORATION

SALUDA RIVER ELECTRIC COOPERATIVE, INC.

DOCKET NO. 50-413

CATAWBA NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 28
License No. NPF-35

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Catawba Nuclear Station, Unit 1 (the facility) Facility Operating License No. NPF-35 filed by the Duke Power Company acting for itself, North Carolina Electric Membership Corporation and Saluda River Electric Cooperative, Inc., (licensees) dated November 17, 1986, 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 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 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 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 changes to the Technical Specifications as indicated in the attachments to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-35 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. 28, and the Environmental Protection Plan

contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. Duke Power 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

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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: May 28, 1987

MD
PDII-3/DRPI/II
MDuncan/rad
05/15/87

KNS
PDII-3/DRPI/II
KJabbour
05/18/87

MJ
OGC-Bethesda
MYoung
05/20/87

BJY
PDII-3/DRPI/II
BJYoungblood
05/28/87



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

DUKE POWER COMPANY

NORTH CAROLINA MUNICIPAL POWER AGENCY NO. 1

PIEDMONT MUNICIPAL POWER AGENCY

DOCKET NO. 50-414

CATAWBA NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 19
License No. NPF-52

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Catawba Nuclear Station, Unit 2 (the facility) Facility Operating License No. NPF-52 filed by the Duke Power Company acting for itself, North Carolina Municipal Power Agency No. 1 and Piedmont Municipal Power Agency, (licensees) dated November 17, 1986 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 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 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 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 changes to the Technical Specifications as indicated in the attachments to this license amendment and Paragraph 2.C.(2) of Facility Operating License No. NPF-52 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. 19, and the Environmental Protection Plan

contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. Duke Power 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

151

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

Attachment:
Technical Specification Changes

Date of Issuance: May 28, 1987

MD
PDII-3/DRPI/II
MDuncan/rad
05/15/87

KNJ
PDII-3/DRPI/II
KJabbour
05/18/87

MY
OGC-Bethesda
M Young
05/20/87

BJY
PDII-3/DRPI/II
BJYoungblood
05/28/87

ATTACHMENT TO LICENSE AMENDMENT NO. 28

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND

TO LICENSE AMENDMENT NO. 19

FACILITY OPERATING LICENSE NO. NPF-52

DOCKET NO. 50-414

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised page is identified by Amendment number and contains vertical lines indicating the areas of change. The corresponding overleaf page is also provided to maintain document completeness.

Amended
Page

3/4 4-35

Overleaf
Page

3/4 4-36

TABLE 4.4-5

REACTOR VESSEL MATERIAL SURVEILLANCE PROGRAM - WITHDRAWAL SCHEDULE

<u>CAPSULE NUMBER</u>	<u>VESSEL LOCATION</u>	<u>LEAD FACTOR</u>	<u>WITHDRAWAL TIME (EFPY)</u>
U	58.5°	4	Standby
V	61°	3.69	9
W	121.5°	4	Standby
X	238.5°	4	Standby
Y	241°	3.69	6
Z	301.5°	4	First Refueling

CATAMBA - UNITS 1 & 2

3/4 4-35

Amendment No. 28 (Unit 1)
 Amendment No. 19 (Unit 2)

REACTOR COOLANT SYSTEM

PRESSURIZER

LIMITING CONDITION FOR OPERATION

3.4.9.2 The pressurizer temperature shall be limited to:

- a. A maximum heatup of 100°F in any 1-hour period, and
- b. A maximum cooldown of 200°F in any 1-hour period.

APPLICABILITY: At all times.

ACTION:

With the pressurizer temperature limits in excess of any of the above limits, restore the temperature to within the limits within 30 minutes; perform an engineering evaluation to determine the effects of the out-of-limit condition on the structural integrity of the pressurizer; determine that the pressurizer remains acceptable for continued operation or be in at least HOT STANDBY within the next 6 hours and reduce the pressurizer pressure to less than 500 psig within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.4.9.2 The pressurizer temperatures shall be determined to be within the limits at least once per 30 minutes during system heatup or cooldown.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 28 TO FACILITY OPERATING LICENSE NPF-35
AND AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NPF-52
CATAWBA NUCLEAR STATION, UNITS 1 AND 2
DUKE POWER COMPANY, ET AL.

INTRODUCTION

By letter dated November 17, 1986, Duke Power Company, et al., (the licensee) proposed changes to Table 4.4-5 of Technical Specification (TS) 3/4.4.9, "Pressure/Temperature Limits," to provide a revised reactor vessel surveillance capsule withdrawal schedule for Catawba Units 1 and 2.

EVALUATION

The purpose of the material surveillance program required by Appendix H of 10 CFR 50 is to monitor changes in the fracture toughness properties of ferritic materials in the reactor vessel beltline region of light water nuclear power reactors resulting from exposure of these materials to neutron irradiation and the thermal environment. Under the program, fracture toughness test data are obtained from material specimens exposed in surveillance capsules, which are withdrawn periodically from the reactor vessel.

Table 4.4-5 of TS 3/4.4.9 contains the reactor vessel material surveillance capsule withdrawal schedule for Catawba Units 1 and 2. During the Catawba Unit 1 first refueling outage, an attempt was made by the licensee to remove surveillance capsule "U" in accordance with the withdrawal schedule in Table 4.4-5. However, during the withdrawal attempt, it was discovered that the tools could not reach capsule "U". In discussions with Westinghouse, the licensee concluded that Capsule "Z" had an identical Lead Factor, identical materials, and was exposed to a neutron flux profile similar to that of capsule "U". Thus, it was concluded that capsule "Z" would provide similar results as capsule "U" when examined. Given this information, the licensee decided to withdraw capsule "Z" and leave capsule "U" to be withdrawn at a later refueling, if necessary. The proposed changes to Table 4.4-5 interchange the withdrawal schedules between capsules "U" and "Z".

Capsule "U" was originally scheduled for withdrawal during the first refueling outage and Capsule "Z" was originally designated as a standby capsule. The revised Table 4.4-5 states that capsule "Z" was withdrawn during the first refueling outage and capsule "U" is designated as a standby capsule. The staff has evaluated the proposed changes to Table 4.4-5 and concurs with the licensee's conclusion that capsule "Z", having the same Lead Factor, materials, and neutron flux profile exposure as capsule "U", would produce test results similar to those of Capsule "U". Thus, the changes to Table 4.4-5 are acceptable. However, the licensee should commit, within six months from the date of these amendments, to have onsite the tools needed to remove the next surveillance capsule prior to the scheduled capsule withdrawal, including tools capable of removing capsule "U" if necessary.

ENVIRONMENTAL CONSIDERATION

The amendments involve a change in use of facility components located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The staff has 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 exposures. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there have been no public comments on such finding. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR Section 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 the amendments.

CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (52 FR 11360) on April 8, 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 the amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: Kahtan Jabbour, DRPI/II/PD-3
Samson Lee, DEST/EMTB

Dated: May 28, 1987

May 28, 1987

AMENDMENT NO. 28 TO FACILITY OPERATING LICENSE NPF-35 -
CATAWBA NUCLEAR POWER STATION, UNIT 1
AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NPF-52 -
CATAWBA NUCLEAR POWER STATION, UNIT 2

DISTRIBUTION: w/enclosures:

Docket Nos. 50-413/414

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