

March 18, 1991

Docket Nos. 50-424
and 50-425

Mr. W. G. Hairston, III
Senior Vice President -
Nuclear Operations
Georgia Power Company
P.O. Box 1295
Birmingham, Alabama 35201

Dear Mr. Hairston:

SUBJECT: ISSUANCE OF AMENDMENT NO. 38 TO FACILITY OPERATING LICENSE NPF-68
AND AMENDMENT NO. 18 TO FACILITY OPERATING LICENSE NPF-81 -
VOGTLE ELECTRIC GENERATING PLANT, UNITS 1 AND 2 (TACS 73127/73128)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 38 to Facility Operating License No. NPF-68 and Amendment No. 18 to Facility Operating License No. NPF-81 for the Vogtle Electric Generating Plant, Units 1 and 2. These amendments consist of changes to the Technical Specifications (TSs) in response to your application dated May 8, 1989.

The amendments modify the Technical Specification (TS) by revising uncertainty and allowable values involved with the setpoint for a Low Pressurizer Pressure Safety Injection Trip.

A copy of the related Safety Evaluation is also enclosed. Notice of issuance of the amendments will be included in the Commission's biweekly Federal Register notice.

Sincerely,



Darl Hood, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 38 to NPF-68
2. Amendment No. 18 to NPF-81
3. Safety Evaluation

cc w/enclosures:
See next page

LA:PDII3
BC:Payton
2/19/91

^{DSH}
PM:PDII3
DHood
2/19/91

SRXB 1
RJones
2/20/91

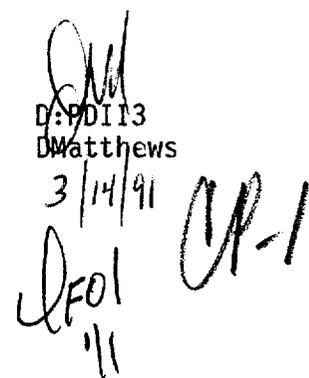
SRXB
SNewberry
2/27/91

OGC
S. [unclear]
3/6/91

D:PDII3
DMatthews
3/14/91

OFFICIAL RECORD COPY
Document Name: VOGTLE AMEND LO PRESSURE

9103220005 910318
PDR ADDCK 05000424
P PDR



DATED: March 18, 1991

AMENDMENT NO. 38 TO FACILITY OPERATING LICENSE NPF-68 - Vogtle Electric
Generating Plant, Unit 1

AMENDMENT NO. 18 TO FACILITY OPERATING LICENSE NPF-81 - Vogtle Electric
Generating Plant, Unit 2

DISTRIBUTION:

Docket File

NRC PDR

Local PDR

PD II-3 R/F

Vogtle R/F

S. Varga 14-E-4

G. Lainas 14-H-3

D. Matthews 9-H-3

R. Ingram 9-H-3

D. Hood 9-H-3

OGC-WF 15-B-18

D. Hagan MNBB 4702

G. Hill (8) P1-37

W. Jones MNBB 7103

J. Calvo 11-F-22

R. Jones 8-E-23

P. Loeser 8-H-3

ACRS (10) P-135

GPA/PA 17-F-2

OC/LFDCB MNBB 4702

Mr. W. G. Hairston, III
Georgia Power Company

Vogtle Electric Generating Plant

cc:

Mr. J. A. Bailey
Manager - Licensing
Georgia Power Company
P. O. Box 1295
Birmingham, Alabama 35201

Mr. J. Leonard Ledbetter, Director
Environmental Protection Division
Department of Natural Resources
205 Butler Street, SE., Suite 1252
Atlanta, Georgia 30334

Mr. W. B. Shipman
General Manager, Vogtle Electric
Generating Plant
P. O. Box 1600
Waynesboro, Georgia 30830

Attorney General
Law Department
132 Judicial Building
Atlanta, Georgia 30334

Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW., Suite 2900
Atlanta, Georgia 30323

Mr. Alan R. Herdt
Project Branch #3
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW., Suite 2900
Atlanta, Georgia 30323

Office of the County Commissioner
Burke County Commission
Waynesboro, Georgia 30830

