

April 03, 1995

Mr. T. C. McMeekin  
Vice President, McGuire Site  
Duke Power Company  
12700 Hagers Ferry Road  
Huntersville, North Carolina 29745

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T. Dunning, OTSB

Dear Mr. McMeekin:

SUBJECT: ISSUANCE OF AMENDMENTS - MCGUIRE NUCLEAR STATION, UNITS 1 AND 2,  
RADIATION MONITORING INSTRUMENTATION SURVEILLANCE INTERVAL  
(TAC NOS. M91475 AND M91476)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 154 to Facility Operating License NPF-9 and Amendment No. 136 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 January 18, 1995.

The amendments revise TS Table 4.3-3 to allow the analog channel operational test interval for radiation monitoring instrumentation to be increased from monthly to quarterly, and are consistent with the guidance in Generic Letter 93-05, "Line-Item Technical Specifications Improvements to Reduce Surveillance Requirements for Testing During Power Operation."

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,

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

Docket Nos. 50-369 and 50-370

Enclosures:

1. Amendment No. 154 to NPF-9
2. Amendment No. 136 to NPF-17
3. Safety Evaluation

cc w/enclosures:

See next page

OFFICE	PDII-3/LA	PDII-3/PM	OGC		PDII-3/D
NAME	L. BERRY	V. NERSES	<i>5/10/95 Subject to 30 day notice</i>		H. BERKOW
DATE	3/2/95	2/7/95	3/6/95	1/95	3/31/95

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 3, 1995

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

SUBJECT: ISSUANCE OF AMENDMENTS - MCGUIRE NUCLEAR STATION, UNITS 1 AND 2,  
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Sincerely,

A handwritten signature in cursive script, reading "Victor Nerses", is written over the typed name.

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

Docket Nos. 50-369 and 50-370

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2. Amendment No. 136 to NPF-17
3. Safety Evaluation

cc w/enclosures: See next page

Mr. T. C. McMeekin  
Duke Power Company

McGuire Nuclear Station

cc:

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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. 154  
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 January 18, 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-9 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 154 , and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, 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 and shall be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Technical Specification  
Changes

Date of Issuance: April 3, 1995



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. 136  
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 2 (the facility) Facility Operating License No. NPF-17 filed by the Duke Power Company (licensee) dated January 18, 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-17 is hereby amended to read as follows:

Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 136 , and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, 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 and shall be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Technical Specification  
Changes

Date of Issuance: April 3, 1995

ATTACHMENT TO LICENSE AMENDMENT NO. 154

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

AND

TO LICENSE AMENDMENT NO. 136

FACILITY OPERATING LICENSE NO. NPF-17

DOCKET NO. 50-370

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.

Remove Pages

3/4 3-43  
3/4 3-44

Insert Pages

3/4 3-43  
3/4 3-44



TABLE 4.3-3

RADIATION MONITORING INSTRUMENTATION FOR PLANT  
OPERATIONS SURVEILLANCE REQUIREMENTS

<u>MONITOR</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>ANALOG CHANNEL OPERATIONAL TEST</u>	<u>MODES REQUIRING SURVEILLANCE</u>
1. Containment Atmosphere Gaseous Radioactivity- High (Low Range-EMF-39)	S	R	Q	1, 2, 3, 4
2. Spent Fuel Pool Ventilation Radioactivity-High (EMF-42)	S	R	Q	**
3. Criticality-High Radiation Level (Unit 1 - 1EMF-17 and Unit 2 - 2EMF-4)	S	R	Q	*
4. Gaseous Radioactivity- RCS Leakage Detection (Low Range-EMF-39)	S	R	Q	1, 2, 3, 4
5. Particulate Radioactivity- RCS Leakage Detection (Low Range-EMF-38)	S	R	Q	1, 2, 3, 4

McGUIRE - UNITS 1 &amp; 2

3/4 3-43

Amendment No. 154 (Unit 1)  
Amendment No. 136 (Unit 2)

TABLE 4.3-3

RADIATION MONITORING INSTRUMENTATION FOR PLANT  
OPERATIONS SURVEILLANCE REQUIREMENTS

<u>MONITOR</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>ANALOG CHANNEL OPERATIONAL TEST</u>	<u>MODES REQUIRING SURVEILLANCE</u>
6. Control Room Air Intake Radioactivity- High (EMF-43a and EMF-43b)	S	R	Q	All

TABLE NOTATION

- \* - With fuel in the fuel handling area.
- \*\* - With irradiated fuel in the fuel handling area.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 154 TO FACILITY OPERATING LICENSE NPF-9  
AND AMENDMENT NO. 136 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 January 18, 1995, 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 revise TS Table 4.3-3 to allow the analog channel operational test interval for radiation monitoring instrumentation to be increased from monthly to quarterly. The amendments are consistent with the guidance in Generic Letter 93-05, "Line-Item Technical Specifications Improvements to Reduce Surveillance Requirements for Testing During Power Operation."

2.0 EVALUATION

The licensee has proposed to change the analog channel operational test interval for the radiation monitoring instrumentation in TS Table 4.3-3 from monthly (M) to quarterly (Q). The NRC staff evaluated this issue as discussed in Section 5.14 of NUREG-1366, "Improvements to Technical Specification Surveillance Requirements," dated December 1992. The following discussion is based on the NUREG report and on the Generic Letter 93-05 that identified potential changes that licensees could propose to facility TS.

As with other instrumentation, radiation monitors are required to undergo three types of surveillances: a channel check, a channel functional test, and a calibration. In addition, a source check, which provides an integral verification of the response of the detector, is performed. The NRC staff found that radiation monitor testing appears to require a large amount of resources and that most failures of radiation monitors can be found from channel checks, source checks, or alarms. The channel functional tests do not involve the sensor (radiation monitor) itself. The revised testing frequency would decrease the licensee burden and increase the availability of the radiation monitoring systems. Accordingly, the staff concluded that the frequency of the channel functional test could be changed to quarterly, subject to licensee verification that the change would be compatible with plant operating experience.

The licensee has performed a review of a sample of completed analog channel operational test procedures for the radiation monitors listed in McGuire's TS. Approximately 12 consecutive monthly tests were analyzed from several

completed procedures per channel. These procedures had been completed in calendar years 1993 and 1994. This emphasized the most recent test history of the radiation monitors. The licensee stated no problems were found that would preclude lengthening the surveillance interval for Analog Channel Operational Tests from monthly to quarterly. The licensee also stated that the radiation monitor performance history as observed over the review period is typical of performance history over the plant life. The NRC staff finds that the licensee has established that the proposed change is consistent with McGuire operating experience and is, therefore, 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 and change surveillance requirements. 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 (60 FR 11132 dated March 1, 1995). 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: V. Nerses

Date: April 3, 1995