

September 20, 1996

Mr. William R. McCollum  
Site Vice President  
Catawba Nuclear Station  
Duke Power Company  
4800 Concord Road  
York, South Carolina 29745-9635

Distribution R.Crlenjak,RII  
Docket File ACRS T-2 E26  
PUBLIC OGC  
PDII-2 RF G.Hill(4)  
S.Varga J.Zwolinski  
C.Grimes J.Johnson,RII

SUBJECT: ISSUANCE OF AMENDMENTS - CATAWBA NUCLEAR STATION, UNITS 1 AND 2  
(TAC NOS. M94192 AND M94193)

Dear Mr. McCollum:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 152 and No. 144 to Facility Operating License NPF-35 and NPF-52 for Catawba Nuclear Station, Units 1 and 2. The amendments consist of changes to the Technical Specifications (TS) in response to your application dated November 15, 1995.

The amendments revise the TS to modify Section 3/4.7.5, "Standby Nuclear Service Water Pond," for the Catawba Nuclear Station, Units 1 and 2, raising the minimum water level by 1 foot (from elevation 570 to 571 feet).

A copy of the related Safety Evaluation is also enclosed. A Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

Original signed by:

Peter S. Tam, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-413 and 50-414

Enclosures:

- 1. Amendment No. 152 to NPF-35
- 2. Amendment No. 144 to NPF-52
- 3. Safety Evaluation

cc w/encl: See next page

DOCUMENT NAME: G:\CATAWBA\CAT94192.AMD

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NAME	L.BERRY <i>LB</i>	P.TAM:cn <i>PST</i>	G.HUBBARD <i>GH</i>	<i>ERHOLLEN</i>	HUBERKOW <i>HB</i>
DATE	9/5/96	9/5/96	9/9/96	9/16/96	9/17/96
COPY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	YES <input checked="" type="checkbox"/> NO	YES <input checked="" type="checkbox"/> NO

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

September 20, 1996

Mr. William R. McCollum  
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A copy of the related Safety Evaluation is also enclosed. A Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in cursive script that reads "Peter S. Tam".

Peter S. Tam, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-413 and 50-414

Enclosures:

1. Amendment No. 152 to NPF-35
2. Amendment No. 144 to NPF-52
3. Safety Evaluation

cc w/encl: See next page

Mr. W. R. McCollum  
Duke Power Company

Catawba Nuclear Station

cc:  
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Piedmont Municipal Power Agency  
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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. 152  
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 15, 1995, 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.

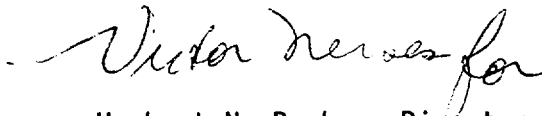
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 2.C.(2) of Facility Operating License No. NPF-35 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 152, which is attached hereto, is hereby incorporated into this license. Duke Power Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Technical Specification  
Changes

Date of Issuance: September 20, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 152

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

Replace the following page of the Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

Remove Page

Insert Page

3/4 7-14

3/4 7-14

## PLANT SYSTEMS

### 3/4.7.5 STANDBY NUCLEAR SERVICE WATER POND

#### LIMITING CONDITION FOR OPERATION

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3.7.5 The standby nuclear service water pond (SNSWP) shall be OPERABLE with:

- a. A minimum water level at or above elevation 571 feet Mean Sea Level, USGS datum, and
- b. An average water temperature of less than or equal to 91.5°F at elevation 568 feet in the SNSWP.

APPLICABILITY: MODES 1, 2, 3, and 4.

#### ACTION:

With the requirements of the above specification not satisfied, be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

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4.7.5 The SNSWP shall be determined OPERABLE:

- a. At least once per 24 hours by verifying the water level to be within its limit,
- b. At least once per 24 hours during the months of July, August, and September by verifying the water temperature to be within its limit,
- c. At least once per 12 months by visually inspecting the SNSWP dam and verifying no abnormal degradation, erosion, or excessive seepage, and
- d. At least once per 24 hours during the months of July, August and September while the Nuclear Service Water System is aligned to Lake Wylie by recording the water temperature of Lake Wylie, as measured in the discharge path of an operating Nuclear Service Water pump.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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. 144  
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 15, 1995, 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.



