AUGUST 2 8 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. 3 to Facility Operating License NPF-9

McGuire Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued Amendment No. 3 to Facility Operating License NPF-9 for the McGuire Nuclear Station, Unit 1, located in Mecklenburg County, North Carolina.

This amendment is in response to a portion of item 1 in your letter dated August 12, 1981. The remaining items will be addressed in a subsequent amendment. This amendment modifies surveillance requirements of the Engineered Safety Features Actuation System, specifically the Auxiliary Feedwater Suction Pressure-Low Pressure Instrumentation.

A copy of the related safety evaluation report supporting Amendment No. 3 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,

Original signed by:

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

Enclosures:

cc w/encl:

- 1. Amendment No. 3
- Safety Evaluation

Federal Register Notice

See Next Page Dt7: LB#4 DL:LB#4 DL:LB#4 OFFICE model SURNAME MDuncan:eb EAdensam 8/27/81 7781

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
Duke Power Company
P.O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Shelley 1402 Vic. Durham, Nor.

27707

Mr. R. S. Howard Power Systems Division Westinghouse Electric Corp. P.O. Box 355 Pittsburgh, Pennsylvania 1530

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

Mr. J. E. Houghtaling NUS Corporation 2536 Countrysid: Boulevand Clearwater, Florida 33515

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

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

Ms. M. J. Graham Resident Inspector McGuire NPS c/o U.S. Nuclear Regualtory Commission P.O. Box 216 Cornelius, North Carolina 28031 - 2 -

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 M, A-104 401 M Street, S.W. Washington, D. C. 20460

Director, Criteria and Standards Div. Office of Radiation Programs (ANR-450)
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
Raleign, North Carolina 27602

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

Mr. David E. Smith City of Charlotte Legal Department 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

Facility Operating License No. NPF-9 Amendment No. 3

- 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 MPF-9 filed by the Duke Power Company (licensee) dated August 12, 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, 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 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. 3, are hereby incorporated into this license. The licensee
 shall operate the facility in accordance with the Technical Specifications
 and the Environmental Protection Plan.

OFFICE						
SURNAME	8109160142 PDR ADDCK					
DATE	P	PDR				
			••••••	*****************	******************	

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

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

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

Attachment: Technical Specification changes

Date of Issuance: AUGUST - 2 8 1981

& K. Note Server 180 - A PM) Blands

J. R 8/21/81 F. 1805A CER 8/24/8/

			• (~^	CIE , NOSSI
OFFICE	DL:LB#4	DL:LB#4 KNO	OELD	DK:LB#4	AD L	DSI:ICSB DSI:ASB
SURNAME	MDuncan:eb	RBirkel *	Ketchen	EAdensam	RTedesco	RKendall RL 600 PARR
DATE	1	8/46/81	8/12/81	8/1/8/81	8/28/81	8/26/81 8/26/8/
				<i>y</i>		

ATTACHMENT TO LICENSE AMENDMENT NO. 3

FACILITY OPERATING LICENSE NO. NPF-5

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 vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Over		Amended Page		
Pa	<u>ge</u>			
3/4 3/4	3-17 3-22	3/4 3/4	3-18 3-21	

TABLE 3.3-3 (Continued)

INGINEERED SALETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

Eñin	C110N/	AL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	VCITON		
5.		BINE TRIP AND FEEDWALER AFION				•			
	a.	Steam Generator Water Level High-High	3/100р	2/loop in any oper- ating loop	2/loop in each oper- ating loop	1, 2, 3	14*		
6.	CONT SYST	AINMENT PRESSURE CONTRO EM	l.						
	a.	frain A	4	2	3	1, 2, 3, 4	19*		
	b.	Irain B	4	2	3	1, 2, 3, 4	19*		
7.	AUXILIARY LEEDWATER								
	a.	Manual Initiation	2	1	2	1, 2, 3	22		
	b.	Automatic Actuation to	ogic 2	. 1	2	1, 2, 3	21		
	С.	Stm. Gen. Water Level-Low Low							
		i. Start Motor— Driven Pumps	4/stm. gen.	2/stm. gen. any stm gen.	3/stm. gen.	1, 2, 3#	19		
		ii. Start Turbine- Driven Pumps	4/stm. gen.	2/stm. gen. any 2 stm. ge	3/stm. gen n.	1, 2, 3	ļq		
	d.	S.1. Start Motor- Driven Pumps	See Labove (all S.I. initia	ting functions	and requirement	.5)		

