Docket Nos.: 50-369 and 50-370

September 29, 1986

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. 63to Facility Operating License NPF-9 and Amendment No. 44to Facility Operating License NPF-17 - McGuire Nuclear Station, Units 1 and 2

The Nuclear Regulatory Commission has issued the enclosed Amendment No.63 to Facility Operating License NPF-9 and Amendment No.44 to Facility Operating License NPF-17 for the McGuire Nuclear Station, Units 1 and 2. These amendments consist of changes to the Technical Specifications in response to your letters dated July 15, 1985, March 12, May 14, and July 14, 1986. Other changes requested in these letters will be addressed in a future amendment.

The amendments change Technical Specification Table 3.6-2 related to containment isolation valves. The amendments are effective as of their date of issuance.

A copy of the related safety evaluation supporting Amendment No.63 to Facility Operating License NPF-9 and Amendment No.44 to Facility Operating License NPF-17 is enclosed.

Notice of issuance of amendments will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,  $\sqrt{5}$ 

Darl Hood, Project Manager PWR Project Directorate #4 Division of PWR Licensing-A

Enclosures:

- 1. Amendment No. 63to NPF-9
- 2. Amendment No. 44to NPF-17
- 3. Safety Evaluation

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cc w/enclosures: See next page



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PWR#A/DPWR-A	PWR#4/DPWR-A
MDuncan/mac	DWigginton
09/15/86	09/15/86

ADOCK 05000369

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PWR#4/DPWR-A DHood 09/15 /86

PWR#4/DPWR-A BJYoungblood 09<u>4</u>5/86 Mr. H. B. Tucker Duke Power Company

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. Robert Gill Duke Power Company Nuclear Production Department P. O. Box 33189 Charlotte, North Carolina 28242

J. Michael McGarry, III, Esq. Bishop, Liberman, Cook, Purcell and Reynolds 1200 Seventeenth Street, N.W. Washington, D. C. 20036

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

Regional Administrator, Region II U.S. Nuclear Regulatory Commission, 101 Marietta Street, N.W., Suite 2900 Atlanta, Georgia 30323

L. L. Williams Operating Plants Projects Regional Manager Westinghouse Electric Corporation - R&D 701 P. O. Box 2728 Pittsburgh, Pennsylvania 15230 McGuire Nuclear Station

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

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

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

Mr. Dayne H. Brown, Chief Radiation Protection Branch Division of Facility Services Department of Human Resources 701 Barbour Drive Raleigh, North Carolina 27603-2008 DATED: September 29, 1986

AMENDMENT NO. 63TO FACILITY OPERATING LICENSE NPF-9 - McGuire Nuclear Station, Unit 1 AMENDMENT NO. 44TO FACILITY OPERATING LICENSE NPF-17 - McGuire Nuclear Station, Unit 2

**DISTRIBUTION:** Docket File 50-369/370 NRC PDR Local PDR PRC System NSIC PWR#4 R/F BJYoungblood R/F MDuncan DHood HThompson **OELD JPartlow** BGrimes EJordan LHarmon WJones TBarnhart (8) ACRS (10) OPA LFMB NThompson EButcher RGiardina

#### 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. 63 License No. NPF-9

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendment to the McGuire Nuclear Station, Unit 1 (the facility) Facility Operating License No. NPF-9 filed by the Duke Power Company (the licensee) dated July 15, 1985, March 12, May 14, and July 14, 1986, comply 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 amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - 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.



