

September 18, 1990

Docket Nos. 50-369
and 50-370

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
P.O. Box 1007
Charlotte, North Carolina 28201-1007

Dear Mr. Tucker:

SUBJECT: ISSUANCE OF AMENDMENT NO. 114 TO FACILITY OPERATING LICENSE NPF-9 AND
AMENDMENT NO. 96 TO FACILITY OPERATING LICENSE NPF-17 - MCGUIRE
NUCLEAR STATION, UNITS 1 AND 2 (TACS 76645/76646)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 114 to Facility Operating License NPF-9 and Amendment No. 96 to Facility Operating License NPF-17 for the McGuire Nuclear Station, Units 1 and 2. These amendments consist of changes to the Technical Specifications (TSs) in response to your application dated April 24, 1990.

The amendments relocate tabular listings of containment penetration conductor overcurrent protective devices from the TSs to Chapter 16 of the Final Safety Analysis Report, "Selected Licensee Commitment Manual."

A copy of the related Safety Evaluation supporting the amendments is, also enclosed. Notice of issuance of the amendments will be included in the Commission's biweekly Federal Register notice.

Sincerely,

Original signed by:

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

Enclosures:

- 1. Amendment No. 114 to NPF-9
- 2. Amendment No. 96 to NPF-17
- 3. Safety Evaluation

cc w/enclosures:
See next page

OFFICIAL RECORD COPY
Document Name: MCGUIRE AMEND TABLES

LA:PDII3 RIngram 8/24/90	DSN PM:PDII3 DHood 6/27/90	OGC Bart 9/29/90	D:PDII3 DMatthews 9/17/90	GRJ SERIA F. ROSA 8/28/90
--------------------------------	-------------------------------------	------------------------	---------------------------------	------------------------------------

Handwritten signature/initials

Handwritten initials: JFD/11

9010020086 900918
PDR ADDCK 05000369
P PDC

Mr. H. B. Tucker
Duke Power Company

McGuire Nuclear Station

cc:

Mr. A.V. Carr, Esq.
Duke Power Company
P. O. Box 33189
422 South Church Street
Charlotte, North Carolina 28242

Dr. John M. Barry
Department of Environmental Health
Mecklenburg County
1200 Blythe Boulevard
Charlotte, North Carolina 28203

County Manager of Mecklenburg County
720 East Fourth 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. J. S. Warren
Duke Power Company
Nuclear Production Department
P. O. Box 33189
Charlotte, North Carolina 28242

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

J. Michael McGarry, III, Esq.
Bishop, Cook, Purcell and Reynolds
1400 L Street, N.W.
Washington, D. C. 20005

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

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, N.W., Suite 2900
Atlanta, Georgia 30323

Ms. S. S. Kilborn
Area Manager, Mid-South Area
ESSD Projects
Westinghouse Electric Corporation
MNC West Tower - Bay 239
P. O. Box 355
Pittsburgh, Pennsylvania 15230



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. 114
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 (the licensee) dated April 24, 1990, 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.

9010020091 900918
PDR ADOCK 05000369
P PDC

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. 114, are hereby incorporated into the 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: September 18, 1990



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. 96
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 (the licensee) dated April 24, 1990, 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. 96, are hereby incorporated into the 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: September 18, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 114

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

AND

TO LICENSE AMENDMENT NO. 96

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. The corresponding overleaf page is also provided to maintain document completeness.

