September 23, 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. 5 to Facility Operating License NPF-9 - McGuire Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued Amendment No. 5 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 September 21, 1981. This amendment corrects the setpoint associated with the reactor trip initiated by a turbine trip.

A copy of the related safety evaluation report supporting Amendment No. 5 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,

Elinor G. Adensam, Acting Chief Licensing Branch No. 4 Division of Licensing Office of Nuclear Reactor Regulation

Enclosures:

- Amendment No. 5
- 2. Safety Evaluation
- 3. Federal Register Notice

cc w/encl: See next page

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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
422 South Church Street
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 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 Regualtory Commission
P.O. Box 216
Cornelius. North Carolina 28031

Shelley Blum, Esq. 1716 Scales Street Raleigh, North Carolina 27608

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

| City Haii Dr. John M. Barry | |
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| | |
| OFFICE 600 E. Trade Street Department of Environmental Health | |
| OFFICE 500 E. Trade Street Department of Environmental Health SURNAME Charlotte, North Carolina 28211 Mecklenburg County | |
| 1 1 1 1 1 1 1 200 Blythe Boulevard | |
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DUKE POWER COMPANY

DOCKET NO. 50-369

MCGUIRE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 5 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 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.
- 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) <u>Technical Specifications</u>

The Technical Specifications contained in Appendix A, as revised through Amendment No. 5, are hereby incorporated into this license. The licensee shall operate the facility in accordance with the Technical Specifications

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8110130025 810923 PDR ADDCK 05000369 PDR ADDCK 05000369 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

Attachment: Technical Specification change

Date of Issuance: September 23, 1981

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ATTACHMENT TO LICENSE AMENDMENT NO. 5

FACILITY OPERATING LICENSE NO. NPF-9

DOCKET NO. 50-369

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

| Overleaf | Amended |
|----------|---------|
| Page | Page |
| 2-6 | 2-5 |

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Amendment No. 5

TABLE 2.2-1

REACTOR TRIP SYSTEM INSTRUMENTATION TRIP SETPOINTS

| FUN | CTIONAL UNIT | TRIP SETPOINT | ALLOWABLE VALUES |
|-----|--|--|--|
| 1. | Manual Reactor Trip | Not Applicable | Not Applicable |
| 2. | Power Range, Neutron Flux | Low Setpoint - ≤ 25% of RATED THERMAL POWER | Low Setpoint - ≤ 26% of RATED THERMAL POWER |
| | | High Setpoint - ≤ 109% of RATED THERMAL POWER | High Setpoint - ≤ 110% of RATED THERMAL POWER |
| 3. | Power Range, Neutron Flux, High Positive Rate | <pre></pre> | ≤ 5.5% of RATED THERMAL POWER with a time constant ≥ 2 seconds |
| 4. | Power Range, Neutron Flux, High Negative Rate | \leq 5% of RATED THERMAL POWER with a time constant \geq 2 seconds | ≤ 5.5% of RATED THERMAL POWER with a time constant ≥ 2 seconds |
| 5. | Intermediate Range, Neutron Flux | ≤ 25% of RATED THERMAL POWER | ≤ 30% of RATED THERMAL POWER |
| 6. | Source Range, Neutron Flux | ≤ 10 ⁵ counts per second | \leq 1.3 x 10 ⁵ counts per second |
| 7. | Overtemperature ΔT | See Note 1 | See Note 3 |
| 8. | Overpower ΔT | See Note 2 | See Note 3 |
| 9. | Pressurizer PressureLow | ≥ 1945 psig | ≥ 1935 psig |
| 10. | Pressurizer PressureHigh | ≤ 2385 psig | ≤ 2395 psig |
| 11. | Pressurizer Water LevelHigh | ≤ 92% of instrument span | ≤ 93% of instrument span |
| 12. | Turbine Trip A. Low System Pressure Trip B. Turbine Stop Valve Closure | <pre> ≥ 45 psig ≥ 1% open</pre> | <pre>≥ 42 psig ≥ 1% open</pre> |

TABLE 2.2-1 (Continued)

