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

March 18, 1986

Docket No. 50-416

Mr. Oliver D. Kingsley, Jr.
Vice President, Nuclear Operations
Mississippi Power & Light Company
P.O. Box 23054
Jackson, Mississippi 39205

Dear Mr. Kingsley:

SUBJECT: ISSUANCE OF AMENDMENT NO. 9 TO FACILITY OPERATING LICENSE NPF-29 GRAND GULF NUCLEAR STATION, UNIT NO. 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 9 to Facility Operating License NPF-29 for the Grand Gulf Nuclear Station, Unit No. 1, located in Claiborne County, Mississippi. This amendment is in response to your letters dated September 13, October 24 and 30, and December 11, 1985.

The amendment modifies the Technical Specification which requires that the Chemistry/Radiation Control Superintendent meet the qualifications of Regulatory Guide 1.8, "Personnel Selection and Training" and the Technical Specification related to Remote Shutdown System Controls. The amendment is effective as of its date of issuance.

A copy of the related safety evaluation supporting Amendment No. 9 to Facility Operating License NPF-29 is enclosed.

Notice of issuance will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

Walter R. Butler

Walter R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing

Enclosures:
1. Amendment No. 9
2. Safety Evaluation

cc w/enclosures:
See next page

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PD#4	PD#4/PM	PD#4/D
Duncan ml	LKintner	WButler
3/5 /86	3/4 /86	3/6 /86

Mr. Oliver D. Kingsley, Jr.
Mississippi Power & Light Company

Grand Gulf Nuclear Staiton

cc:
Robert B. McGehee, Esquire
Wise, Carter, Child, Steen and Caraway
P.O. Box 651
Jackson, Mississippi 39205

Nicholas S. Reynolds, Esquire
Bishop, Liberman, Cook, Purcell
and Reynolds
1200 17th Street, N.W.
Washington, D. C. 20036

Mr. Ralph T. Lally
Manager of Quality Assurance
Middle South Services, Inc.
P.O. Box 61000
New Orleans, Louisiana 70161

Mr. Larry F. Dale, Director
Nuclear Licensing and Safety
Mississippi Power & Light Company
P.O. Box 23054
Jackson, Mississippi 39205

Mr. R. W. Jackson, Project Engineer
Bechtel Power Corporation
15740 Shady Grove Road
Gaithersburg, Maryland 20877-1454

Mr. Ross C. Butcher
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Route 2, Box 399
Port Gibson, Mississippi 39150

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

Mr. J. E. Cross
Grand Gulf Nuclear Station Site Director
Mississippi Power & Light Company
P.O. Box 756
Port Gibson, Mississippi 39150

Mr. C. R. Hutchinson
GGNS General Manager
Mississippi Power & Light Company
Post Office Box 756
Port Gibson, Mississippi 39150

The Honorable William J. Guste, Jr.
Attorney General
Department of Justice
State of Louisiana
Baton Rouge, Louisiana 70804

Office of the Governor
State of Mississippi
Jackson, Mississippi 39201

Attorney General
Gartin Building
Jackson, Mississippi 39205

Mr. Jack McMillan, Director
Division of Solid Waste Management
Mississippi Department of Natural
Resources
Bureau of Pollution Control
Post Office Box 10385
Jackson, Mississippi 39209

Alton B. Cobb, M.D.
State Health Officer
State Board of Health
P.O. Box 1700
Jackson, Mississippi 39205

President
Claiborne County Board of Supervisors
Port Gibson, Mississippi 39150

Mr. Ted H. Cloninger
Vice President, Nuclear Engineering
and Support
Mississippi Power & Light Company
Post Office Box 23054
Jackson, Mississippi 39205

