

July 18, 1989

Docket Nos.: 50-413
and 50-414

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. 67 TO FACILITY OPERATING LICENSE NPF-35
AND AMENDMENT NO. 61 TO FACILITY OPERATING LICENSE NPF-52 - CATAWBA
NUCLEAR STATION, UNITS 1 AND 2 (TACS 73255/73256)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 67 to Facility Operating License NPF-35 and Amendment No. 61 to Facility Operating License NPF-52 for the Catawba Nuclear Station, Units 1 and 2. These amendments consist of changes to the Technical Specifications (TS) in response to your application dated April 26, 1989.

The amendments modify TS Tables 3.3-7 and 4.3-4 to change the elevation at which seismic monitor 1MIMT 5010 is located. The amendments are effective as of their date of issuance.

A copy of the related safety evaluation supporting Amendment No. 67 to Facility Operating License NPF-35 and Amendment No. 61 to Facility Operating License NPF-52 is enclosed.

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

Sincerely,

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PDR ADDCK 05000413
P PNU

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

Enclosures:

1. Amendment No. 67 to NPF-35
2. Amendment No. 61 to NPF-52
3. Safety Evaluation

cc w/enclosures:
See next page

[CATAWBA AMEND 73255/73256]

LA:PDII-3
MRood
06/14/89

PM:PDII-3
KJabbour:bd
06/14/89

D:PDII-3
DMatthews
06/14/89
7/2/89

CPD



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. 67
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 April 26, 1989, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as 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 I;
 - 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 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

The Technical Specifications contained in Appendix A, as revised through Amendment No. 67, are hereby incorporated into the license. The licensee 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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David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification Changes

Date of Issuance: July 18, 1989

OFFICIAL RECORD COPY

LA:PDII-3
MR00d
06/14/89

KNJ
PM:PDII-3
KJabbour:bd
06/14/89

DEST:ESG
G. Bagchi
06/16/89

OGC*
BimBardick
06/22/89

Conditional
See NRC of
6-22-89

frb
D:PDII-3
DMatthews
06/18/89
07/2/89



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. 61
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 April 26, 1989, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as 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 I;
 - 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 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

The Technical Specifications contained in Appendix A, as revised through Amendment No. 61, are hereby incorporated into the license. The licensee 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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David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification Changes

Date of Issuance: July 18, 1989

OFFICIAL RECORD COPY

LA:PDII-3
MRood
06/14/89

PM:PDII-3
KJabbour:bd
06/14/89

DEST:ESGB
GBagchi
06/ /89

OGC
Bromberg
06/22/89
C. J. Thomas
See note
06-2284

for
D:PDII-3
DMatthews
06/18/89
7/2/89

ATTACHMENT TO LICENSE AMENDMENT NO. 67

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND

TO LICENSE AMENDMENT NO. 61

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

Amended Page

3/4 3-57

3/4 3-58

TABLE 3.3-7

SEISMIC MONITORING INSTRUMENTATION

<u>INSTRUMENTS AND SENSOR LOCATIONS</u>	<u>MEASUREMENT RANGE</u>	<u>MINIMUM INSTRUMENTS OPERABLE</u>
1. Triaxial Time-History Accelerographs		
a. 1MIMT 5070 (Remote Sensor A) Containment Base Slab	-1 g to + 1 g	1
b. 1MIMT 5080 (Remote Sensor B) Containment Vessel Elev 619'5"	-1 g to + 1 g	1
c. 1MIMT 5090 (Starter Unit) Containment Base Slab	0.005 g to 0.05 g	1
2. Triaxial Peak Accelerographs		
a. 1MIMT 5010 - Containment Bldg. Elev 588' + 6 1/8"	0 g to + 2 g	1
b. 1MIMT 5020 - Containment Bldg. Elev 567'2 1/2"	0 g to + 2 g	1
c. 1MIMT 5030 - Auxiliary Bldg. Elev 543'	0 g to + 2 g	1
3. Triaxial Seismic Switch		
1MIMT 5000 - Containment Base Slab	0.025 g to 0.25 g	1*
4. Triaxial Response-Spectrum Recorders		
a. 1MIMT 5040 - Containment Base Slab	0 to 34 g at 2 to 25 Hz	1*
b. 1MIMT 5050 - Containment Bldg. Elev 579'3 1/2"	0 to 34 g at 2 to 25 Hz	1
c. 1MIMT 5060 - Auxiliary Bldg. Elev 577'	0 to 34 g at 2 to 25 Hz	1

*With reactor control room indication.