REACTOR TRIP SYSTEM INSTRUMENTATION TRIP SETPOINTS

| FUN | CTIONAL UNIT | TRIP SETPOINT | ALLOWABLE VALUES |
|-----|---|--|---|
| 13. | Loss of Flow | ≥ 90% of design flow per loop* | ≥ 89% of design flow per loop* |
| 14. | Steam Generator Water LevelLow-Low | <pre> > 12% of span from 0 to 30% of RATED THERMAL POWER, increasing linearly to > 54.9% of span at 100% of RATED THERMAL POWER.</pre> | <pre>> 11% of span from 0 to 30% of RATED THERMAL POWER, increasing linearly to > 53.9% of span at 100% of RATED THERMAL POWER.</pre> |
| 15. | Undervoltage-Reactor Coolant Pumps | ≥ 5082 volts-each bus | ≥ 5016 volts-each bus |
| 16. | Underfrequency-Reactor Coolant Pumps | <u>></u> 56.4 Hz - each bus | ≥ 55.9 Hz - each bus |
| 17. | Safety Injection Input from ESF | Not Applicable | Not Applicable |
| 18. | Intermediate Range Neutron Flux - (P-6) Enable Block Source Range Reactor Trip | \geq 1 x 10 ⁻¹⁰ amps | \geq 6 x 10 ⁻¹¹ amps |
| 19. | Power Range Neutron Flux (not P-10) Input to Low Power Reactor Trips Block P-7 | <pre>< 10% of RATED THERMAL POWER</pre> | ≤ 11% of RATED THERMAL POWER |
| 20. | Turbine Impulse Chamber Pressure - (P-13) Input to Low Power Reactor Trips Block P-7 | < 10% Turbine Impulse Pressure Equivalent | <pre>< 11% Turbine Impulse Pressure Equivalent</pre> |

^{*}Design flow is 97,500 gpm per loop.

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SAFETY EVALUATION BY THE

OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 5

TO LICENSE NPF-9

DUKE POWER COMPANY

INTRODUCTION

By letter dated September 21, 1981, the licensee (Duke Power Company) proposed a modification to the Technical Specification for the McGuire Nuclear Station, Unit 1, regarding the setpoint associated with the reactor trip initiated by a turbine trip.

The design of the Turbine Trip/Reactor Trip circuit is based on the control oil system which is used to control the Digital Electro-Hydraulic (DEH) system oil pressure through an interface valve. When a turbine trip signal is initiated, a section of the control oil system is bled off which in turn dumps the pressure on the DEH system to close the turbine control and stop valves. This control oil system generates a low pressure signal at 45 psig through 2 out of 3 logic to trip the reactor above the P-8 setpoint. The DEH low pressure trip at 900 psig serves to close the turbine control and stop valves which in turn would trip the reactor through the turbine stop valve closure switch at 1% open.

EVALUATION

The existing Technical Specification, Table 2.2-1, Reactor Trip System Instrumentation Trip Setpoints, item 12.A., specifies a DEH pressure trip setpoint for the turbine control and stop valves. Since the DEH system low pressure trip does not directly feed the reactor trip circuit, the setpoint specified should accurately reflect the operation of the control oil pressure switches which directly initiate the reactor trip as described above.

We agree with the licensee's conclusion that the revised turbine trip low system pressure trip correctly reflects the reactor trip function and does not result in any adverse safety implications.

ENVIRONMENTAL CONSIDERATION

We have 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 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact

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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 health and safety of the public.

DATE: September 23, 1981

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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. 5 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 corrects the setpoint associated with the reactor trip initiated by a turbine trip. 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.

For further details with respect to this action, see (1) Duke Power Company letter dated September 21, 1981, (2) Amendment No. 5 to Facility Operating License No. NPF-9 with Appendix A Technical Specification page change, and (3) the Com-

| m | mission's related Safety Evaluation. | | | | | | | | |
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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 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 23rd day of September 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

5/

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

*See previous concurrence

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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. 5 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 day of

FOR THE NUCLEAR REGULATORY COMMISSION

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

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DUKE POWER COMPANY X 28516

POWER HULLING From: Skip Copp

A22 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

(2 Zages)

WILLIAM OL PARKER, JR. VICE PRESIDENT ÉTEAM PRODUCTION

September 21, 1981

ade abaribadhabit ebop-ete

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief Licensing Branch No. 4

Re: McGuire Nuclear Station Proposed Amendment to License NFF-9 Docket No. 50-369 Ralphi
This one needs to

De expedited who cannot
exceed 48% power until
this is infroved.

Dear Mr. Denton:

Attached is a proposed change to the McGuire Ruclear Station, Unit in Technical Specifications. This change corrects the setpoint associated with the reactor trip initiated by a turbine trip.

This change has been reviewed and it has been determined that there are no adverse safety or environmental impacts associated with the proposed change. The proposed change is considered to be a Class III amendment pursuant to 10 CFR 170.22. Therefore, enclosed is a check in the amount of \$4000.

