

June 10, 1988

Docket No. 50-424

Mr. W. G. Hairston, III
Senior Vice President -
Nuclear Operations
Georgia Power Company
P. O. Box 4545
Atlanta, Georgia 30302

Dear Mr. Hairston:

SUBJECT: ISSUANCE OF AMENDMENT NO. 5 TO FACILITY OPERATING LICENSE NPF-68
VOGTLE ELECTRIC GENERATING PLANT, UNIT 1 (TAC 67140)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 5 to Facility Operating License No. NPF-68 for the Vogtle Electric Generating Plant, Unit 1. The amendment is being issued in response to your letter dated February 4, 1988.

The amendment modified the Technical Specifications (TS) to allow a surveillance flow rate of 150 gpm for each motor-driven auxiliary feedwater pump. The amendment is effective as of its date of issuance.

A copy of the related safety evaluation supporting Amendment No. 5 to Facility Operating License NPF-68 is enclosed.

Notice of issuance of the amendment and opportunity for hearing will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

/s/

Jon B. Hopkins, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II

Enclosures:

1. Amendment No. 5 to NPF-68
2. Safety Evaluation

cc w/enclosures:

See next page

*SEE PREVIOUS PAGE FOR CONCURRENCE

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6/10/88

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Mr. R. P. McDonald
Georgia Power Company

Vogtle Electric Generating Plant

cc:

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U.S. Nuclear Regulatory Commission
101 Marietta Street, N.W., Suite 2900
Atlanta, Georgia 30323



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

GEORGIA POWER COMPANY
OGLETHORPE POWER CORPORATION
MUNICIPAL ELECTIC AUTHORITY OF GEORGIA
CITY OF DALTON, GEORGIA
VOGTLE ELECTRIC GENERATING PLANT, UNIT 1
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 5
License No. NPF-68

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Vogtle Electric Generating Plant, Unit 1 (the facility) Facility Operating License No. NPF-68 filed by the Georgia Power Company acting for itself, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and City of Dalton, Georgia, (the licensees) dated February 4, 1988, 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, as amended, 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 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; 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 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-68 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 5, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. GPC shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance and shall be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects

Attachment:
Technical Specification Changes

Date of Issuance: June 10, 1988

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LA:PDII-3
MRood
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PM:PDII-3
JHopkins:pw
5/26/88

NRB:PSB
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ATTACHMENT TO LICENSE AMENDMENT NO. 5

FACILITY OPERATING LICENSE NO. NPF-68

DOCKET NO. 50-424

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

Amended Page

3/4 7-4

Overleaf Page

3/4 7-3

TABLE 3.7-2

STEAM LINE SAFETY VALVES PER LOOP

<u>VALVE NUMBER</u>				<u>LIFT SETTING</u> <u>(± 1%)*</u>	<u>ORIFICE SIZE</u>	
	SG-1	SG-2	SG-3	SG-4		
1.	PSV 3001	PSV 3011	PSV 3021	PSV 3031	1185 psig	16.0 in ²
2.	PSV 3002	PSV 3012	PSV 3022	PSV 3032	1200 psig	16.0 in ²
3.	PSV 3003	PSV 3013	PSV 3023	PSV 3033	1210 psig	16.0 in ²
4.	PSV 3004	PSV 3014	PSV 3024	PSV 3034	1220 psig	16.0 in ²
5.	PSV 3005	PSV 3015	PSV 3025	PSV 3035	1235 psig	16.0 in ²

*The lift setting pressure shall correspond to ambient conditions of the valve at nominal operating temperature and pressure.

PLANT SYSTEMS

AUXILIARY FEEDWATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.1.2 At least three independent steam generator auxiliary feedwater pumps and associated flow paths shall be OPERABLE with:

- a. Two motor-driven auxiliary feedwater pumps, each capable of being powered from separate emergency busses, and
- b. One steam turbine-driven auxiliary feedwater pump capable of being powered from an OPERABLE steam supply system.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

- a. With one auxiliary feedwater pump inoperable, restore the required auxiliary feedwater pumps to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.
- b. With two auxiliary feedwater pumps inoperable, be in at least HOT STANDBY within 6 hours and in HOT SHUTDOWN within the following 6 hours.
- c. With three auxiliary feedwater pumps inoperable, immediately initiate corrective action to restore at least one auxiliary feedwater pump to OPERABLE status as soon as possible.

