

January 20, 1995

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

SUBJECT: ISSUANCE OF AMENDMENT - VOGTLE ELECTRIC GENERATING PLANT,  
UNIT 1 (TAC NO. M90229)

Dear Mr. McCoy:

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 81 to Facility Operating License NPF-68 for the Vogtle Electric Generating Plant, Unit 1. The amendment consists of changes to the list of licensing conditions in the Facility Operating License in response to your application dated August 16, 1994.

The amendment eliminates License Condition 2.C.(6) and the associated Attachment 1 of the license. License Condition 2.C.(6) referenced Attachment 1 which listed special diesel generator maintenance and surveillance requirements.

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

Sincerely,

/s/

Louis L. Wheeler, Senior Project Manager  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-424

Enclosures:

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

cc w/encl: See next page \*SEE PREVIOUS CONCURRENCES

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

January 20, 1995

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

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Sincerely,

A handwritten signature in cursive script, reading "Louis L. Wheeler", is positioned above the typed name.

Louis L. Wheeler, Senior Project Manager  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-424

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

cc w/encl: See next page

Mr. C. K. McCoy  
Georgia Power Company

Vogtle Electric Generating Plant

cc:

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

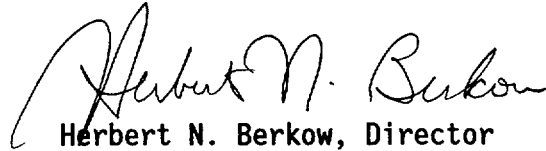
GEORGIA POWER COMPANY  
OGLETHORPE POWER CORPORATION  
MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA  
CITY OF DALTON, GEORGIA  
VOGTLE ELECTRIC GENERATING PLANT, UNIT 1  
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 81  
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 August 16, 1994, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations as 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 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, Facility Operating License No. NPF-68 is hereby amended by deletion of License Condition 2.C.(6) and the associated Attachment 1 of the license. The affected licensing pages are attached.
3. The license amendment is effective as of the date of issuance and shall be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in dark ink, appearing to read "Herbert N. Berkow". The signature is fluid and cursive, with the first name "Herbert" being more prominent.

Herbert N. Berkow, Director  
Project Directorate II-3  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
License pages 4, 7, and  
Attachment 1

Date of Issuance: January 20, 1995

(4) Emergency Planning (Section 13.3, SER and SSERs 2, 3, 4, and 5)

In the event that the NRC finds that the lack of progress in completion of the procedures in the Federal Emergency Management Agency's final rule, 44 CFR Part 350, is an indication that a major substantive problem exists in achieving or maintaining an adequate state of emergency preparedness, the provisions of 10 CFR Section 50.54(s)(2) will apply.

(5) Steam Generator Tube Rupture (Section 15.6.3, SER and SSER 3)

By March 1, 1988, GPC shall submit for NRC review a revised plant-specific steam generator tube rupture analysis based on the Westinghouse Owner's Group generic resolution, which includes radiological consequence analyses, analysis of steamline static load in the event of overfill, and justification that systems and components credited in the analysis to mitigate accident consequences are safety related.

(6) DELETED

(7) NUREG-0737 Items

- a. Compliance with NUREG-0737, Item II.F.2 (Section 4.4.8, SER and SSERs 1 and 4)

In accordance with NUREG-0737, Item II.F.2, GPC shall submit the proposed reactor vessel level instrumentation system (RVLIS) report by June 1, 1987.

- b. Supplemental Report on Safety Parameter Display System (Section 18.2, SSER 6)

GPC shall submit by March 1, 1988, a supplemental report on the safety parameter display system as discussed in Section 18.2 of SSER 6.

- c. Supplemental Summary Report on Detailed Control Room Design Review (Section 18, SSER 5)

GPC shall submit by March 1, 1988, a Supplemental Summary Report on the detailed control room design review discussing:

1. the final results of the remaining control room surveys (ambient noise; illumination; heating, ventilation, and air conditioning; plant safety monitoring system computer survey; automatic turbine supervisory instrumentation computer survey; and communications) and the resolution of any human engineering discrepancies (HEDs) resulting from these surveys

H. Reporting to the Commission

Except as otherwise provided in the Technical Specifications or Environmental Protection Plan, GPC shall report any violations of the requirements contained in Section 2.C. of this license in the following manner: initial notification shall be made within twenty-four (24) hours to the NRC Operations Center via the Emergency Notification System with written follow-up within 30 days in accordance with the procedures described in 10 CFR 50.73(b), (c), and (e).

- I. The licensees shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.
- J. This license is effective as of the date of issuance and shall expire at midnight on January 16, 2027.

