

July 1, 1982

Docket No. 50-369

Mr. William O. Parker, Jr.
Vice President Steam Production
Duke Power Company
P.O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Parker:

Subject: Issuance of Amendment No. 14 to Facility Operating License
NPF-9 McGuire Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued Amendment No. 14 to Facility Operating License NPF-9 for the McGuire Nuclear Station, Unit 1, located in Mecklenburg County, North Carolina. The amendment consists of a change to the Technical Specifications in response to your application telecopied to us on June 9, 1982. This amendment was authorized by telephone on June 9, 1982, and was confirmed by letter dated June 10, 1982.

The amendment exempts McGuire from the requirements of Technical Specification 3.5.2.c. for 72 hours to allow sufficient time to repair the seismic support system associated with the residual heat exchangers. This amendment was issued on an expedited basis to permit McGuire to remain at power.

A copy of the related safety evaluation report supporting Amendment No. 14 to Facility Operating License NPF-9 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosures:

1. Amendment No. 14
2. Safety Evaluation
3. Federal Register Notice

cc w/encl:
See next page

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| 6/16/82 | 6/17/82 | 6/28/82 | | | |

McGuire

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cc: Mr. W. L. Porter
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Raleigh, North Carolina 27603

County Manager of Mecklenburg County
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Charlotte, North Carolina 28202

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EIS Coordinator
U.S. Environmental Protection Agency
Region IV Office
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Atlanta, Georgia 30308

Chairman, North Carolina
Utilities Commission
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Dr. John M. Barry
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Charlotte, North Carolina 28203

Mr. Paul Bemis
Resident Inspector McGuire NPS
c/o U.S. Nuclear Regulatory Commission
P.O. Box 216
Cornelius, North Carolina 28031

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AMENDMENT NO. 14 TO
FACILITY OPERATING LICENSE NPF-9 - McGUIRE NUCLEAR STATION, UNIT NO. 1

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✓ Docket No. 50-369
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ASLBP
ACRS (16)
W. Jones (10)

DUKE POWER COMPANY

DOCKET NO. 50-369

MCGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 14
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 June 9, 1982, 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, 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-9 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 14, are hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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3. This license amendment was effective June 9, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

S/

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Attachment:
Technical Specification
Changes

Date of Issuance: July 1, 1982

*No legal objection to
form of amendment
S&P review not
requested.*

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| DATE | 6/16/82 | 6/17/82 | 6/17/82 | 6/17/82 | 6/21/82 | 6/21/82 | 6/29/82 |

ATTACHMENT TO LICENSE AMENDMENT NO. 14

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain a vertical line indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Overleaf
Page

3/4 5-6

Amended
Page

3/4 5-5

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EMERGENCY CORE COOLING SYSTEMS

3/4.5.2 ECCS SUBSYSTEMS - T_{avg} greater than or equal to 350°F

LIMITING CONDITION FOR OPERATION

3.5.2 Two independent ECCS subsystems shall be OPERABLE with each subsystem comprised of:

- a. One OPERABLE centrifugal charging pump,
- b. One OPERABLE safety injection pump,
- c. One OPERABLE residual heat removal heat exchanger,*
- d. One OPERABLE residual heat removal pump, and
- e. An OPERABLE flow path capable of taking suction from the refueling water storage tank on a safety injection signal and automatically transferring suction to the containment sump during the recirculation phase of operation.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

- a. With one ECCS subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 72 hours or be in HOT SHUTDOWN within the next 12 hours.
- b. In the event the ECCS is actuated and injects water into the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation cycles to date. The current value of the usage factor for each affected safety injection nozzle shall be provided in this Special Report whenever its value exceeds 0.70.

*For a period of 3 days commencing on June 9, 1982 and running through 9:00 a.m. June 12, 1982, the seismic support system associated with this heat exchanger may be INOPERABLE.

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

4.5.2 Each ECCS subsystem shall be demonstrated OPERABLE:

- a. At least once per 12 hours by verifying that the following valves are in the indicated positions with power to the valve operators removed:

| <u>Valve Number</u> | <u>Valve Function</u> | <u>Valve Position</u> |
|---------------------|-------------------------|-----------------------|
| a. 1NI162A | a. Cold Leg Recirc. | a. Open |
| b. 1NI121A | b. Hot Leg Recirc. | b. Closed |
| c. 1NI152B | c. Hot Leg Recirc. | c. Closed |
| d. 1NI183B | d. Hot Leg Recirc. | d. Closed |
| e. 1NI173A | e. RHR Pump Discharge | e. Open |
| f. 1NI178B | f. RHR Pump Discharge | f. Open |
| g. 1NI100B | g. SI Pump RWST Suction | g. Open |
| h. 1FW27A | h. RHR/RWST Suction | h. Open |
| i. 1NI147A | i. SI Pump Mini flow | i. Open |

- b. At least once per 31 days by:

1. Verifying that the ECCS piping is full of water by venting the ECCS pump casings and accessible discharge piping high points, and
2. Verifying that each valve (manual, power operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position.

