



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

Report No. 50-416/82-10

Licensee: Mississippi Power and Light Company
Jackson, MS 39205

Facility Name: Grand Gulf

Docket No. 50-416

License No. CPPR-118

Inspection at Grand Gulf site near Port Gibson, MS

Inspector: E. H. Girard
E. H. Girard

3/17/82

Date Signed

Approved by: A. R. Herdt

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

3/17/82

Date Signed

SUMMARY

Inspection on February 8-12, 1982

Areas Inspected

This routine, unannounced inspection involved 31 inspector-hours on site in the areas of licensee action on previous inspection findings, safety-related structures (structural steel and supports) - observation of completed work and records review, safety-related components - observation of completed work and records review, and reactor vessel internals (welding) - observation of completed work and records review.

Results

No violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *G. B. Rogers, Site Manager
- *J. W. Yelverton, QA Field Supervisor
- *J. M. Kelly, QA Specialist

Other Organizations

D. Lindsey, Lead Piping Mechanical QC Engineer, Bechtel Power Corporation
T. Drake, Southwest Region QA Manager, General Electric, I and SE Division

NRC Resident Inspectors

A. Wagner
D. Scott

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on February 12, 1982, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed the inspection findings listed below. No dissenting comments were received from the licensee.

Unresolved Item 416/82-10-01: "Uncertainties in ASME Code Class for Valves" - paragraph 6.

3. Licensee Action on Previous Inspection Findings

Violation 416/81-10-02: "Inadequate Inspection Activities".

The licensee informed the inspector that this item was still under investigation and was not ready to be closed. The licensee also stated that it might be necessary to supplement or amend its previous response letter to Region II, dated August 24, 1981 for this item.

4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or may involve violations or deviations. A new unresolved item identified during this inspection is discussed in paragraph 6.

5. Safety-Related Structures (Structural Steel and Supports) - Observation of Completed Work and Records Review

The inspector selectively observed completed work and reviewed quality records for selected safety-related structures outside the containment to verify their compliance with regulatory requirements and FSAR commitments. The structures checked and the applicable requirement documents and records utilized by the inspector in his observations and reviews are as follows:

a. Structure: HPCS Fuel Oil Day Tank

Requirement Documents:

- (1) Code - ASME Section III (74S74), Subsection NC
- (2) Specification - M102.0R30
- (3) Installation drawing for HPCS Fuel Oil Day Tank

Records:

- (1) Receiving -
 - (a) Material Receiving Instruction and Inspection Record (MRI & IR)
 - (b) Material Receiving Report (MRR)
- (2) Installation -
 - (a) Work Plan and Installation Record (WP/IR)

b. Structure: Spent Fuel Cask Crane

Requirement Document:

- (1) Specification - M062.0R6

Records:

- (1) Receiving -
 - (a) MRI & IR
 - (b) MRR
 - (c) Supplier Deviation Request M062.0-001
 - (d) Condition Report 4058
- (2) Test - QIT31 - 10208402
- (3) Installation -
 - (a) WP/IR

c. Structure: Feedwater Leak Control System Pipe Supports (2)

Requirement Documents:

- (1) Drawing QIE38G110A01R2
- (2) Drawing QIE38G110C05R2

Records:

- (1) Hanger installation cards for above support structures

The above structures were observed, to the extent accessible, for proper workmanship, configuration, locking of bolting, weld quality and size, and identification. In addition, the records for the structures were reviewed to verify that they adequately document the accomplishment of required operations and inspections for assurance of the following:

- a. Receipt inspection
- b. Materials
- c. Installation
- d. Inspections
- e. Nonconformance/deviation reports
- f. Testing

Within the areas inspected, no violations or deviations were identified.

