



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30303

Report No.: 50-416/83-58

Licensee: Mississippi Power and Light Company  
Jackson, MS 39205

Docket No.: 50-416

License No.: NPF-13

Facility Name: Grand Gulf

Inspection at Grand Gulf site near Port Gibson, Mississippi

Inspectors: *R.E. Carroll* 2/6/84 2/6/84  
for A. G. Wagner Date Signed

*R.E. Carroll* 2/6/84  
for J. L. Caldwell Date Signed

Approved by: *C. A. Julian* 2/6/84  
C. A. Julian, Section Chief Date Signed  
Division of Project and Resident Programs

SUMMARY

Inspection on December 16 - January 13, 1984

Areas Inspected

This routine, announced inspection involved 71 inspector-hours on site in the areas of Operational Safety Verification, Maintenance Observation, Surveillance Observation, ESF System Walkdown, Reportable Occurrences, and Plant Safety Review Committee Activities.

Results

Of the six areas inspected, no violations or deviations were identified in four areas; one apparent violation was found in one area (failure to implement the technical specifications relative to Plant Safety Review activities, paragraph 10); one deviation was found in one area (failure to provide diesel training, paragraph 6).

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- J. E. Cross, Plant Manager
- \*C. R. Hutchinson, Assistant Plant Manager
- \*J. D. Bailey, Compliance Coordinator
- \*F. H. Walsh, Maintenance Superintendent
- \*L. F. Daughtery, Compliance Superintendent
- \*C. Hayes, Plant Quality Superintendent

Other licensee employees contacted included technicians, operators, mechanics, and security force members.

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on January 16, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

### 3. Licensee Action on Previous Enforcement Matters

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Operational Safety Verification

The inspectors kept themselves informed on a daily basis of the overall plant status and any significant safety matters related to plant operations. Daily discussions were held with plant management and various members of the plant operating staff.

The inspectors made frequent visits to the control room such that it was visited at least daily when an inspector was on site. Observations included instrument readings, setpoints and recordings; status of operating systems; tags and clearances on equipment controls and switches; annunciator alarms; adherence to procedures; adherence to limiting conditions for operation; temporary alterations in effect; daily journals and data sheet entries; control room manning; and access controls. This inspection activity included numerous informal discussions with operators and their supervisors.

Weekly, when onsite, a selected ESF system is confirmed operable. The confirmation is made by verifying the following: accessible valve flow path alignment; power supply breaker and fuse status; major component leakage, lubrication, cooling and general condition; and instrumentation.

General plant tours were conducted on at least a biweekly basis. Portions of the control building, turbine building, auxillary building and outside areas were visisted. Observations included safety related tagout verifications; shift turnover; sampling program; housekeeping and general plant conditions; fire protection equipment; control of activities in progress; radiation protection controls; physical security; problem identification systems; and containment isolation.

No violations or deviations were identified in the areas inspected.

#### 6. Maintenance Observation

During the report period, the inspectors observed the below listed maintenance activities for procedure adequacy, adherence to procedure, proper tagouts, adherence to Technical Specifications, radiological controls, and adherence to Quality Control hold points.

MWO E3C277 Synchronization Switch for 152-1704.

MWO M3B812 Division II Diesel Generator

During the review of this item, the inspector reviewed the qualifications of the mechanical maintenance personnel working on the Division II diesel during the current outage. The review was conducted to verify that the maintenance personnel working on the diesel had received vendor diesel engine training or equivalent. This training is required by Grand Gulf Final Safety Analysis Report (FSAR), paragraph 13.2.1.2.13. The diesel work crews were divided into five separate crews. Each crew had one supervisor and three or four mechanics. Three of the crews had a diesel trained supervisor and one trained mechanic. One crew had a diesel trained supervisor and no trained mechanics. The remaining crew had no diesel trained personnel. The FSAR states that "All maintenance personnel responsible for the maintenance of the emergency diesel generators shall have successfully completed the manufacturer's school or equivalent on that component." The failure to provide the training as required by FSAR, paragraph 13.2.1.2.13 will be identified as deviation 416/83-58-01, Failure to Provide Diesel Training.

#### 7. Surveillance Testing Observation

The inspectors observed portions of the performance of the below listed surveillance procedures. The inspection consisted of a review of the procedure for technical adequacy, conformance to technical specifications, verification of test instrument calibration, observation on the conduct of the test, removal from service and return to service of the system and a review of test data.