Remove Pages

XIII
3/4 8-17
3/4 8-18
3/4 8-19
3/4 8-20 thru
8/4 8-96

Insert Pages

XIII
3/4 8-17*
3/4 8-18
3/4 8-19

*Overleaf

INDEX

LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

<u>SECTION</u>	<u>PAGE</u>
TABLE 4.8-2 LOAD SEQUENCING TIMES.....	3/4 8-9
Shutdown.....	3/4 8-10
3/4.8.2 D.C. SOURCES	
Operating.....	3/4 8-11
TABLE 4.8-3 BATTERY SURVEILLANCE REQUIREMENTS.....	3/4 8-14
Shutdown (Units 1 and 2).....	3/4 8-15
3/4.8.3 ONSITE POWER DISTRIBUTION SYSTEMS	
Operating.....	3/4 8-16
Shutdown.....	3/4 8-17
3/4.8.4 ELECTRICAL EQUIPMENT PROTECTIVE DEVICES	
Containment Penetration Conductor Overcurrent Protective Devices.....	3/4 8-18
<u>3/4.9 REFUELING OPERATIONS</u>	
3/4.9.1 BORON CONCENTRATION.....	3/4 9-1
3/4.9.2 INSTRUMENTATION.....	3/4 9-2
3/4.9.3 DECAY TIME.....	3/4 9-3
3/4.9.4 CONTAINMENT BUILDING PENETRATIONS.....	3/4 9-4
3/4.9.5 COMMUNICATIONS.....	3/4 9-6
3/4.9.6 MANIPULATOR CRANE.....	3/4 9-7
3/4.9.7 CRANE TRAVEL - SPENT FUEL STORAGE POOL BUILDING.....	3/4 9-8
FIGURE 3.9-1 REQUIRED PATH FOR MOVEMENT OF TRUCK CASKS.....	3/4 9-9

ELECTRICAL POWER SYSTEMS

ONSITE POWER DISTRIBUTION

SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.8.3.2 As a minimum, the following A.C. electrical busses and inverters shall be OPERABLE and energized:

- a. One - 4160-volt emergency bus,
- b. Two - 600-volt emergency busses in a single train, and
- *c. Two - 120-volt A.C. vital busses energized from their respective inverters connected to their respective D.C. channels.

APPLICABILITY MODES 5 and 6.

ACTION:

With less than the above complement of A.C. busses OPERABLE and energized, establish CONTAINMENT INTEGRITY within 8 hours. Specification 3.8.3.2c. applies to both Units 1 and 2.

SURVEILLANCE REQUIREMENTS

4.8.3.2 The specified A.C. busses and inverters shall be determined energized in the required manner at least once per 7 days by verifying correct alignment and indicated voltage on the busses.

*Required for both Units 1 and 2.

ELECTRICAL POWER SYSTEMS

3/4.8.4 ELECTRICAL EQUIPMENT PROTECTIVE DEVICES

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

LIMITING CONDITION FOR OPERATION

3.8.4.1 All containment penetration conductor overcurrent protective devices shown in FSAR Chapter 16 shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTION:

With one or more of the containment penetration conductor overcurrent protective device(s) shown in FSAR Chapter 16 inoperable:

- a. Restore the protective device(s) to OPERABLE status or de-energize the circuit(s) by tripping the associated backup circuit breaker or racking out or removing the inoperable circuit breaker within 72 hours, declare the affected system or component inoperable, and verify the backup circuit breaker to be tripped or the inoperable circuit breaker racked out or removed at least once per 7 days thereafter; the provisions of Specification 3.0.4 are not applicable to overcurrent devices in circuits which have their backup circuit breakers tripped, their inoperable circuit breakers racked out, or removed, or
- b. Be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.8.4.1 All containment penetration conductor overcurrent protective devices shown in FSAR Chapter 16 shall be demonstrated OPERABLE:

- a. At least once per 18 months:
 - 1) By verifying that the medium voltage (4-15 kV) circuit breakers are OPERABLE by selecting, on a rotating basis, at least 10% of the circuit breakers of each voltage level, and performing the following:
 - a) A CHANNEL CALIBRATION of the associated protective relays,
 - b) An integrated system functional test which includes simulated automatic actuation of the system and verifying that each relay and associated circuit breakers and control circuits function as designed and as specified in FSAR Chapter 16, and

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.

- 2) By selecting and functionally testing a representative sample of at least 10% of each type of lower voltage circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. For the lower voltage circuit breakers the nominal Trip Setpoint and overcurrent response times are listed in FSAR Chapter 16. Circuit breakers found inoperable during functional testing shall be restored OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested; and

- 3) A fuse inspection and maintenance program will be maintained to ensure that:
 - 1. The proper size and type of fuse is installed,
 - 2. The fuse shows no sign of deterioration, and
 - 3. The fuse connections are tight and clean.

- b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 114 TO FACILITY OPERATING LICENSE MPF-9
AND AMENDMENT NO. 96 TO FACILITY OPERATING LICENSE MPF-17
DUKE POWER COMPANY
DOCKET NOS. 50-369 AND 50-370
MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

1.0 INTRODUCTION

By letter dated April 24, 1990, Duke Power Company (the licensee) proposed amendments for McGuire Nuclear Station, Units 1 and 2. The proposed amendments would provide for the relocation of tabular listings of containment penetration conductor overcurrent protective devices from the Technical Specifications (TSs) to Chapter 16 of the Final Safety Analysis Report (FSAR), "Selected Licensee Commitment Manual." Specifically, TS Table 3.8-1a, "Unit 1 Containment Penetration Conductor Overcurrent Protective Devices," and TS Table 3.8-1b, "Unit 2 Containment Penetration Conductor Overcurrent Protective Devices," would be deleted, and references to them in TSs 3/4.8.4 would be changed to reference FSAR Chapter 16. The TS Index would be updated to reflect these deletions.

2.0 EVALUATION

TS Tables 3.8-1a and 3.8-1b list devices (deenergizing circuit breakers and fuses) associated with the protection of containment electrical penetrations and penetration conductors due to excessive current. For each device number, the tables identify location, trip setpoint or continuous rating, response time, and the associated system powered by the circuit. The proposed amendments involve no substantive changes to the contents of the tables, only format changes due to their relocation from the TSs to the FSAR. TS 3.8.4 requires, as a limiting condition for operation (LCO), that the devices listed in these tables be maintained operable while the facility is in Modes 1, 2, 3, and 4; TS 4.8.4 requires, as a surveillance requirement (SR), that the devices periodically be demonstrated operable and functionally tested. These LCOs and SRs would not be changed by the proposed amendments except to reflect the revised location of the tables. Consequently, all of the proposed changes are of an administrative nature.

McGuire FSAR Chapter 16 contains selected licensee commitments, primarily derived from former TSs, to control important plant equipment and operating conditions. The commitments involve systems and components that are part of the licensing basis, as described elsewhere in the FSAR, but that are not of such a level of importance as to require the more rigorous controls associated with TSs. For convenience, Chapter 16 is located in a separate binder entitled "McGuire Nuclear Station Units 1 and 2 Selected Licensee Commitments." A copy is located in the McGuire control room for use by operators along with the TS document. The manual is also received and maintained by holders of the FSAR and

9010020093 900918
PDR ADOCK 05000369
P PDC

key station personnel that are holders of the TSs. Station activities required by these commitments are controlled and implemented in accordance with the licensee's procedures and directives.

In the event future changes are needed to this information in the FSAR, the proposed changes would be evaluated in accordance with the process described in 10 CFR 50.59. Under 10 CFR 50.59, proposed changes determined by the licensee not to involve an unreviewed safety question may be made without prior Commission approval. A report of such changes, including a summary of the safety evaluation of each, would be submitted annually to the Commission. Additionally, the licensee requires that all changes to the FSAR Chapter 16 receive Station Manager approval, and that, upon issuance, all revisions to FSAR Chapter 16 be distributed to holders of the Selected Licensee Commitment Manual, including the NRC. The Commission has determined, as part of its implementation policy for TS improvements, that the lists of these overcurrent protective devices are appropriate for relocation to a document controlled by the licensee under 10 CFR 50.59.

Accordingly, we find that the proposed changes have no adverse impact upon safety and are, therefore, acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve changes in a requirement with respect to the installation or 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 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 these amendments involve no significant hazards consideration, and there has been no public comment on such finding. 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 these amendments.

4.0 CONCLUSION

The Commission's proposed determination that the amendments involve no significant hazards consideration was published in the Federal Register (55 FR 20353) on May 16, 1990. The Commission consulted with the State of North Carolina. No public comments were received, and the State of North 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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Hood, PD#II-3/DRP-I/II

Dated: September 18, 1990

DATED: September 18, 1990

AMENDMENT NO. 114 TO FACILITY OPERATING LICENSE NPF-9 - McGuire Nuclear Station, Unit 1
AMENDMENT NO. 96 TO FACILITY OPERATING LICENSE NPF-17 - McGuire Nuclear Station, Unit 2

DISTRIBUTION:

Docket File	
NRC PDR	
Local PDR	
PD#II-3 R/F	
McGuire R/F	
S. Varga	14-E-4
G. Lainas	14-H-3
D. Matthews	9-H-3
R. Ingram	9-H-3
D. Hood	9-H-3
OGC	15-B-18
D. Hagan	MNBB-3206
E. Jordan	MNBB-3302
G. Hill	P-137
W. Jones	P-130A
J. Calvo	11-F-23
ACRS (10)	P-135
GPA/PA	17-F-2
ARM/LFMB	AR-2015

00158