March 18, 1986

Amendment No. 9 to Facility Operating License No. NPF-29-Grand Gulf, Unit 1

DISTRIBUTION

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WASHINGTON, D. C. 20555

MISSISSIPPI POWER & 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

Amendment No. 9
License No. NPF-29

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The applications for amendment to the Grand Gulf Nuclear Station, Unit 1 (the facility) Facility Operating License No. NPF-29 filed by the Mississippi Power & Light Company acting for itself, Middle South Energy, Inc., and South Mississippi Electric Power Association (the licensees), dated September 13, 1985, as revised October 24 and 30, and December 11, 1985, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as 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 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;

   E. The issuance of this license 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-29 is hereby amended to read as follows:

   (2) Technical Specifications

   The Technical Specifications contained in Appendix A, as revised through

Amendment No. 9 and the Environmental Protection Plan contained in Appendix B are hereby incorporated into this license. Mississippi Power & Light Company 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.

FOR THE NUCLEAR REGULATORY COMMISSION

Walter R. Butler

Walter R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing

Enclosure:
Technical Specifications Changes

Date of Issuance: March 18, 1986

Amendment No. 9 and the Environmental Protection Plan contained in Appendix B are hereby incorporated into this license. Mississippi Power & Light Company 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.

FOR THE NUCLEAR REGULATORY COMMISSION

Walter R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing

Enclosure:
Technical Specifications Changes

Date of Issuance: March 18, 1986

PD/LA	PD#4/PM	OELD	PD#4/D
MDuncan	LKintner	GRAY	WButler
02/5/86	03/6/86	03/07/86	03/6/86

ATTACHMENT TO LICENSE AMENDMENT NO. 9

FACILITY OPERATING LICENSE NO. NPF-29

DOCKET NO. 50-416

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the areas of change.

Amended Page
6-6
3/4 3-71

INDEPENDENT SAFETY ENGINEERING GROUP (ISEG) (Continued)

RESPONSIBILITIES

6.2.3.3 The ISEG shall be responsible for maintaining surveillance of unit activities to provide independent verification* that these activities are performed correctly and that human errors are reduced as much as practical.

AUTHORITY

6.2.3.4 The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities or other means of improving unit safety to the Senior Vice President, Nuclear.

6.2.4 SHIFT TECHNICAL ADVISOR

6.2.4.1 The Shift Technical Advisor shall provide technical support to the Shift Superintendent in the areas of thermal hydraulics, reactor engineering and plant analysis with regard to safe operation of the unit.

6.3 UNIT STAFF QUALIFICATIONS

6.3.1 Each member of the unit staff shall meet or exceed the minimum qualifications of ANSI N18.1-1971 for comparable positions and the supplemental requirements specified in Section A and C or Enclosure 1 of the March 28, 1980 NRC letter# to all licensees, except for the Chemistry/Radiation Control Superintendent who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975##; the Shift Technical Advisor who shall meet or exceed the qualifications referred to in Section 2.2.1.b of Enclosure I of the October 30, 1979 NRC letter to all operating nuclear power plants; and those members of the Independent Safety Engineering Group used for meeting the minimum complement specified in Section 6.2.3.2, each of whom shall have a Bachelor of Science degree or be registered as a Professional Engineer and shall have at least two years experience in their field, at least one year of which experience shall be in the nuclear field.

6.4 TRAINING

6.4.1 A retraining and replacement training program for the unit staff shall be maintained under the direction of the Training Superintendent, shall meet or exceed the requirements and recommendations of Section 5.5 of ANSI N18.1-1971 and Appendix "A" of 10 CFR Part 55 and the supplemental requirements specified in Sections A and C of Enclosure 1 of the March 28, 1980 NRC letter# to all licensees, and shall include familiarization with relevant industry operational experience.

6.5 Review AND AUDIT

6.5.1 PLANT SAFETY REVIEW COMMITTEE (PSRC)

FUNCTION

6.5.1.1 The PSRC shall function to advise the GGNS General Manager on all matters related to nuclear safety.

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*Not responsible for sign-off function.

