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Docket No. 50-366

FEBRUARY 27 1979

Mr. Charles F. Whitmer
 Vice President - Engineering
 Georgia Power Company
 P. O. Box 4545
 Atlanta, Georgia 30302

Dear Mr. Whitmer:

The Commission has issued the enclosed Amendment No. 4 to Facility Operating License No. NPF-5 for the Edwin I. Hatch Nuclear Plant, Unit No. 2. The amendment consists of changes to the Technical Specifications in response to your application dated January 11, 1979.

This amendment revises the Turbine Control Valve Fast Closure setpoint from ≥ 1100 psig to ≥ 600 psig on low electrohydraulic control oil pressure.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original Signed by
 T. A. Ippolito

Thomas A. Ippolito, Chief
 Operating Reactors Branch #3
 Division of Operating Reactors

Enclosures:

1. Amendment No. 4
2. Safety Evaluation
3. Notice

cc w/enclosures:
 See page 2

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*Reviewed by OELD;
 Call from L. Payne 2-23-79
 Done!*

CP 1
 GP

OFFICE →	ORB #3	ORB #3	RS	OELD	ORB #3
SURNAME →	PKreutzer	DVerrelli:mjf	PCheck		Tippolito
DATE →	2/26/79	2/14/79	2/16/79	2/1/79	2/26/79

Mr. Charles F. Whitmer

- 2 -

February 27, 1979

cc:

G. F. Trowbridge, Esquire
Shaw, Pittman, Potts and Trowbridge
1800 M Street, N. W.
Washington, D. C. 20036

Ruble A. Thomas
Vice President
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Birmingham, Alabama 35202

Mr. Harry Majors
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Birmingham, Alabama 35202

Charles H. Badger
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Atlanta, Georgia 30334

Mr. H. B. Lee, Chairman
Appling County Commissioners
County Courthouse
Baxley, Georgia 31513

Mr. L. T. Gucwa
Georgia Power Company
Engineering Department
P. O. Box 4545
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Mr. C. T. Moore
Georgia Power Company
Power Generation Department
P. O. Box 4545
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Mr. D. P. Shannon
Georgia Power Company
Edwin I. Hatch Plant
P. O. Box 442
Baxley, Georgia 31513

U. S. Environmental Protection Agency
Region IV Office
ATTN: EIS COORDINATOR
345 Courtland Street, N. E.
Atlanta, Georgia 30308

Appling County Public Library
Parker Street
Baxley, Georgia 31513

Mr. R. F. Rodgers
U. S. Nuclear Regulatory Commission
P. O. Box 710
Baxley, Georgia 31513

Director, Technical Assessment
Division
Office of Radiation Programs (AW-459)
US EPA
Crystal Mall #2
Arlington, Virginia 20460



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

GEORGIA POWER COMPANY
OGLETHORPE ELECTRIC MEMBERSHIP CORPORATION
MUNICIPAL ELECTRIC ASSOCIATION OF GEORGIA
CITY OF DALTON, GEORGIA

DOCKET NO. 50-366

EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4
License No. NPF-5

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Georgia Power Company, et al., (the licensee) dated January 1, 1979, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and 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;
 - 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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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-5 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 4, are hereby incorporated in the license. The license shall operate the facility in accordance with the Technical Specifications.

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

FOR THE NUCLEAR REGULATORY COMMISSION


Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: February 27, 1979

ATTACHMENT TO LICENSE AMENDMENT NO. 4

FACILITY OPERATING LICENSE NO. NPF-5

DOCKET NO. 50-366

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains vertical lines indicating the area of change.

Remove

2-3*
2-4

Insert

2-3*
2-4

*Overleaf page provided for convenience

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SAFETY LIMITS AND LIMITING SAFETY SYSTEM SETTINGS

2.2 LIMITING SAFETY SYSTEM SETTINGS

REACTOR PROTECTION SYSTEM INSTRUMENTATION SETPOINTS

2.2.1 The reactor protection system instrumentation setpoints shall be set consistent with the Trip Setpoint values shown in Table 2.2.1-1.

APPLICABILITY: As shown for each channel in Table 3.3.1-1.

ACTION:

With a reactor protection system instrumentation setpoint less conservative than the value shown in the Allowable Values column of Table 2.2.1-1, declare the channel inoperable and apply the applicable ACTION statement requirement of Specification 3.3.1 until the channel is restored to OPERABLE status with its trip setpoint adjusted consistent with the Trip Setpoint value.

