

September 30, 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. 6 to Facility Operating License
NPF-9 McGuire Nuclear Station, Unit No. 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 6 to Facility Operating License NPF-9 for the McGuire Nuclear Station, Unit No. 1, located in Mecklenburg County, North Carolina. This amendment is in response to your letter dated September 21, 1981. The amendment extends the date for full compliance with License Condition 2.C.(11)j concerning relief and safety valve testing to July 1, 1982, and is effective as of its date of issuance.

A copy of the related Safety Evaluation supporting Amendment No. 6 to Facility Operating License NPF-9 is enclosed. Also enclosed is a copy of a related notice which has been sent 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

Enclosures:

- 1. Amendment No. 6
- 2. Safety Evaluation
- 3. Federal Register Notice

cc w/enclosures:
See next page

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PDR ADOCK 05000369
PDR

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DATE	9/23/81	9/27/81	9/27/81				

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cc: Mr. W. L. Porter
 Mr. A. Carr
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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 Countryside Boulevard
 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 Regulatory Commission
 P.O. Box 216
 Cornelius, North Carolina 28031

Shelley Blum, Esq.
 1716 Scales Street
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Mr. David E. Smith
 City of Charlotte
 Legal Department

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-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

OFFICE	600 E. Trade Street		Dr. John M. Barry	
SURNAME	City Hall		Department of Environmental Health	
DATE	Charlotte, North Carolina	28211	Mecklenburg County	
			1200 Blythe Boulevard	
			Charlotte, North Carolina	28203

AMENDMENT NO. 6 TO
FACILITY OPERATING LICENSE NPF-9 - McGUIRE NUCLEAR STATION, UNIT NO. 1

DISTRIBUTION w/enclosures:

bcc 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
A. Toalston, DE
I. Dinitz, DE
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

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



DUKE POWER COMPANY

DOCKET NO. 50-369

McGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 6
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 September 21, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations 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)j to read:

j. Relief and Safety Valve Tests (II.D.1)

Prior to July 1, 1982, the licensee shall provide documentation for relief valves, safety valves and associated piping in accordance with the EPRI December 15, 1980 letter as approved by the NRC and shall qualify block valves by July 1, 1982, and shall submit a report demonstrating said qualification;

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

FOR THE NUCLEAR REGULATORY COMMISSION

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

Date of Issuance: September 30, 1981

*E. K. 9/29/81
(in AMENDMENT)*

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DATE	9/23/81	9/24/81	9/29/81	9/29/81	9/29/81		

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 6
TO LICENSE NPF-9
DUKE POWER COMPANY

INTRODUCTION

The McGuire Unit 1 Technical Specifications were issued on June 12, 1981, as an integral part of the Facility Operating License and are standard Westinghouse PWR Technical Specifications reflecting plant specific design.

Pursuant to Condition 2.C.(11)j the licensee was required to complete qualification tests of power operated relief valves (PORVs) and safety valves by October 1, 1981, to meet the requirements for Item II.D.1 in NUREG-0737. In response, the licensee is participating in the generic program that is being conducted by the Electric Power Research Institute (EPRI) to qualify PWR relief and safety valves and associated discharge piping in accordance with NUREG-0737 requirements. As originally scheduled, testing of all valves in the EPRI program was to be completed by July 1, 1981, with the licensee plant specific evaluation and documentation required by October 1, 1981. The licensee as a member of the PWR Owners' Group is not able to meet this schedule due to a need for additional testing.

EVALUATION

Anomalies have been observed in results of tests of some of the relief and safety valves tested in the EPRI program to date. As a result, the utilities sponsoring the test program the PWR Owners' Group, have requested EPRI to perform additional tests which will allow for more definitive characterization of the observed valve behavior.

On July 17, 1981, the staff met with EPRI and the PWR Owners' Group representatives to review the status of the safety and relief valve testing and to discuss the expanded test matrix. Although the exact number of additional tests will have to be determined as the program progresses, the test program managers estimated that it could take from four to eight months longer than the original test completion date of July 1, 1981, to complete the expanded test program.

The reported test results indicate that, while the initial screening criteria were not met in some cases, all PORVs tested will function in the primary mode (pressure relief) as required. Additional PORV tests are being planned to evaluate the effect of variable water seal temperature on valve closure times. The test results to date indicate that some valves experience a delay of as as much as 70 seconds in closing time due to low or ambient water seal temperatures. However, the valves closed on their own and on disassembly and inspection no damage was observed which might affect their ability to open or close on demand. These results do not indicate a significant safety concern in the staff's view.

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The testing of safety valves to meet the NRC requirements has necessitated the design and construction of a new facility at Combustion Engineering. This facility is the first of a kind with the capability to perform meaningful operability tests for large spring-loaded safety valves over a broad range of fluid inlet conditions. The safety valve test results to date indicate a need for additional information regarding the effects of inlet piping configuration and adjusting ring settings on safety valve operation.

Based on our review of the EPRI test program to date, we have concluded that the program represents a fully responsive effort to meet Commission requirements and that the additional testing proposed will provide needed information to assure that the technical requirements of item II.D.1 of NUREG-0737 will be met. Since testing to date has not uncovered problems with safety and relief valves which are considered significant to the safety of operating plants, we believe that good cause has been shown to extend the NUREG-0737 completion date for PORV and safety valve testing so that the extended EPRI program may be carried to completion on an orderly basis. The latest estimated test completion date is March 31, 1982.

Based upon the above, we have concluded that the licensee has complied with the requirements of this license condition to the extent practicable at this time, and that it is in the best interest of the public to extend the date for full compliance with License Condition 2.C.(11)j to July 1, 1982.

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: September 30, 1981

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

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 Amend-
ment No. 6 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 extends the date for full compliance with relief and safety
valve testing to July 1, 1982. This amendment is effective as of its date of
issuance.

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 Commis-
sion's regulations in 10 CFR Chapter I, which are set forth in the license amend-
ment. 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 environ-
mental impact appraisal need not be prepared in connection with issuance of this
amendment.

For further details with respect to this action, see (1) Duke Power Company
letter dated September 21, 1981, (2) Amendment No. 6 to Facility Operating License
No. NPF-9 and (3) the Commission's related Safety Evaluation.

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These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C., and at the Atkins Library, University of North Carolina, Charlotte (UNCC Station), North Carolina 28223. A copy of items 2 and 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 30th day of September 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

S/

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

E.G.A. (on F.R. Notice)

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September 24, 1981

DISTRIBUTION:

Docket No. 50-369
LB #4 r/f
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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 Birkel, Project Manager
Licensing Branch No. 4
Division of Licensing

SUBJECT: ISSUANCE OF AMENDMENT NO. 6 TO FACILITY OPERATING
LICENSE NPF-9 - McGUIRE NUCLEAR STATION, UNIT 1

Regarding the issuance of the subject amendment, there is no known public correspondence or irreversible impact associated with this subject.

5/
Ralph Birkel, Project Manager
Licensing Branch No. 4
Division of Licensing

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