

October 6, 1988

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. 54 TO FACILITY OPERATING LICENSE NPF-35
AND AMENDMENT NO. 47 TO FACILITY OPERATING LICENSE NPF-52 - CATAWBA
NUCLEAR STATION, UNITS 1 AND 2 (TACS 68684/68685)

The Nuclear Regulatory Commission has issued the enclosed Amendment No.54 to Facility Operating License NPF-35 and Amendment No.47 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 July 11, 1988.

The amendments modify TS Table 3.3-10 "Accident Monitoring Instrumentation" to revise the total number of channels for the auxiliary feedwater flow rate, power operated relief valve (PORV) position indicator, and PORV block valve position indicator.

A copy of the related safety evaluation supporting Amendment No.54 to Facility Operating License NPF-35 and Amendment No.47 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,

Original Signed By:

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

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PDR ADDCK 05000413
P PNU

Enclosures:

- 1. Amendment No. 54 to NPF-35
- 2. Amendment No. 47 to NPF-52
- 3. Safety Evaluation

cc w/enclosures:
See next page

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9/11/88

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KJabbour:
9/16/88

PDII-3/DRPI/II
DMatthews
10/5/88

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A.W.

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Mr. H. B. Tucker
Duke Power Company

Catawba Nuclear Station

cc:

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DATED: October 6, 1988

AMENDMENT NO. 54 TO FACILITY OPERATING LICENSE NPF-35 - Catawba Nuclear Station, Unit 1
AMENDMENT NO. 47 TO FACILITY OPERATING LICENSE NPF-52 - Catawba Nuclear Station, Unit 2

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T. Barnhart (8)	P1-137
ACRS (10)	H-1016
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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. 47
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 July 11, 1988, 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.

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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. 47, 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

Original Signed By:

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects-I/II

Attachment:
Technical Specification Changes

Date of Issuance: October 6, 1988

OFFICIAL RECORD COPY

LA:PDII-3
MRood
9/1/88

KNS
PM:PDII-3
KJabbour:
9/16/88

[Signature]
NRR/ICSB
SNewberry
9/16/88

[Signature]
OGC
R Bachmann
9/28/88

[Signature]
D:PDII-3
DMatthews
10/5/88



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. 54
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 July 11, 1988, 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. 54, 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

Original Signed By:

David B. Matthews, Director
 Project Directorate II-3
 Division of Reactor Projects-I/II

Attachment:
 Technical Specification Changes

Date of Issuance: October 6, 1988

OFFICIAL RECORD COPY

LA: PDII-3
 MRood
 9/11/88

PM: PDII-3
 KJabbour:
 9/16/88

NR: ICSB
 SNewberry
 9/16/88

OGC
 R. Buchmann
 9/27/88

D: PDII-3
 DMatthews
 10/5/88

ATTACHMENT TO LICENSE AMENDMENT NO. 54

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND

TO LICENSE AMENDMENT NO. 47

FACILITY OPERATING LICENSE NO. NPF-52

DOCKET NO. 50-414

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 areas of change.

Amended Page

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TABLE 3.3-10

ACCIDENT MONITORING INSTRUMENTATION

<u>INSTRUMENT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>MINIMUM CHANNELS OPERABLE</u>
1. Containment Pressure	2	1
2. Reactor Coolant Outlet Temperature - T _{HOT} (Wide Range)	2	1
3. Reactor Coolant Inlet Temperature - T _{COLD} (Wide Range)	2	1
4. Reactor Coolant Pressure - Wide Range	2	1
5. Pressurizer Water Level	2	1
6. Steam Line Pressure	2/steam generator	1/steam generator
7. Steam Generator Water Level - Narrow Range	2/steam generator	1/steam generator
8. Refueling Water Storage Tank Water Level	2	1
9. Auxiliary Feedwater Flow Rate	1/steam generator	1/steam generator
10. Reactor Coolant System Subcooling Margin Monitor	1	1
11. PORV Position Indicator*	1/Valve	1/Valve
12. PORV Block Valve Position Indicator**	1/Valve	1/Valve
13. Pressurizer Safety Valve Position Indicator	1/Valve	1/Valve
14. Containment Sump Water Level (Wide Range)	2	1