TABLE 2.2.1-1

REACTOR PROTECTION SYSTEM INSTRUMENTATION SETPOINTS

<u>FUNCTIONAL UNIT</u>	<u>TRIP SETPOINT</u>	<u>ALLOWABLE VALUES</u>
1. Intermediate Range Monitor, Neutron Flux-High (2C51-K601 A,B,C,D,E,F,G,H)	< 120/125 divisions of full scale	< 120/125 divisions of full scale
2. Average Power Range Monitor: (2C51-K605 A,B,C,D,E,F)		
a. Neutron Flux-High, 15% ^(a)	< 15/125 divisions of full scale	< 15/125 divisions of full scale
b. Flow Biased Neutron Flux-High ^(b)	< (0.66 W + 54%)	< (0.66 W + 54%)
3. Reactor Vessel Steam Dome Pressure - High (2B21-N023 A,B,C,D)	< 1045 psig	< 1045 psig
4. Reactor Vessel Water Level - Low (2B21-N017 A,B,C,D)	> 12.5 inches above instrument zero ^(c)	> 12.5 inches above instrument zero ^(c)
5. Main Steam Line Isolation Valve - Closure (NA)	< 10% closed	< 10% closed
6. Main Steam Line Radiation - High (2D11-K603A,B,C,D)	< 3 x full power background	< 3 x full power background
7. Drywell Pressure - High (2C71-N002A,B,C,D)	< 2 psig	< 2 psig
8. Scram Discharge Volume Water Level - High (2C11-N013A,B,C,D)	< 57.15 gallons	< 57.15 gallons
9. Turbine Stop Valve - Closure (NA)	< 10% closed	< 10% closed
10. Turbine Control Valve Fast Closure, Trip Oil Pressure-Low (2C71-N005A,B,C,D)	> 600 psig	> 600 psig

HATCH-UNIT 2

2-4

Amendment No. 4



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 4 TO FACILITY OPERATING LICENSE NO. NPF-5

GEORGIA POWER COMPANY
OGLETHORPE ELECTRIC MEMBERSHIP CORPORATION
MUNICIPAL ELECTRIC ASSOCIATION OF GEORGIA
CITY OF DALTON, GEORGIA

EDWIN I. HATCH NUCLEAR PLANT UNIT NO. 2

DOCKET NO. 50-366

I. Introduction

By letter dated January 11, 1979, Georgia Power Company (licensee) proposed a change to the Technical Specifications appended to Operating License No. NPF-5 for the Edwin I. Hatch Nuclear Plant Unit No. 2. The amendment would revise the Turbine Control Valve Fast Closure setpoint from ≥ 1100 psig to ≥ 600 psig on low electrohydraulic control oil pressure.

II. Background

Fast closure of the turbine control valves is initiated to prevent overspeed of the turbine in the event of a load rejection whose magnitude is greater than the by-pass capacity of the facility. Such a fast closure, if unmitigated by the Reactor Protection System (RPS) would result in a nuclear system pressure increase and a shutdown of the reactor upon reaching the high pressure or high flux scram setpoint.

Although the nuclear system high-pressure scram in conjunction with the pressure relief system is adequate to preclude overpressurizing the nuclear system, a turbine control valve fast closure scram is required by Technical Specifications to provide additional margin to the nuclear system pressure limit. The original staff review of this anticipatory scram assumed that a scram will be initiated as soon as the turbine control valve fast closure is sensed (Sec. 15.1.1.2.2 of HNP-2 FSAR).

III. Discussion

The licensee proposed to decrease the Control Valve Fast Closure setpoint from 1100 psig to 600 psig in order to decrease the probability of inadvertent reactor scrams due to normal EHC oil pressure fluctuations. The elimination of inadvertent scrams would decrease unwarranted thermal cycles on the reactor vessel. We have reviewed the licensee's submittal and agree that a reduced setpoint would be acceptable if the conservative assumptions used in previous reviews are maintained.

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The EHC system at Hatch is similar to all other BWRs that employ EHC for the turbine generator. Fast closure of the turbine control valves is initiated when the EHC pressure drops below that pressure required to maintain the disk dump valve closed. At Hatch 2, the operating range for opening the disk dump valve is from 480 - 500 psig. Thus, the proposed RPS trip setting of 600 psig is more conservative than those conditions assumed in the FSAR evaluation. It is noted that the span of adjustment for the pressure switch is from 250 psi to 1600 psi.

In the course of staff review, we considered instrumentation accuracy and RPS response times. The current Technical Specifications include the provisions that the RPS response time for turbine control valve fast closure on low oil pressure is ≤ 0.08 sec. This response time is the time interval from when the monitored parameter exceeds its trip setpoint at the channel sensor until de-energization of the scram pilot valve solenoids. Accordingly, instrumentation accuracy and delay times are already accounted for in this specification and are unaffected by the proposed change.

In view of the above we find that the proposed change is acceptable since there is no change in the conservatism of safety margins and the proposed trip setpoint is consistent with current licensing practice as set forth in NUREG-0123, "Standard Technical Specifications for General Electric Boiling Water Reactors."

IV. Environmental Considerations

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 §1.5(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.

V. Conclusions

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 the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: February 27, 1979

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-366GEORGIA POWER COMPANY, ET AL.NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to Facility Operating License No. NPF-5, issued to Georgia Power Company, Oglethorpe Electric Membership Corporation, Municipal Electric Association of Georgia and City of Dalton, Georgia, which revised Technical Specifications for operation of the Edwin I. Hatch Nuclear Plant, Unit No. 2 (the facility) located in Appling County, Georgia. The amendment is effective as of its date of issuance.

The amendment revises the Turbine Control Valve Fast Closure setpoint from ≥ 1100 psig to ≥ 600 psig on low electrohydraulic control oil pressure.

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 rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and 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) the application for amendment dated January 11, 1979, (2) Amendment No. 4 to License No. NPF-5, and (3) the Commission's related Safety Evaluation. 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 at the Appling County Public Library, Parker Street, Baxley, Georgia 31513. 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 Operating Reactors.

Dated at Bethesda, Maryland, this 27th day of February 1979.

FOR THE NUCLEAR REGULATORY COMMISSION


Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors