



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

April 16, 1984

Docket Nos: 50-369  
and 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. 31 to Facility Operating License  
NPF-9 and Amendment No. 12 to Facility Operating License  
NPF-17 - McGuire Nuclear Station, Units 1 and 2

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 31 to Facility Operating License NPF-9 and Amendment No. 12 to Facility Operating License NPF-17 for the McGuire Nuclear Station, Units 1 and 2. These amendments are in response to your letter dated November 18, 1983.

The amendments permit operation of the facilities without 8-hour battery-powered emergency lights provided in the Standby Shutdown Facility and in the access and egress routes through the yard area west of the Turbine Building.

A copy of the related safety evaluation supporting Amendment No. 31 to Facility Operating License NPF-9 and Amendment No. 12 to Facility Operating License NPF-17 is enclosed.

Sincerely,

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

Enclosures:

1. Amendment No. 31 to NPF-9
2. Amendment No. 12 to NPF-17
3. Safety Evaluation

cc w/encl:  
See next page

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Certified By

McGuire

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.  
Bishop, Liberman, Cook, Purcell  
& Reynolds  
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  
Hunterville, North Carolina 28078

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

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

Attorney General  
Department of Justice  
Justice Building  
Raleigh, North Carolina 27602

Office of Intergovernmental Relations  
116 West Jones Street  
Raleigh, North Carolina 27603

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

EIS Coordinator  
U.S. Environmental Protection Agency  
Region IV Office  
345 Courtland Street, N.E.  
Atlanta, Georgia 30308

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

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

Mr. Dayne H. Brown, Chief  
Radiation Protection Branch  
Division of Facility Services  
Department of Human Resources  
P.O. Box 12200  
Raleigh, North Carolina 27605



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. 31  
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 November 18, 1983, 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, 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 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, Facility Operating License No. NPF-9 is changed as follows:
  - A. Change paragraph 2.C.(4) to read:
    - (4) The licensee shall maintain in effect and fully implement all provisions of the approved fire protection plan and the NRC staff's McGuire Safety Evaluation Report Fire Protection Review in Supplement No. 2 to the McGuire Nuclear Station Safety Evaluation

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Report, dated March 1979. Duke Power Company shall comply with Sections III.G, Fire Protection of Safe Shutdown Capability, including Section III.L, Alternative and Dedicated Shutdown Capability, as appropriate; III.J, Emergency Lighting (except for the Standby Shutdown Facility and the exterior access and egress route west of the Turbine Building); and III.O, Oil Collection System for Reactor Coolant Pump, of Appendix R to 10 CFR Part 50, dated November 19, 1980. Section III.G and III.O shall be completed according to the following schedule (III.J having been completed).

- B. Paragraphs 2.C.(4)a. and 2.C.(4)b. remain unchanged.
3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Darrell G. Eisenhut, Director  
Division of Licensing

Date of Issuance: April 16, 1984



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

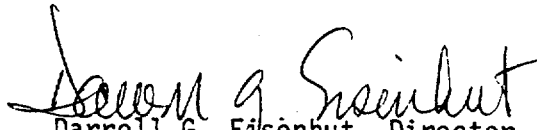
Amendment No. 12  
License No. NPF-17

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 November 18, 1983, 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, 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 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, Facility Operating License No. NPF-17 is changed as follows:
  - A. Change paragraph 2.C.(7)(a) to read:
    - (a) The licensee shall fully implement and maintain in effect all provisions of the approved fire protection plan as amended in September 1982 and the Fire Protection Review in Supplement No. 5 to the McGuire Nuclear Station Safety Evaluation Report, dated

March 1979. Prior to March 1, 1984, the licensee shall meet the technical requirements of Sections III.G, Fire Protection of Safe Shutdown Capability, including Section III.L, Alternative and Dedicated Shutdown Capability, as appropriate; III.J, Emergency Lighting (except for the Standby Shutdown Facility and the exterior access and egress route west of the Turbine Building); and III.O, Oil Collection System for Reactor Coolant Pump, of Appendix R to 10 CFR Part 50, and shall complete to the satisfaction of the NRC all required fire protection items identified in Table 9.5-1 as revised in Supplement No. 6 and Appendix B of Supplement 5 to the Safety Evaluation Report (NUREG-0422, February 1983 and April 1981).