TABLE 4.3-4

SEISMIC MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENTS AND SENSOR LOCATIONS</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>ANALOG CHANNEL OPERATIONAL TEST</u>
1. Triaxial Time-History Accelerographs			
a. 1MIMT 5070 (Remote Sensor A) Containment Base Slab	M*	R	SA
b. 1MIMT 5080 (Remote Sensor B) Containment Vessel Elev 619'5"	M*	R	SA
c. 1MIMT 5090 (Starter Unit) Containment Base Slab	N.A.	R	SA
2. Triaxial Peak Accelerographs			
a. 1MIMT 5010 - Containment Bldg. Elev 588' + 6 1/8"	N.A.	R	N.A.
b. 1MIMT 5020 - Containment Bldg. Elev 567' 2 1/2"	N.A.	R	N.A.
c. 1MIMT 5030 - Auxiliary Bldg. Elev 543'	N.A.	R	N.A.
3. Triaxial Seismic Switch			
1MIMT 5000 - Containment Base Slab**	M	R	SA
4. Triaxial Response-Spectrum Recorders			
a. 1MIMT 5040 - Containment Base Slab**	M	R	SA
b. 1MIMT 5050 - Containment Bldg. Elev 579' 3 1/2"	N.A.	R	N.A.
c. 1MIMT 5060 - Auxiliary Bldg. Elev 577'	N.A.	R	N.A.

*Except seismic trigger.

**With reactor control room indications.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 67 TO FACILITY OPERATING LICENSE NPF-35
AND AMENDMENT NO. 61 TO FACILITY OPERATING LICENSE NPF-52
DUKE POWER COMPANY, ET AL.
CATAWBA NUCLEAR STATION, UNITS 1 AND 2
DOCKET NOS. 50-413 AND 50-414

1.0 INTRODUCTION

By letter dated April 26, 1989, Duke Power Company, et al. (the licensee), proposed amendments to the operating licenses for Catawba Nuclear Station, Units 1 and 2, which would revise Item 2.a. of Technical Specification (TS) Tables 3.3-7 and 4.3-4. The TS revision would change the elevation at which seismic monitor (triaxial peak accelerograph) 1MIMT 5010 is located from 613' + 8 9/16" to 588' + 6 1/8". The relocation of the monitor, from the auxiliary feedwater line near the top of steam generator 1D to a cold leg accumulator lifting lug, was required because of operability concerns associated with its previous location. A description of the inoperability and the plans to relocate the monitor were submitted by the licensee in a special report dated February 24, 1989. The changes are applicable to Unit 1 only. Unit 2 is included administratively because the TSs are combined in one document for both units.

2.0 EVALUATION

On December 8, 1988, while performing the 18 month channel calibration on triaxial peak accelograph 1MIMT 5010, the licensee discovered that the recorder was damaged due to vibrations on the auxiliary feedwater line. The same problem was discovered in 1987 and at that time it was assumed to be an isolated occurrence. However, failure analysis and trending alerted the licensee that this was a reoccurring failure. The component was replaced and returned to service at the same location on December 12, 1988.

The licensee's evaluation indicated that the monitor would remain operable until it is exposed to process induced vibrations during and after Unit 1 startup. Therefore, the licensee concluded that if the monitor is not moved to a new location before startup, the component should be declared inoperable at the time of startup and TS 3.3.3.3 Action Statement followed.

To provide for long-term operability, the monitor was moved to a cold leg accumulator lifting lug at elevation 588' + 6 1/8" on January 16, 1989, prior to startup of Unit 1 from its third refueling outage. The new location of the monitor would preclude process induced vibration and would satisfy the intent of Regulatory Guide 1.12 in that it is on "reactor equipment."

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PDR ADOCK 05000413
P PNU

Based on its review of the licensee's request, the staff agrees with the licensee's conclusions in that the changes have no impact on the design or operation of the station, and would not pose an undue risk to public health and safety. Therefore, the change in the elevation and location of triaxial peak accelerograph 1MIMT 5010 is acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve changes to the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20. 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 exposure. The Commission has made a final no significant hazards consideration finding with respect to these amendments. Accordingly, the 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.

4.0 CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (54 FR 25373) on June 14, 1989. The Commission 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.

Principal Contributor: K. Jabbour, PDII-3/DRP-I/II

Dated: July 18, 1989

DATED: July 18, 1989

AMENDMENT NO. 67 TO FACILITY OPERATING LICENSE NPF-35 - Catawba Nuclear Station, Unit 1
AMENDMENT NO. 61 TO FACILITY OPERATING LICENSE NPF-52 - Catawba Nuclear Station, Unit 2

DISTRIBUTION:

Docket File

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Local PDR

PD#11-3 R/F

Catawba R/F

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M. Rood 14-H-25

K. Jabbour 14-H-25

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B. Grimes 9-A-2

E. Jordan MNBB-3302

W. Jones P-130A

T. Meek (8) P1-137

ACRS (10) P-135

GPA/PA 17-F-2

ARM/LFMB AR-2015

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D. Hagan MNBB-3302

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