SURVEILLANCE REQUIREMENTS

4.7.1.2.1 Each auxiliary feedwater pump shall be demonstrated OPERABLE:

- a. At least once per 31 days on a STAGGERED TEST BASIS by:
 - 1) Verifying that each motor-driven pump develops a discharge pressure of greater than or equal to 1605 psig at a flow of greater than or equal to 150 gpm (FI-15101, FI-15102);
 - 2) Verifying that the steam turbine-driven pump develops a discharge pressure of greater than or equal to 1675 psig at a flow of greater than or equal to 145 gpm (FI-5100) when the secondary steam supply pressure (PI-5105A, PI-5105B) is greater than 900 psig. The provisions of Specification 4.0.4 are not applicable for entry into MODE 3.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 5 TO FACILITY OPERATING LICENSE NPF-68

GEORGIA POWER COMPANY, ET AL

DOCKET NO. 50-424

VOGTLE ELECTRIC GENERATING PLANT, UNIT 1

1.0 INTRODUCTION

By letter dated February 4, 1988, Georgia Power Company, et al., (the licensee) requested a change to the Technical Specifications for Vogtle Electric Generating Plant, (VEGP), Unit 1. The proposed change would change the Technical Specification surveillance flow rate for each motor-driven auxiliary feedwater pump from 175 gpm to 150 gpm.

2.0 EVALUATION

Technical Specification 4.7.1.2, "Auxiliary Feedwater System," required verification at least once every 31 days that each motor-driven auxiliary feedwater (AFW) pump develops a discharge pressure of greater than or equal to 1605 psig at a flow of greater than or equal to 175 gpm. A minimum flow of 175 gpm was recommended by the pump manufacturer for protection of the motor-driven AFW pumps. Surveillance tests have demonstrated adequate discharge pressure, but the 'A' motor-driven AFW pump meets the 175 gpm flow rate by a narrow margin. The licensee states that the surveillance test results have been relatively constant and have not exhibited any downward trend. The licensee believes that the marginal surveillance results are due to the uncertainties in the orifice and recirculation pipe design. The licensee requested the manufacturer evaluate the acceptability of a lower flow rate. The manufacturer informed the licensee that 150 gpm is an acceptable minimum flow rate for extended operation of the motor-driven AFW pumps. The licensee states that the pump head is relatively constant in the 150-175 gpm flow region; therefore, 1605 psig is still the appropriate discharge pressure. The licensee then concludes that 1605 psig at 150 gpm is an appropriate Technical Specification surveillance acceptance criterion for the motor-driven AFW pumps because it is adequate for pump protection and it verifies that a pump is operating on its head versus flow curve. The licensee also concludes that the requested acceptance criterion provides an equivalent indication of pump operability compared with the criterion of 1605 psig at 175 gpm.

The NRC staff has reviewed the above information and finds that 1605 psig at 150 gpm is acceptable for pump protection because the manufacturer has stated that extended operation of the pumps can occur with a minimum flow rate of 150 gpm. The NRC staff also finds that 1605 psig at 150 gpm will allow the licensee to verify pump operability because it will not affect the licensee's comparison of observed pump head and flow rate versus the established operable pump curve of head versus flow. Therefore, the NRC staff concludes that the requested change is acceptable.

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3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves change in surveillance requirements. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational exposure. The NRC staff has made a determination that the amendment involves no significant hazards consideration, and there has been no public comment on such finding. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register on March 23, 1988, (53 FR 9506), and consulted with the state of Georgia. No public comments were received, and the state of Georgia did not have any comments.

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) 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.

Principal Contributor: Jon B. Hopkins, PDII-3/DRP-I/II

Dated: June 10, 1988

June 10, 1988

Docket No. 50-424

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Docket File OGC-WF
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JHopkins

MEMORANDUM FOR: Sholly Coordinator
FROM: Jon B. Hopkins, Project Manager
Project Directorate II-3
Division of Reactor Projects-I/II

SUBJECT: REQUEST FOR PUBLICATION IN BIWEEKLY FR NOTICE - NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE (TAC 67140)

Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, City of Dalton, Georgia, Docket No. 50-424, Vogtle Electric Generating Plant, Unit 1, Burke County, Georgia

Date of application for amendment: February 4, 1988

Brief description of amendment: The amendment modified the Technical Specifications to allow a surveillance flow rate of 150 gpm for each motor-driven auxiliary feedwater pump.

Date of issuance: June 10, 1988

Effective date: June 10, 1988

Amendment No.: 5

Facility Operating License No. NPF-68: Amendment revised the Technical Specifications.

Date of initial notice in FEDERAL REGISTER: March 23, 1988 (53 FR 9506)

The Commission's related evaluation of the amendment is contained in a Safety Evaluation dated June 10, 1988

No significant hazards consideration comments received: No.

Local Public Document Room location: Burke County Library, 412 Fourth Street, Waynesboro, Georgia 30830

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15/
Jon B. Hopkins, Project Manager
Project Directorate II-3
Division of Reactor Projects-I/II

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DATED: June 10, 1988

AMENDMENT NO. TO FACILITY OPERATING LICENSE NPF-68 - Vogtle Electric
Generating Plant, Unit 1

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OGC-WF	15-B-18
EJordan	MNBB-3302
TBarnhart (4)	P1-137
ACRS (10)	H-1016
WJones	P-130A
EButcher	11-F-23
GPA/PA	17-F-2
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DHagan	MNBB-3302
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JMiller	

DATED: June 10, 1988

AMENDMENT NO. TO FACILITY OPERATING LICENSE NPF-68 - Vogtle Electric
Generating Plant, Unit 1

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JPartlow	9-A-2
JMiller	