

Docket Nos.: 50-413  
and 50-414

November 20, 1986

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. 19 to Facility Operating License  
NPF-35 and Amendment No. 9 to Facility Operating License  
NPF-52 - Catawba Nuclear Station, Units 1 and 2

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 19 to Facility Operating License NPF-35 and Amendment No. 9 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 9, 1986, and supplemented September 12, 1986.

These amendments modify the Technical Specifications to permit an exception to the experience requirements for two candidates for senior reactor operator licenses. The amendments are effective as of their date of issuance.

A copy of the related safety evaluation supporting Amendment No. 19 to Facility Operating License NPF-35 and Amendment No. 9 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,





Kahtan Jabbour, Project Manager  
PWR Project Directorate #4  
Division of PWR Licensing-A


Enclosures:

1. Amendment No. 19 to NPF-35
2. Amendment No. 9 to NPF-52
3. Safety Evaluation

cc w/encl:  
See next page

  
PWR#4/DPWR-A  
MDuhgan/mac  
10/27/86

  
PWR#4/DPWR-A  
KJabbour  
10/27/86

  
PWR#4/DPWR-A  
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10/19/86

Mr. H. B. Tucker  
Duke Power Company

Catawba Nuclear Station

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November 20, 1986

AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NPF-35 -  
CATAWBA NUCLEAR POWER STATION, UNIT 1  
AMENDMENT NO. 9 TO FACILITY OPERATING LICENSE NPF-52 -  
CATAWBA NUCLEAR POWER STATION, UNIT 2

DISTRIBUTION: w/enclosures:

Docket File

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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. 19  
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 9, 1986, and supplemented September 12, 1986, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's 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. 19, 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: November 20, 1986

V. BENAROYA  
10/28/86

PWR#4/DPWR-A  
MDuncan/mac  
10/28/86

KNJ  
PWR#4/DPWR-A  
KJabbour  
10/27/86

OGC-Beth  
Johnson  
10/10/86  
" Hey  
w/charges noted  
in SER 2 notice

PWR#4/DPWR-A  
BJYoungblood  
10/19/86



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. 9  
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 9, 1986, and supplemented September 12, 1986, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's 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. 9, 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: November 20, 1986

V. BENAROYA

10/28/86

PWR#4/DPWR-A  
MDuncan/mac  
10/28/86

KJS  
PWR#4/DPWR-A  
KJabbour  
10/27/86

OGC-Beth  
Johnson  
10/10/86  
T. [signature]

PWR#4/DPWR-A  
BJYoungblood  
10/19/86

W. Drayner udel in son  
KNOH2

ATTACHMENT TO LICENSE AMENDMENT NO. 19

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

AND TO

LICENSE AMENDMENT NO. 9

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 page is identified by Amendment number and contains a vertical line indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

Amended  
Page

6-6

Overleaf  
Page

6-5



TABLE 6.2-1  
MINIMUM SHIFT CREW COMPOSITION

POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION		
	Both Units in MODE 1, 2, 3, or 4	Both Units in MODE 5 or 6 or Defueled	One Unit in Mode 1, 2, 3 or 4 and One Unit in Mode 5 or 6 or Defueled
SS	1	1	1
SRO	1	None##	1
RO	3#	2#	3#
NEO	3#	3#	3#
STA	1	None	1

SS - Shift Supervisor with a Senior Operator license  
 SRO - Individual with a Senior Operator license  
 RO - Individual with an Operator license  
 NEO - Nuclear Equipment Operator  
 STA - Shift Technical Advisor

The Shift Crew Composition may be one less than the minimum requirements of Table 6.2-1 for a period of time not to exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the shift crew composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being late or absent.

During any absence of the Shift Supervisor from the control room while the unit is in MODE 1, 2, 3, or 4, an individual (other than the Shift Technical Advisor\*) with a valid Senior Operator license shall be designated to assume the control room command function. During any absence of the Shift Supervisor from the control room while the unit is in MODE 5 or 6, an individual with a valid Senior Operator license or Operator license shall be designated to assume the control room command function.

\*On occasion when there is a need for both the Shift Supervisor and the SRO to be absent from the control room, the STA shall be allowed to assume the control room command function and serve as the SRO in the control room provided that: (1) the Shift Supervisor is available to return to the control room within 10 minutes, (2) the assumption of SRO duties by the STA be limited to periods not in excess of 15 minutes duration and a total time not to exceed 1 hour during any 8-hour shift, and (3) the STA has a Senior Operator license on the unit.

#At least one of the required individuals must be assigned to the designated position for each unit.

##At least one licensed Senior Operator or licensed Senior Operator Limited to Fuel Handling must be present during CORE ALTERATIONS on either unit, who has no other concurrent responsibilities.

## ADMINISTRATIVE CONTROLS

### 6.2.3 CATAWBA SAFETY REVIEW GROUP

#### FUNCTION

6.2.3.1 The Catawba Safety Review Group (CSRG) shall function to examine plant operating characteristics, NRC issuances, industry advisories, REPORTABLE EVENTS, and other sources which may indicate areas for improving plant safety. The CSRG shall make detailed recommendations for revised procedures, equipment modifications, or other means of improving plant safety to the Director, Nuclear Safety Review Board.

#### COMPOSITION

6.2.3.2 The CSRG shall be composed of a chairman and at least four dedicated, full-time qualified individuals located onsite.

#### RESPONSIBILITIES

6.2.3.3 The CSRG shall be responsible for maintaining surveillance of plant activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical.

#### RECORDS

6.2.3.4 Records of activities performed by the CSRG shall be prepared, maintained, and forwarded each calendar month to the Director, Nuclear Safety Review Board.

