

September 17, 1981

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. 4 to Facility Operating License  
NPF-9 McGuire Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued Amendment No. 4 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 August 28, 1981. This amendment was authorized by telephone on August 28, 1981, and was confirmed by letter that same date.

This amendment changes the Technical Specifications to prevent inadvertent actuation of the Upper Head Injection System during the performance of the Special Test Program. This amendment was issued on an expedited basis to permit completion of the Special Test Program.

A copy of the related safety evaluation report supporting Amendment No. 4 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,

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Elinor G. Adensam, Acting Chief  
Licensing Branch No. 4  
Division of Licensing  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 4
2. Safety Evaluation
3. Federal Register Notice

cc w/encl:  
See next page

8/29/81

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SURNAME	MDuncan/hmc	RBirkel	EAdensam	PDR ADDCK 05000369		
DATE	9/2/81	9/2/81	9/1/81	PDR		

Mr. William O. Parker, Jr.  
Vice President - Steam Production  
Duke Power Company  
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cc: Mr. W. L. Porter  
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MUS Corporation  
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The Carolina Environmental Study Group  
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Ms. M. J. Graham  
Resident Inspector McGuire NPS  
c/o U.S. Nuclear Regulatory Commission  
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1716 Scales Street  
Raleigh, North Carolina 27608

Mr. David E. Smith

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

U.S. Environmental Protection Agency  
ATTN: Ms. Elizabeth V. Jankus  
Office of Environmental Review  
Room 2119 N, A-104  
401 M Street, S.W.  
Washington, D. C. 20460

Director, Criteria and Standards Div.  
Office of Radiation Programs  
(ANR-460)  
U.S. Environmental Protection Agency  
Washington, D. C. 20460

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

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

OFFICE	City of Charlotte				
SURNAME	Legal Department				
DATE	600 E. Trade Street				
	City Hall				
	Charlotte, North Carolina 28211				

DUKE POWER COMPANY

DOCKET NO. 50-369

MCGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4  
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 August 28, 1981, 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. 4, 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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OFFICIAL RECORD COPY

USGPO: 1981-335-960

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

FOR THE NUCLEAR REGULATORY COMMISSION

*1/*

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

Attachment:  
Technical Specification  
changes

Date of Issuance: September 17, 1981

*E.K. - Amendment  
only  
(Note, however, changes  
to address & comment  
on T.S. (has no bare)).*

OFFICE	LA:DL:LB #4	DL:LB #4	OELD	DL:LB #4	AD:DL		
SURNAME	MDuncan/hmc	RBirke	Ketchen	EAdensam	TEdgar		
DATE	9/2/81	9/2/81	9/7/81	9/10/81	9/16/81		

ATTACHMENT TO LICENSE AMENDMENT NO. 4

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change.

Amended  
Page

7-1

OFFICE ▶	.....	.....	.....	.....	.....	.....	.....
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## Special Test Program

For conducting the special low power test program as described in Section I.G.1 of the Safety Evaluation Report related to the operation of the McGuire Nuclear Station, Supplement Number 4 dated January 1981, the technical specifications may be excepted as follows:

		Test					
Technical Specification		1	2	3	4	5	6
2.1.1	Core Safety Limits	X	X	X	X	X	
2.2.1	Various Reactor Trips						
	Overtemperature $\Delta T$	X	X	X	X	X	X
	Overpower $\Delta T$	X	X	X	X	X	X
	Steam Generator Level	X	X	X	X	X	X
3.1.1.3	Moderator Temperature Coefficient					X	
3.1.1.4	Minimum Temperature for Criticality					X	
3.3.1	Various Reactor Trips						
	Overtemperature $\Delta T$	X	X	X	X	X	X
	Overpower $\Delta T$	X	X	X	X	X	X
	Steam Generator Level	X	X	X	X	X	X
3.3.2	Safety Injection - All automatic functions	X	X	X	X	X	X
	Auxiliary feedwater automatic start	X	X	X	X	X	X
3.4.4	Pressurizer		X	X			X
3.7.1.2	Auxiliary Feedwater				X		X
3.8.1.1	AC Power Sources				X		X
3.8.2.1	AC Onsite Power Distribution System				X		X
3.8.2.3	DC Distribution System				X		X
3.10.3	Special Test Exceptions - Physics Tests					X	
3.5.1.2	Upper Head Injection Accumulators	X	X	X	X	X	X

SAFETY EVALUATION BY THE  
OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 4  
TO LICENSE NPF-9  
DUKE POWER COMPANY

INTRODUCTION

By telecopied letter dated August 28, 1981, the Duke Power Company (the licensee) requested an emergency change to the Technical Specifications appended to Facility Operating License No. NPF-9 for the McGuire Nuclear Station, Unit No. 1. The change would add the following item to Section 7.0, Special Test Program, page 7-1 of the McGuire Technical Specifications:

	Test
Technical Specification	1 2 3 4 5 6
3.5.1.2 Upper Head Injection Accumulator	X X X X X X

Background

The reason for the requested change is to prevent inadvertent actuation of the Upper Head Injection system during the performance of the Special Test Program. The UHI system provides borated water to the reactor in the event of significant depressurization indicating a LOCA.