Very truly yours;

s/William O. Parker, Jr. William O. Parker, Jr.

GAC/smh

cc: Ms. M. J. Graham Resident Inspector McGuire Nuclear Station

Mr. James P. O'Reilly, Director U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, Suite 3100 Atlanta, Georgia 30303

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Technical Specification 2.2 - Reactor Trip Instrumentation Setpoints

Proposed Change

Change Values on Item 128 in Table 2.2-1 to read;

12A) Low System Pressure Trip - Trip Setpoint > 45 psig
Allowable Value > 42 psig

Justification and Safety Analysis

The design of the Turbine Trip/Reactor Trip circuit is based on the control oil system which is used to control DEH system oil pressure through an interface valve. When a turbine trip signal is initiated, a section of the control oil system is bled off which in turn dumps the pressure on the DEH system to close the turbine control and stop valves. This control oil system generates a low pressure signal at A5 psig through 2 out of 3 logic to trip the reactor above the P-8 setpoint. The DEH low pressure trip at 900 psig serves to close the turbine control and stop valves which in turn would trip the reactor through the turbine stop valve closure switch at 1% open. However, the DEH system low pressure trip does not directly feed the reactor trip circuit. Therefore, the setpoint specified should be for the control oil pressure switches which directly initiate the reactor trip.

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This proposed change corrects the current Technical Specifications to correctly specify the trip setpoint and as such does not result in any adverse safety implications.

-> M. Domena

To: - Ralph Birkel

DURE POWER COMPANY

x 28516

POWER HULLDING From .
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

Skip Copp

WILLIAM OL PARKER, JR. VICE PRESIDENT STEAM PRODUCTION

September 21, 1981

TELEPHONE: AREA 704 373-4083

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief Licensing Branch No. 4

Re: McGuire Ruclear Station Proposed Amendment to License NPF-9 Docket No. 50-369 Ralphi
This one needs to

be expedited. We cannot
exceed 48% power until,

Skip

Dear Mr. Denton:

Attached is a proposed change to the McGuire Nuclear Station, Unit 1, Technical Specifications. This change corrects the setpoint associated with the reactor trip initiated by a turbine trip.

This change has been reviewed and it has been determined that there are no adverse safety or environmental impacts associated with the proposed change. The proposed change is considered to be a Class III amendment pursuant to 10 CFR 170.22. Therefore, enclosed is a check in the amount of \$4000.

Very truly yours;

s/William O. Parker, Jr. William O. Parker, Jr.

GAC/smh

cc: Ms. M. J. Graham
Resident Inspector
McGuire Nuclear Station

Hr. James P. O'Reilly, Director U. S. Nuclear Regulatory Commission Region II 101 Marietta Street, Suite 3100 Atlanta, Georgia 30303

U.S. MUCLEAR REGULATOR
COMMISSION

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8110130034 810923 PDR ADOCK 05000365 P PDR Technical Specification 2.2 - Reactor Trip Instrumentation Setpoints

Proposed Change

Change Values on Item 128 in Table 2.2-1 to read;

12A) Low System Pressure Trip - Trip Setpoint > 45 psig Allowable Value > 42 psig

Justification and Safety Analysis

The design of the Turbine Trip/Reactor Trip circuit is based on the control oil system which is used to control DEH system oil pressure through an interface valve. When a turbine trip signal is initiated, a section of the control oil system is bled off which in turn dumps the pressure on the DEH system to close the turbine control and stop valves. This control oil system generates a low pressure signal at 45 psig through 2 out of 3 logic to trip the reactor above the P-8 setpoint. The DEH low pressure trip at 900 psig serves to close the turbine control and stop valves which in turn would trip the reactor through the turbine stop valve closure switch at 1% open. However, the DEH system low the turbine stop valve closure switch at 1% open. However, the DEH system low setpoint specified should be for the control oil pressure switches which directly initiate the reactor trip.

This proposed change corrects the current Technical Specifications to correctly specify the trip setpoint and as such does not result in any adverse safety implications.

DISTRIBUTION:

Docket No. 50-369

LB #4 r/f

E. Adensam

September 22, 1981 R. Birkel

M. Duncan

D. Eisenhut

E. Ketchen

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. 5 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.

> Ralph Birkel, Project Manager Licensing Branch No. 4

Division of Licensing

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AMENDMENT NO. 5 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

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E. Adensam

MPA

A. Toalston, DE

I. Dinitz, ĎE

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

