



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

Report Nos. 50-416/79-05 and 50-417/79-05

Licensee: Mississippi Power and Light Company
P. O. Box 1640
Jackson, Mississippi 39205

Facility Name: Grand Gulf Nuclear Station

Docket Nos. 50-416 and 50-417

License Nos. CPPR-118 and CPPR-119

Inspection at Grand Gulf Site near Port Gibson, Mississippi

Inspectors: T. D. Gibbons
T. D. Gibbons

4/3/79
Date Signed

A. B. Ruff
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4-3-79
Date Signed

Approved by: J. C. Bryant
J. C. Bryant, Section Chief, RCESB

4/3/79
Date Signed

SUMMARY

Inspection on March 6-9, 1979

Areas Inspected

This routine, unannounced inspection involved 46 inspector-hours on site in the areas of electrical components and systems, electrical cables and terminations, instrumentation components and systems, and fire protection.

Results

Of the areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- *J. C. Fuller, QA Acting Field Supervisor
- *B. C. Lee, QA Representative (Elec)
- *M. S. Pyle, QA Representative (I&C)

Other Organizations

Bechtel Power Corporation (BPC)

- *J. R. Valdez, QA Engineer (Mechanical)
- *J. W. Melverton, QA Engineer
- J. Cable, QC Cable Inspector
- J. Temen, QC Cable Inspector
- P. Collins, QA Engineer (Electrical)

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on March 6, 1979 with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not Inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection Effort (Units 1 and 2)

The inspectors observed the protection of installed instrumentation, reviewed procedures for fire protection. Approximately 10 fire extinguishers that were installed in various areas of the plant were examined to verify that periodic inspections were being performed.

Within the areas examined no items of noncompliance were identified.

6. Electrical (Components and Systems I) - Observation of Work and Work Activities (Unit 1)

The inspectors selected the following equipment for examination of work:

- a. Emergency Diesel Generator #12
- b. 4.16KV Switchgear: Bus 16AB
- c. 480V Load Centers: Bus 16BB3 and Bus 16BB2
- d. 480V Motor Control Centers: Bus 16B31 and Bus 16B21

The equipment was examined to assure that SAR and QAM commitments and requirements were completed within the areas of receipt inspection, storage, identification, installation (including specified location, protection, anchoring, handling and separation), installation inspection, trip setting, documentation of nonconforming items and qualification of QC Personnel.

Within the areas examined no items of noncompliance were identified.

7. Electrical (Components and Systems I) - Review of Quality Records (Unit 1)

The inspector selected the equipment identified in paragraph 6 for a review of quality records to assure that the SAR and QAM requirements were complied with in the areas of receipt inspection, source inspection, vendor test data, certificates of compliance, installation, inspections and post installation protection.

The inspector selected ten nonconformance reports to assure that they were current, legible, complete, properly reviewed and the status of correction was identified. The nonconformance reports selected were 3057, 3086, 3201, 3205, 3219, 2831, 2209, 2224, 2226 and 2190.

The inspector selected one licensee surveillance report QA-1R-CL-1-5.7-1 and one Bechtel QA audit F-E-15 to assure that the required audits were performed and that corrective action was taken, including nonrecurrence actions.

The inspector reviewed the training and qualification records of two licensee lead auditors, one Bechtel lead auditor, three level II electrical inspectors and one level III electrical inspector. The records were current and established the qualifications for their duties.

Within the areas examined no items of noncompliance were identified.

8. Electrical (Cables and Terminations I) - Observation of Work and Work Activities (Unit 1)

The inspector selected the following fourteen cables for examination:

1AA511-A	1AB5601-A
1AA507-A	1BK13R20D
1AA513-1	1AK02R20B
1AA512-B	1AK13R20B
1AA513-C	1AK01R20K
1AD245-1	1AK01R20L
1AD243-1	1BK03R20H

The cables were examined to assure that SAR and QAM commitments and requirements were completed within the areas of storage, handling, nonconformance control, issue of specified material, identification, inspection, installation, use of specified material and procedures, location, routing, protection, separation, and terminations. Also verified were raceway identifications, supports, grounding and loading.

Within the areas examined no items of noncompliance were identified.

9. Electrical (Cables and Terminations I) - Review of Quality Records (Unit 1)

The inspector selected the 14 cables identified in paragraph 8 for a records review to assure that the SAR and QAM commitments and requirements are being met. The records were reviewed in the areas of receipt inspection, source inspection, material and test certificates, installation, proper size, type of cable, raceway inspections, location, routing, separation, protection, raceway identification, cable pulling inspections, terminations and raceway supports.

The inspector selected ten nonconformance reports (NCRs) to assure that they were current, complete, legible, reviewed as required and retrievable. The status of corrective action was identified and completed. The NCRs selected were 3062, 3220, 3222, 3233, 3082, 3227, 2811, 2220, 2285 and 2109.

The inspector reviewed one licensee surveillance report NSY-91-5-40000 and one Bechtel QA audit I E-15 to assure that the required audits were performed and that the deficiencies identified were being corrected. The corrective action contained actions to prevent recurrence.

Within the areas examined no items of noncompliance were identified.

10. Instrumentation (Components and Systems) Review of Quality Assurance
Implementing Procedures (Units 1 and 2)

The inspector reviewed the following procedures and documents related to the instrumentation program:

- a. Design Specification 9645-J-702.2 - "Instrumentation"
- b. Work Plan/Procedure (WP/P) 20 - "Nonconformance Reports, Significant Deficiency Reports and Management Corrective Action Reports"
- c. WP/P-J-1 - "Installation of Instrumentation and Instrument Components"
- d. Quality Control Procedure (QCP) 10.2 - "Personnel Certification"
- e. Maintenance and Test Equipment 07-S-01-07 - "Safety Related Startup"
- f. Maintenance and Test Equipment 01-S-07-3 - "Plant Program"
- g. Maintenance and Test Equipment 01-S-07-5 - "Maintenance Program"
- h. QCP 7.1 - "Nonconformance Reports"

The above procedures were examined to assure that the SAR and QAM commitments and requirements were being complied with in the areas of installation procedures, independence, separation, protection, personnel training and qualification, calibration, record retention, calibration record review and that QA and management were informed of inspection results.

Within the areas examined no items of noncompliance were identified.