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- 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. $^{63}$ , are hereby incorporated into the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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Darl Hood, Project Manager PWR Project Directorate #4 Division of PWR Licensing-A

Attachment: Technical Specification Changes

Date of Issuance: September 29, 1986

PWR#4/DBWR-A MDuncan:mac 09/15/86 PWR#4/DPWR-A DWigginton 09/15/86

55H PWR#4/DPWR-A DHood 09/15 /86

0GC/BETH 10 HNSON 09/27 /86 PWR#4/DPWR-A BJYoungblood 09/9\_5/86



#### 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. 44 License No. NPF-17

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The applications for amendment to the McGuire Nuclear Station, Unit 2 (the facility) Facility Operating License No. NPF-17 filed by the Duke Power Company (the licensee) dated July 15, 1985, March 12, May 14, and July 14, 1986, comply 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 amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - 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-17 is hereby amended to read as follows:
  - (2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No.44, are hereby incorporated into the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION

Darl Hood, Project Manager PWR Project Directorate #4 Division of PWR Licensing-A

Attachment: Technical Specification Changes

Date of Issuance: September 29, 1986

PWR#4/DRWR-A MDunçan:mac 09/15 /86

PWR#4/DPWR-A DWigginton 09/ 3 /86

DSH PWR#4/DPWR-A DHood 09/15 /86

See Of Clovenand OGC/BETH PWR#4/DPWR-A BJYoungblood 09/ /86 09/25/86

# ATTACHMENT TO LICENSE AMENDMENT NO. 63

#### FACILITY OPERATING LICENSE NO. NPF-9

#### DOCKET NO. 50-369

### AND

# TO LICENSE AMENDMENT NO. 44

#### FACILITY OPERATING LICENSE NO. NPF-17

#### DOCKET NO. 50-370

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 areas of change. The corresponding overleaf page is also provided to maintain document completeness.

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Amended	Overleaf		
Page	Page		
3/4 6-24 3/4 6-25			
3/4 6-26 3/4 6-27	3/4 6-28		

# TABLE 3.6-2

# CONTAINMENT ISOLATION VALVES

VALVE NUMBER FUNCTION		MAXIMUM ISOLATION TIME (SEC)	
1.	Phase "A" Isolation		
	BB-1B#	Steam Generator A Blowdown Containment Outside Isolation	<10
	BB-2B#	Steam Generator B Blowdown Containment Outside Isolation	₹10
	BB-3B#	Steam Generator C Blowdown Containment Outside Isolation	₹10
	BB-4B#	Steam Generator D Blowdown Containment Outside Isolation	₹10
	BB-5A#	Steam Generator A Blowdown Containment Inside Isolation	₹10
	BB-6A#	Steam Generator B Blowdown Containment Inside Isolation	₹10
	BB-7A#	Steam Generator C Blowdown Containment Inside Isolation	₹10
	BB-8A#	Steam Generator D Blowdown Containment Inside Isolation	<u>&lt;</u> 10
	CF-26AB#	Steam Generator D Feedwater Containment Isolation	<5
	CF-28AB#	Steam Generator C Feedwater Containment Isolation	₹5
	CF-30AB#	Steam Generator B Feedwater Containment Isolation	₹5
	CF-35AB#	Steam Generator A Feedwater Containment Isolation	₹5
	CF-126B	Steam Generator A Main Feedwater to Auxiliary Feedwater Nozzle Isolation	<u>&lt;</u> 10
	CF-127B	Steam Generator B Main Feedwater to Auxiliary Feedwater	<10
		Nozzle Isolation	
	CF-128B	Steam Generator C Main Feedwater to Auxiliary Feedwater Nozzle Isolation	<u>&lt;</u> 10
	CF-129B	Steam Generator D Main Feedwater to Auxiliary Feedwater Nozzle Isolation	<u>&lt;</u> 10
	CF-134A	Steam Generator A Feedwater Containment Isolation Bypass	<10
	CF-135B	Steam Generator B Feedwater Containment Isolation Bypass	₹10
	CF-136A	Steam Generator C Feedwater Containment Isolation Bypass	₹10
	CF-137A	Steam Generator D Feedwater Containment Isolation Bypass	₹10
	CF-151B	Auxiliary Nozzle Temper SG A	₹10

McGUIRE - UNITS 1 and 2

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# CONTAINMENT ISOLATION VALVES