EVALUATION

The licensee's proposed change was evaluated to assure that adequate core cooling was available based upon the operating history to date of the McGuire Unit No. 1 core with the UHI system temporarily isolated. Based on our evaluation we agree with the licensee's conclusion that plant loss of coolant behavior during the low power testing sequence with UHI temporarily isolated will still have sufficient cooling water available to prevent fuel damage from over heating on a short term basis. The low power level and short operating history support this conclusion.

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### 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 considerations 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: September 17, 1981

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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. 4 to Facility Operating Licensing 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 August 28, 1981, and was confirmed by letter that same date. The amendment changes the Technical Specifications to prevent inadvertent actuation of the Upper Head Injection System during the performance of the Special Test Program. This amendment was issued on an expedited basis to permit completion of the Special Test Program.

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 August 28, 1981, (2) Amendment No. 4 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. 4 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 17<sup>th</sup> day of September 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

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

*G.K.-F.R. notice only  
(Note comment, however,  
SER evaluation is  
rather sparse).*

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DATE	9/2/81	9/2/81	9/9/81	9/9/81			

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Docket No. 50-369  
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September 3, 1981

Docket No. 50-369

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

THRU: Elinor G. Adensam, Acting 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. 4 TO FACILITY OPERATING  
LICENSE NPF-9, MCGUIRE NUCLEAR STATION, UNIT 1

Regarding the issuance of the subject amendment there is no known  
public correspondence associated with this subject and no known irre-  
versible impact.

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

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PDR ADOCK 05000369  
P PDR

OFFICE	DL:LB #4 pas	LA:DL:LB #4	DL:LB #4				
SURNAME	RBirkel/hmc	MDuncan	EAdensam				
DATE	9/3/81	9/3/81	9/3/81				



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

*M. Durcan*

AUG 28 1981

Docket No. 50-360

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:

This confirms our telephone authorization given today (8/28/81) for a change in your Technical Specifications for the McGuire Nuclear Station, Unit No. 1 as requested by your telecopy dated August 28, 1981. Facility Operating License No. NPF-9 is hereby amended by making the following Technical Specification change:

Add exemption for Technical Specification 3.5.1.2 to the list of Special Test Program exemptions on page 7-1 to read:

	TEST					
Technical Specification	1	2	3	4	5	6
3.5.1.2 Upper Head Injection Accumulators	X	X	X	X	X	X

Copies of the license amendment, our evaluation and the Federal Register Notice for this Technical Specification change will be sent to you when completed.

Sincerely,

*R. Tedesco*

Robert L. Tedesco, Assistant Director  
for Licensing  
Division of Licensing

cc: See next page

*Dupe of*

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McGuire

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cc: Mr. W. L. Porter  
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Ms. M. J. Graham  
Resident Inspector McGuire NPS  
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P.O. Box 216  
Cornelius, North Carolina 28031

McGuire Unit #1

50-369

8/28/81

Emergency Technical Specification Change SER

McGuire Unit #1

Via teletype dated August 28, 1981, the Duke Power Company (Duke) requested an emergency technical specification (TS) change that would add the following item to Section 7.0, Special Test Program, page 7-1, of the McGuire Technical Specifications:

Technical Specification	Test					
	1	2	3	4	5	6
3.5-1.2 Upper Head Injection Accumulator	x	x	x	x	x	x

The reason for the requested change is to prevent inadvertent actuation of the <sup>(UHI)</sup> system during the performance of the Special Test Program. The UHI system provides borated water to the reactor in the event of significant depressurization indicating a LOCA.

The licensee's proposed change was evaluated to assure that adequate core cooling was available based upon the operating history to date of the core and with the UHI system temporarily isolated. We agree with the licensee's conclusion that plant loss of coolant behavior during the low power testing sequence with UHI temporarily isolated would still have sufficient cooling water available to prevent fuel damage from over heating on a short term basis. The low power level and short operating history support this conclusion.

Our review of the Lake Tahoe Technical specification change request has resulted in our finding that the proposed change will not impose a significant adverse impact on the health and safety of the public. Thus, we find the licensee's proposed Technical specification change acceptable.

This staff evaluation has been coordinated with: DSI: RSB (FORK) J.D. 8/28/81  
HFS: PTRB (D. FISHER) 8/28/81  
DST: LGB (M. VIRGILIO) 8/28/81

Ralph A. Baker  
Project Mgr., LB #4  
Dir. of Licensing

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

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w/enclosure

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bcc: w/enclosure

✓ Docket No. 50-369  
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