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Docket No. 50-416

Mr. J.P. McGaughy, Jr.  
 Assistant Vice President - Nuclear  
 Production  
 Mississippi Power & Light Company  
 P.O. Box 1640  
 Jackson, Mississippi 39205

Dear Mr. McGaughy:

Subject: Amendment No. 2 to Facility Operating License No. NPF-13 -  
 Grand Gulf Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 2 to Facility Operating License No. NPF-13 for the Grand Gulf Nuclear Station, Unit 1. The amendment is in response to your letters dated July 2, August 5 and August 10, 1982. The amendment grants additional one time Technical Specification exceptions for Phase I operations, changes the stated pressure level for the control room leak testing program and approves the delay in the completion of the control room envelope leak tightness test from prior to initial criticality to prior to exceeding 1 percent power.

A copy of the related safety evaluation supporting Amendment No. 2 to Facility Operating License NPF-13 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,



Darrell G. Eisenhut, Director  
 Division of Licensing  
 Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 2 to NPF-13
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:  
 See next page

*Approved 8/17  
 consistent in connection with  
 PDR of I&E statement  
 no significant beyond*

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OFFICIAL RECORD COPY

Grand Gulf

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Assistant Vice President  
Nuclear Production  
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cc: Robert B. McGehee, Esquire  
Wise, Carter, Child, Steen and Caraway  
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Dr. D. C. Gibbs, Vice President  
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Mr. John Richardson  
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Mr. R. Trickovic, Project Manager  
Grand Gulf Nuclear Station  
Bechtel Power Corporation  
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Mr. Alan G. Wagner  
Resident Inspector  
Route 2, Box 150  
Port Gibson, Mississippi 39150

Grand Gulf

cc: (continued)

President  
Claiborne County Board of Supervisors  
Port Gibson, Mississippi 39150

Office of the Governor  
State of Mississippi  
Jackson, Mississippi 39201

U. S. Environmental Protection Agency  
Attn: EIS Coordinator  
Region IV Office  
345 Courtland Street, N. E.  
Atlanta, Georgia 30309

Office of Attorney General  
Attn: William J. Guste, Jr.  
Department of Justice  
7434 Parkins Road, Suite C  
Baton Rouge, Louisiana 70808



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

SAFETY EVALUATION  
AMENDMENT NO. 2 TO NPF-13  
GRAND GULF NUCLEAR STATION, UNIT 1  
DOCKET NO. 50-416

Introduction

The licensee proposed three separate changes to the operating license for Grand Gulf Unit 1 which are as follows:

- a) Incorporation of additional one time Technical Specification exceptions for Phase I operations (MP&L letter dated July 2, 1982).
- b) Change to the stated level for control room pressurization (MP&L letter dated August 5, 1982).
- c) Delay of the control room envelope leak tightness test (MP&L letter dated August 10, 1982).

Evaluation

a) One Time Technical Specification Exceptions

In the license, the staff granted certain one time exceptions from the Technical Specifications prior to exceeding 1.0 percent of rated thermal power for the first time. Since then, the licensee has identified other Technical Specifications for which they need an exception for Phase I operation. The bases for the requested exceptions are consistent with the rationale and justification used in the formulation of the original license condition. In many cases, the requested exceptions are related to systems which will be isolated during Phase I operation or to systems which monitor fission product inventory. At power levels less than 1.0 percent power, there will be a sufficiently low fission product inventory so that these associated systems will not be required. The staff has reviewed the nature of the requested exceptions and the bases for the requests and finds that a one time exception for Phase I operation is acceptable. Therefore, the additional exceptions from the Technical Specifications are granted.

b) Control Room Pressurization Level

In Attachment 1 to the operating license, the pressure level for the testing of control room leak tightness was stated as 1/2 inch water gauge. The licensee has indicated that this was an administrative error and the value for pressure level should have been 1/8 inch water gauge. The staff has reviewed the requested change to 1/8 inch water gauge and finds it consistent with the criteria in the Standard Review Plan, Subsection 6.4.III.3.d.(2)(i). Therefore, the change of control room pressure to 1/8 inch water gauge for leak tightness testing is acceptable.

c) Control Room Envelope Leak Tightness Test

The sealing of the control room envelope that is required for the completion of the leak testing program is still in progress. Therefore, the licensee has requested a delay in this preoperational test from prior to initial criticality to prior to exceeding 1.0 percent of rated thermal power.

