

PDR

May 27, 1983

Docket No. 50-370

Mr. H. B. Tucker, Vice President  
Nuclear Production Department  
Duke Power Company  
422 South Church Street  
Charlotte, North Carolina 28242

Dear Mr. Tucker:

Subject: Issuance of Amendment No. 2 to Facility Operating License  
NPF-17 - McGuire Nuclear Station, Unit 2

The U. S. Nuclear Regulatory Commission has issued Amendment No. 2 to Facility Operating License NPF-17. Amendment No. 2 authorizes operation of the McGuire Nuclear Station, Unit 2, at 100 percent power (3411 megawatts thermal). The amendment also changes the license conditions related to environmental equipment and hydrogen control measures and adds a license condition requiring testing of reactor trip breakers. A copy of Amendment No. 2 is enclosed.

Also enclosed is a copy of a related notice, the original of which has been forwarded to the Office of the Federal Register for publication.

Sincerely,

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

Enclosures:

1. Amendment No. 2 to Facility Operating License NPF-17
2. Federal Register Notice

cc w/enclosures:  
See next page

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Mr. H. B. Tucker, Vice President  
Nuclear Production Department  
Duke Power Company  
422 South Church Street  
Charlotte, North Carolina 28242

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

Mr. F. J. Twogood  
Power Systems Division  
Westinghouse Electric Corp.  
P.O. Box 355  
Pittsburgh, Pennsylvania 15230

Mr. G. A. Copp  
Duke Power Company  
Nuclear Production Department  
P.O. Box 33189  
Charlotte, North Carolina 28242

J. Michael McGarry, III, Esq.  
Debevoise & Liberman  
1200 Seventeenth Street, N.W.  
Washington, D. C. 20036

Mr. Wm. Orders  
Senior Resident Inspector  
c/o U.S. Nuclear Regulatory Commission  
Route 4, Box 529  
Huntersville, North Carolina 28078

James P. O'Reilly, Regional Administrator  
U.S. Nuclear Regulatory Commission,  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

R. S. Howard  
Operating Plants Projects  
Regional Manager  
Westinghouse Electric Corporation - R&D 701  
P.O. Box 2728  
Pittsburgh, Pennsylvania 15230

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

Attorney General  
Department of Justice  
Justice Building  
Raleigh, NC 27602

Office of Intergovernmental Relations  
116 West Jones Street  
Raleigh, NC 27603

County Manager of Mecklenburg County  
720 East Fourth Street  
Charlotte, NC 28202

EIS Coordinator  
U.S. Environmental Protection Agency  
Region IV Office  
345 Courtland Street, NE  
Atlanta, GA 30308

Chairman, North Carolina  
Utilities Commission  
430 North Salisbury Street  
Dobbs Building  
Raleigh, NC 27602

Director, Criteria & Standards (ANR-460)  
Office of Radiation Programs  
U.S. Environmental Protection Agency  
Washington, DC 20460

Director, Eastern Environmental  
Radiation Facility  
U.S. Environmental Protection Agency  
P.O. Box 3009  
Montgomery, AL 36193

DUKE POWER COMPANY

DOCKET NO. 50-370

MCGUIRE NUCLEAR STATION, UNIT 2

FACILITY OPERATING LICENSE

AMENDMENT NO. 2  
LICENSE NO. NPF-17

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application, as amended, for license filed by the Duke Power Company (the licensee) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this operating license 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 license amendment is in accordance with 10 CFR Part 51, of the Commission's regulations and all applicable requirements have been satisfied;
2. Facility Operating License NPF-17 is amended as follows:
  - A. Paragraph 2.C.(1) is hereby modified to read as follows:

(1) Maximum Power Level

The licensee is authorized to operate the facility at reactor core power levels not in excess of 3411 megawatts thermal (100% power) in accordance with the conditions specified herein and in Attachment 1 to this license. The preoperational tests, startup tests and other items identified in Attachment 1 to this license shall be completed as specified. Attachment 1 is hereby incorporated into this license.

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B. Paragraph 2.C.(6) is hereby modified to read as follows;

(6) Environmental Qualification (Section 7.8 of SER,  
SSER #4, #5, #6, #7)

The licensee shall environmentally qualify all electrical equipment within the scope of 10 CFR 50.49 in accordance with the implementation requirements of 10 CFR 50.49 (g).

C. Paragraph 2.C.(10)e. 1) is hereby modified to read as follows:

- 1) Prior to startup following the first refueling outage, the licensee shall:
  - a. Install two additional igniter units in the containment lower compartment and four additional igniter units in the containment upper compartment in locations acceptable to the NRC staff.
  - b. Provide a means acceptable to the NRC staff of verifying the operational status of the hydrogen control system in the main control room.
  - c. Provide the capability to actuate the Hydrogen Mitigation System from the control room.

D. Paragraph 2.C.(12) is hereby added to read as follows:

(12) Reactor Trip Breakers (Section 7.2 of SSER #7)

- a. By June 3, 1983, the licensee shall provide a program plan for conducting a life-test of the undervoltage trip attachment. The life-test program is to be reviewed by the staff before implementation.
- b. The licensee shall modify the design of the automatic shunt trip of the main reactor trip breakers to install an independent fusing scheme. This modification shall be implemented on a schedule consistent with the schedule requirements of the NRC Salem Task Force generic program.
- c. The licensee shall implement the reactor trip breaker and reactor trip bypass breaker testing and reporting as described in Table 1.
- d. Within 60 days from issuance of this amendment, the licensee shall provide the upgraded post-trip review

procedures for NRC staff review.

