



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

Report Nos.: 50-416/78-13 and 50-417/78-13
Docket Nos.: 50-416 and 50-417
License Nos.: CPPR-118 and CPPR-119
Categories: A2 and A2
Licensee: Mississippi Power and Light Company
P. O. Box 1640
Jackson, Mississippi 39205
Facility Name: Grand Gulf Nuclear Station, Units 1 and 2
Inspection at: Grand Gulf, Mississippi
Inspection conducted: July 26-28, 1978
Inspectors: V. L. Brownlee
R. D. Bradley
Reviewed by: A. R. Herdt 8/14/78
A. R. Herdt, Chief
Projects Section
Reactor Construction and Engineering Support Branch
Date

Inspection Summary

Inspection on July 26-28, 1978 (Report Nos. 50-416/78-13 and 50-417/78-13)
Areas Inspected: Reactor pressure vessel and weld inspection problem.
The inspection involved 32 inspector-hours on site by two NRC inspectors.
Results: No items of noncompliance or deviations were disclosed.

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DETAILS I

Prepared by: V. L. Brownlee
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Projects Section
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8/14/78
Date

R. D. Bradley
R. D. Bradley, Reactor Inspector
Projects Section
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8/14/78
Date

Dates of Inspection: July 26-28, 1978

Reviewed by: A. R. Herdt
A. R. Herdt, Chief
Projects Section
Reactor Construction and Engineering
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8/14/78
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1. Persons Contacted

a. Mississippi Power and Light Company (MP&L)

- *T. E. Reaves, Jr., Manager of Quality Assurance (QA)
- *P. W. Sly, QA Field Supervisor
- *S. F. Tanner, Welding/NDE QA Representative

b. Contractor Organization

Bechtel Power Corporation (Bechtel)

- *R. L. Scott, Project QA Manager
- *D. W. Strohman, QA Engineer
- *J. H. McCarty, Project Field QC Engineer
- T. J. White, Field Rigging Engineer
- R. E. Breland, Field Rigging Engineer

The inspectors interviewed twenty-four other licensee and/or contractor employees during the course of the inspection. They included welding general foreman, welding foreman, welders, pipefitters and document control personnel.

*Denotes those present at the exit interview.

2. Licensee Actions on Previous Inspection Findings

This area was not inspected.

3. Unresolved Items

There were no unresolved items identified as a result of this inspection.

4. Independent Inspection Effort

Bypassing of Weld Inspection Points (Unit 1)

On July 20, 1978, MP&L informed IE:II that Bechtel had informed MP&L that eight non-safety related field welds within the reactor water cleanup system (filter demineralizer system) had been made without the required fit-up visual inspection being performed. This matter is documented in Bechtel Nonconformance Report No. 2776, dated July 19, 1978.

MP&L/Bechtel have organized an investigative committee and have conducted investigative activities into this matter to determine the following:

- a. The extent of welding performed without the required inspections being properly performed and documented.
- b. The affect of this condition on the determination of the quality of installed components.
- c. Actions to preclude recurrence.

The investigative activities include:

- a. Welder interviews
- b. Review of QA/QC documents
- c. Develop record of events
- d. Review of welder work/training history
- e. Review of monitoring and surveillance logs
- f. Welding OC meetings

During welder interviews, four ASME III, Class 3 welds, located in the component cooling water system (two welds) and the suppression pool cleanup system (two welds) were identified where the cleanliness and fitup inspection points were bypassed. These welds are documented on Nonconformance Report Nos. 2798 and 2799.

During this inspection the inspectors reviewed the applicable nonconformance reports, minutes of the investigative committee meetings, held discussions with responsible MP&L and Bechtel personnel and interviewed twenty Bechtel welding personnel which included general foremen, foremen, welders and pipefitters. The questionable activities involved those activities of the Bechtel QC inspector and not the activities of the contractor, Peabody Testing Company, that performs nondestructive examination (radiography, liquid penetrant and magnetic particle). It appears that this matter is receiving adequate investigative attention to determine extent of problem and corrective actions. This matter is identified as an inspector followup item No. 50-416/78-13-01.

5. Reactor Vessel (Unit 2)

Receipt of the reactor vessel and head is anticipated during the week of July 31, 1978. The contract for off-loading, transporting and erection of the vessel was awarded to Reliance Truck Company by contract number 9645-FSC-18 on July 25, 1975. The contract by reference incorporates Revision 5 of Bechtel Technical Specification 9645-C-1940 which includes as Appendix C, "General Requirements for Subcontractor Quality Assurance Programs." Supplement E of the vessel contract lists the drawings applicable to the scope of work authorized. A subsequent contract amendment dated January 17, 1978, was used to invoke the requirements of 10 CFR 21.

The inspectors held discussions with responsible MP&L and Bechtel personnel and reviewed the contract controlling specification, Reliance QA Manual and its site oriented supplement, procedures, and drawings. Additionally, the inspectors performed an inspection of the heavy-haul roadway, dock area, and storage location. Proofloading of the heavy-haul roadway has been completed.

The QA Manual addresses the requirements of 10 CFR 50, Appendix B and defines the company organizational structure under which quality programs are planned and implemented. The supplement addresses organization and authority, control of purchased items, special processes, inspections, control of nonconforming items, corrective actions, records, and audits.

No items of noncompliance or deviations were identified.

6. Management Interviews

The inspector met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on July 28, 1978.

Inspectors summarized the scope of the inspection as follows: reactor pressure vessel and followup on bypassing of weld inspection points.

No items of noncompliance or deviations were identified.