In support of this request, the licensee has provided an analysis of post accident dose exposures for control room personnel with a reactor fission product inventory corresponding to a 5.0 percent power level. For this analysis, they took no credit for the removal of iodine by the recirculation filter system. Calculated doses associated with both ground level and elevated releases are within the acceptable dose limits specified in GDC-19.

The staff has evaluated and concurs with the licensee's analysis. Therefore, the deferral for the completion of leak testing of the control room envelope to prior to exceeding 1.0 percent of rated thermal power is acceptable.

Environmental Consideration

We have determined that this amendment does not authorize a change in effluent types or total amount nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that this amendment involves 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 appraisal need not be prepared in connection with the issuance of this statement.

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.

Dated: August 16, 1982

MISSISSIPPI POWER AND LIGHT COMPANY

MIDDLE SOUTH ENERGY, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

License No. HPF-13  
Amendment No. 2

1. The Nuclear Regulatory Commission (the Commission or the NRC) having found that:
  - A. The applications for the amendments filed by the Mississippi Power and Light Company dated July 2, August 5 and August 10, 1982 comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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 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.
2. Accordingly, the license is amended as follows:
  - A. Change paragraphs 2.C.(42)(a)(b) and (f) to read as follows:

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2.C.(42) (a) Technical Specification requirements to have Primary Containment (Drywell & Containment) operable are suspended. These are Specifications 3.6.1.1, 3.6.1.2, 3.6.1.3, 3.6.1.4, 3.6.1.5, 3.6.2.1, 3.6.2.3, 3.6.3.4, 3.6.4 (including actuation instrumentation, Specification 3.3.2), 3.8.4.1.

(b) In addition to the exceptions permitted by Specification 3.10.1, the following reactor vessel head off exceptions are also permitted:

Technical Specification 3.3.2 (primary containment isolation actuation instrumentation only); 3.3.7.1, items 3,4 and 5; 3.3.7.4; 3.3.7.5, Table 3.3.7.5-1, items 8,9 and 12 through 18; 3.3.7.10; 3.3.7.12, Table 3.3.7.12, items 2,4,6 and 7; 3.3.8; 3.4.2.1; 3.4.2.2; 3.4.7; 3.6.1.4; 3.6.1.9; 3.6.4; 3.6.5; and 3.8.4.1

(f) Provided that the outboard MSIVs and the main steam shutoff valves are closed, the provisions of the following specifications may be suspended:

3.3.1, Table 3.3.1-1, Item 7; 3.3.2, Table 3.3.2-1, Item 2b; 3.3.7.1, Table 3.3.7.1-1, Items 3,4 and 5; 3.3.7.5, Table 3.3.7.5-1, Item 17; and 3.6.1.4.

B. Change Item 1(c) of Attachment 1 to License NPF-13 to read:

1(c) Resolve issue regarding maintaining the control room at a pressure of 1/8 inch water gauge.

C. Add Section 3 to Attachment 1 to License NPF-13 to read:

3. Prior to exceeding 1 percent power, the licensee shall complete to the satisfaction of the NRC the following open items and construction deficiencies: a) control room envelope leak tightness test.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Darrell G. Eisenhut, Director  
 Division of Licensing  
 Office of Nuclear Reactor Regulation

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SURNAME	DHouston:cc	EHouston	ASchwencer	Novak	R. Rawson	D. Eisenhut	
DATE	8/16/82	8/16/82	8/16/82	8/16/82	8/16/82	8/17/82	

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-416

MISSISSIPPI POWER AND LIGHT COMPANY

MIDDLE SOUTH ENERGY, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

NOTICE OF ISSUANCE OF AMENDMENT OF FACILITY

OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 2 to Facility Operating License No. NPF-13, issued to Mississippi Power and Light Company, Middle South Energy, Inc., and South Mississippi Electric Power Association (the licensees), for Grand Gulf Nuclear Station, Unit No. 1 (the facility) located in Claiborne County, Mississippi. This amendment grants additional one time Technical Specification exceptions for Phase I operation, changes the stated pressure level for the control room leak testing program and approves the delay in the completion of the Control Room HVAC System preoperational test. The amendment is effective as of the date of issuance.

The applications for the amendments comply 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.

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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 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 applications for the amendments dated July 2, August 5 and August 10, 1982; (2) Amendment No. 2 to License NPF-13 dated August 17, 1982; and (3) the Commission's evaluation dated August 16, 1982. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. 20555, and at the Hinds Jr. College, George M. McLendon Library, Raymond, Mississippi 39154. A copy of items (1), (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 17th day of August 1982.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing

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