

DEC 31 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. 10 to Facility Operating License
NPF-9 - McGuire Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued Amendment No. 10 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 your letters dated November 11 and December 16, 1981. The amendment extends the required implementation dates for several items. The amendment is effective as of its date of issuance.

A copy of the related safety evaluation report supporting Amendment No. 10 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,

S/C. Moon
for
Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosures:

1. Amendment No. 10
2. Safety Evaluation
3. Federal Register Notice

cc w/encl:

See next page

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SURNAME	MDuncan/hmc	RBirke1	EAdensam				
DATE	12/1/81	12/1/81	12/24/81				

DEC 31 1981

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
P.O. Box 2178
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Charlotte, North Carolina 28242

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
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Clearwater, Florida 33515

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

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DeBevoise & Liberman
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Washington, D. C. 20036

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

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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.
Atlanta, 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

Mr. Paul Bemis
Resident Inspector McGuire NPS
c/o U.S. Nuclear Regulatory Commission
P.O. Box 216
Cornelius, North Carolina 28031

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DATE

DUKE POWER COMPANY

DOCKET NO. 50-369

MCGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 10
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 (licensee) dated November 11 and December 16, 1981, 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 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)f.(1) to read as follows:

(1) The licensee shall install a reactor vessel water level instrumentation system prior to startup after the first refueling.

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

(2) With respect to a revised small break LOCA model (II.K.3.30), the licensee shall submit prior to May 1, 1982 to the NRC a revised model to account for recent experimental data including data from the LOFT Test Facility and the Semiscale Test Facility.

C. Change paragraph 2.C.(11)f.(3) to read as follows:

(3) The licensee shall upgrade the in-containment portion of the incore thermocouple system prior to startup following the first refueling outage and shall upgrade the remainder of the system consistent with implementation of other changes resulting from the Control Room Design Review but no later than December 31, 1983.

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

FOR THE NUCLEAR REGULATORY COMMISSION

s/ A. Lamas

for
Darrell G. Eisenhut, Director
Division of Licensing

Date of Issuance:

DEC 31 1981

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PAB OK BNS

E.K. subj. to comments on SER & F.R. notice

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SURNAME	MDuncan/hmc	RBirkel	ISperts	LRubenstein	Ketchen	EAdensam	REdesco
DATE	12/1/81	12/1/81	12/1/81	12/21/81	12/23/81	12/24/81	12/31/81

12/29/81
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SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO.10
TO LICENSE NPF-9
DUKE POWER COMPANY

INTRODUCTION

By letters dated November 11, 1981 and December 16, 1981, the licensee requested changes to the McGuire Nuclear Station Unit 1, License NPF-9, License Conditions:

- (a) 2.C.(11)f.(1) - Inadequate Core Cooling Instruments (II.F.2); reactor vessel water level instrumentation system
- (b) 2.C.(11)f.(3) - Inadequate Core Cooling Instruments (II.F.2); in-core thermocouple monitoring system.
- (c) 2.C.(11)l.(2) - Final Recommendations of B & O Task Force (II.K.3); revised small break LOCA model (II.K.3.30)

The proposed changes involve extending the required implementation dates for three NUREG-0737 condition items.

EVALUATION

Pursuant to the TMI-related action items described in NUREG-0737, "Clarification of TMI Action Plan Requirements" which were approved by the Commission for implementation, the McGuire Unit 1 operating license is conditioned to the extent that the aforementioned license conditions each have a January 1, 1982 implementation date.

Condition (a)

In its letter of November 11, 1981, requesting a change in the license condition implementation date from January 1, 1982 to prior to startup after the first refueling, the licensee stated that considerable effort has been taken to install the Westinghouse Reactor Vessel Level Instrumentation System (RVLIS). All installation work not requiring shutdown of the unit has been completed. During the recent unscheduled outage which commenced in early December, vacuum fill and hydraulic balancing of the system was started. The final installation and check-out of the system will, however, require an additional outage period of approximately 6 weeks. It is not anticipated that such an outage during the near term will be available. Based on the licensee's efforts to date we consider that the licensee has made good faith efforts to meet the schedule date of January 1, 1982.

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The staff has not yet completed its review of the design of the Westinghouse level system. Also the staff has previously evaluated this matter and granted a similar extension to the Sequoyah Nuclear Station Unit 2 to install the RVLIS prior to startup after the first refueling. The staff does not consider the requested extension to represent a safety concern and is consistent with the decision already accepted by the Commission.

Condition (b)

By letter dated December 16, 1981, the licensee requests a change in the license condition implementation date from January 1, 1982 to prior to startup after the first refueling. This condition requires the incore thermocouple system to meet a revised set of design criteria in the areas of performance, qualification and operator interface. In a letter to the NRC on April 23, 1981, the licensee provided its assessment of the installed thermocouple system and stated its intent to pursue development of a thermocouple system which would meet the criteria in NUREG-0737. Toward this end the licensee has completed the following:

- (1) Requested a proposal from Westinghouse for an upgraded system
- (2) Evaluated the separation of thermocouple cables for compliance with 10 CFR 50 Appendix R (Ref: Licensee letter dated October 21, 1981 to the NRC)
- (3) Evaluated the survivability of the cables associated with the incore (core exit) thermocouples (Ref: "Analysis of Hydrogen Control Measures at McGuire Nuclear Station", Section 5.0, submitted to the NRC on October 31, 1981.)
- (4) Increased the range of the backup display to 2300 F from the original 700 F.

