

Docket Nos. 50-369
and 50-370

Mr. T. C. McMeekin
Vice President, McGuire Site
Duke Power Company
12700 Hagers Ferry Road
Huntersville, North Carolina 28078-8985

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E.Merschhoff, RII

Dear Mr. McMeekin:

SUBJECT: ISSUANCE OF AMENDMENTS - McGUIRE NUCLEAR STATION, UNITS 1 AND 2
(TAC NOS. M88148 AND M88149)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 140 to Facility Operating License NPF-9 and Amendment No. 122 to Facility Operating License NPF-17 for the McGuire Nuclear Station, Units 1 and 2. The amendments consist of changes to the Technical Specifications (TS) in response to your application dated November 4, 1993.

The amendments revise the TS to allow extended outage time for each train of the control area ventilation system to allow system maintenance to improve system reliability. The one time extension to 14 days (for each train, one at a time) will allow completion of the maintenance activities while one or both units are on-line; otherwise, it would be necessary to shut down both units to complete the maintenance activities or to divide the maintenance activities into less than 7-day segments, which would increase unavailability of one control area ventilation system.

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:

Victor Nerses, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Enclosures:

1. Amendment No. 140 to NPF-9
2. Amendment No. 122 to NPF-17
3. Safety Evaluation

cc w/enclosures:

See next page

OFFICE	PDII-3/LA	PDII-3/PM	OGC	PDII-3/D	SPLB
NAME	L. BERRY	V. NERSES	R. Bachmann	L. PLISCO D. MATTHEWS	C. MCCracken
DATE	1/16/93	1/25/94	2/4/94	2/10/94	1/28/94

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170050

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Mr. T. C. McMeekin
Duke Power Company

McGuire Nuclear Station

cc:

A. V. Carr, Esquire
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242-0001

Mr. Dayne H. Brown, Director
Department of Environmental,
Health and Natural Resources
Division of Radiation Protection
P. O. Box 27687
Raleigh, North Carolina 27611-7687

County Manager of Mecklenberg County
720 East Fourth Street
Charlotte, North Carolina 28202

Mr. Alan R. Herdt, Chief
Project Branch #3
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW. Suite 2900
Atlanta, Georgia 30323

Mr. R. O. Sharpe
Compliance
Duke Power Company
McGuire Nuclear Site
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

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

J. Michael McGarry, III, Esquire
Winston and Strawn
1400 L Street, NW.
Washington, DC 20005

Mr. G. A. Copp
Licensing - EC050
Duke Power Company
526 South Church Street
Charlotte, North Carolina 28242-0001

Senior Resident Inspector
c/o U. S. Nuclear Regulatory
Commission
12700 Hagers Ferry Road
Huntersville, North Carolina 28078

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

Mr. T. Richard Puryear
Nuclear Technical Services Manager
Westinghouse Electric Corporation
Carolinas District
2709 Water Ridge Parkway, Suite 430
Charlotte, North Carolina 28217

Dr. John M. Barry
Mecklenberg County
Department of Environmental
Protection
700 N. Tryon Street
Charlotte, North Carolina 28202



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

DUKE POWER COMPANY

DOCKET NO. 50-369

McGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 140
License No. NPF-9

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the McGuire Nuclear Station, Unit 1 (the facility), Facility Operating License No. NPF-9 filed by the Duke Power Company (licensee) dated November 4, 1993, 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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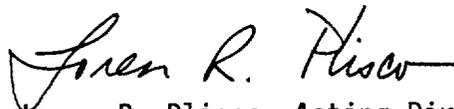
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachment to this license amendment, and Paragraph 2.C.(2) of Facility Operating License No. NPF-9 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 140, are hereby incorporated into this 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



Loren R. Plisco, Acting Director
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification
Changes

Date of Issuance: February 10, 1994



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

DUKE POWER COMPANY

DOCKET NO. 50-370

McGUIRE NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 122
License No. NPF-17

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the McGuire Nuclear Station, Unit 1 (the facility), Facility Operating License No. NPF-17 filed by the Duke Power Company (licensee) dated November 4, 1993, 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-17 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No.122 , are hereby incorporated into this 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



Loren R. Plisco, Acting Director
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification
Changes

Date of Issuance: February 10, 1994

ATTACHMENT TO LICENSE AMENDMENT NO. 140

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

AND

TO LICENSE AMENDMENT NO. 122

FACILITY OPERATING LICENSE NO. NPF-17

DOCKET NO. 50-370

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 areas of change.

Remove Page

3/4 7-13

Insert Page

3/4 7-13

PLANT SYSTEMS

3/4.7.6 CONTROL AREA VENTILATION SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.6 Two independent Control Area Ventilation Systems shall be OPERABLE.

APPLICABILITY: ALL MODES

ACTION: (Units 1 and 2)

MODES 1, 2, 3 and 4:

- a. With one Control Area Ventilation System inoperable for reasons other than the heaters specified in 4.7.6.b and 4.7.6.e.4, restore the inoperable system to OPERABLE status within 7* days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With the heaters tested in 4.7.6.b and 4.7.6.e.4 inoperable, restore the inoperable heaters to OPERABLE status within 7 days, or file a Special Report in accordance with Specification 6.9.2 within 30 days, specifying the reason for inoperability and the planned actions to return the heaters to OPERABLE status.