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

FOR THE NUCLEAR REGULATORY COMMISSION

  
Darrell G. Eischenhut, Director  
Division of Licensing

Date of Issuance: April 16, 1984



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

McGUIRE NUCLEAR STATION, UNITS 1 AND 2

DUKE POWER COMPANY

INTRODUCTION

In a letter dated November 18, 1983, the licensee proposed a change to the Unit 1 and Unit 2 operating licenses which would provide a deviation from the requirement for 8-hour battery-powered emergency lights for the Standby Shutdown Facility (SSF) and its access and egress routes through the yard area west of the Turbine Building. This change relates to the requirements of Section III.J., Emergency Lighting, of Appendix R to 10 CFR 50, as described in the respective operating license conditions regarding the Fire Protection Program.

EVALUATION

In August 1983 the licensee reported deviation from the requirements of Facility Operating License No. NPF-9 for McGuire Unit 1 regarding emergency lighting for fire protection. The report stated that some areas in the plant do not have 8-hour battery-powered emergency lights where access is needed for operation of safe shutdown equipment. License Condition 2.C.(4) of NPF-9 for McGuire Unit 1 requires lights in those areas (by referencing 10 CFR 50, Appendix R, Section III.J). License Condition 2.C.(7) of NPF-17 for McGuire Unit 2 also requires this prior to March 1, 1984. The aforementioned report also stated that emergency lights will be added by March 1, 1984, to comply with the license conditions. Subsequent review by the licensee has revealed that additional emergency lights should not be required for the Standby Shutdown Facility (SSF) and the access/egress route through the yard to the SSF.

The SSF is a structure completely separate from those other areas of the plant which contain equipment normally used for safe shutdown of the plant. The emergency shutdown equipment and controls located in the SSF will be used to maintain the plant in a safe shutdown condition if a fire damages normal plant controls or safe shutdown equipment. In the event of a fire necessitating use of the SSF, the plant operators would pass through the turbine building and the yard to go from the main control room to the SSF.

The SSF houses an auxiliary diesel generator which provides the emergency power for plant shutdown from the SSF. Lighting for the SSF is provided by an AC lighting system that is transferable to the SSF auxiliary diesel generator bus after the generator is started. In addition, the SSF contains 90 minute capacity battery-powered emergency lights which actuate upon loss of AC power. The licensee states that 90 minutes is more than enough time to manually transfer the AC lighting of the auxiliary diesel generator bus. Because of this independent, self-contained lighting system, a fire in other plant areas would not affect the availability of lighting for the SSF. In addition, a fire in the SSF would not affect normal safe shutdown equipment and, therefore, would not require the use of the SSF.

The lighting for the yard access/egress is powered from sources located in the turbine building and cables do not enter the auxiliary building. A fire in the turbine building would not require use of the SSF for plant shutdown. The licensee further states that the yard lights, including the power source and cables, would not be affected by a fire in any area which would require use of the SSF for plant shutdown. However, the yard lights would not be available in the event of a loss of offsite power. To ensure safe operator access to the SSF through the yard, the licensee, by letter dated February 20, 1984, committed to provide battery-powered hand lanterns in the control room. We find this method is adequate since the hand lanterns would only be used by the operators to traverse the open yard area to get to the control stations in the SSF.

#### ENVIRONMENTAL CONSIDERATION

We have determined that the amendments do not authorize a change in effluent types or total amount 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 amendments involve an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §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 these amendments.

#### CONCLUSION

Since the SSF is provided with self-contained power and lighting systems and the yard lights, power system and cabling are located outside safe shutdown areas, we conclude that the deviation from the battery-powered emergency lighting requirement of Section III.J of Appendix R to 10 CFR 50 for these areas is justified and that this deviation as reflected in the proposed amended operating license conditions is satisfactory and acceptable.

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (49 FR 7033) on February 24, 1984, and 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 Contributors: E. Sylvester, Auxiliary Systems Branch, DSI  
R. A. Birkel, Licensing Branch No. 4, DL

Dated: April 16, 1984



April 16, 1984

AMENDMENT NO. 31 TO FACILITY OPERATING LICENSE NPF-9 - MCGUIRE NUCLEAR STATION, UNIT 1  
AMENDMENT NO. 12 TO FACILITY OPERATING LICENSE NPF-17 - MCGUIRE NUCLEAR STATION, UNIT 2

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✓ Docket Nos. 50-369/370  
NRC PDR  
Local PDR  
NSIC  
LB #4 r/f  
E. Adensam  
R. Birkel  
M. Duncan  
Attorney, OELD  
R. Diggs, ADM  
T. Barnhart (8)  
ACRS (16)  
E. L. Jordan, DEQA:I&E  
J. N. Grace, DRP:I&E  
L. J. Harmon, I&E File (2)  
D. Brinkman

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