Mr. Dan Smith
Program Director of
Power Production
Oglethorpe Power Corporation
100 Crescent Centre
Tucker, Georgia 30085

Office of Planning and Budget
Room 615B
270 Washington Street, SW.
Atlanta, Georgia 30334

Charles A. Patrizia, Esq.
Paul, Hastings, Janofsky & Walker
12th Floor
1050 Connecticut Avenue, NW.
Washington, DC 20036

Mr. C. K. McCoy
Vice President - Nuclear, Vogtle Project
Georgia Power Company
P. O. Box 1295
Birmingham, Alabama 35201

Resident Inspector
U. S. Nuclear Regulatory Commission
P. O. Box 572
Waynesboro, Georgia 30830

Mr. R. P. McDonald
Executive Vice President -
Nuclear Operations
Georgia Power Company
P. O. Box 1295
Birmingham, Alabama 35201



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

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

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 38
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 May 8, 1989, 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 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.

2. Accordingly, the license is hereby amended by page 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-68 is hereby amended to read as follows:

Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 38, 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 - I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification Changes

Date of Issuance: March 18, 1991



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

GEORGIA POWER COMPANY

OGLETHORPE POWER CORPORATION

MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA

CITY OF DALTON, GEORGIA

DOCKET NO. 50-425

VOGTLE ELECTRIC GENERATING PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 18
License No. NPF-81

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Vogtle Electric Generating Plant, Unit 2 (the facility) Facility Operating License No. NPF-81 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 May 8, 1989, 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 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.

2. Accordingly, the license is hereby amended by page 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-81 is hereby amended to read as follows:

Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 18, 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 - I/II
Office of Nuclear Reactor Regulation

Attachment:
Technical Specification Changes

Date of Issuance: March 18, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 38

FACILITY OPERATING LICENSE NO. NPF-68

AND LICENSE AMENDMENT NO. 18

FACILITY OPERATING LICENSE NO. NPF-81

DOCKET NOS. 50-424 AND 50-425

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 areas of change.

Remove Page

3/4 3-28

Insert Page

3/4 3-28

TABLE 3.3-3

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	TOTAL ALLOWANCE (TA)	Z	SENSOR ERROR (S)	TRIP SETPOINT	ALLOWABLE VALUE
1. Safety Injection (Reactor Trip, Feedwater Isolation, Component Cooling Water, Control Room Emergency Filtration System Actuation, Start Diesel Generators, Containment Cooling Fans, Nuclear Service Cooling Water, Containment Isolation, Containment Ventilation Isolation, and Auxiliary Feedwater Motor-Driven Pumps)					
a. Manual Initiation	N.A.	N.A.	N.A.	N.A.	N.A.
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
c. Containment Pressure--High 1 (PI-0934, PI-0935, PI-0936)	2.7	0.71	1.67	≤ 3.8 psig	≤ 4.4 psig
d. Pressurizer Pressure--Low (PI-0455A,B&C, PI-0456 & PI-0456A, PI-0457 & PI-0457A, PI-0458 & PI-0458A)	21.25	18.36	1.67	≥ 1870 psig	≥ 1856 psig
e. Steam Line Pressure--Low	13.0	10.71	1.67	≥ 585 psig*	≥ 570 psig
(LOOP1 LOOP2 LOOP3 LOOP4					
PI-0514A,B&C PI-0524A&B PI-0534A&B PI-0544A,B&C					
PI-0515A PI-0525A PI-0535A PI-0545A					
PI-0516A PI-0526A PI-0536A PI-0546A)					
2. Containment Spray					
a. Manual Initiation	N.A.	N.A.	N.A.	N.A.	N.A.
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
c. Containment Pressure--High-3 (PI-0934, PI-0935, PI-0936, PI-0937)	3.1	0.71	1.67	≤ 21.5 psig	≤ 22.4 psig

VOGTLE UNITS - 1 & 2

3/4 3-28



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 38 TO FACILITY OPERATING LICENSE NPF-68
AND AMENDMENT NO. 18 TO FACILITY OPERATING LICENSE NPF-81

GEORGIA POWER COMPANY, ET AL.