MODES 5 and 6:

- a. With one Control Area Ventilation System inoperable for reasons other than the heaters specified in 4.7.6.b and 4.7.6.e.4, restore the inoperable system to OPERABLE status within 7 days or initiate and maintain operation of the remaining OPERABLE Control Area Ventilation System in the recirculation mode; and
- b. With both Control Area Ventilation Systems inoperable for reasons other than the heaters specified in 4.7.6.b and 4.7.6.e.4, or with the OPERABLE Control Area Ventilation System, required to be in the recirculation mode by ACTION a., not capable of being powered by an OPERABLE emergency power source, suspend all operations involving CORE ALTERATIONS or positive reactivity changes.
- c. The provisions of Specification 3.0.4 are not applicable.
- d. With the heaters tested in 4.7.6.b and 4.7.6.e.4 inoperable, restore the inoperable heaters to OPERABLE status within 7 days, or file a Special Report in accordance with Specification 6.9.2 within 30 days, specifying the reason for inoperability and the planned actions to return the heaters to OPERABLE status.

* A one time allowed outage time extension to 14 days is granted for each train, one at a time, to allow for maintenance on the chiller package of each train. No transport of toxic gas containers on site is to occur during this time.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 140 TO FACILITY OPERATING LICENSE NPF-9
AND AMENDMENT NO. 122 TO FACILITY OPERATING LICENSE NPF-17
DUKE POWER COMPANY
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2
DOCKET NOS. 50-369 AND 50-370

1.0 INTRODUCTION

By letter dated November 4, 1993, Duke Power Company (the licensee) submitted a request for changes to the McGuire Nuclear Station, Units 1 and 2, Technical Specifications (TS). The requested changes would provide a one-time extension of the allowed outage time for each of the two trains of the Control Area Ventilation (VC) System to facilitate maintenance on the system that is needed to improve system reliability. The VC system provides filtration and cooling for the control room. McGuire TS 3.7.6 requires both independent VC Systems to be operable in all modes. With one VC System inoperable during Modes 1, 2, 3 or 4, the TS requires the operators to restore the inoperable system to operable status within 7 days or both McGuire Units are to be in at least Hot Standby within the next 6 hours and in Cold Shutdown within the following 30 hours. Similarly, with one VC System inoperable during Modes 5 or 6, the operator is to restore the inoperable system to operable status within 7 days or initiate and maintain operation of the remaining operable VC System in the recirculation mode. The proposed change would add a footnote to TS 3.7.6, referenced after the specified 7 days, to state that a one-time extension of the allowed outage time to 14 days is granted for each train, one at a time, to allow major maintenance on certain system components.

2.0 EVALUATION

The proposed major maintenance is on the chiller for each train of the VC system and will include chiller transmission rebuilding, replacement of motor bearing and replacement of the windage baffle (a vendor recommendation). The licensee stated that the VC system has been in service for more than 12 years and has reached a point that requires this major maintenance.

The licensee states that estimates for the planned maintenance indicate that the allowed TS outage time of 7 days is insufficient to complete the maintenance. The licensee believes that 14 days will be sufficient to complete the maintenance activities and will take steps to reduce that time as much as possible. Some of the methods to reduce the downtime include continued planning, training on "mock-ups," prefabrication and organization of parts and components. Also, the licensee plans to do this system maintenance during the colder months of the year (February-March 1994) to allow for more control room cooling through the outside air intake. This reduces the operational load on the remaining operating chiller, thus, providing additional assurance that the system remains operable.

The specific function of the filter train fans is to maintain, in a radiological emergency, such as in a core melt accident, a positive pressure in the common control room to prevent in-leakage of potentially contaminated (unfiltered) air and to provide for the flow of outside air (required for pressurization) through the control room area filter package. Another function of the VC system is to prevent in-leakage of toxic gas in the event of a toxic gas spill.

For a radiological emergency that would represent a significant radioactive release requiring use of the filter train of the VC system, multiple safety system (Emergency Core Cooling System, operable VC system, Containment system) failures would have to occur. Such a total failure during the additional 7 days of requested allowed outage time is not considered a credible event.

The licensee notes that gaseous chlorine is the only toxic gas normally onsite that may be drawn into the VC intake. The VC outside air intake has chlorine sensors which automatically isolate the affected intake upon detection of chlorine. These sensors are train-related and having one train down for an extended period of time will not affect the ability of the other train to isolate on chlorine detection. The licensee stated that, as an additional precaution to further minimize the probability of a chlorine release from the only potential source at the site (approximately 2 150-pound bottles), the transport of chlorine on-site will be prohibited during the system modification.

Furthermore, air mask and self-contained breathing apparatus and thyroid dose blocking potassium iodide pills are readily available to the control room operators in the unlikely event that they are needed to protect the operators in a radiological or toxic gas emergency.

The staff has reviewed the licensee's submittal and, based on this review, has determined that the proposed maintenance to the design of the VC system will result in an improvement in the reliability of the system and, therefore, an improvement in safety. The staff further finds that the risks associated with implementing the maintenance are negligible. Therefore, the proposed change to the TS is acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the North 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 (58 FR 62155 dated November 24, 1993). 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 Commission 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: Victor Nerses

Date: February 10, 1994