

June 11, 1992

Docket Nos. 50-369
and 50-370

Distribution
See next page

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

Dear Mr. McMeekin:

SUBJECT: ISSUANCE OF AMENDMENTS - MCGUIRE NUCLEAR STATION, UNITS 1 AND 2
(TACS M82858/82859)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 133 to Facility Operating License NPF-9 and Amendment No. 115 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 February 5, 1992.

The amendments revise the wording in TS 4.7.7.1a.(2) and TS 4.7.7.1b. to correct an error regarding the acceptance criteria for methyl iodide penetration.

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/

Timothy A. Reed, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 133 to NPF-9
2. Amendment No. 115 to NPF-17
3. Safety Evaluation

NRC FILE CENTER COPY

cc w/enclosures:
See next page

OFC	: PDII-3/LA	: PDII-3/PM	: SPLB	: DEC	: PDVII-3/D
NAME	: LBERRY	: TREDD	: CMCCRACKEN	: RACHMAN	: DMATTHEWS
DATE	: 4/27/92	: 4/27/92	: 5/22/92	: 6/5/92	: 6/10/92

OFFICIAL RECORD COPY

Document Name: @:MCGAUXTS82858.AMD

9206170308 920611
PDR ADDCK 05000369
P PDR

CP-1
2Fol
11

Mr. T. C. McMeekin
Duke Power Company

McGuire Nuclear Station

cc:

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

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

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

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

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

Mr. Frank Modrak
Project Manager, Mid-South Area
ESSD Projects
Westinghouse Electric Corporation
MNC West Tower - Bay 241
P. O. Box 355
Pittsburgh, Pennsylvania 15230

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

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

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

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

Mr. R. L. Gill, Jr.
Licensing
Duke Power Company
P. O. Box 1007
Charlotte, North Carolina 28201-1007

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

DATED: June 11, 1992

AMENDMENT NO. 133 TO FACILITY OPERATING LICENSE NPF-9 - McGuire Nuclear
Station, Unit 1

AMENDMENT NO. 115 TO FACILITY OPERATING LICENSE NPF-17 - McGuire Nuclear
Station, Unit 2

DISTRIBUTION:

Docket File
NRC & Local PDRs

PD II-3 R/F
McGuire R/F

S. Varga	14-E-4
D. Matthews	14-H-25
L. Berry	14-H-25
T. Reed	14-H-25
OGC-WF	15-B-18
D. Hagan	MNBB 4702
G. Hill (8)	P1-37
W. Jones	MNBB 7103
C. Grimes	11-F-23
ACRS (10)	P-135
PA	2-G-5
OC/LFMB	MNBB 4702



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

DUKE POWER COMPANY

DOCKET NO. 50-369

McGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 133
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 February 5, 1992, 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. 133, 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



David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification
Changes

Date of Issuance: June 11, 1992



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

DUKE POWER COMPANY

DOCKET NO. 50-370

McGUIRE NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 115
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 February 5, 1992, 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. 115, 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



David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects-I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification Changes

Date of Issuance: June 11, 1992

ATTACHMENT TO LICENSE AMENDMENT NO. 133

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

AND

TO LICENSE AMENDMENT NO. 115

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 7-17

Insert Page

3/4 7-17

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- (1) Verifying that the cleanup system satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 1% and uses the test procedure guidance of Regulatory Positions C.5.a, C.5.c and C.5.d of Regulatory Guide 1.52, Revision 2, March 1978, and the system flow rate is 45,700 cfm \pm 10% (both fans operating - Unit 1) or 40,500 cfm \pm 10% (both fans operating - Unit 2);
 - (2) Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets an acceptance criteria for methyl iodide penetration of less than 10% at 30°C test temperature, and
- b. After every 1440 hours of carbon adsorber operation, by verifying, within 31 days after removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets an acceptance criteria for methyl iodide penetration of less than 10% at 30°C test temperature, and
 - c. At least once per 18 months, by verifying that the pressure drop across the combined HEPA filters and carbon adsorber banks of less than 6 inches Water Gauge while operating the system at a flow rate of 45,700 cfm \pm 10% (both fans operating - Unit 1) or 40,500 cfm \pm 10% (both fans operating - Unit 2), and
 - d. After each complete or partial replacement of a HEPA filter bank, by verifying that the HEPA filter bank satisfies the in-place penetration and bypass leakage testing criteria of less than 1% in accordance with ANSI N510-1980 for a DOP test aerosol while operating the system at a flow rate of 45,700 cfm \pm 10% (both fans operating - Unit 1); or 40,500 cfm \pm 10% (both fans operating - Unit 2); and
 - e. After each complete or partial replacement of a carbon adsorber bank, by verifying that the carbon adsorber satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 1% in accordance with ANSI N510-1980 for a halogenated hydrocarbon refrigerant test gas while operating the system at a flow rate of 45,700 cfm \pm 10% (both fans operating - Unit 1) or 40,500 cfm \pm 10% (both fans operating - Unit 2).

4.7.7.2 Each Unit's Auxiliary Building Filtered Ventilation Exhaust System flowpath shall be demonstrated OPERABLE:

- a. At least once per 31 days, by initiating, from the control room, flow through the HEPA filters and carbon adsorbers and verifying that the system operates for at least 15 minutes.
- b. At least once per 18 months, or (1) after any structural maintenance on the HEPA filter or carbon adsorber housings, or (2) following



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 133 TO FACILITY OPERATING LICENSE NPF-9
AND AMENDMENT NO. 115 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 February 5, 1992, the 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 the wording in TS Surveillance Requirements (SRs) 4.7.7.1a.(2) and TS 4.7.7.1b. to correct an error regarding the acceptance criteria for methyl iodide penetration.

2.0 EVALUATION

The staff, in its Safety Evaluation Report (SER) dated September 12, 1990 (TS Amendment No. 113 and No. 95 to Facility Operating Licenses NPF-9 and NPF-17), found a 10% methyl iodide penetration (corresponding to a methyl iodide removal efficiency of greater than or equal to 90%) for the carbon adsorber in the auxiliary building filtered ventilation exhaust system to be an acceptable change for TS SRs 4.7.7.1a.(2) and 4.7.7.1b. The staff found this acceptance criteria to be acceptable based on the staff's independent offsite dose calculation that assumed a carbon filter removal efficiency of 70% for elemental iodine and 50% removal efficiency for organic iodide (refer to the staff's September 12, 1990, SER).

The current proposed TS amendments revise SR 4.7.7.1 to correctly reflect the staff's findings in TS Amendments 113 and 95 for McGuire Units 1 and 2. As such, the proposed changes are 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 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 (57 FR 13129, dated April 15, 1992). 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: T. A. Reed, NRR/PDII-3

Date: June 11, 1992