VOGTLE ELECTRIC GENERATING PLANT, UNITS 1 AND 2

DOCKET NOS. 50-424 AND 50-425

1.0 INTRODUCTION

By letter dated May 8, 1989, Georgia Power Company, et al. (the licensee) proposed licensing amendments to change the Technical Specifications (TSs) for Vogtle Electric Generating Plant (VEGP or the facility), Units 1 and 2. The proposed change would revise three of the five values specified for item 1.d, "Pressurizer Pressure--Low," in TS Table 3.3.-3, "Engineered Safety Features Actuation System Instrumentation Trip Setpoints." Specifically the value for total allowance (TA) would change from 13.1 to 21.25; the value for the statistical summation of errors assumed in the safety analyses (Z) would change from 10.71 to 18.36; and the specified allowable value would change from ≥ 1860 psig to ≥ 1856 psig. The proposed amendments would not change the values specified for trip setpoint (≥ 1870 psig) and sensor error (1.67).

2.0 BACKGROUND

In 1986, the licensee discovered that the uncertainties due to temperature compensation for transmitters supplied by Veritrac/Tobar were greater than the instrumentation uncertainties that had been assumed in the safety analyses. Consequently, the Unit 1 TS was changed to add a footnote to revise the trip setpoint for Low Pressurizer Pressure Safety Injection. Westinghouse conducted evaluations that accounted for the increased uncertainty associated with temperature compensation for the Veritrac/Tobar transmitters. Based on these evaluations, the footnote was omitted when the combined TSs for Units 1 and 2 were issued in March 1989.

The evaluations by Westinghouse included an increased statistical summation of errors and a lower safety analysis limit. This included evaluating the increase in the difference between the specified trip setpoint and the value used in the analysis for the trip setpoint. The licensee notes that the evaluations demonstrated additional margin between the trip setpoint and the allowable value which will reduce the possibility of instrument setpoint drift resulting in the instrument being declared inoperable. The proposed changes to TS Table 3.3.-3 for TA, Z, and Allowable Value are intended to make the TSs consistent with parameters used in these evaluations.

9103220008 910318
PDR ADDCK 05000424
P PDR

3.0 EVALUATION

The Final Safety Analysis Report for the facility, as updated March 1990, provides additional information on the Veritrac/Tobar pressure transmitters. Tables 7.3.1-4, "Primary System Accidents and Required Instrumentation" and 7.3.1-5, "Secondary System Accidents and Required Instrumentation" list the accuracy of instrumentation for pressurizer pressure as ± 1.75 percent of the instrument span. The range is from 1700 psig to 2500 psig, corresponding to a span of 800 psi and an accuracy of ± 14 psi. This agrees with the requested change in allowable value; the difference between the trip setpoint (1870 psig) and the proposed allowable value (1856 psig) is 14 psi.

The licensee notes that safety analyses performed for them by Westinghouse to account for additional uncertainty in the Veritrac/Tobar instrument due to temperature compensation demonstrate the proposed values of TA, Z, and Allowable Value to be acceptable. The analyses did not change the trip setpoint and showed the revised analyses limits to be bounded by the existing analyses. The NRC has considered the change in the safety analyses limits and finds them acceptable in evaluations performed for the licensee. Moreover, although the proposed allowable value is less than the current allowable value, it is consistent with instrument accuracy and safety analyses, and is, therefore, acceptable.

4.0 ENVIRONMENTAL CONSIDERATION

The amendments involve changes in requirements with respect to the installation or use of facility components located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendments involve 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 Commission's staff has previously issued proposed finding that the amendments involve no significant hazards consideration, and there has been no public comment on such finding. Accordingly, the amendments meet 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 these amendments.

4.0 CONCLUSION

The Commission's proposed determination that the amendments involve no significant hazards consideration was published in the Federal Register (54 FR 31108) on July 26, 1989. The Commission 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 these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Hood, PDII-3/DRPE
P. Loeser, SICB/DST
R. Jones, SRXB/DST

Dated: March 18, 1991