

January 3, 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. 58 TO FACILITY OPERATING LICENSE NPF-35  
AND AMENDMENT NO. 51 TO FACILITY OPERATING LICENSE NPF-52 - CATAWBA  
NUCLEAR STATION, UNITS 1 AND 2 (TACS 71165/71166)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 58 to Facility Operating License NPF-35 and Amendment No. 51 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 15, 1988.

The amendments modify the TS to add one containment penetration conductor overcurrent protective device to Table 3.8-1A for Unit 1 and one to Table 3.8-1B for Unit 2.

A copy of the related safety evaluation supporting Amendment No. 58 to Facility Operating License NPF-35 and Amendment No. 51 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,

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

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PDR ADDCK 05000413  
P PNU

Enclosures:

1. Amendment No. 58 to NPF-35
2. Amendment No. 51 to NPF-52
3. Safety Evaluation

cc w/enclosures:  
See next page

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12/28/88

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

January 3, 1989

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and 50-414

Mr. H. B. Tucker, Vice President  
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Duke Power Company  
422 South Church Street  
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SUBJECT: ISSUANCE OF AMENDMENT NO. 58 TO FACILITY OPERATING LICENSE NPF-35  
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A copy of the related safety evaluation supporting Amendment No. 58 to Facility Operating License NPF-35 and Amendment No. 51 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,

*Kahtan N. Jabbour*

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

Enclosures:

1. Amendment No. 58 to NPF-35
2. Amendment No. 51 to NPF-52
3. Safety Evaluation

cc w/enclosures:  
See next page

Mr. H. B. Tucker  
Duke Power Company

Catawba Nuclear Station

cc:

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DATED: January 3, 1989

AMENDMENT NO. 58 TO FACILITY OPERATING LICENSE NPF-35 - Catawba Nuclear Station, Unit 1  
AMENDMENT NO. 51 TO FACILITY OPERATING LICENSE NPF-52 - Catawba Nuclear Station, Unit 2

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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. 58  
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 15, 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-35 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 58, 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



for 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: January 3, 1989

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. 58, 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

*15/*

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: January 3, 1989

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F. Rosa  
12/15/88

*OGC*  
12/20/88

*me*  
D:PDII-3  
for DMatthews  
12/26/88



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. 51  
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 15, 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-52 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 51 , 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

  
for 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: January 3, 1989

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. 51, 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

*/s/*

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: January 3, 1989

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SELB:DEST  
FRosa  
12/15/88

OGC  
*OB*  
12/20/88

*MC*  
D:PDII-3  
for DMatthews  
12/28/88

ATTACHMENT TO LICENSE AMENDMENT NO. 58

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND

TO LICENSE AMENDMENT NO. 51

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. The corresponding overleaf page is also provided to maintain document completeness.

Amended Page

3/4 8-43  
3/4 8-66

Overleaf Page

3/4 8-44  
3/4 8-65

TABLE 3.8-1A (Continued)

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
5. 120 VAC Panelboards (Continued)	
1KPN-2 Primary Bkr Backup Fuse	NC Pump Motor 1D Space Heater
1KPN-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1B Fan Motor Space Heater
1KPN-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1D Fan Motor Space Heater
1KPN-8-2,3,4,5	NC Pump Seal Stand Pipe Vent and Drain Valves
1KPN-11 Primary Bkr Backup Fuse	Misc Control Power for 1ATC 24
6. DC Welding Circuits	
1EQCB0001 Primary Bkr-AA Backup Bkr-AB	Lower Containment DC Welding Circuit
1EQCB0002 Primary Bkr-AA Backup Bkr-AB	Upper Containment DC Welding Circuit