A final design has yet to be developed by Westinghouse as a resolution to this generic requirement. Based on the licensee's efforts to date we consider that the licensee has made good faith efforts to meet the schedule date of January 1, 1982. Although the staff has yet to evaluate the submitted information, it has no basis to rescind its approval of the thermocouple monitoring system as presently installed at McGuire and concludes that deferral of the required implementation date will not result in a reduction in safety. As in the case of Condition (a), we have granted a similar deferral to the Sequoyah Nuclear Station, Unit 2 and this action is consistent with the decision already accepted by the Commission.

Condition (c)

This condition requires that the analysis methods used by Westinghouse for small-break LOCA analysis for compliance with Appendix K to 10 CFR Part 50 be revised

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documented, and submitted for NRC approval. By letter dated December 16, 1981, the licensee requests a change in the license condition submittal date from January 1, 1982 to May 1, 1982.

In its letter of December 16, 1981, the licensee states that the small-break LOCA analysis model currently approved by the NRC for use on McGuire Nuclear Station is conservative and in conformance with Appendix K to 10 CFR Part 50. However, (as documented in letter NS-TMA-2318, dated September 26, 1980, T. M. Anderson to D. G. Eisenhut) Westinghouse believes that improvement in the realism of small-break calculations is a worthwhile effort and has committed to revise its small-break LOCA analysis model to address NRC concerns (e.g. NUREG-0611, NUREG-0623, etc.) requiring further analysis. This revised Westinghouse model is currently scheduled for submittal to the NRC by April 1, 1982 as documented in letter NS-EPR-2524, dated November 25, 1981, E. P. Rahe to D. G. Eisenhut. Based upon the licensee's efforts to date we consider that the licensee has made good faith efforts to meet the schedule date of January 1, 1982.

Until the staff has evaluated the revised model it has no basis to rescind its approval of the current model and concludes that deferral of the required implementation date will not result in a reduction in safety. As in the previously discussed Conditions, we have granted a similar deferral to the Sequoyah Nuclear Station Unit 2.

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.

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SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 10
TO LICENSE NPF-9
DUKE POWER COMPANY

INTRODUCTION

By letters dated November 11, 1981 and December 16, 1981, the licensee requested changes to the McGuire Nuclear Station Unit 1, License NPF-9, License Conditions:

- (a) 2.C.(11)f.(1) - Inadequate Core Cooling Instruments (II.F.2); reactor vessel water level instrumentation system
- (b) 2.C.(11)f.(3) - Inadequate Core Cooling Instruments (II.F.2); in-core thermocouple monitoring system.
- (c) 2.C.(11)l.(2) - Final Recommendations of B & O Task Force (II.K.3); revised small break LOCA model (II.K.3.30)

The proposed changes involve extending the required implementation dates for three NUREG-0737 condition items.

EVALUATION

Pursuant to the TMI-related action items described in NUREG-0737, "Clarification of TMI Action Plan Requirements" which were approved by the Commission for implementation, the McGuire Unit 1 operating license is conditioned to the extent that the aforementioned license conditions each have a January 1, 1982 implementation date.

Condition (a)

In its letter of November 11, 1981, the licensee stated that considerable effort has been taken to install the Westinghouse Reactor Vessel Level Instrumentation System (RVLIS). All work not requiring shutdown of the unit has been completed. During the recent unscheduled outage which commenced in early December, vacuum fill and hydraulic balancing of the system was started. The final installation and checkout of the system will, however, require an additional outage period of approximately 6 weeks. It is not anticipated that such an outage during the near term will be available. In addition the staff has not yet completed its review of the design of the Westinghouse level system. The staff does not consider the requested extension to represent a safety concern. Relatedly the staff has previously evaluated this matter and granted a similar extension to the Sequoyah Nuclear Station, Units 1 and 2.

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Condition (b)

This condition requires the incore thermocouple system to meet a revised set of design criteria in the areas of performance, qualification and operator interface. In a letter to the NRC on April 23, 1981, the licensee provided its assessment of the installed thermocouple system and stated its intent to pursue development of a thermocouple system which would meet the criteria in NUREG-0737. Toward this end the licensee has completed the following:

- (1) Requested a proposal from Westinghouse for an upgraded system
- (2) Evaluated the separation of thermocouple cables for compliance with 10 CFR 50 Appendix R (Ref: License letter dated October 21, 1981 to the NRC)
- (3) Evaluated the survivability of the cables associated with the incore (core exit) thermocouples (Ref: "Analysis of Hydrogen Control Measures at McGuire Nuclear Station", Section 5.0, submitted to the NRC on October 31, 1981.)
- (4) Increased the range of the backup display to 2300 F from the original 700^oF.