#Except that the experience and other training information provided in the licensee's letter to the NRC dated July 29, 1985 are acceptable for the individuals listed in that letter.

##Except that the individual identified in MP&L's letter to the NRC dated December 11, 1985 is considered qualified to hold the position of Chemistry/Radiation Control Superintendent based on the experience, education, and other information provided or referenced in that letter.

TABLE 3.3.7.4-1 (Continued)

REMOTE SHUTDOWN SYSTEM CONTROLS

	CONTROL	MINIMUM CHANNELS OPERABLE Div 1	Div 2
12.	RHR Injection Valves	2[b]	2[b]
13.	RHR Test Line Valve	1	1
14.	RHR HX Cond. to RCIC Valve	1	1
15.	RHR HX Flow to Suppression Pool Valve	1	1
16.	RHR Discharge to Radwaste Valve	1	1
17.	RCIC Steam to RHR HX Valve	2[b]	2[b]
18.	Diesel Generator HX Inlet Valve	1	1
19.	Safety/Relief Valves	6[b]	6[b]
20.	[DELETED]		
21.	RCIC Turbine Flow Controller	1	NA
22.	RCIC Suction Flow Suppression Pool Valve	1	NA
23.	RCIC Injection Shutoff Valve	1	NA
24.	RCIC Suction From CST	1	NA
25.	RCIC Recirc. Main Flow Bypass Valve	1	NA
26.	RCIC Test to CST IB Valve	1	NA
27.	RCIC Test RTN to CST OB Valve	1	NA
28.	Steam to RCIC Turbine Valve	1	NA
29.	RCIC Turbine Trip & Throttle Valve	1	NA
30.	RCIC Turbine Cooling Water Valve	1	NA
31.	RCIC Turbine Local Control Select Switch	1	NA
32.	RCIC Gland Seal Compressor	1	NA
33.	Shutdown Cooling Isolation Valve Reset Switch	1	1

NOTE: a. 1 per cooling tower fan
b. 1 per valve

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 9 TO FACILITY OPERATING LICENSE NPF-29

GRAND GULF NUCLEAR STATION, UNIT 1

MISSISSIPPI POWER & LIGHT COMPANY

MIDDLE SOUTH ENERGY, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

INTRODUCTION

By letter dated September 13, 1985, Mississippi Power & Light Company (the licensee) proposed to change the facility Technical Specifications to provide for a one-time exception to Technical Specification 6.3.1 which requires that the Chemistry/Radiation Control Superintendent meet qualifications of Regulatory Guide 1.8, "Personnel Selection and Training." Supplemental information and a revised proposal were submitted by letters dated October 24 and December 11, 1985. The proposed amendment to TS 6.3.1 provides for the appointment of a Technical Assistant to the Chemistry/Radiation Control Superintendent who meets the guidelines of Regulatory Guide 1.8. The proposed amendment also provides for a specific NRC approved training program for the Chemistry/Radiation Control Superintendent, so that he will be qualified in accordance with the guidelines of Regulatory Guide 1.8.

By a separate letter dated September 13, 1985, the licensee proposed to change the facility Technical Specifications Table 3.3.7.4-1 "Remote Shutdown System Controls" by deleting the control for a valve which isolates the residual heat removal system from the reactor head spray line. By letter dated October 30, 1985, the licensee committed to remove the existing handswitch control for this valve from the remote shutdown panel.

EVALUATION

One-time Exception to Regulatory Guide 1.8

The staff has evaluated the licensee's request for a one-time exception to the Technical Specification 6.3.1 requirement that the Chemistry/Radiation Control Superintendent meet the guidelines of Regulatory Guide 1.8 using the criteria stated in NUREG-0800, Standard Review Plan (SRP) Section 12. The purpose of including a minimum qualification requirement for the Chemistry/Radiation Control Superintendent within the Grand Gulf Technical Specifications is to ensure that the station has a radiation protection manager (RPM) with the following qualifications:

(1) an experienced professional in applied radiation protection at nuclear facilities dealing with radiation protection problems and programs similar to those at nuclear power stations; and

(2) an experienced manager, capable of supervision and directing the work of professionals, technicians and journeymen associated with the station's radiation protection program.

