

April 1, 1987

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. 26 to Facility Operating License NPF-35  
and Amendment No. 16 to Facility Operating License NPF-52 - Catawba  
Nuclear Station, Units 1 and 2

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 26 to Facility Operating License NPF-35 and Amendment No. 16 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 July 31, 1985, and supplemented October 10, 1986.

The amendments revise Technical Specification Surveillance Requirement 4.8.2.1.1a.3) to allow battery operation when there is minor electrolyte leakage. The amendments are effective as of the date of issuance.

A copy of the related safety evaluation supporting Amendment No.26 to Facility Operating License NPF-35 and Amendment No.16 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,

151

Kahtan Jabbour, Project Manager  
PWR Project Directorate No. 4  
Division of PWR Licensing-A

Enclosures:

1. Amendment No.26 to NPF-35
2. Amendment No.16 to NPF-52
3. Safety Evaluation

cc w/encl:  
See next page

DISTRIBUTION:  
See attached page

PWR#4:DPWR-A  
MDuncan:mac  
03/17/87

*KNJ*  
PWR#4/DPWR-A  
KJabbour  
03/17/87

*[Signature]*  
PWR#4/DPWR-A  
BJ Kungblod  
03/17/87

Mr. H. B. Tucker  
Duke Power Company

Catawba Nuclear Station

cc:  
A.V. Carr, Esq.  
Duke Power Company  
422 South Church Street  
Charlotte, North Carolina 28242

North Carolina Electric Membership  
Corp.  
3400 Sumner Boulevard  
P.O. Box 27306  
Raleigh, North Carolina 27611

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

Saluda River Electric Cooperative,  
Inc.  
P.O. Box 929  
Laurens, South Carolina 29360

North Carolina MPA-1  
Suite 600  
3100 Smoketree Ct.  
P.O. Box 29513  
Raleigh, North Carolina 27626-0513

Senior Resident Inspector  
Route 2, Box 179N  
York, South Carolina 29745

L.L. Williams  
Area Manager, Mid-South Area  
ESSD Projects  
Westinghouse Electric Corp.  
MNC West Tower - Bay 239  
P.O. Box 355  
Pittsburgh, Pennsylvania 15230

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

County Manager of York County  
York County Courthouse  
York South Carolina 29745

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

Richard P. Wilson, Esq.  
Assistant Attorney General  
S.C. Attorney General's Office  
P.O. Box 11549  
Columbia, South Carolina 29211

Karen E. Long  
Assistant Attorney General  
N.C. Department of Justice  
P.O. Box 629  
Raleigh, North Carolina 27602

Piedmont Municipal Power Agency  
100 Memorial Drive  
Greer, South Carolina 29651

Spence Perry, Esquire  
General Counsel  
Federal Emergency Management Agency  
Room 840  
500 C Street  
Washington, D. C. 20472

Mr. Michael Hirsch  
Federal Emergency Management Agency  
Office of the General Counsel  
Room 840  
500 C Street, S.W.  
Washington, D. C. 20472

Brian P. Cassidy, Regional Counsel  
Federal Emergency Management Agency,  
Region I  
J. W. McCormach POCH  
Boston, Massachusetts 02109

April 1, 1987

AMENDMENT NO. 26 TO FACILITY OPERATING LICENSE NPF-35 -  
CATAWBA NUCLEAR POWER STATION, UNIT 1  
AMENDMENT NO. 16 TO FACILITY OPERATING LICENSE NPF-52 -  
CATAWBA NUCLEAR POWER STATION, UNIT 2

DISTRIBUTION: w/enclosures:

Docket Nos. 50-413/414

NRC PDR

Local PDR

NSIC

PRC System

PWR#4 R/F

B. J. Youngblood

K. Jabbour

M. Duncan

OGC-Bethesda

T. Barnhart (8)

E. L. Jordan

L. J. Harmon

B. Grimes

J. Partlow

ACRS (10)

E. Butcher

W. Jones

FOB

OPA

LFMB

N. Thompson

J. Lazevnick



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. 26  
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 31, 1985, and supplemented October 10, 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 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. 26, and the Environmental Protection Plan

B704090148 B70401  
PDR ADOCK 05000413  
P PDR

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

Kahtan Jabbour, Project Manager  
PWR Project Directorate No. 4  
Division of PWR Licensing-A