### 6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall serve in an advisory capacity to the Shift Supervisor.

### 6.3 UNIT STAFF QUALIFICATIONS

6.3.1 Each member of the unit staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions, except for the Radiation Protection Manager, who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975. The licensed Operators and Senior Operators shall also meet or exceed the minimum qualifications of the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter to all licensees.\*\*

### 6.4 TRAINING

6.4.1 A retraining and replacement training program for the unit staff shall be maintained under the direction of the Station Manager and shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and Appendix A of 10 CFR Part 55 and the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter to all licensees, and shall include familiarization with relevant industry operational experience identified by the CSRG.

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\*Not responsible for sign-off function.

\*\*Except that the experience and other considerations described in Duke Power Company's letters dated August 28, 1985, and July 8, 1986, are acceptable for the six and two applicants for SRO licenses identified therein, respectively.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 19 TO FACILITY OPERATING LICENSE NPF-35  
AND AMENDMENT NO. 9 TO FACILITY OPERATING LICENSE NPF-52  
CATAWBA NUCLEAR STATION, UNITS 1 AND 2  
DUKE POWER COMPANY, ET AL.

I. INTRODUCTION

By letter dated July 9, 1986, (addressed to Mr. H. R. Denton, NRR), Duke Power Company, et al., (the licensee) proposed to change the facility Technical Specifications (TS) to permit an exception to the experience requirements for two candidates for senior reactor operator (SRO) licenses for Catawba Units 1 and 2. These requirements are contained in a March 28, 1980 staff letter which is referenced in TS Section 6.3 "Unit Staff Qualifications" and Section 6.4 "Training." By letter dated July 8, 1986, (addressed to the Operator Licensing Section, Region II), the licensee has identified the two SRO candidates. By letter dated September 12, 1986, (addressed to Mr. H. R. Denton, NRR), the licensee has provided additional information in response to an NRC staff letter issued about August 25, 1986, undated, and described the experience and training that qualify them for a waiver of the experience requirements in the examination prerequisites specified in Technical Specification 6.3.

II. EVALUATION

The NRC staff has reviewed the licensee's submittals dated July 8 and 9, 1986 and September 12, 1986. The Technical Specifications Section 6.3 "Unit Staff Qualifications" and Section 6.4 "Training" require, among other things, that the licensee's unit operating staff meet or exceed the requirements specified in Sections A and C of Enclosure 1 to the NRC letter dated March 28, 1980. The requested amendment would permit waiver of the experience requirements contained in Section A. No change has been requested relating to the Recalification Programs contained in Section C. Section A of Enclosure 1 states in part that an applicant for senior reactor operator (SRO) license should have 4 years of responsible power plant experience and that this experience should be obtained as a control room operator in either fossil or nuclear power plants or as a power plant staff engineer. A maximum of two years of this experience may be fulfilled by academic or related technical training. This experience requirement is one of the guidelines established by the staff to implement a requirement in 10 CFR Part 55 of the Commission's rules that an applicant for an operator license provide evidence to the NRC that he or she has learned to operate the controls of the facility in a safe and competent manner. In general, the NRC requires that evidence of a combination of experience and training be provided in order to be deemed eligible to sit for an NRC examination. Although standard guidelines have been established in the NRC staff's March 28, 1980, letter, waivers may be granted on a case-by-case basis if the NRC staff determines that an equivalency to the standard guidelines exist.

This determination is based upon an evaluation of the applicant's academic training, technical training relevant to reactor operation and work experience. Whether or not a waiver of part of the eligibility guidelines is granted, all applicants for SRO licenses must pass an NRC administered SRO examination. Passing this examination, together with each applicant's academic training, technical training relevant to reactor operation and work experience relevant to reactor operation as well as control room experience, provides the staff with reasonable assurance that a candidate has sufficient knowledge to operate a nuclear reactor in a safe and competent manner.

The NRC staff has reviewed the training and experience of the two SRO candidates described in the licensee's letters. The two SRO candidates are highly trained at Catawba Units 1 and 2, each has held a reactor operator license for more than two years and each was required to pass the SRO license examination. Each of the two candidates has a minimum of 8 years of experience on-site at Catawba, during which each has been actively involved in preoperational testing and checkout, startup testing, and operator training. Catawba Unit 1, which received a fuel loading and precriticality testing license in July 1984, a low power license in December 1984, and a full power license in January 1985, has not been in operation long enough to provide an opportunity for these reactor operators to have 4 years of control room operating experience. Likewise, Catawba Unit 2 received a low power license in February 1986, and a full power license in May 1986. However, each applicant's work-related experience and training more than offsets the amount by which his experience falls short of the stated guidelines. Based on this review, the staff finds that each of the two candidates has a combination of training and experience which is equivalent to that recommended in the standard guidelines of staff's March 28, 1980, letter.

The staff concludes that the guidelines recommending 4 years of responsible power plant experience can be waived for the two SRO candidates for Catawba Units 1 and 2 identified in the licensee's July 8, 1986, letter. The staff further concludes that the qualifications of each of these two candidates, as excepted from the staff guidelines, meet the experience requirements of 10 CFR 55.10(a)(6). Therefore, exception to Technical Specification 6.3 is acceptable.

### III. ENVIRONMENTAL CONSIDERATION

The amendments involve a change in administrative procedures or requirements in the license. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR Section 51.22(c)(10). 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.

#### IV. CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (51 FR 36088) on October 8, 1986, 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  
T. Syzmanski, Operator Licensing Branch, DHFT

Dated: November 20, 1986