VALVE NUMBER		FUNCTION	MAXIMUM ISOLATION TIME (SEC)
1.	Phase "A" Isolat	ion (continued)	
	CF-153A CF-155B CF-157B	Auxiliary Nozzle Temper SG B Auxiliary Nozzle Temper SG C Auxiliary Nozzle Temper SG D	<10 ⋜10 ⋜10
·	KC-305B# KC-315B# KC-320A KC-332B KC-333A KC-429B KC-429B	Excess Letdown Hx Supply Pent. Isolation Outside Excess Letdown Hx Ret. Hdr. Pent. Isolation Outside NCDT Hx Supply Hdr. Pent. Isolation Outside NCDT Hx Supply Hdr. Pent. Isolation Inside NCDT Hx Return Hdr. Pent. Isolation Outside RB Drain Header Inside Containment Isolation RB Drain Header Outside Containment Isolation	<30 ⋜30 ⋜15 ⋜15 ⋜15 ⋜15 ⋜15 ⋜15
	NB-260B	Reactor Makeup Water Tank to NV System	<u>&lt;</u> 15
	NC-53B	Nitrogen to Pressurizer Relief Tank Containment Isolation Outside	<u>&lt;</u> 10
	NC-54A	Nitrogen to Pressurizer Relief Tank Containment Isolation Inside	<u>&lt;</u> 10
	NC-56B NC-195B NC-196A	PRT Makeup NC Pump Motor Oil Containment Isolation Outside NC Pump Motor Oil Containment Isolation Inside	<10 ⋜15 <u>⋜</u> 15
	NF-228A	Air Handling Units Glycol Supply Containment	<u>&lt;</u> 15
	NF-233B	Air Handling Units Glycol Supply Containment	<u>&lt;</u> 15
	NF-234A	Air Handling Units Glycol Supply Containment Isolation Outside	<u>&lt;</u> 15
	NI-47A	Accumulator Nitrogen Supply Outside Containment	<u>&lt;</u> 15
	NI-95A	Test HDR Inside Containment Isolation	<10

1 and 2

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# CONTAINMENT ISOLATION VALVES

FUNCTION

Phase "A" Isolation (	continued)
NI-96B NI-120B NI-255B NI-258A NI-258A NI-264B NI-266A NI-267A	Test HDR Outside Containment Isolation Safety Injection Pump to Accumulator Fill Line Isolation UHI Check Valve Test Line Isolation
NM-3AC NM-6A NM-7B NM-22AC NM-25AC NM-26B NM-72B NM-75B NM-78B NM-81B	Pressurizer Liquid Sample Line Inside Containment Isolation Pressurizer Steam Sample Line Inside Containment Isolation Pressurizer Sample Header Outside Containment Isolation NC Hot Leg #1 Sample Line Inside Containment Isolation NC Hot Leg #4 Sample Line Inside Containment Isolation NC Hot Legs Sample Hdr. Outside Containment Isolation NI Accumulator A Sample Line Inside Containment Isolation NI Accumulator B Sample Line Inside Containment Isolation NI Accumulator C Sample Line Inside Containment Isolation NI Accumulator D Sample Line Inside Containment Isolation
NM-82A NM-187A# NM-190A# NM-191B# NM-200B# NM-200A# NM-201A# NM-210A# NM-211B# NM-217B# NM-220B#	NI Accumulator Sample Hdr. Outside Containment Isolation SG A Upper Shell Sample Containment Isolation Inside SG A Blowdown Line Sample Containment Isolation Inside SG A Sample Hdr. Containment Isolation Outside SG B Upper Shell Sample Containment Isolation Inside SG B Blowdown Line Sample Containment Isolation Inside SG B Sample Hdr. Containment Isolation Inside SG C Upper Shell Sample Containment Isolation Inside SG C Upper Shell Sample Containment Isolation Inside SG C Blowdown Line Sample Containment Isolation Inside SG C Sample Hdr. Containment Isolation Inside SG C Sample Hdr. Containment Isolation Inside SG D Upper Shell Sample Containment Isolation Inside SG D Upper Shell Sample Containment Isolation Inside SG D Blowdown Line Sample Containment Isolation Inside
	Phase "A" Isolation ( NI-968 NI-1208 NI-2558 NI-258A NI-2648 NI-266A NI-266A NI-266A NI-267A NM-3AC NM-6A NM-78 NM-22AC NM-25AC NM-25AC NM-268 NM-728 NM-78 NM-788 NM-798 NM-798 NM-2008# NM-201A# NM-210A# NM-2178# NM-2208#