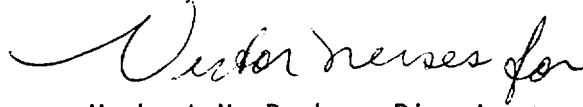
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 2.C.(2) of Facility Operating License No. NPF-52 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 144 which are attached hereto, are hereby incorporated into this license. Duke Power Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Technical Specifications  
Changes

Date of Issuance: September 20, 1996

ATTACHMENT TO LICENSE AMENDMENT NO. 144

FACILITY OPERATING LICENSE NO. NPF-52

DOCKET NO. 50-414

Replace the following page of the Technical Specifications with the enclosed page. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

Remove Page

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3/4 7-15

3/4 7-15

## PLANT SYSTEMS

### 3/4.7.5 STANDBY NUCLEAR SERVICE WATER POND

#### LIMITING CONDITION FOR OPERATION

3.7.5 The standby nuclear service water pond (SNSWP) shall be OPERABLE with:

- a. A minimum water level at or above elevation 571 feet Mean Sea Level, USGS datum, and
- b. An average water temperature of less than or equal to 91.5°F at elevation 568 feet in the SNSWP.

APPLICABILITY: MODES 1, 2, 3, and 4.

#### ACTION:

With the requirements of the above specification not satisfied, be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

#### SURVEILLANCE REQUIREMENTS

4.7.5 The SNSWP shall be determined OPERABLE:

- a. At least once per 24 hours by verifying the water level to be within its limit,
- b. At least once per 24 hours during the months of July, August, and September by verifying the water temperature to be within its limit,
- c. At least once per 12 months by visually inspecting the SNSWP dam and verifying no abnormal degradation, erosion, or excessive seepage, and
- d. At least once per 24 hours during the months of July, August and September while the Nuclear Service Water System is aligned to Lake Wylie by recording the water temperature of Lake Wylie, as measured in the discharge path of an operating Nuclear Service Water pump.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 152 TO FACILITY OPERATING LICENSE NPF-35  
AND AMENDMENT NO. 144 TO FACILITY OPERATING LICENSE NPF-52

DUKE POWER COMPANY, ET AL.

CATAWBA NUCLEAR STATION, UNITS 1 AND 2

DOCKET NO. 50-413 AND 50-414

1.0 INTRODUCTION

By letter dated November 15, 1995, Duke Power Company (the licensee) proposed amendments to modify the Technical Specifications (TSs) for the Catawba Nuclear Station, Units 1 and 2. Specifically, the licensee requested changes to modify the Limiting Condition for Operation (LCO) for TS 3/4.7.5 "Standby Nuclear Service Water Pond." The standby nuclear service water pond (SNSWP) serves as the ultimate heat sink (UHS), which is the emergency source of water to the nuclear service water system (NSWS) for both Catawba units. The normal source of water to the NSWS is Lake Wylie, which is not seismically qualified. The proposed changes would raise the minimum water level of the SNSWP by 1 foot (from elevation 570 feet to 571 feet). The requested increase in water level was determined to be necessary by the licensee after a survey determined that the available pond inventory was less than originally assumed in analyses.

2.0 DISCUSSION AND EVALUATION

The staff originally evaluated and found acceptable the design and performance of the SNSWP in Section 9.2.5 of the Catawba Safety Evaluation Report (NUREG-0954, February 1983).

The licensee stated that the reduced available SNSWP inventory is a result of two factors. The first factor is siltation that has occurred in the pond. The second factor is a result of the licensee's inability to completely reproduce the field methods used in the earlier surveys for underwater contours, and the interpolation and judgement that was required when constructing contour lines. The licensee's latest survey determined that a 1-foot increase in the pond water level would restore the available pond inventory to at least that which was assumed in the original analyses.

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The proposed TS change is conservative in that it will result in a greater minimum volume of water available than required by the current TS level. The proposed change is necessary to ensure the volume of water in the SNSWP will be consistent with the assumptions used in the licensee's most recent post-accident transient heat analysis for the pond.

Based on its evaluation the staff has concluded that the proposed change to TS 3/4.7.5 is conservative because it results in a larger available volume of water than the current TS and is necessary to make the TS consistent with the existing transient heat analysis for the pond. The staff, therefore, concludes that the proposed change is acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the South Carolina State official was notified of the proposed issuance of the amendments. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendments change requirements with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC 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 radiation exposure. The Commission has previously issued a proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding (December 20, 1995, 60 FR 65676). 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 the amendments.

### 5.0 CONCLUSION

The staff has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) 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 Contributor: William T. LeFave

Date: September 20, 1996