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

. <u>F</u> L	UNCTIONA	AL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION			
	e.	Station Blackout Start Turbine-Driven Pump and Motor-Driven Pumps	6-3/Bus	2/Bus Either Bus	2/Bus	1, 2, 3	19			
	f.	Auxiliary Feedwater Suction Pressure-Low	2/pump	2 /pump	2/pump	1, 2, 3	23a			
	g.	Trip of Main Feedwater Pumps Start Motor- Driven Pumps	2 1/p	итр 1/р	rimb 1	, 2#	13			
8.	. LOSS	LOSS OF POWER								
	a.	Grid Degraded Voltage	3/Bus	2/Bus	2/Bus	1, 2, 3, 4	14*			
9.		ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INTERLOCKS								
	a.	Pressurizer Pressure - P-11	3	2	2	1, 2, 3	20a			
	b.	T _{avg} - P-12	4	2	3	3	20b .			
	С.	Steam Generator Level-P-14	3/1oop	2/loop in any operating loop	2/loop in each operat loop	1, 2 ing	20c			
10	о. соит	CONTAINMENT SUMP RECIRCULATION								
	a.	RWST Level-Low	3	2	2	1, 2, 3	14*			

TABLE 3.3-3 (Continued)

ACTION 23

With the number of OPERABLE channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 48 hours or declare the associated valve inoperable and take the ACTION required by Specification 3.7.1.4.

ACTION 23a

With the number of OPERABLE channels less than the total number of channels, restore the inoperable channels to OPERABLE status within 48 hours or declare the associated auxiliary feedwater pump inoperable and take the ACTION required by Specification 3.7.1.2. With channels associated with more than one pump inoperable, immediately declare the associated auxiliary feedwater pumps inoperable and take the ACTION required by Specification 3.7.1.2.

TABLE 3.3-4

FINGINGERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

FUN	CTIONAL UNIT	TRIP SETPOINT	ALLOWABLE VALUES	
1.	SAFETY INJECTION, TURBINE TRIP AND FEEDWATER ISOLATION			
	a. Manual Initiation	Not Applicable	Not Applicable	
	b. Automatic Actuation Logic	Not Applicable	Not Applicable	
	c. Containment PressureHigh	≤ 1.1 psig	≤ 1.2 psig	
	d. Pressurizer PressureLow	≥ 1845 psig	≥ 1835 psiq	
	e. Steam Line PressureLow	≥ 585 psig	≥ 565 psig	
2.	CONTAIMMENT SPRAY			
	a. Manual Initiation	Not Applicable	Not Applicable	
	b. Automatic Actuation Logic	Not Applicable	Not Applicable	
	c. Containment PressureHigh-High	≤ 2.9 psig	≤ 3.0 psig	
3.	CONTAITMENT ISOLATION			
	a. Phise "A" Isolation			
	l. Manual	Not Applicable	Not Applicable	
	 From Safety Injection Automatic Actuation logic 	Not Applicable	Not Applicable	