Attachment:  
Technical Specification Changes

Date of Issuance: April 1, 1987

*MD*  
PWR#4/DPWR-A  
MDuncan:mac  
03/17/87

*KNJ*  
PWR#4/DPWR-A  
KJabbour  
03/13/87

*[Signature]*  
OGC-Bethesda  
03/19/87

*[Signature]*  
PWR#4/DPWR-A  
BJYoungblood  
03/24/87



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. 16  
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 31, 1985, and supplemented October 10, 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 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. 16, 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

Kahtan Jabbour, Project Manager  
PWR Project Directorate No. 4  
Division of PWR Licensing-A

Attachment:  
Technical Specification Changes

Date of Issuance: April 1, 1987

*MD*  
PWR#4/DPWR-A  
MDuncan:mac  
03/17/87

*KNS*  
PWR#4/DPWR-A  
KJabbour  
03/13/87

*[Signature]*  
OGC-Bethesda  
03/19/87

*[Signature]*  
PWR#4/DPWR-A  
BJYoungblood  
03/24/87

ATTACHMENT TO LICENSE AMENDMENT NO. 26

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND

TO LICENSE AMENDMENT NO. 16

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 8-13

Overleaf  
Page

3/4 8-14

## ELECTRICAL POWER SYSTEMS

### LIMITING CONDITION FOR OPERATION

---

#### ACTION (Continued)

- 10 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- e. With two 125 VDC batteries and/or their full-capacity chargers inoperable and 125 VDC Batteries EBA and EBC and/or their full-capacity chargers in service, or 125 VDC Batteries EBB and EBD and/or their full-capacity chargers in service during this period of time, restore at least one battery and/or its full-capacity charger to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

---

4.8.2.1.1 Each 125-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
- 1) The parameters in Table 4.8-3 meet the Category A limits,
  - 2) The total battery terminal voltage is greater than or equal to 125 volts on float charge, and
  - 3) There is no visible indication of damaging electrolyte leakage.
- b. At least once per 92 days and within 7 days after a battery discharge with battery terminal voltage below 110 volts, or battery overcharge with battery terminal voltage above 150 volts, by verifying that:
- 1) The parameters in Table 4.8-3 meet the Category B limits,
  - 2) There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than  $150 \times 10^{-6}$  ohm, and
  - 3) The average electrolyte temperature of six connected cells is above 60°F.
- c. At least once per 18 months by verifying that:
- 1) The cells, cell plates (if visible), and battery racks show no visual indication of physical damage or abnormal deterioration,
  - 2) The cell-to-cell and terminal connections are clean, tight, and coated with anticorrosion material,
  - 3) The resistance of each cell-to-cell and terminal connection is less than or equal to  $150 \times 10^{-6}$  ohm, and



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 26 TO FACILITY OPERATING LICENSE NPF-35  
AND AMENDMENT NO. 16 TO FACILITY OPERATING LICENSE NPF-52

CATAWBA NUCLEAR STATION, UNITS 1 AND 2

DUKE POWER COMPANY, ET AL.

INTRODUCTION

By letter dated July 31, 1985, and supplemented October 10, 1986, Duke Power Company, et al., (the licensee) proposed a change to Technical Specification (TS) Surveillance Requirement 4.8.2.1.1a.3) concerning electrolyte leakage for Catawba Nuclear Station, Units 1 and 2. The change would allow battery operation when there is minor electrolyte leakage.

EVALUATION

The proposed revision would change the requirement to demonstrate the operability of the 125 volt battery bank and charger by verifying, at least once per 7 days, that "there is no visible indication of electrolyte leakage" to the requirement that "there is no visible indication of damaging electrolyte leakage." This change would allow battery operation when there is minor electrolyte leakage.

By letter dated August 15, 1986, the NRC staff requested additional information regarding the proposed change. By letter dated October 10, 1986, the licensee modified the July 31, 1985, request to alleviate the staff's concerns, as stated in section 8.3.2 of the Catawba Safety Evaluation Report (NUREG-0954), regarding the possibility that the electrolyte leakage might cause a discharge path through the metal battery rack which would go undetected on the dc system ground detection because the racks are ungrounded. The proposed change to the TS would retain the requirement to check for electrolyte leakage that was damaging but would allow continued operation with minor electrolyte leakage that would be unlikely to cause any significant discharge of a battery cell. Also the existing 7 day and 92 day battery surveillances, required by TS 4.8.2.1.1a. and 4.8.2.1.1b., on battery terminal voltage and battery cell electrolyte level, float voltage, and specific gravity provide additional assurance of the operability of the battery. Therefore, the staff finds this TS change acceptable.

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 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 5852) on February 26, 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, PWR#4/DPWR-A  
James Lazevnick, EICSB/DPWR-A

Dated: April 1, 1987