TABLE 3.8-1B

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
1. 6900 VAC Swgr	
Primary Bkr RCP2A Backup Bkr 2TA-3	Reactor Coolant Pump 2A
Primary Bkr RCP2B Backup Bkr 2TB-3	Reactor Coolant Pump 2B
Primary BKR RCP2C Backup Bkr 2TC-3	Reactor Coolant Pump 2C
Primary BKR RCP2D Backup Bkr 2TD-3	Reactor Coolant Pump 2D
2. 600 VAC MCC	
2EMXC-F01B Primary Bkr Backup Fuse	Accumulator 2C Discharge Isol Vlv 2NI76A
2EMXC-F01C Primary Bkr Backup Fuse	Check Valve Test Header Cont Isol Vlv 2NI95A
2EMXC-F02A Primary Bkr Backup Fuse	Train A Alternate Power To ND LTDN Vlv 2ND1B
2EMXC-F02B Primary Bkr Backup Fuse	Hot Leg Inj. Check Vlv Test Isol Vlv 2NI153A
2EMXC-F02C Primary Bkr Backup Fuse	Cont Isol at 134 Deg Annulus Area Vlv 2VI312A
2EMXC-F03A Primary Bkr Backup Fuse	NC Pump 2C Thermal Barrier Outlet Isol Vlv 2KC345A
2EMXC-F03B Primary Bkr Backup Fuse	N <sub>2</sub> to Prt Cont Isol Inside Vlv 2NC54A
2EMXC-F03C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 2NC33A

TABLE 3.8-1B (Continued)

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
5. 120 VAC Panelboards (Continued)	
2ELB-17 Primary Bkr Backup Fuse	Emergency A.C. Lighting
2KPM-1 Primary Bkr Backup Fuse	NC Pump Motor 2A Space Heater
2KPM-2 Primary Bkr Backup Fuse	NC Pump Motor 2C Space Heater
2KPM-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2A Fan Motor Space Heater
2KPM-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2C Fan Motor Space Heater
2KPM-24-1 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2A Space Heater
2KPM-24-2 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2B Space Heater
2KPM-24-3 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2C Space Heater
2KPM-24-4 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2D Space Heater
2KPM-33-3, 4, 5, 6, 7 Primary Bkr Backup Fuse	Safety Injection System Temperature Transmitters
2KPN-1 Primary Bkr Backup Fuse	NC Pump Motor 2B Space Heater

TABLE 3.8-1B (Continued)

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

DEVICE NUMBER & LOCATION	SYSTEM POWERED
5. 120 VAC Panelboards (Continued)	
2KPN-2 Primary Bkr Backup Fuse	NC Pump Motor 2D Space Heater
2KPN-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2B Fan Motor Space Heater
2KPN-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2D Fan Motor Space Heater
2KPN-8-2,3,4,5	NC Pump Seal Stand Pipe Vent and Drain Valves
2KPN-11 Primary Bkr Backup Fuse	Misc Control Power for 2ATC 24
6. DC Welding Circuits	
2EQCB0001 Primary Bkr - AA Backup Bkr - AB	Lower Containment DC Welding Circuit
2EQCB0002 Primary Bkr - AA Backup Bkr - AB	Upper Containment DC Welding Circuit



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 58 TO FACILITY OPERATING LICENSE NPF-35  
AND AMENDMENT NO. 51 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 15, 1988, Duke Power Company, et al., (the licensee) proposed changes to Tables 3.8-1A and 3.8-1B of Technical Specification (TS) 3/4.8.4 "Electrical Equipment Protective Devices" for Catawba Nuclear Station, Units 1 and 2, respectively. The changes would add one containment penetration conductor overcurrent protective device to TS Table 3.8-1A for Unit 1 and one to Table 3.8-1B for Unit 2.

2.0 EVALUATION

The purpose of the overcurrent protective devices is to interrupt fault currents flowing through the electrical penetration that could cause it to lose its mechanical integrity as the result of a downstream fault. To meet the requirements set forth in IEEE Std 317-1976 as augmented by the recommendations of Regulatory Guide 1.63, revision 2, the containment electrical penetration assemblies must be designed to withstand, without loss of mechanical integrity, the maximum available fault current long enough to allow backup circuit protection to operate, assuming a failure of the primary protective device. The requirement, therefore, is for two protective devices in series, each of which having the capability to clear a fault before loss of the mechanical integrity of the penetration can occur.

The licensee stated that the applicable penetrations are identified as Type G/Low Voltage and included, in its April 15, 1988, submittal, Figure 0430.11-7 which is the applicable figure for the electrical penetration assemblies and their overcurrent protective devices. This figure shows a circuit breaker and fuse in series to the electrical penetration and provides the fault current clearing time curves for the breaker and fuse plotted against two test value points for the current carrying capability of the penetration. These plots demonstrate there is sufficient margin between the fault current clearing time curves of the overcurrent protective devices and the current carrying capability of the penetration to allow the protective devices to clear the fault before damage to the penetration would occur. Therefore, the staff finds this design acceptable.

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### 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 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 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 48329) on November 30, 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: January 3, 1989