

January 8, 1982

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

The Nuclear Regulatory Commission has issued Amendment No. 11 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 letter dated January 4, 1982. The amendment permits operation above 90% rated thermal power for no more than 48 hours in order to verify the full power capability of the unit and the performance of the Model D steam generator. The amendment is effective as of its date of issuance.

A copy of the related safety evaluation report supporting Amendment No. 11 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/
Elinor G. Adensam, Chief
Licensing Branch No. 4
Division of Licensing

Enclosures:

1. Amendment No. 11
2. Safety Evaluation
3. Federal Register Notice

cc w/encl:

See next page

OFFICE ▶	LA:DL:INB #4	DL:LB #4	DL:LB #4			
SURNAME ▶	MDuncan/hmc	RBirke1	EAdensam			
DATE ▶	1/7/82	1/7/82	1/7/82			

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McGuire

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Utilities Commission
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Dr. John M. Barry
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Mr. Paul Bemis
Resident Inspector McGuire NPS
c/o U.S. Nuclear Regulatory Commission
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DUKE POWER COMPANY

DOCKET NO. 50-369

MCGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 11
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 January 4, 1982, 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. 11, 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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3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

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

Attachment:
Technical Specification
Changes

Date of Issuance: January 8, 1982

DL:LB #4 EAdensam 1/7/82	ASL/DL RTEDESCO 1/8/82
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OFFICE	LA:DL:LB #4	DL:LB #4	RAB	CPB	CPB	AD/GCS	ASL/DL
SURNAME	MDuncan/hmc	RBirkel	YHstii/LPhillips	YHstii/LPhillips	CBerJinger	LRubenstein	RTEDESCO
DATE	1/7/82	1/7/82	1/7/82	1/7/82	1/7/82	1/7/82	1/8/82