SAFETY EVALUATION BY THE

OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 3

TO LICENSE NPF-9

DUKE POWER COMPANY

INTRODUCTION

By letter dated August 12, 1981 the licensee (Duke Power Company) proposed modifications to the Technical Specifications for the McGuire Nuclear Station, Unit 1 regarding the auxiliary feedwater low suction pressure instrument channels. The McGuire auxiliary feedwater (AFW) system consists of two motor driven pumps and one turbine driven pump normally aligned to take suction from the non-seismic condensate storage tank (CST). When low suction pressure is sensed at any AFW pump, its suction path is transferred from the CST to the seismically qualified nuclear service water system by opening two valves in series in that pump's suction path. There are two pressure switches in the suction line to each motor driven AFW pump. Low pressure must be sensed by both of these channels (one pressure switch per valve) to effect a transfer. There are four pressure switches in the suction line to the turbine driven AFW pump (two switches for each service water train) which operate in a similar factor.

EVALUATION.

Under the existing Technical Specifications action statement for these pressure channels, one each for the two valves in series, if one channel fails, the licensee has 48 nours to restore that channel to operable status before taking action to shutdown and cooldown the plant. However, another action statement is applied with more than one pressure channel inoperable which requires the plant be placed in hot standby within 7 nours, although the pressure channels are for valves in series.

The proposed modification would allow the licensee 48 nours to restore the inoperable pressure channel(s) for the valves in series for any one AFW pum to OPERABLE status before declaring the pump inoperable. Thus the same action statement would apply regardless of whether one or both pressure channels associated with any one AFW pump are inoperable. We conclude that this is acceptable since the failure of one or both channels results in the same effect on the AFW system (i.e., loss of capability to transfer AFW pump suction for one auxiliary feedwater pump). If inoperable channels are associated with more than one pump, then the associated pumps must be declared inoperable immediately.

he agree with the licensee's conclusion that this proposed change does not alter requirements for redundant AFW pumps and does not result in any adverse safety implications. This change also is consistent with the requirements of IEEE Sta. 279, and therefore, is acceptable.

Environmental Consideration

We nave determined that the amendment does not authorize a change in effluent types of 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 $10\ \text{CFR}$ Section environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the

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 nealth and safety of the public.

DATE: AUGUST 2 8 1981

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. 3 to Facility Operating License No. MPF-9, issued to Duke Power Company (licensee) for the McGuire Nuclear Station, Unit 1 (the facility) located in Mecklenburg County, North Carolina. This amendment modifies surveillance requirements of the Engineered Safety Features Actuation System, specifically the Auxiliary Feedwater Suction Pressure-Low Pressure Instrumentaion. The amendment is effective as of its date of issuance.

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.

NI P			PDR		OFFICIAL	PECOPD C	OPV	☆ USGPO: 1980—329-824
- PDK ADUCK ODOOODS -		, , , , , , , , , , , , ,				 		
	1	,	-			1		
SURNAME	,							
OFFICE								

For further details with respect to this action, see (1) Duke Power Company letter dated August 12, 1981, (2) Amendment No. 3 to Facility Operating License No. NPF-9 with Appendix A Technical Specification page changes, 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. 3 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 28 day of August 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

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

OFFICE

DL:LB#4 (ハン) 8/1/6 /81

OELD

DL; LB#4 EAdersam AMENDMENT NO. 3 TO FACILITY OPERATING LICENSE NPF-9 - MCGUIRE NUCELAR STATION, UNIT NO. 1

DISTRIBUTION: w/enclosure

Branch Files R. Birkel

Licensing Assistant Br. #4

M. Duncan I&E (5)

E. Ketchen, OELD

G. Deegan (4)

E. Adensam

MPA

A. Toalston, DE

I. Dinitz, DE

R. Diggs, ADM

D. Eisenhut

R. Purple

R. Tedesco

T. Novak

F. Miralgia

B. J. Youngblood

J. Miller

A. Schwencer

S. Hanauer

R. Vollmer

R. Mattson

R. Murley

NMSS

bcc: w/enclosure

Docket No. 50-369 NRC PDR

Local PDR

NSIC

TERA

A. Rosenthal, ASLAB

ASLBP

ACRS (16)

B. Scharf - 10