FOR THE NUCLEAR REGULATORY COMMISSION

ORIGINAL SIGNED BY:

Harold R. Denton, Director  
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Attachment 1 - DELETED
- 2. Appendix A - Technical Specifications
- 3. Appendix B - Environmental Protection Plan
- 4. Appendix C - Antitrust Conditions

Date of Issuance: March 16, 1987

ATTACHMENT 1 TO LICENSE NPF-61  
TDI DIESEL ENGINE REQUIREMENTS

(DELETED)





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 81 TO FACILITY OPERATING LICENSE NPF-68  
GEORGIA POWER COMPANY, ET AL.  
VOGLTE ELECTRIC GENERATING PLANT, UNIT 1  
DOCKET NO. 50-424

1.0 INTRODUCTION

By letter dated August 16, 1994, Georgia Power Company, et al. (the licensee), submitted a request for a change to the Vogtle Electric Generating Plant (Vogtle), Unit 1, Facility Operating License No. NPF-68. The requested change would remove License Condition 2.C.(6) from Facility Operating License NPF-68 for Unit 1. This licensing condition was imposed in response to the issues discussed in Section 9.5.4 and Supplements 4 and 5 to the Vogtle Operating License Safety Evaluation Report, NUREG-1137, and in NUREG-1216, "Safety Evaluation Report Related to the Operability and Reliability of Emergency Diesel Generators Manufactured by Transamerica Delaval, Inc.," dated August 1986. These issues have been resolved as stated below and, accordingly, this license condition is no longer warranted and may be deleted.

2.0 EVALUATION

The Transamerica Delaval (TDI) diesel generators Owners' Group (Owners' Group) submitted proposals on November 30, 1992, and December 7, 1993, on behalf of a number of plants with TDI emergency diesel generators (EDG), including the Vogtle plant. The Owner's Group proposed the removal of diesel generator-related licensing conditions. These conditions were imposed as part of a technical resolution to address concerns regarding the reliability of the TDI EDGs following the crankshaft failure at Shoreham in August 1983. The technical resolution involved implementation of Phase I and Phase II programs as identified in NUREG-1216. The Phase I program focused on the resolution of known engine component problems that had potential generic implications, while the Phase II program focused on the design review of a large set of important engine components to ensure their adequacy from a manufacturing standpoint, as well as operational performance. At that time, the staff concluded that these components merited special emphasis in the area of load restrictions and/or maintenance and surveillance. The 16 major components which were identified included connecting rods, crankshafts, cylinder blocks, cylinder heads, piston skirts, and turbochargers. Engine load restrictions were addressed in the plant-specific Technical Specifications, license conditions, engine operating procedures and operator training, as appropriate, for five of these components. The most critical periodic maintenance/surveillance actions for these components were incorporated as license conditions.

On the basis of substantial operational data and inspection results, the Owners' Group provided information in its submittals of November 1992 and December 1993 to demonstrate that the special concerns of NUREG-1216 were no longer warranted. The Owners' Group stated that the TDI EDGs should be treated on a par with other EDGs within the nuclear industry and subjected to the same standard regulations, without the special requirements of NUREG-1216. In addition, the Owners' Group stated that this action will improve availability of the engines for service, especially during outages, while maintaining current reliability levels.

The NRC staff and its consultants at Pacific Northwest Laboratories have completed a review of the operational data and inspection results contained in the Owners' Group submittals relative to the individual components. In addition, independent opinions were obtained from three leading diesel engine experts regarding these inspection requirements. On the basis of the review, the staff concluded that there is adequate justification for removing the present component-based licensing conditions. The staff's evaluation of the Owners' Group submittals is reported in a letter to Mr. R. C. Day, TDI Diesel Generators Owners' Group Clearinghouse, dated March 17, 1994.<sup>1</sup>

The NRC staff has reviewed the licensee's submittal of August 16, 1994, with respect to whether its findings from its review of the Owners' Group submittals are applicable to Vogtle. Appendix D of the Safety Evaluation of the Owners' Group submittals identifies the specific license conditions which describe the inspection requirements for certain components that may be deleted as a result of the review. These inspection requirements encompass and are consistent with the conditions in the Vogtle operating license. Therefore, the NRC staff concludes that the licensee's proposal is consistent with its Safety Evaluation on the Owners' Group submittals and that License Condition 2.C.(6) for Unit 1 may be deleted.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Georgia State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes requirements with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no

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<sup>1</sup> Letter from Mr. James A. Norberg, NRC, to Mr. R. C. Day, Duke Engineering & Services, Inc., TDI Diesel Generators Owners Group Clearinghouse, dated March 17, 1994.

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 radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (59 FR 46071 dated September 6, 1994). 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.

#### 5.0 CONCLUSION

The Commission 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: L. Wheeler  
J. Rajan

Date: January 20, 1995