Handwritten notes:
 EK Amendment
 OELD
 KETCHEN
 1/8/82

ATTACHMENT TO LICENSE AMENDMENT NO. 11

FACILITY OPERATING LICENSE NO. NPF-9

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

<u>Overleaf</u> <u>Page</u>	<u>Amended</u> <u>Page</u>
3/4 2-12	3/4 2-11

OFFICE ▶
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DATE ▶

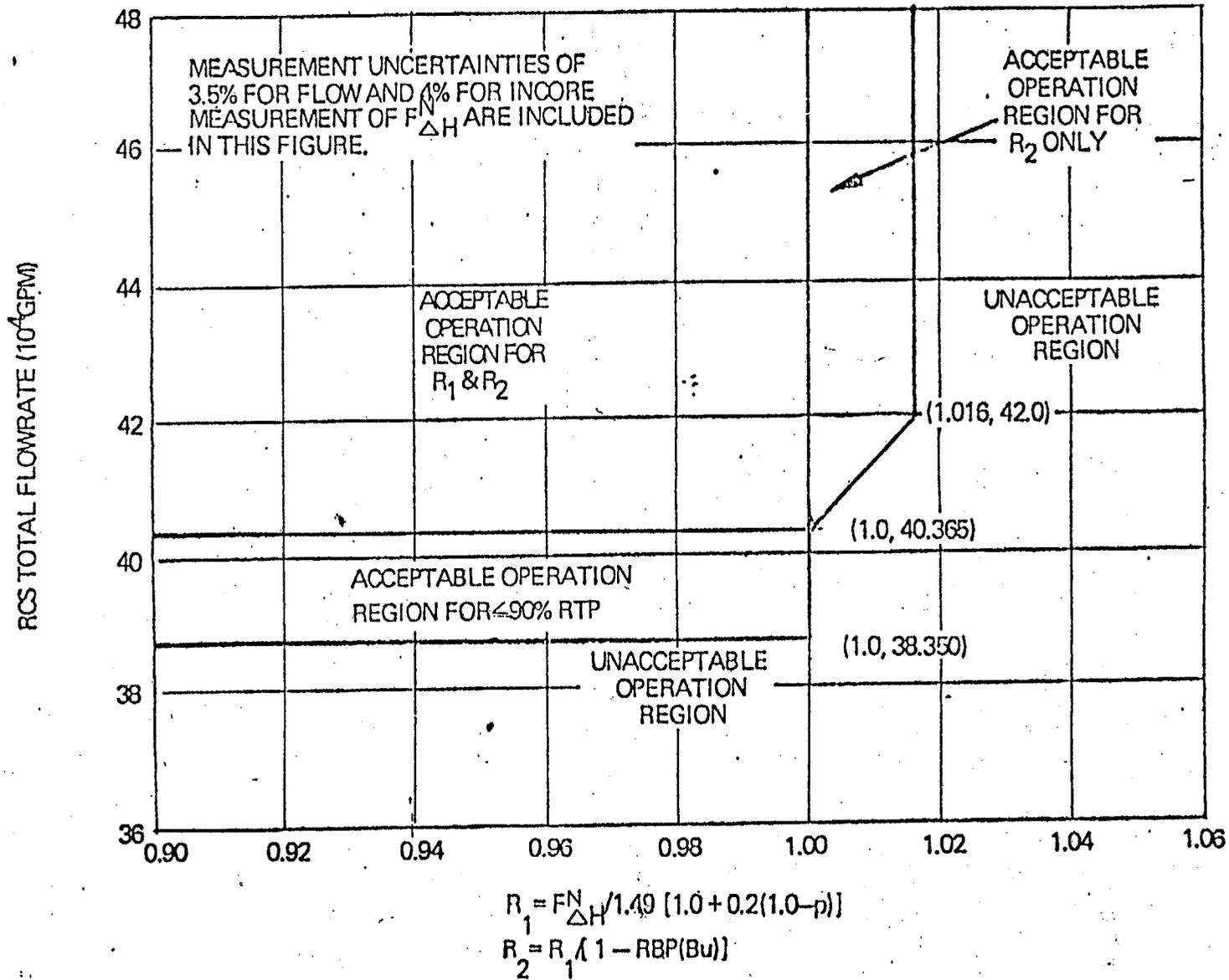


FIGURE 3.23 RCS TOTAL FLOWRATE VERSUS R_1 AND R_2 —FOUR LOOPS IN OPERATION

Operation above 90% rated thermal power may proceed for no more than 48 cumulative hours provided RCS total flow as measured by precision heat balance is greater than 395,850 gpm.