6. Safety-Related Components - Observation of Completed Work and Review of Quality Records

The inspector selectively observed completed work and reviewed quality records of six safety-related components to verify their compliance with regulatory requirements and FSAR commitments. The components checked, the applicable requirement documents, and the records used by the inspector in his observations and reviews are as follows:

- a. Component: Reactor Water Cleanup System Valve G33F001

Requirement Documents:

- (1) Specification - M242.OR11
- (2) Drawing - M1342A

Records:

- (1) Valve Installation Card and Inspection Record (VIC & IR)
- (2) Engineering and Quality Verification Documentation
- (3) MRI & IR

- b. Component: Reactor Core Isolation Cooling System Valve E51F013

Requirement Documents:

- (1) Specification - M242.OR11
- (2) Drawing - M1346A

Records:

- (1) VIC & IR
- (2) Engineering and Quality Verification Documentation
- (3) MRI & IR

- c. Components: Feedwater System Valves B21F065A and B

Requirement Documents:

- (1) Specification - M242.OR11
- (2) Drawing - M1328K

Records:

- (1) VIC & IR
- (2) Engineering and Quality Verification Documentation
- (3) MRI & IR

d. Components: Hydrogen Recombiners QIE61C003A-A and B-B

Requirement Document:

- (1) Specification - M190.0R6

Records:

- (1) MRI & IR
- (2) Work Plan/Inspection Records QIE 61511208YOA and YOB

The above listed valves were observed, to the extent practical and accessible, for proper installation location and installation workmanship and identification. Only the sheet metal exterior cabinets of the recombiners noted above were readily accessible for viewing. The inspector observed the recombiner cabinet nearest the containment entrance for workmanship. The records for the above listed valves and hydrogen recombiners were reviewed by the inspector to verify that they reflect adequate work accomplishment and inspection in accordance with the requirement specifications and drawings for assurance of the following:

- a. Storage
- b. Installation
- c. Material and fabrication certifications
- d. Nonconformance/deviation reports

The inspector found that, although the FSAR (Table 5.2-5 and references to the table from sections 5.2.4.1, 5.5.1 and 5.5.3) indicated that all four valves inspected were to be ASME Section III Class 1 valves, three of the four were installed as Class 2 (E51F013, B21F065A and B21F065B). One of the three valves installed as Class 2 was purchased as Class 1 (valve E51F013), but the other two were purchased as Class 2. The valves installed as Class 2 were designated Class 2 by their respective installation drawings. The licensee stated that the FSAR was in error, not the valve procurement or installation requirements. Cognizant licensee engineering and licensing personnel were not available to review this matter with the inspector during the inspection. The inspector identified his concerns for proper valve class and FSAR correctness as unresolved item 416/82-10-01, "Uncertainties in ASME Code Class for Valves".

Within the areas inspected, no violations or deviations were identified.

7. Reactor Vessel Internals (Welding) - Observation of Completed Welds and Records Review

The inspector observed completed welds and reviewed records for welding of reactor vessel internals to verify compliance with regulatory requirements

and FSAR commitments. The completed welds observed by the inspector were tack welds on feedwater sparger fasteners and supports and core spray nozzles, and circumferential butt welds in the core spray lines (e.g., disconnect to riser welds). These welds were observed for proper workmanship and quality. The welds for which records were reviewed by the inspector, the licensee requirement documents utilized in the reviews, and the records reviewed are as follows:

- a. Weld: Feedwater sparger thermal sleeve to sparger weld 1A at 70° vessel orientation

Requirement Documents:

- (1) Procedure - GG1QAI-10R2 (Welding Material Issuance and Control)
- (2) Specification - M192.0R7 (Installation of Internals)
- (3) Specification - 22A4304R1
- (4) Drawing - 767E182

Records:

- (1) Welding material verification and control documentation for insert Heat 73797 and ER308 weld wire heat 741118
- (2) Qualification record for welder N37
- (3) Nondestructive examination reports

- b. Weld: Core spray disconnect to riser piping butt weld 45C

Requirement Documents:

- (1) Same as for a.(1) through (3) above
- (2) Drawing 762E966

Records:

- (1) Welding material verification and control documentation for welding material heats 3548R and 74118
- (2) Qualification records for welder N24
- (3) Nondestructive examination reports

The records for the above welds were reviewed to verify proper

- a. Controls on welding materials
- b. Weld identification
- c. Welder qualification
- d. Welding material
- e. Weld visual inspection acceptance
- f. Nondestructive examination acceptance

Within the areas examined, no violations or deviations were identified.