

February 12, 1986

Docket No.: 50-413

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. 3 to Facility Operating License
NPF-35 - Catawba Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 3 to Facility Operating License NPF-35 for the Catawba Nuclear Station, Unit 1, located in York County, South Carolina. This amendment is in response to your letter dated April 29, 1985.

The amendment changes the Technical Specifications to revise surveillance requirement 4.3.4.2 from a turbine control valve testing frequency of once in seven days to at least once in 31 days. The amendment is effective as of its date of issuance.

A copy of the related safety evaluation supporting Amendment No. 3 to Facility Operating License NPF-35 is enclosed.

Notice of issuance will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

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B. J. Youngblood, Director
PWR Project Directorate #4
Division of PWR Licensing-A

Enclosures:

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

cc w/enclosures: See next page

PWR#4/DPWR-A
MDuncan/mac
12/6/85

KNT
PWR#4/DPWR-A
KJabbour
12/27/85

DSH/m
PWR#4/DPWR-A
BJYoungblood
12/29/85

Mr. H. B. Tucker
Duke Power Company

Catawba Nuclear Station

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

FEB 12 1986

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. 3
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 29, 1985, 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 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. 3, and the Environmental Protection Plan

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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

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B. J. Youngblood, Director
PWR Project Directorate #4
Division of PWR Licensing-A

Attachment:
Technical Specification Changes

Date of Issuance: February 12, 1986

PWR#4/DPWR-A
MDuncan
MDuncan/mac
12/6/85

PWR#4/DPWR-A
KJabbour
12/27/85
1

OELD
GE Johnson
12/ /85
2/5/86

BSH
PWR#4/DPWR-A
BJYoungblood
12/29/85
1

ATTACHMENT TO LICENSE AMENDMENT NO. 3

FACILITY OPERATING LICENSE NO. NPF-35

DOCKET NO. 50-413

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 area of change.

Amended
Page

3/4 3-91

INSTRUMENTATION

3/4.3.4 TURBINE OVERSPEED PROTECTION

LIMITING CONDITION FOR OPERATION

3.3.4 At least one Turbine Overspeed Protection System shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

- a. With one stop valve or one control valve per high pressure turbine steam line inoperable and/or with one intermediate stop valve or one intercept valve per low pressure turbine steam line inoperable, restore the inoperable valve(s) to OPERABLE status within 72 hours, or close at least one valve in the affected steam line(s) or isolate the turbine from the steam supply within the next 6 hours.
- b. With the above required Turbine Overspeed Protection System otherwise inoperable, within 6 hours isolate the turbine from the steam supply.

SURVEILLANCE REQUIREMENTS

4.3.4.1 The provisions of Specification 4.0.4 are not applicable.

4.3.4.2 The above required Turbine Overspeed Protection System shall be demonstrated OPERABLE:

- a. At least once per 7 days while in MODE 1 and while in MODE 2 with the turbine operating, by cycling each of the following valves through at least one complete cycle from the running position:
 - 1) Four high pressure turbine stop valves,
 - 2) Six low pressure turbine intermediate stop valves, and
 - 3) Six low pressure turbine intercept valves.
- b. At least once per 31 days while in MODE 1 and while in MODE 2 with the turbine operating, by direct observation of the movement of each of the above valves and the four high pressure turbine control valves, through one complete cycle from the running position,
- c. At least once per 18 months by performance of a CHANNEL CALIBRATION on the Turbine Overspeed Protection Systems, and
- d. At least once per 40 months by disassembling at least one of each of the above valves (including the four high pressure turbine control valves) and performing a visual and surface inspection of valve seats, disks and stems and verifying no unacceptable flaws or corrosion.



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

FEB 12 1986

SAFETY EVALUATION REPORT

RELATED TO AMENDMENT NO. 3 TO FACILITY OPERATING LICENSE NPF-35

CATAWBA NUCLEAR STATION, UNIT 1

DUKE POWER COMPANY

NORTH CAROLINA ELECTRIC MEMBERSHIP CORPORATION

SALUDA RIVER ELECTRIC COOPERATIVE, INC.

I. Introduction

By letter dated April 29, 1985, Duke Power Company requested a license amendment to revise surveillance requirement 4.3.4.2 in the Technical Specifications (TS) for Catawba Nuclear Station, Unit 1, from a turbine control valve testing frequency of once in seven days to at least once in 31 days. The testing frequency for the other turbine valves remains at seven days.

II. Evaluation

The NRC staff currently requires weekly testing of all turbine valves as stated in Standard Review Plan Section 10.2 "Steam Turbines". The staff position was established after extensive discussions with major steam turbine manufacturers and is based largely on engineering judgement and the recommendations of the manufacturers.

General Electric in Technical Information Letter No. 969, dated May 22, 1984, stated that operating experience on inservice nuclear turbine steam valves shows that operability and reliability will not be significantly affected by increasing the periodic control valve testing interval from the present weekly to a much longer interval. They have also concluded that reduced turbine valve testing on this type of turbine has little or no effect on the probability of turbine missile generation. In General Electric's judgement, lack of a significant number of valve failures and good operating experience provide a reasonable basis to increase the periodic test interval for the turbine control valves.

The staff has evaluated the information submitted by Duke in the April 29, 1985, letter and General Electric's information presented in Technical Information Letter No. 969. Considering the information presented by Duke and General Electric, and the staff's original basis for the TS, the staff concludes that the surveillance interval for periodic turbine control valve testing can be increased for the Catawba Nuclear Station, Unit 1, from once in seven days to at least once in 31 days without significantly affecting the capability of the turbine control valves to function on demand, and is acceptable.

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III. Environmental Consideration

The amendment involves a change in the 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 amendment involves 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 Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration, and there have been no public comments on such finding. Accordingly, the amendment meets 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 amendment.

IV. Conclusion

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register on November 20, 1985 (50 FR 47860) 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 (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: Kahtan Jabbour, PWR Project Directorate #4
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Division of BWR Licensing

Dated: February 12, 1986

DISTRIBUTION:

Amendment No. 3 to NPF-35

Dated February 12, 1986

Docket File ←

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Local PDR

PRC System

NSIC

PWR#4 Rdg

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KJabbour

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OELD

LHarmon

EJordan

BGrimes

JPartlow

TBarnhart (4)

WJones

ACRS (10)

OPS

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