- c. By a visual inspection which verifies that no loose debris (rags, trash, clothing, etc.) is present in the containment which could be transported to the containment sump and cause restriction of the pump suction during LOCA conditions. This visual inspection shall be performed:

1. For all accessible areas of the containment prior to establishing CONTAINMENT INTEGRITY, and
2. Of the areas affected within containment at the completion of each containment entry when CONTAINMENT INTEGRITY is established.

- d. At least once per 18 months by:

1. Verifying automatic isolation and interlock action of the RHR system from the Reactor Coolant System when the Reactor Coolant System pressure is above 560 psig.

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 14
TO LICENSE NPF-9
DUKE POWER COMPANY

INTRODUCTION

On June 9, 1982, the licensee, Duke Power Company (Duke) telecopied a letter requesting an emergency technical specification (TS) change that would allow continued operation of the McGuire Unit 1 for a period of three days pursuant to a temporary waiver from the requirements of TS 3.5.2.c. This waiver would allow the seismic support system associated with the residual heat exchangers to be inoperable for a three day period commencing on June 9, 1982, and running through 9:00 a.m. June 12, 1982.

DISCUSSION

An inspection and observation of both residual heat removal (RHR) heat exchangers on June 9, 1982, revealed that two bolts were missing from a vertical bracket on each heat exchanger. It was determined by the licensee that installation of these bolts was necessary to assure the integrity of the heat exchanger during a seismic event. This was due to the additional movement according to the licensee, that could take place which then results in calculated loads exceeding design values. This deficiency violated the provisions of TS 3.5.2 and thus TS 3.0.3 requires that action be initiated to place the plant in a mode where TS 3.5.2 does not apply.

EVALUATION

The staff has reviewed and evaluated the principal considerations presented by the licensee to support a temporary waiver from the requirements of TS 3.5.2.c. Their considerations include (1) the probability of a seismic event occurring during the repair period (maximum 72 hours), (2) ALARA considerations and (3) personnel safety. We agree with the licensee that the probability of an earthquake occurring during the next 3 days with sufficient intensity to adversely affect the RHR heat exchanger is extremely and acceptably small.

When considering ALARA as related to the maintenance, i.e. installation of the missing bolts, of each heat exchanger, it is immediately recognized that the radiation levels in the area of the heat exchangers will be subsequently higher when the plant is placed in a cold shutdown condition with the RHR in operation than during normal operation. Personnel industrial safety in addition to the radiological safety involved in performing the repair during a shutdown condition versus during plant operation will also be adversely affected.

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The staff concludes, based on the information provided by the licensee and our review and assessment, that the proposed temporary waiver to TS 3.5.2.c will not result in an undue risk to the health and safety of the public. The proposed change is therefore acceptable.

ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

CONCLUSION

We have concluded, based on the consideration discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: July 1, 1982

Principal Contributors: D. Brinkman, Licensing Guidance Branch, DST
H. Brammer, Mechanical Engineering Branch, DE
M. Hartzman, Mechanical Engineering Branch, DE
R. Birkel, Licensing Branch No. 4, DL

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-369

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENT

TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 14 to Facility Operating License No. NPF-9, issued to Duke Power Company (licensee) for the McGuire Nuclear Station, Unit 1 (the facility) located in Mecklenburg County, North Carolina.

The amendment was authorized by telephone on June 9, 1982, and was confirmed by letter on June 10, 1982. The amendment exempts McGuire from the requirements of Technical Specification 3.5.2.c. for 72 hours to allow sufficient time to repair the seismic support system associated with the residual heat exchangers. This amendment was issued on an expedited basis to permit McGuire to remain at power.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR 51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

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For further details with respect to this action, see (1) Duke Power Company Letter dated June 9, 1982, (2) Amendment No. 14 to Facility Operating License No. NPF-9 with Appendix A Technical Specification page change, and (3) the Commission's related Safety Evaluation.

All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C., and the Atkins Library, University of North Carolina, Charlotte (UNCC Station), North Carolina 28223. A copy of Amendment No. 14 and the Commission's related Safety Evaluation may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 1st day of July 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

S/

Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing, NRR

*No legal objection to
this notice.
SAR review not
requested.*

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June 17, 1982

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Docket No. 50-369

MEMORANDUM FOR: Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

THRU: Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

FROM: Ralph A. Birkel, Project Manager
Licensing Branch No. 4
Division of Licensing

SUBJECT: ISSUANCE OF AMENDMENT NO. 14 TO FACILITY OPERATING
LICENSE NPF-9 McGUIRE NUCLEAR STATION, UNIT 1

There is no known public correspondence or irreversible impact associated with the issuance of the subject amendment.

S/

Ralph A. Birkel, Project Manager
Licensing Branch No. 4
Division of Licensing

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