A final design has yet to be developed by Westinghouse as a resolution to this generic requirement. Although the staff has yet to evaluate the submitted information, it has no basis to rescind its approval of the thermocouple monitoring system as presently installed at McGuire and concludes that deferral of the required implementation date will not result in a reduction in safety. As in the case of Condition (a), we have granted a similar deferral to the Sequoyah Nuclear Station.

Condition (c)

This condition requires that the analysis methods used by Westinghouse for small-break LOCA analysis for compliance with Appendix K to 10 CFR Part 50 be revised, documented, and submitted for NRC approval.

In its letter of November 16, 1981, the licensee states that the small-break LOCA analysis model currently approved by the NRC for use on McGuire Nuclear Station is conservative and in conformance with Appendix K to 10 CFR Part 50. However, (as documented in letter NS-TMA-2318, dated September 26, 1980, T. M. Anderson to D. G. Eisenhut) Westinghouse believes that improvement in the realism of small-break calculations is a worthwhile effort and has committed to revise its small-break LOCA analysis model to address NRC concerns (e.g. NUREG-0611, NUREG-0623, etc.) This revised Westinghouse model is currently scheduled for submittal to the NRC by April 1, 1982 as documented in letter NS-EPR-2524, dated November 25, 1981, E. F. Rahe to D. G. Eisenhut.

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Until the staff has evaluated the revised model it has no basis to rescind its approval of the current model and concludes that deferral of the required implementation date will not result in a reduction in safety. As in the previously discussed Conditions, we have granted a similar deferral to the Sequoyah Nuclear Station.

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:

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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. 10 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. The amendment is effective as of its date of issuance.

This amendment extends the required implementation dates for the following operating license conditions: (1) reactor vessel water level instrumentation system (2.C.(11)f.(1)), (2) revised small break LOCA model submission (2.C.(11)1.(2)), and (3) incore thermocouple system upgrade (2.C.(11)f.(3)).

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 §1.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this

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For further details with respect to this action, see (1) Duke Power Company letters dated November 11 and December 16, 1981, (2) Amendment No. 10 to Facility Operating License No. NPF-9 and (3) 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 31 day of December 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

for s/c. Moon

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

PAB E.G.K. Adj. to comment on SER 8 F.R. notice revisions interlined (F.R. 5/12) to give adequate description of action.

OFFICE	LA:DL:LB #4	DL:LB #4	OELD	DL:LB #4			
SURNAME	MDuncan/hmc	RBirkel	<i>Ret</i>	EAdensam			
DATE	12/17/81	12/18/81	12/23/81	12/24/81			

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-369

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENT

FACILITY OPERATING LICENSE NO. NPF-9

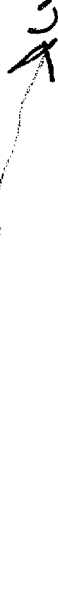
The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. to Facility Operating License No. NPF-9, issued to Duke Power Company (licensee) for the McGuire Nuclear Station, Unit 1 (the facility) located in Mecklenburg County, North Carolina. ~~This amendment extends the required implementation dates for several items.~~ The amendment is effective as of its date of issuance.

At this amendment extends the required implementation dates for the following operating license conditions: (1) reactor vessel water level instrumentation system

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 §1.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

(2) revised small break LOCA model submission (2.c.(1)1.(2)), and (3) incore thermocouple system upgrade (2.c.(1)5.(3)).



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DATE

December 18, 1981

Docket No. 50-369

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

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

3/

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

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

January 5, 1982

DISTRIBUTION:
Docket File
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RBirkel
MDuncan

Docket No. 50-369

Docketing and Service Section
Office of the Secretary of the Commission

SUBJECT: Duke Power Company (MCGUIRE NUCLEAR STATION, UNIT 1)

One ~~Two~~ signed originals of the Federal Register Notice identified below ~~are~~ is 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~~) and Amendment(s).
- Other: _____

Enclosure:
As Stated

Office of Nuclear Reactor Regulation

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DATE →	1/5/82					

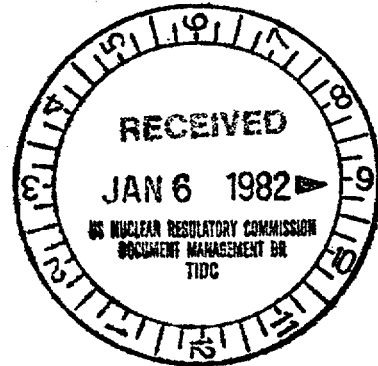
AMENDMENT NO. **10** TO
 FACILITY OPERATING LICENSE NPF-9 - McGUIRE NUCLEAR STATION, UNIT NO. 1

DISTRIBUTION w/enclosures:

- ✓ Docket No. 50-369
- LB #4 r/f
- R. Birkel
- M. Duncan
- I&E (5)
- E. Ketchen, OELD
- G. Deegan (4)
- E. Adensam
- MPA
- R. Diggs, DE
- 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/enclosures:

- NRC PDR
- Local PDR
- NSIC
- TERA
- A. Rosenthal, ASLAB
- ASLBP
- ACRS (16)
- B. Scharf - 10



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