



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

Report Nos. 50-416/82-01 and 50-417/82-01

Licensee: Mississippi Power and Light Company  
Jackson, MS 39205

Facility Name: Grand Gulf 1 and 2

Docket Nos. 50-416 and 50-417

License Nos. CPPR-118 and CPPR-119

Inspection at Grand Gulf site near Port Gibson, MS

Inspector:

*J. J. Blake*  
J. J. Blake

*1/20/82*

Date Signed

Approved by:

*A. R. Herdt*  
A. R. Herdt, Section Chief  
Engineering Inspection Branch  
Engineering and Technical Inspection Division

*1/22/82*

Date Signed

SUMMARY

Inspection on January 4-7, 1982

Areas Inspected

This routine unannounced inspection involved 24 inspector-hours onsite in the areas of Licensee Action on Previous Inspection Findings; Licensee Identified Items; Structural Integrity Test Results; Review of As-Builts.

Results

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

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*G. B. Rogers, Jr., Site Manager
- J. W. Yelverton, QA Supervisor
- \*S. F. Tanner, QA Coordinator
- D. D. Little, QA Representative
- J. Kelley, QA Representative
- S. Pruitt, ISI Coordinator

#### Other Organizations

- R. Scharman, Bechtel, Supervisor, Civil Engineering, Small Pipe Hanger
- C. O'Neil, Bechtel, Resident Engineer, Light Structures

#### NRC Resident Inspector

- A. Wagner, Senior Resident Inspector

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on January 7, 1982, with those persons indicated in paragraph 1 above. The action taken on previous inspection findings and licensee identified items which were reviewed and closed this inspection were discussed with the licensee.

### 3. Licensee Action on Previous Inspection Findings

- a. (Open) Violation (50-416/81-20-02) Inadequate Inspection Activities. The licensee is still in the process of providing assurance that final inspections of items with locking tabs will be conducted prior to operation of the equipment involved. There is also the question of whether the tab must always be bent along one flat of a nut or whether it can be bent over a corner to contact two flats. This item will be reviewed again on another inspection.
- b. (Closed) Unresolved Item (50-416/81-11-03) Visual Examination of Pressure Retaining Bolting For Preservice Examination is Questionable. The licensee has identified which pumps, valves, and flanges contain pressure retaining bolting subject to the preservice and inservice examinations of ASME Section XI. A review of vendor and fabricator records has provided certification that the bolting materials involved have been nondestructively examined at some point in the history of the part involved.

- c. (Closed) Unresolved Item (50-416/81-40-01; 50-417/81-17-01) UT Weld Volume Coverage When Performing Full Vee-Path Examinations. The PSI/ISI contractor has changed the calibration procedure to clarify the requirements for 12/8 THS V-Path calibration. The procedure change has been approved by the licensee's ISI coordinator.
- d. (Closed) Unresolved Item (50-416/81-40-02; 50-417/81-17-02) Qualification of Ultrasonic Indications as Geometric Reflectors. The licensee and PSI/ISI contractor have reviewed the fabrication records (including radiographs) for all welds which were suspected of having geometric indications. The procedure for evaluation of UT indications has been clarified to require this type of review.

#### 4. Unresolved Items

Unresolved items were not identified during this inspection.

#### 5. Independent Inspection

- a. The inspector conducted a walk-through inspection of the Units 1 and 2 auxiliary buildings to observe housekeeping and protection of installed safety related equipment. Unit 1 appeared to be moving steadily toward operational status with construction equipment and debris being removed and areas being cleaned and painted in preparation for turnover. The Unit 2 areas show the normal weathering that is to be expected for a project which has been delayed as long as it has. Most areas will require special clean-up and evaluation prior to renewing the construction of this unit.

There were no violations or deviations in this area of the inspection.

#### b. Structural Integrity Test (Unit 1)

The inspector attended a meeting between the licensee and representatives of the structural integrity test (SIT) contractor. This meeting was to present the preliminary results of the SIT and the integrated leak rate test.

The results were presented in an informal basis in that the contractor asked for a post-test calibration check of the extensometers used during the test. The final report will be prepared after this calibration check and the final review of all data.

There were no violations or deviations in this area of the inspection.

#### 6. Licensee Identified Items

The inspector reviewed the licensee's final report and supporting documentation for the following licensee identified items.