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3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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Darrell G. Eisenhut, Director  
Division of Licensing

Date of Issuance: May 27, 1983

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TABLE 1.

PERIODIC SURVEILLANCE/MAINTENANCE OF REACTOR TRIP BREAKERS AND REACTOR TRIP BYPASS BREAKERS

PRIOR TO EACH STARTUP (if not completed within past 7 days) (Reactor Trip Breakers)	MONTHLY SURVEILLANCE (each breaker every 31 days) (Reactor Trip Breakers)	EVERY 6 MONTHS SURVEILLANCE/MAINTENANCE (Reactor Trip and Reactor Trip Bypass Breakers)
1. functional test of UV trip device independently	1. a. functional test of UV trip device (independent)  b. response time testing of UV/breaker on UV signal from RPS. (event recorders may be used)	1. response time testing of UV/ breaker on UV signal from RPS. (visicorder shall be used and data trended)**
2. functional test of Shunt trip device independently	2. functional test of Shunt trip device independently	2. trip shaft force measurements**
3. functional test of manual reactor trip from the control room		3. UV output force measurement**  4. functional test of Shunt trip device independently  5. servicing/lubrication/adjust- ments in accordance with the licensee's maintenance procedures  6. check the dimensional tolerances of pre- and post-travel of trip tab**  7. Inspect lubricant and cleanliness of Roller Bearing**

\*On failure of any reactor trip breaker or reactor trip bypass breaker, either in service or during testing (on either undervoltage or shunt coils), preserve evidence of failure and notify the Commission pursuant to Technical Specification 6.9.1.10.

\*\*To be performed before and after preventive maintenance.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-370

MCGUIRE NUCLEAR STATION, UNIT NO. 2

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

On March 3, 1983, the U. S. Nuclear Regulatory Commission (the Commission) issued Facility Operating License No. NPF-17 to the Duke Power Company (the licensee) authorizing operation of the McGuire Nuclear Station, Unit 2, (the facility) at reactor core power levels not in excess of 3411 megawatts thermal in accordance with the provisions of the License, the Technical Specifications and the Environmental Protection Plan with a condition limiting operation to five percent of full power (170 megawatts thermal).

The Commission has now issued Amendment No. 2 to Facility Operating License No. NPF-17 which authorizes operation of the McGuire Nuclear Station, Unit 2, at reactor core power levels not in excess of 3411 megawatts thermal in accordance with the provisions of the amended license. As part of this authorization, the amendment also changes the license conditions related to environmental qualification of equipment and hydrogen control measures and adds a license condition requiring testing of reactor trip breakers. The amendment is effective as of the date of issuance.

The McGuire Nuclear Station, Unit 2, is a pressurized water reactor located in Mecklenburg County, North Carolina, approximately 17 miles northwest of Charlotte, North Carolina.

The application for the license complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the

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Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter 1, which are set forth in the amended license. Prior public notice of the overall action involving the proposed issuance of an operating license was published in the Federal Register on October 7, 1974 (39 FR 36037). The increase in power level authorized by this amendment and the conditions contained therein are encompassed by that prior notice.

The Commission has determined that the issuance of this amendment will not result in any environmental impacts other than those evaluated in the Final Environmental Statement since the activity authorized by the license is encompassed by the overall action evaluated in the Final Environmental Statement.

For further details in respect to this action, see (1) Amendment No. 2 to License NPF-17; (2) the Commission's Safety Evaluation Report, dated March 1978 (NUREG-0422), and Supplements 1 through 7; (3) the Final Safety Analysis Report and Amendments thereto; (4) the Final Environmental Statement, dated April 1976 (NUREG-0063) and supplements thereto; (5) the Initial Decisions of the Atomic Safety and Licensing Board, dated April 18, 1979, and May 26, 1981, the Decision of the Atomic Safety and Licensing Appeal Board dated March 30, 1982, and the Commission's Memorandum dated July 27, 1982.

These items are available at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. 20555, and at the Atkins Library, University of North Carolina, Charlotte (UNCC Station), North Carolina 28223. A copy of Amendment No. 2 to Facility Operating License NPF-17 may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing. Copies of the

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Safety Evaluation Report and its Supplements (NUREG-0422) and the Final Environmental Statement and its Supplements (NUREG-0063) may be purchased at current rates from the National Technical Information Service, Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, and through the NRC GPO sales program by writing to the U.S. Nuclear Regulatory Commission, Attention: Sales Manager, Washington, D. C. 20555. GPO deposit account holders may call 301-492-9530.

Dated at Bethesda, Maryland, this 27<sup>th</sup> day of May 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

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

*No legal objection to  
Notice conditioned  
on noted changes  
to 22 & 4th paragraphs*  
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OFFICE	DL:LB#4	DL:LB#4	OELD	DL:LB#4			
SURNAME	MDuncan	RBirke	J. R. GRAY	EAdensam			
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