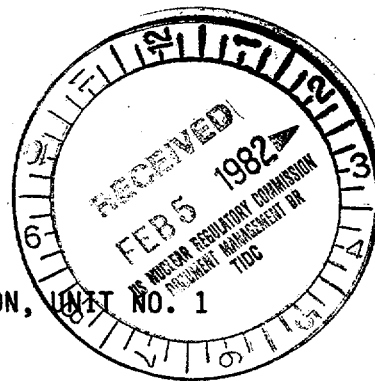


Jan 29, 1982



AMENDMENT NO. 13 TO FACILITY OPERATING LICENSE NPF-9 - McGUIRE NUCLEAR STATION, UNIT NO. 1

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DATE ▶

January 29, 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. 13 to Facility Operating License
NPF-9 - McGuire Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued Amendment No. 13 to Facility Operating License NPF-9 for the McGuire Nuclear Station, Unit 1, located in Mecklenburg County, North Carolina.

This amendment changes the date by which the Commission must confirm the adequacy of the hydrogen control system from January 31, 1982, to prior to startup following the first refueling outage.

A copy of the related safety evaluation report supporting Amendment No. 13 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. 13
2. Safety Evaluation
3. Federal Register Notice

cc w/encl:
See next page

OFFICE	LA:DL:LB.#4	DL:LB.#4	DL:LB.#4				
SURNAME	MDuncan/hmc	RBirkel	EAdensam				
DATE	12/17/81	12/17/81	12/15/81				

McGuire

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

cc: Mr. W. L. Porter
Mr. A. Carr
Duke Power Company
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422 South Church Street
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Mr. R. S. Howard
Power Systems Division
Westinghouse Electric Corp.
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Pittsburgh, Pennsylvania 1530

Mr. E. J. Keith
EDS Nuclear Incorporated
220 Montgomery Street
San Francisco, California 94104

Mr. J. E. Houghtaling
NUS Corporation
2536 Countryside Boulevard
Clearwater, Florida 33515

Mr. Jesse L. Riley, President
The Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

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Washington, D. C. 20036

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Legal Department
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City Hall
Charlotte, North Carolina 28211

Shelley Blum, Esq.
1716 Scales Street
Raleigh, North Carolina 27608

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

Mr. Bruce Blanchard
Environmental Projects Review
Department of the Interior
Room 4256
18th and C Street, N.W.
Washington, D. C. 20240

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

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

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

OFFICE	.....	.....	.....	.....	.....	.....	.....
SURNAME	.....	.....	.....	.....	.....	.....	.....
DATE	.....	.....	.....	.....	.....	.....	.....

DUKE POWER COMPANY

DOCKET NO. 50-369

MCGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 13
License No. NPF-9

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The issuance of this amendment to the McGuire Nuclear Station, Unit 1 (the facility) Facility Operating License No. NPF-9 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, the license is hereby amended as follows:

A. Change paragraph 2.C.(11)h.(1) to read as follows:

(1) Prior to startup following the first refueling outage, the Commission must confirm that an adequate hydrogen control system for the plant is installed and will perform its intended function in a manner that provides adequate safety margins.

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

FOR THE NUCLEAR REGULATORY COMMISSION

S/

Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: January 29, 1982

W.B.
AD/RS
TSpeis
12/15/81

FAB
~~NO~~ *NO*
CONCERN
at this time
See Note.

OFFICE	..LA:DL:LB.#4	..DL:LB.#4	..OELD	..DL:LB.#4	..DL/L	..DIR/L	
SURNAME	..M.Duncan/hmc	..RBirkel	<i>Ketchen</i>	..Edensam	..R.Tedesco	..DEisenhut	
DATE	12/17/81	12/17/81	12/23/81	1/26/82	1/26/81	12/ /81	

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

INTRODUCTION

By letter dated October 30, 1981, the licensee submitted the results of their investigations in which they state the licensing conditions (Ref: McGuire Nuclear Station Unit 1, Operating License NPF-9) for installation of an adequate hydrogen mitigation system by January 31, 1982 are satisfied. An additional license condition requires that for operation beyond January 31, 1982, the Commission must confirm that an adequate hydrogen control system for the plant is installed and will perform its intended function in a manner that provides adequate safety margins.

