



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303

Report No. 50-416/81-52

Licensee: Mississippi Power and Light Company  
Jackson, Mississippi

Facility Name: Grand Gulf

Docket No. 50-416

License No. CPPR-118

Inspector: Ross Butcher  
for A. G. Wagner

11/23/81  
Date Signed

Approved by: F. S. Cantrell  
F. S. Cantrell, Section Chief, Division of  
Resident and Reactor Project Inspection

11/23/81  
Date Signed

SUMMARY

Inspection on October 16 - November 12, 1981

Areas Inspected

This routine inspection involved 73 resident inspector-hours on site in the areas of emergency procedure review, startup proposal review, ACRS meeting and plant tours.

Results

Of the 4 areas inspected, no violations or deviations were identified.

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## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*J. C. Roberts, Startup Supervisor
- \*D. L. Hunt, Plant Quality Supervisor
- \*C. L. Stuart, Assistant Plant Manager
- \*C. R. Hutchinson, Startup Manager
- \*B. Stewart, Construction Manager
- \*M. A. Lacy, Quality Assurance
- \*J. W. Yelverton, Quality Assurance Supervisor
- \*T. H. Cloninger, Project Engineering Manager

#### Other Organizations

- U. S. NRC
- A. H. Johnson
- K. E. Davenport
- H. L. Whitener

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on October 12, 1981, with those persons indicated in paragraph 1 above. The licensee had no comments regarding the inspection findings.

### 3. Licensee Action on Previous Inspection Findings

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. ACRS meeting

The inspector participated in an Advisory Committee on Reactor Safeguards meeting held in Washington, D. C. The meeting was held to discuss the application for an operating license for Grand Gulf Nuclear Station.

### 6. Six Phase Startup Plan Review

The inspector conducted an indepth review of the proposed six phase startup program for Grand Gulf Unit 1 submitted by Mississippi Power and Light Company. The inspector and regional representatives attended a meeting held by the Office of Nuclear Reactor Regulation to discuss this startup plan

with representatives of Mississippi Power and Light Company. The NRC was informed at the meeting that the proposed plan is formally withdrawn.

7. Plant tour

The inspectors toured various areas of the control building, auxiliary building and refueling floor. Various aspects of housekeeping, work in progress, and new fuel inspections were observed.

No violations or deviations were identified during these tours.

8. Emergency/Abnormal Procedure Review

The inspector reviewed the licensee's emergency/abnormal procedures to ascertain whether they are prepared to adequately control safety-related functions in the event of system or component malfunction indications. The inspector reviewed the procedures to:

- a. Verify that administrative controls have been established for the review, approval and periodic updating of these procedures.
- b. Verify that the scope of the procedures were adequate to address all functional areas within regulatory requirements found in Regulatory Guide 1.33, Revision 2, February 1978, Appendix A, items 5 and 6.
- c. Verify that the procedure content was adequate for the following procedure categories:
  - (1) Procedures for correcting abnormal, off normal or alarm conditions,
  - (2) Procedures for combating emergencies and other significant events, ie, those procedures which specify operator actions involving manipulation of plant controls to prevent an accident or to reduce the consequences of an accident or a hazardous condition which has already occurred or developed.
- d. Verify that the procedures as described in item c above are in proper format as in ANSI N18.7 - 1976 except that the emergency procedures follow the developed guidance of the T.M.I. Task Action Plan items 1.C.1 and 1.C.8.

The inspector's findings with respect to each of these items are as follows:

a. Administrative Controls

The inspector found that proposed Technical Specifications 6.8.1, 6.8.2 and 6.8.3 contain the requirements for establishing, implementing and maintaining appropriate procedures for Grand Gulf Nuclear Station.

The inspector found that the following administrative procedures have been proposed, reviewed and implemented in accordance with current regulatory requirements:

<u>Procedure No.</u>	<u>Revision</u>	<u>Date</u>	<u>Title</u>
01-S-01-1	5	9/25/81	Grand Gulf Nuclear Station Operations Organization
01-S-01-4	1	5/13/80	Operations Section
01-S-01-11	4	6/26/81	Plant Safety Review Committee
01-S-02-2	3	12/19/80	Control and Use of the GGNS
02-S-01-2	1	6/2/81	Control and Use of Operations Section Directives

b. Procedure Scope

The inspector review verified that the plant emergency procedures do not correspond to the scope described in Regulatory Guide 1.33, Revision 2, 1978 paragraph A.6. But rather they were written, reviewed and approved per "NRC Action Plan Developed as a result of the TMI-2 Accident, NUREG-0660" requirements defined in Task 1.C.1 and 1.C.8. This review was participated in by representatives of the NRC offices of NRR, Division of Human Factors, Procedures and Test Review Branch and the Office of Inspection and Enforcement Senior Resident Inspector. The procedures were developed using the guidelines developed by the BWR-6 owners group. These are based on a symptomatic approach to combatting casualties. The procedures reviewed were:

<u>Procedure No.</u>	<u>Revision</u>	<u>Date</u>	<u>Title</u>
05-S-01-EP-1	0	9/10/81	Level control
05-S-01-EP-2	0	9/17/81	Cooldown
05-S-01-EP-3	0	9/17/81	Containment Control
05-S-01-EP-4	0	9/17/81	Level Restoration
05-S-01-EP-5	0	9/17/81	Rapid RPV Depressurization
05-S-01-EP-6	0	9/17/81	Core Cooling Without Injection
05-S-01-EP-7	0	9/17/81	Core Cooling Without Level Restoration
05-S-01-EP-8	0	9/17/81	Alternate Shutdown Cooling
05-S-01-EP-9	0	9/17/81	RPV Flooding
05-S-01-EP-10	0	9/19/81	Reactivity Control

The inspector has concluded from his review that the procedures have sufficient scope and have had the appropriate administrative controls to meet the regulatory requirements.

The inspector found that procedures described as Procedures for Abnormal, Offnormal, or Alarm conditions in Section 5 of Appendix A of Regulatory Guide 1.33, 1978 are defined as "Off Normal Event Procedure" (ONEP) and "Alarm Response Instruction" (ARI). The inspector has concluded from his review that the procedures have sufficient scope to meet the regulatory requirements.

c. Procedure Content and Format

The inspector has reviewed the content of each procedure classification. The content and format of the procedures meet the current regulatory requirements. The emergency procedures are not written in the format described in ANSI N18.7-1976 paragraph 5.3.9.1. The Emergency Procedures are formatted in accordance with the recommendations of the BWR-6 owners group guidelines and as reviewed by the NRC staff participating in the Emergency Procedure review. The procedures sections are Purpose; Entry Conditions, and Operator Actions. These sections contain the required information for combatting emergencies.

During this review there were no violations or deviations identified.