CATAMBA - UNITS 1 & 2

3/4 3-66

Amendment No. 54 (Unit 1)
Amendment No. 47 (Unit 2)



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 54 TO FACILITY OPERATING LICENSE NPF-35
AND AMENDMENT NO. 47 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 July 11, 1988, Duke Power Company, et al. (the licensee) proposed amendments to the operating licenses for Catawba Nuclear Station, Units 1 and 2, which would revise Technical Specification (TS) Table 3.3-10 "Accident Monitoring Instrumentation." The changes are to reduce the Total Number of Channels in the Table for the: (a) Auxiliary Feedwater Flow Rate, (b) PORV Position Indicator, and (c) PORV Block Valve Position Indicator. The first two changes would reduce the total number of channels from 2 to 1 for Catawba Units 1 and 2, and the third change would reduce it from 2 to 1 for Unit 1 only. For Unit 2, the third change was approved in license amendments 46 and 39 issued on June 1, 1988, for Catawba Units 1 and 2, respectively.

2.0 EVALUATION

The auxiliary feedwater flow rate and PORV position-indicator channels are classified as Type D variables and fall under the Category 2 definition as presented in Regulatory Guide (RG) 1.97, "Instrumentation For Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident," Revision 2, December 1980. The licensee has determined that the applicable requirements for this instrumentation are satisfied by the single channel per steam generator and single channel per valve arrangement that is proposed to be placed in the TSs.

For the auxiliary feedwater flow rate (variable D-20, RG 1.97), the licensee stated that Catawba has four QA Condition 1 auxiliary feedwater flow transmitters, one per steam generator, monitoring flow from all auxiliary feedwater pumps to each steam generator. The indicated range is 0-600 gpm for a system design flow of 500 gpm. This instrumentation is powered from Class 1E busses. Environmental qualification is described in the Catawba FSAR, Section 3.11 and the NUREG 0588 submittal. Seismic qualification is described in the Catawba FSAR, Section 3.10.

For the PORV position indicator (variable D-10, RG 1.97), the licensee stated that the PORVs are provided with control switches on the main control boards. Actual valve position is provided by QA Condition 1 limit switches on the

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valves to operate both Closed-Not Closed, and Open-Not Open control switch indicating lights. These valves and their control switch indicating lights are powered from Class 1E busses. Additional indications are provided by the computer. Environmental qualification of the limit switches is described in the Catawba Nuclear Station FSAR, Section 3.11 and the NUREG 0588 submittal. Seismic qualification of the limit switches is described in the Catawba FSAR, Section 3.10.

Based on its review, the staff finds that the reduction in the total number of channels for Catawba Units 1 and 2 auxiliary feedwater flow rate and the PORV position indicator from 2 channels to 1 channel is in accordance with the recommendations provided in RG 1.97 and, therefore, is acceptable. For the PORV block valve position indicator, the licensee stated in its May 26, 1988, submittal that one channel of safety related position indication is provided for each block valve by means of control room indicating lights associated with the valve control switch. Each block valve has a second non-safety related position indication channel which was provided in the design for maintenance and test purposes but was not intended to be used as accident monitoring instrumentation nor relied upon during an accident. No credit was taken for this non-safety indication in the design of the system or in any accident analyses.

RG 1.97 does not include any recommendations for PORV block valve position indication. There are no other requirements for two channels of indication per PORV block valve. The Catawba Final Safety Evaluation Report does not include a second channel for indication.

Based on its review, the staff agrees with the licensee's assessment and finds that the reduction in the total number of channels for Catawba Unit 1 PORV block valve position indicators from 2/valve to 1/valve 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 NRC staff has made a determination that the amendments involve no significant hazards consideration, and there has been no public comment on such finding. 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 (53 FR 28286) on July 27, 1988. 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: October 6, 1988