EVALUATION

The licensee together with the Tennessee Valley Authority (Sequoyah) and American Electric Power Corp. (D. C. Cook) are continuing their cooperative efforts on hydrogen control measures and the possible effects of hydrogen burn on safety functions. The participants in their R & D program have experienced delays in assimilating information from numerous sources outside of the respective utility organization. Complete information is not expected until late December 1981 from the EPRI test program which includes igniter development, hydrogen combustion and mixing studies.

With respect to the survivability of equipment in the event of hydrogen burns, the licensee states that all essential equipment would survive hydrogen burning and could be depended on to operate when hydrogen burning ceased. They consider their analysis to be based on conservative assumptions concerning geometry and heat transfer coefficients, and submit that it considers all relevant forms of heat transfer in multi-dimensional configuration. Modified CLASIX code results used in the analysis show less severe thermal environments than previously assumed which support their conclusion that safety equipment will survive hydrogen burns. The staff's evaluation of equipment survivability will be based on an assessment of the adequacy of the licensee's submittals.

Because additional licensee information did not become available until late December 1981, the staff now anticipates completing its evaluation on the adequacy of the information and the installed permanent hydrogen mitigation system by April 1982. Relatedly, the Commission authorized deferral of the installation of the proposed

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permanent hydrogen mitigation system in Sequoyah Unit 2 until the first refueling (estimated March 1983) to avoid a lengthy forced outage. This was acceptable principally on the basis that the installed interim system is very similar to the proposed final system in that it has the same functional capability, equivalent coverage by location, and diesel generator backup power supply. No information has evolved which would cause the staff to rescind our approval of the mitigation system for interim use.

The delays in completion of the R & D program also adversely affect McGuire Unit #1 in that the staff will not be able to complete its review of the system until well beyond the date when the current license condition for McGuire Unit 1 calls for NRC approval to be completed. The installed McGuire system is comparable to that of Sequoyah with some improvements.

We consider these delays administrative in nature. Since this change entails no significant hazards consideration we will modify License NPF-9 to reflect that the date for the Commission to confirm the adequacy of the system will be changed from January 31, 1982, to prior to the startup following the first refueling for Unit 1.

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: January 29, 1982

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DATE ▶

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-369

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENT

FACILITY OPERATING LICENSE NO. NPF-9

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 13 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. This amendment changes the date by which the Commission must confirm the adequacy of the hydrogen control system from January 31, 1982, to prior to startup following the first refueling outage. The amendment is effective as of its date of issuance.

Issuance of this 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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	PDR ADOCK 05000369						
	P PDR						

For further details with respect to this action, see (2) Amendment No. 13 to Facility Operating License No. NPF-9 and (2) the Commission's related Safety Evaluation.

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 these items 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 29th day of January 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

51

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

PAB
E.K. will cancel at this time. See note.

OFFICE	LA:DL:LB #4	DL:LB #4	OELD	DL:LB #4			
SURNAME	MDuncan/hmc	RBirke1	KETCHEN	EAdensam			
DATE	12/17/81	12/17/81	12/23/81	12/15/82			



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

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RBirkel
MDuncan

February 3, 1982

Docket No. 50-369

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: **McGuire Nuclear Station, Unit 1 (DUKE POWER COMPANY)**

One **is**
~~Two~~ signed originals of the Federal Register Notice identified below ~~are~~ enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (12) of the Notice are enclosed for your use.

- Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- Notice of Availability of Applicant's Environmental Report.
- Notice of Proposed Issuance of Amendment to Facility Operating License.
- Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- Notice of Availability of NRC Draft/Final Environmental Statement.
- Notice of Limited Work Authorization.
- Notice of Availability of Safety Evaluation Report.
- Notice of Issuance of Construction Permit(s).
- Notice of Issuance of Facility Operating License(s) ~~or~~ Amendment(s).
- Other: _____

Office of Nuclear Reactor Regulation

Enclosure:
As Stated

OFFICE →	DL: LB#4					
SURNAME →	MDuncan					
DATE →	2/3/82					

Docket No. 50-369

December 17, 1981

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. 13 TO FACILITY OPERATING
LICENSE NPF-9 McGUIRE NUCLEAR STATION, UNIT 1

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

5/

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

8202160248 820129
PDR ADOCK 05000369
P PDR

9. 11/5/81

OFFICE	DL:LB#4	DL:LB#4					
SURNAME	MDuncan:hmc	RBirkel					
DATE	12/11/81	12/17/81					