



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

Report No. 50-416/81-03

Licensee: Mississippi Power and Light Company
Jackson, MS

Facility Name: Grand Gulf

Docket No. 50-416

License No. CPPR-118

Inspection at Grand Gulf site near Port Gibson, Mississippi

Inspectors:

A. G. Wagner
A. G. Wagner

2/20/81
Date Signed

L. W. Garner
L. W. Garner

2/20/81
Date Signed

Approved by:

P. J. Kellogg
P. J. Kellogg, Section Chief, RONS Branch

2/20/81
Date Signed

SUMMARY

Inspection on January 2-30, 1981

Areas Inspected

This routine, unannounced inspection involved 80.5 inspector-hours on site in the areas of preoperational test witnessing, review of startup manual revision, RHR "B" pump seizure, and plant tours.

Results

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

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DETAILS

1. Persons Contacted

Licensee Employees

- *G. B. Rogers, Site Manager
- *C. R. Hutchinson, Startup Manager
- *C. L. Stuart, Assistant Plant Manager
- *J. W. Yelverton, Quality Assurance Supervisor
- *D. L. Hunt, Plant Quality Supervisor
- E. L. Favia, Test Supervisor
- J. W. Roberts, Startup Supervisor
- G. D. Pierce, Test Supervisor

Other Organizations

- *D. C. Gibbs, Vice President, Middle South Engines Incorporated

*Attended Exit Interview

2. Exit Interview

The inspection scope and findings were summarized on January 30, 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. Preoperational Test Witnessing

The inspector witnessed the conduct of portions of preoperational test procedure 1R21PT01, ESF 4.16 KV Preoperational Test. The test was witnessed for conformance with Startup Manual Chapters 5000 and 7000.

No violations or deviations were identified.

6. Review of Startup Manual Revision

The inspector reviewed Revision 4 to the Mississippi Power and Light Company Startup Manual. The revision was reviewed for conformance with ANSI 18.7-1976 and FSAR Chapter 14. The following discrepancies were noted.

a. Open Item 416/81-03-01

The revision included a procedure for processing Temporary Test Operating Instructions (TTOI). This instruction appears to duplicate the system run-in instruction included in SUM 5000. The instruction does not define the responsibility for determining if a TTOI is needed and no guidelines are provided for making this determination as required by ANSI 18.7-1976 Paragraph 5.1.15.

b. Open Item 416/81-03-02

Paragraph 4.1.4.8B of SUM 5000 appears to imply that a Temporary Test Operating Instruction would be required for recovery action in the event of an abnormal occurrence. The SUM currently requires these types of events to be reviewed by the Startup Supervisor and evaluated by the Plant Safety Review Committee. This instruction could possibly circumvent these reviews and allow testing to continue without proper management approval as required by ANSI-18.7 - 1976 Paragraph 4.3.4 and 5.2.11.

c. Open Item 416/81-03-03

The instruction for Temporary Test Operating Instructions would allow an approval level that is not equivalent to that required for a pre-operational test procedure or a system operating instruction. The instruction does not limit the changes or modifications that could be made with a TTOI. Thus, a major change or revision could be implemented without management approval as required by ANSI 18.7 - 1976 Paragraph 3.1, 5.2.5 and 5.2.15.

d. Other minor clerical and editorial errors were discussed with senior licensee management. These errors were corrected by a subsequent advanced change notice. There are no further questions remaining at this time concerning these items.

The implementation of the Temporary Test Operating Instruction has been withdrawn by the Project Startup Manager. It is the inspector's understanding from discussions with senior licensee management that the above open items will be reviewed and appropriate corrective action taken prior to implementation of the Temporary Test Operating Instruction. The inspector will review these corrective actions during a subsequent inspection.

7. RHR B Pump Seizure

The inspector reviewed the documentation and interviewed Quality Assurance and startup personnel concerning the seizure of and damage to RHR pump "B". The seizure occurred during the period immediately prior to the Reaction Pressure Vessel hydrostatic test. The event occurred subsequent to an overpressurization of the RHR system due to equipment failure. During disassembly and inspection, welding slag and debris were found on the suction and discharge sides of the pump. The source of the foreign material

has not been determined. The licensee has reported the event to NRC Region II. This was documented by PRD 81-02.

Unresolved Item 416/81-03-04

The RHR system, reactor pressure vessel and associated fluid systems had previously undergone cleaning and flushing operations prior to this event. All three RHR pumps had cleanliness strainers installed in the suction lines of the pump. The PRD indicated that subsequent to the overpressurization event, pumps "A", "B" and "C" could not be turned by hand, indicating that similar problems may be developing in pumps "A" and "C". It does not, however, document or discuss the actions necessary to assure that RHR pumps "A" and "C" have been inspected to ensure they do not contain foreign material which will lead to subsequent failure during operation. This item will be held open pending investigation, review and correction by the licensee of potential internal cleanliness and damage problems which could affect operability of RHR pumps "A" and "C".

8. Inspector Follow-Up Items

Closed (Open Item 416/80-17-01)

The inspector reviewed a revision to the Startup Manual which added the requirement for Plant Quality to review completed safety related pre-operational test procedures. This item is closed.

Closed (Open Item 416/80-21-11)

The inspector reviewed the documentation of the review by the Bechtel Project Startup Engineer of the incident with all Bechtel test personnel. The appropriate documentation from the tag was cleared. This item is closed.

9. Plant Tours

The inspector toured portions of the Control Building and Auxiliary Building at various times during the inspection period.

No violations or deviations were identified.