Upon the deactivation of the UHI System by removal of related components and piping Note 1: and modifications to the Cold Leg Accumulators, this specification is no longer applicable.

	MAXIMUM ISOLATION TIME (SEC)
ion Fill Line Isolation	n <10<10<10<10<10<10

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# VALVE NUMBER

Amendment No. 44(Unit

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# CONTAINMENT ISOLATION VALVES

MAXIMUM

VAL	<u>/E NUMBER</u>	FUNCTION	ISOLATION TIME (SEC)
1.	Phase "A" Isolation (co	ntinued)	
	NM-221A#	SG D Sample Hdr. Containment Isolation Outside	<u>&lt;</u> 15
	NV-78# NV-94A# NV-958# NV-457A# NV-458A# NV-459A# NV-842AC NV-842AC	Letdown Containment Isolation Outside NC Pumps Seal Return Containment Isolation Inside NC Pumps Seal Return Containment Isolation Outside 45 gpm Letdown Orifice Outlet - Containment Isolation 75 gpm Letdown Orifice Outlet - Containment Isolation High Pressurizer Letdown Orifice Outlet - Containment Isolation Standby Makeup Pump Suction Containment Isolation Inside Standby Makeup Pump to RCS seals	<10 <10 <15 <15 <15 <15 <15 <15 <15
	RF-821A RF-832A	Containment Isolation Outside (Unit 1) Containment Isolation Outside (Unit 2)	<15 <u>&lt;</u> 15
	VB~49B	Breathing Air Containment Isolation	<u>&lt;</u> 15
	VE-5A VE-6B VE-10A	Containment #2 Purge to Annulus Inside Containment Isolation Containment #2 Purge to Annulus Outside Containment Isolation Containment #2 Purge Blower Outlet, Containment Isolation (outside)	<15 n <15 <15 <15
	VI~148B	Instru. Air Upper Containment Outside Isolation	<u>&lt;</u> 15

McGUIRE - UNITS 1 and 2

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# CONTAINMENT ISOLATION VALVES

VALVE NUMBER FUNCTION		MAXIMUM ISOLATION <u>TIME (SEC)</u>
1. Phase "A" Isola	ation (continued)	
VI-362A	RB Isolation Valve for VI Supply to Annulum Vent.	<u>&lt;</u> 15
VP-18**	Upper Containment Purge Supply #1 Outside Isolation	<3
VP-2A**	Upper Containment Purge Supply #1 Inside Isolation	<3
VP-3B**	Upper Containment Purge Supply #2 Outside Isolation	₹3
VP-4A**	Upper Containment Purge Supply #2 Inside Isolation	₹3
VP-6B**	Lower Containment Purge Supply #1 Outside Isolation	₹3
• VP-7A**	Lower Containment Purge Supply #1 Inside Isolation	₹3
VP-88**	Lower Containment Purge Supply #2 Outside Isolation	₹3
VP-9A**	Lower Containment Purge Supply #2 Inside Isolation	₹3
VP-10A**	Upper Containment Purge Exhaust #1 Inside Isolation	₹3
VP-118**	Upper Containment Purge Exhaust #1 Outside Isolation	₹3
VP-12A**	Upper Containment Purge Exhaust #2 Inside Isolation	₹3
; VP-138**	Upper Containment Purge Exhaust #2 Outside Isolation	₹3
VP-15A**	Lower Containment Purge Exhaust #1 Inside Isolation	₹3
VP-168**	Lower Containment Purge Exhaust #1 Outside Isolation	₹3
VP-17A**	Incore Instru. Room Purge Supply Inside Isolation	<3
VP-188**	Incore Instru. Room Purge Supply Outside Isolation	<3
VP-19A**	Incore Instru. Room Purge Exhaust Inside Isolation	<u></u> 3
VP-208**	Incore Instru. Room Purge Exhaust Outside Isolation	<u>&lt;</u> 3
VQ-1A	Containment Air Release Inside Isolation	<3
VQ-2B	Containment Air Release Outside Isolation	₹3
VQ-5B	Containment Air Addition Outside Isolation	₹3
VQ-6A	Containment Air Addition Inside Isolation	<u></u> <u></u> 3
VS-12B	Containment Station Air Outside Isolation	<u>&lt;</u> 15
VX-31A	Containment Atmosphere Inside Isolation	<5
VX-33B	Containment Atmosphere Inside Isolation	₹5.