06-EC-1B21-M-0001, Revision 21, ADS Timers Functional Test and Calibration.

06-IC-1C51-R-0004, Revision 20, RPS Response Time Test APRM 'D' Neutron Hi. Simulated Thermal Power High and 6 Second Thermal Time Constant.

06-IC-1C51-R-0004, Revision 20, RPS Response Time Test APRM 'A' Neutron Hi. Simulated Thermal Power High and 6 Second Thermal Time Constant.

No violations or deviations were identified in the areas inspected.

#### 8. ESF System Walkdown

A complete walkdown was conducted and the accessible portions of the High Pressure Core Spray (HPCS) system. The walkdown consisted of an inspection and verification, where possible, of the required system valve alignment, including valve power available and valve locking, where required; instrumentation valved in and functioning; electrical and instrumentation cabinets free from debris, loose materials, jumpers, and evidence of rodents; and system free from other degrading conditions.

It was noted previously in NRC Inspection Report 83-30 that the D. C. Breakers on the HPCS control panel were not labeled. During this walkdown, it was noted that labels had been installed. However, the label descriptions do not match the descriptions on the system operating instruction for electrical breaker alignment.

It is the inspector's understanding from senior licensee management that the breaker descriptions will be verified and appropriate corrective action taken. The previously identified inspector follow-up item, 83-30-02 will remain open. The inspector will review the corrective action during a subsequent inspection.

#### 9. Reportable Occurrences

The below listed Licensee Event Reports (LERs) were reviewed to determine if the information provided met NRC reporting requirements. The determination included adequacy of event description and corrective action taken or planned, existence of potential generic problems and the relative safety significance of each event. Additional inplant reviews and discussion with plant personnel as appropriate were conducted for the reports indicated by an asterisk. The following LERs are closed.

<u>LER No.</u>	<u>Date</u>	<u>Event</u>
83-079	06-25-83	Rosemount Trip Unit Failure
83-128	09-12-83	Control Building Open Penetrations
83-142	09-03-83	RHR Low Pressure Trip Setpoint Drift
83-144	09-11-83	SSW Radiation Mon. Inoperative
83-173	10-31-83	RWCU Differential Flow Instrument Failure
83-175	10-28-83	Division II Diesel Vibration Trip

*83-176	10-31-83	Failure to Monitor Reactor Coolant Conductivity
83-102	07-24-83	Division I Voltage Regulator Failure
83-130	08-29-83	Shutdown Cooling Isolations
83-157	10-04-83	Rosemount Trip Unit Out of Specification
83-166	10-21-83	ITE Solid State Trip Device Failure
*83-183	11-23-83	Control Room Standby Fresh Air Inoperative

The following is not closed for the associated reasons:

*83-178	11-08-83	Diesel Generator Air Start Valve Failure
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This LER is being held open pending completion of the inspection of the air start system and a resubmittal of the LER describing the results and a description of the corrective actions.

No violations or deviations were identified in the areas inspected.

#### 10. Plant Safety Review Committee Activities

The inspector conducted a review of the plant safety review committee activities. This included administrative procedure (AP) 01-S-01-11, Revision 7, Plant Safety Review Committee. The inspector compared the procedure to the requirements of the facility Technical Specifications (TS) and final safety analysis report. The following comments were noted.

- a. TS paragraph 6.5.1.6.c not fully implemented in AP paragraph 6.6.3.
- b. AP paragraphs 6.6.3 and 6.6.4 are ambiguous as to what shall be referred to the SRC.
- c. AP paragraph 6.6.4 does not properly implement TS paragraph 6.5.1.6.e.
- d. TS paragraph 6.5.1.6.f "... reports of abnormal degradation of systems..." not implemented by procedure.
- e. TS paragraph 6.5.1.6.i is not fully implemented.
- f. TS paragraph 6.5.1.6.l is not fully implemented.
- g. TS paragraph 6.5.1.6.n is not fully implemented.
- h. TS paragraph 6.5.1.7.a is not fully implemented.
- i. TS paragraph 6.5.1.7.b is not fully implemented.
- j. TS paragraph 6.5.1.7.c is not fully implemented.

The failure to implement Technical Specification paragraphs 6.5.1.6 and 6.5.1.7 by reviewed and approved plant procedures will be identified as violation 83-58-02, Failure to Implement Technical Specifications for PSRC Activities.