The licensee has demonstrated in its letters dated September 13, October 24, and December 11, 1985, that the individual selected to hold the Chemistry/Radiation Control Superintendent position at Grand Gulf is an experienced manager with several years of experience in the U.S. Nuclear Navy nuclear program. However, it is the staff's position that the individual lacks experience in radiation protection problems similar to those associated with the operation of a nuclear power station. The licensee has included in its December 11, 1985, submittal the training program to qualify the Chemistry/Radiation Control Superintendent with respect to the Regulatory Guide 1.8 guidelines. The staff has reviewed the licensee's proposed training program and finds it acceptable.

The staff concludes that the proposed one time exception to the qualification guidelines in Regulatory Guide 1.8 for the Chemistry/Radiation Control Superintendent is acceptable because a Technical Assistant meeting guidelines of Regulatory Guide 1.8 will assist the Superintendent in radiation protection matters until he completes an adequate training program.

Deletion of the Control for the RHR to Head Spray Valve from the Remote Shutdown Panel

Technical Specifications (TS) Table 3.3.7.4-1 identifies controls for valves that are required to be operable from the remote shutdown panel (RSP). In the original Grand Gulf, Unit 1 design, the RHR to head spray isolation valves were used for RCIC coolant injection into the vessel head through the RHR head spray line. Design evolution later resulted in the injection path being changed to injection through the feedwater line. Licensee has stated that operability of valve E12-F023 is no longer required to effect safe shutdown of the reactor or mitigate the consequence of any event analyzed in the Grand Gulf, Unit 1, FSAR. Since the valve is no longer required to operate for any safe shutdown or analyzed accident condition, operability from the RSP is not required. The licensee has provided a commitment in its October 30, 1985, letter to delete the handswitch for E12-F023 from the RSP upon the NRC's issuance of the license amendment related to the deletion request associated with T.S. Table 3.3.7.4-1. Based on the above information, the staff concludes that deletion of the control from the TS table and RSP switch removal are acceptable. Physical removal of the handswitch alleviates the staff's concern related to possible inadvertent operation of the valve from the RSP which could lead to overpressurization of the low pressure system.

It should be noted that the licensee has committed to maintain the operability of valve E12-F023 for the containment and reactor coolant boundary isolation functions in accordance with the requirements of T.S. 4.6.4 and 4.4.3.2.2. Further, the staff has verified that references to valve E12-F023 will remain unchanged in T.S. Table 3.4.3.2-1 "Reactor Coolant System Pressure Isolation Valves" and TS Table 3.6.4-1 "Containment and Drywell Isolation Valves."

ENVIRONMENTAL CONSIDERATIONS

The amendment involves changes in administrative procedures or requirements in the license (a one-time exception to Regulatory Guide 1.8) and a change of requirements of facility components located within the restricted area as defined in 10 CFR 20 (deletion of a control from the remote shutdown panel). The Commission made a proposed determination that the amendment involves no significant hazards consideration, and there have been no comments on that proposal. Based on its evaluation, the staff concludes that there is no significant change in types or significant increase in the amounts of any effluents that may be released offsite. There is no significant increase in individual or cumulative occupational radiation exposure because the changes do not affect personnel exposure. Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sections 51.22(c)(9) and 51.22(c)(10).

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.

CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register on December 30, 1985, (50 FR 53232) and consulted with the state of Mississippi. No public comments were received, and the state of Mississippi did not have any comments.

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

Principal Contributors: M. Lamastra, Plant Systems Branch, DBL
R. Stevens, Electrical Instrumentation and Control Systems Branch, DBL
L. Kintner, BWR Project Directorate No. 4, DBL

Dated: March 18, 1986