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

# SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

# RELATED TO AMENDMENT NO. 63TO FACILITY OPERATING LICENSE NPF-9

# AND AMENDMENT NO. 44 TO FACILITY OPERATING LICENSE NPF-17

# DUKE POWER COMPANY

#### DOCKET NOS. 50-369 AND 50-370

#### MCGUIRE NUCLEAR STATION, UNITS 1 AND 2

#### INTRODUCTION

By letters dated July 15, 1985 and March 12, 1986, Duke Power Company, the licensee for McGuire Nuclear Station, Units 1 and 2, requested that valve NI-122B be deleted from Table 3.6-2 in the Technical Specifications, and, in addition, proposed a station modification which would remove the containment isolation signal to this valve. The licensee's justification for the change is that valve operation is administratively controlled, and during plant operation the valve is normally closed, which makes the containment isolation signal to this valve unnecessary.

By letters dated May 14, 1986 and July 14, 1986, the licensee also requested, among other things, that seven valve designations listed in Table 3.6-2 be corrected. These changes are to correct an error and do not change plant operation or any safety analysis. The remaining changes proposed by the licensee in the May and July 1986 letters will be handled separately.

#### EVALUATION

#### Changes associated with valve NI-122B

The staff has reviewed the licensee's submittals, relevant piping and instrumentation diagrams and the containment isolation provisions on associated fluid lines. Valve NI-122B is inside containment in a 3/4-inch line that connects the reactor hot leg safety injection line at a point between the containment isolation valves, with the check valve test header downstream of the inboard containment isolation valve. Its primarv function is to act as a block valve to isolate the safety injection line from the non-safety grade check valve test header.

The staff concludes that the containment isolation signal to valve NI-122B is unnecessary and the plant administrative controls are adequate to ensure that valve NI-122B is closed during plant power operations. Therefore, the requested deletion of valve NI-122B from Table 3.6-2 in the Technical Specifications and the plant modification to McGuire Nuclear Station are acceptble.

#### Changes associated with Table 3.6-2 valve designations

The licensee has proposed to correct an error in the valve designations as follows:

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PDR

Change:

CF-151A to CF-151B CF-135A to CF-135B NF-233A to NF-233B NM-25A to NM-25AC NV-849A to NV-849AC NM-3A to NM-3AC NM-22A to NM-22AC

We agree with the licensee that the existing valve designations are in error and are appropriately corrected by the proposed changes. We find that these changes are strictly administrative in nature and do not impact plant safety or operation. Accordingly, these changes are acceptable.

#### ENVIRONMENTAL CONSIDERATION

These amendments involve changes to the installation or use of facilities' components located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration, and there has been no public comment on such finding. Accordingly, the amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

#### CONCLUSION

The Commission made proposed determinations that the amendments involve no significant hazards consideration which were published in the <u>Federal Register</u> (51 FR 30569 and 30571) on August 27, 1986, 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: R. J. Giardina D. Wigginton

Dated: September 29, 1986

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