- a. (Closed) (50-416/80-12-06) Pipe Hangers Not Installed in Accordance With Specifications (PRD-80/09). The final report for this item was forwarded by Mississippi Power and Light Company (MP&L) letter No. AECM-81/374 dated September 30, 1981. The inspector reviewed the final report and supporting documentation. There are no further questions at this time.
- b. (Open) (50-416/80-23-11) Installation of HVAC Hangers (PRD-80/54). The licensee forwarded the final report for this item via letter No. AECM-81/185 dated May 28, 1981. A review of the supporting documentation showed that three nonconformance reports (NCR 5156, 5157 and 5158) (representing a large number of hangers to be reinspected and repaired if necessary) are still open. The inspector was informed that the work on the outstanding NCR's was expected to be finished by the end of January.
- c. (Closed) (50-416/80-20-06; 50-417/80-13-06) Procedural Violation in Cutting of Reinforcing Bar (PRD-80/30). The final report on this item was forwarded by MP&L No. AECM-81/480 dated December 8, 1981. The inspector reviewed this report and supporting documentation and had no further questions at this time.
- d. (Closed) (50-416/82-01-01) Mounting Tab and Fusible Link Fire Damper Deficiency (PRD-81/05). The inspector reviewed MP&L letter No. AECM-81/420 dated October 27, 1981. This report along with the supporting documentation provided evidence that the problem had been fully identified and corrected. There are no further questions at this time.
- e. (Closed) (50-416/82-01-02) Non-Qualified HVAC Systems (PRD-81/22). The inspector reviewed the licensee's final report which was forwarded by MP&L letter No. AECM-81/265 dated August 14, 1981, which identified the problem and the corrective action to be taken. At the time of this inspection the supporting documentation showed that the design changes have been completed and the specification and plan changes issued. There are no further questions at this time.
- f. (Closed) (50-416/82-01-03; 50-417/82-01-03) Seitz Solenoid Valves for Dikkers Safety Relief Valves (PRD-81/33). The inspector reviewed the licensee's final report forwarded by MP&L letter No. AECM-81/496 dated December 15, 1981. This report fully identified the solenoid valve problem as a factory assembly problem which is readily detectable and fully correctable by proper assembly precautions. There are no further questions at this time.
- g. (Closed) (50-416/82-01-04) Acid Damage to SSW Basin "B" Pump (PRD-81/15). The licensee forwarded the final report on this time by letter No. AECM-81/519 dated December 31, 1981. The inspector reviewed

the final report and the supporting documentation for the determination of the cause, and the extent, of the problem. The documentation showed that the damage has been repaired and actions taken to preclude recurrence.

#### 7. Inspector Followup Items

The inspector reviewed the following inspector concerns which had been identified in previous inspection reports:

- a. (Closed) (50-416/81-14-01) HPCS Vessel Inspection Test Connection Failure. The licensee determined that this item was not reportable per 10 CFR 50.55(e) as explained in the MP&L letter N<sup>o</sup> 31/430 dated October 29, 1981. But, to remain conservative the Becnel Specification 9645-M-275.0, Preoperation Piping Vibration, Thermal Monitoring and Dynamic Effects Testing of Piping Systems, was revised to include vibration testing requirements for all ECCS test connections.
- b. (Closed) (50-416/81-27-01; 50-417/81-11-01) MSRV Quencher Weld Size. All of the welds in question on both Units 1 and 2 MSRV quenchers have been measured and analyzed. Project Engineering has concluded that all welds were acceptable as is.

There were no violations or deviations identified in this area of the inspection.

#### 8. Review of As-Builts

The inspector reviewed a portion of the licensee's program for providing as-built verification of piping and structures. In the area of structures, the following procedures were reviewed:

WP/P-5	Change Request/Notice
WP/P-10	Field Detail Design
WP/P-J-2	Field Design Change (Redline) Procedure
WP/P-P-5	Large Pipe Hanger and Small Pipe Hanger
WP/P-P-10	Field Design Change (Redline) Procedure for Pipe Hangers, Supports, Guides and Anchors

In the area of ASME code piping the following procedures were reviewed:

Quality Control Instruction 1302T - ASME Code Stamping Activities  
 Quality Control Instruction 1303T - ASME Code Stamp Review and Data Packaging

The following three piping runs were selected for comparison with the latest drawing revision.

- Dwg. FSK-S-1087-001-B Rev. 13 - LPCS Jockey Pump Bypass Flow
- Dwg. FSK-S-1091-015-B Rev. 7 - Sample Line From Drywell to Drywell Hydrogen Analyzer
- Dwg. FSK-S-1087-003-B Rev. 6 - LPCS Jockey Pump C002-A Discharge

There were no violations or deviations resulting from this area of the inspection.