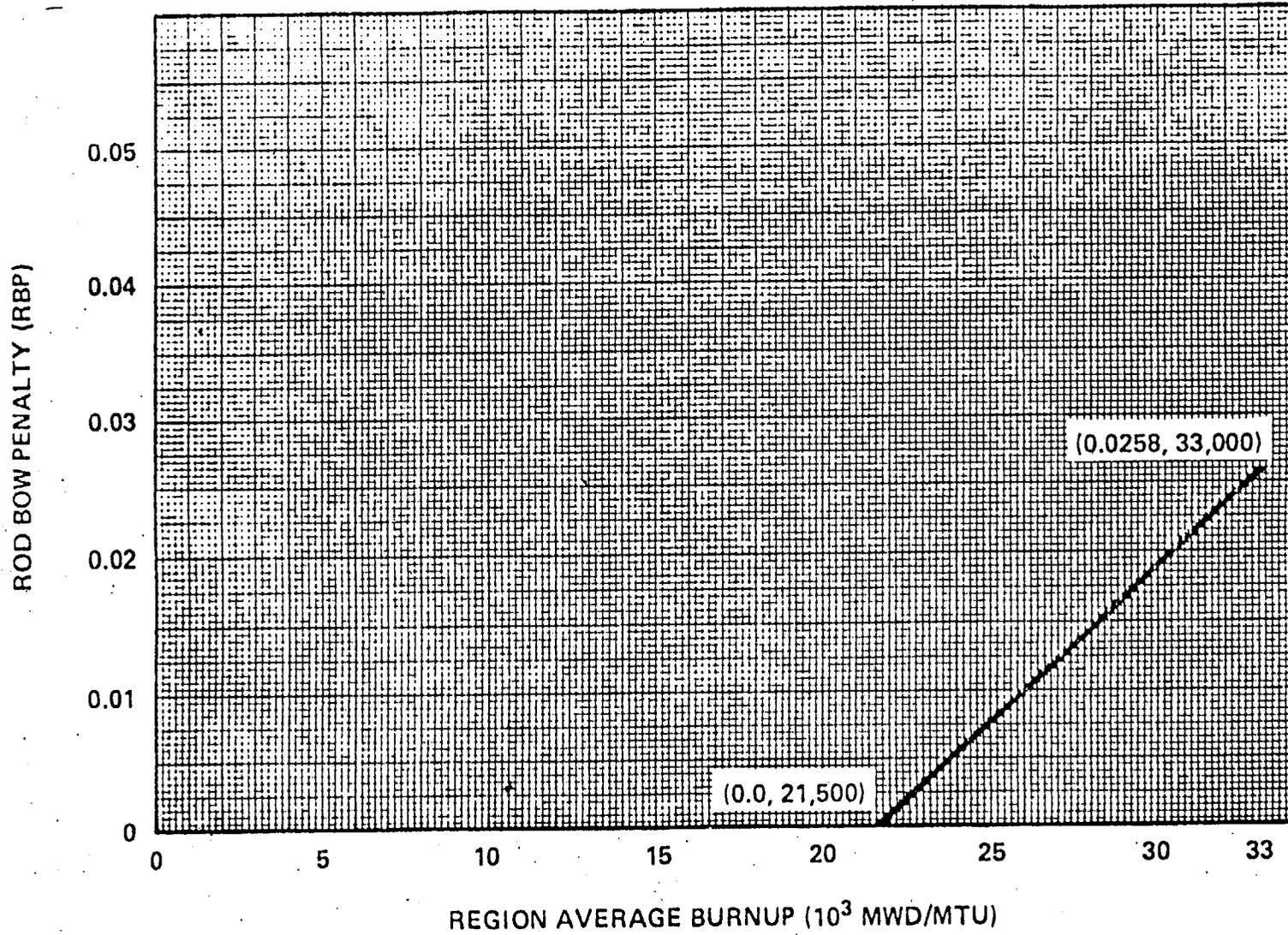


Figure 3.2-4 Rod Bow Penalty as a Function of Burnup.

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 11
TO LICENSE NPF-9
DUKE POWER COMPANY

INTRODUCTION

By letter dated January 4, 1982, the licensee requested a change to the McGuire Nuclear Station Unit 1, License NPF-9, Technical Specification 3.2.3, RCS Flowrate and Nuclear Enthalpy Rise Hot Channel Factor. The proposed one time change would add a note to Figure 3.2-3 to state:

"Operation above 90% Rated Thermal Power (RTP) may proceed for no more than 48 cumulative hours provided RCS total flow as measured by precision heat balance is greater than 395,850 gpm."

The proposed change is a temporary measure in order to escalate to full power operation to verify the full power capability of the unit and the performance of the model D steam generator.

EVALUATION:

The current technical specification requires that the combination of the indicated reactor coolant system (RCS) flow rate, power and the measured F value be within the allowable operating ranges shown in Figure 3.2-3 of the technical specification for 4 loop operation. Figure 3.2-3 was established by including 3.5% of flow measurement uncertainty and, therefore, requires, for 100% power operation, a minimum RCS flow of 403,650 gpm which is 3.5% above the thermal design flow (TDF) of 390,000 gpm. The 3.5% uncertainty allowance is designed to permit surveillance requirements to be accomplished utilizing the control board indication for RCS flow rate. During the full power verification test, the flow rate is measured by a precision heat balance. The uncertainty of this calorimetric flow measurement is 1.5% for 4 loop operation as indicated in attachment 1A of the licensee's January 4, 1982 letter. Therefore, to maintain the TDF of 390,000 gpm, the minimum calorimeter measured flow rate requirement would be 395,850 gpm. This flow requirement will be followed during the full power verification test which will last no more than 48 cumulative hours. Based on our review, we conclude that the requested technical specification change does not result in a reduction in safety and is acceptable.

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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 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: January 8, 1982

Principal Contributors: Y. Hsii, CPB
L. Phillips, CPB
R. Birkel, LB #4

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DATE ▶

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. 11 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 permits operation above 90% rated thermal power for no more than 48 hours in order to verify the full power capability of the unit and the performance of the model D steam generator.

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 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 January 4, 1982, (2) Amendment No. 11 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 8th day of January 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

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

*E.K. Amendment
on F.R. Notice.*

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AMENDMENT NO. 11 TO
FACILITY OPERATING LICENSE NPF-9 - McGUIRE NUCLEAR STATION, UNIT NO. 1

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