



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

Report No. 50-416/81-10

Licensee: Mississippi Power and Light Company
Jackson, MS

Facility Name: Grand Gulf

Docket No. 50-416

License No. CPPR-118

Inspector: *A. G. Wagner*
A. G. Wagner

4/27/81
Date Signed

Approved by: *F. S. Cantrell*
F. S. Cantrell, Section Chief, RRPI Division

4/27/81
Date Signed

SUMMARY

Inspection on March 16, thru April 14, 1981

Areas Inspected

This routine announced inspection involved 97 inspector-hours on site in the areas of test procedures review, system walkdown, quality assurance manual review and plant tour.

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
- *T. H. Cloninger, Project Engineering Manager
- *C. R. Hutchinson, Startup Manager
- *S. E. Tanner, Quality Assurance Engineer
 - L. C. Eichenberger, Test Supervisor
 - J. C. Roberts, Startup Supervisor
 - M. H. Madison, Test Supervisor

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on April 14, 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 are matters about which more information is required to determine whether they are acceptable or may involve noncompliance or deviations. New unresolved items identified during this inspection are discussed in paragraph 8.

5. Test Procedure Review

The following test procedures were reviewed for conformance with Regulatory Guide 1.68, FSAR Chapter 6.3, 7.4, 9.3, and 14, Question and Responses 211.194, 423.35, 423.12, 423.20, 423.30, Grand Gulf Startup Manual chapter 5000, 7000 and MPL - Topical-1 Quality Assurance Manual.

- a. 1E21PT01 Low Pressure Core Spray, approved 3-5-81 (second review the first review was conducted using a draft copy of the procedure.)

1. Open Item 416/81-10-01

Paragraph 7.5.2.1 does not provide detailed instructions for starting jockey pump or refer to the system operating instruction as required by FSAR chapter 14 paragraph 14.2.9 and MPL-Topical-1 policy 11 paragraph 11.5.7.3.

2. Open Item 416/81-10-02

The action performed in paragraph 7.7.2 does not provide a means for verification of accomplishment as required by Startup Manual chapter 7000 paragraph 4.2.5.13.

3. Open Item 416/81-10-03

The calculation performed for pump head Vs system flow is not verified to be within design values in the acceptance criteria section as required by FSAR paragraph 14.2.12.1. 7(a)(1).

b. 1E22PT01 High Pressure Core Spray, approved 3-24-81

1. Open Item 416/81-10-04

The value for the acceptance criteria in paragraph 10.10 does not agree with the value for HPCS rated flow in FSAR table 6.3-8.

2. Open Item 416/81-10-05

The value for the acceptance criteria in paragraph 10.11 does not agree with the value for HPCS beginning flow pressure in FSAR table 6.3-8.

3. Open Item 416/81-10-06

The diesel generator voltage and speed are not measured and are not verified in the acceptance criteria section of the procedure as required by FSAR paragraph 14.2.12.1.8.

c. 1C41PT01 Standby Liquid Control approved 3-24-81

1. Open Item 416/81-10-07

The prerequisites section does not contain the requirement to have boric acid and barox available as required by FSAR 14.2.12.1.3(b)(6).

2. Open Item 416/81-10-08

The settings for the storage tank level switch 1C41-LS-N600 does not agree with the settings in FSAR 7.4.1.2.5.3.

3. Open Item 416/81-10-09

The procedure does not specify that the storage tank be filled with demineralized water as required by FSAR 14.2.12.1.3(c)(1).

4. Open Item 416/81-10-10

Paragraph 7.5.11.13.2 requires a determination to be made that the pump discharge piping is not vibrating excessively. It does not provide the acceptance criteria by which this determination can be made. Neither does it provide a definition for "excessive vibration". Explicit guidance is required by SUM chapter 7000 paragraph 4.2.5.8.

5. Open Item 416/81-10-11

The criteria for checking pump cavitation in paragraph 7.7.9.1.2 does not agree with the requirement for having low tank level as described in FSAR 14.2.12.1.3(c)(1) (a).

6. Open Item 416/81-10-12

The following sub-paragraphs of FSAR 14.2.12.1.3 are not checked or are not adequately checked in the acceptance criteria section of the test procedure; d.1, d.3, d.7, and d.8.

7. Open Item 416/81-10-13

The heat tracing and freeze protection systems are not checked as required by FSAR Question and Response 423.12.

6. System Walkdown

The walkdown of the Residual Heat Removal System was observed for conformance with the requirements of Grand Gulf Startup Manual Chapter 7000 paragraph 4.1.4 and Bechtel Checkout and Turnover Organization Manual chapter 4 section 16.

No violations or deviations were identified.

7. Quality Assurance Manual Review

A review was conducted of the proposed revision to Mississippi Power and Light Company Quality Assurance Manual MPL-Topical-1. The review was conducted for conformance to 10 CFR 50 Appendix B, and ANSI standard N18.7-1976 and referenced daughter standards. Comments regarding this review have been submitted to the NRC Region II office. They will be forwarded to the NRR QA reviewer for resolution with the licensee.

8. Plant Tour

The inspector toured portions of the Control Building, Auxiliary Building and the Containment Building.

Unresolved Item 416/81-10-14

The inspector noted that the Standby Liquid Control (SLC) Tank and pumps were located on an elevation of approximately 185'. The components are installed on an open platform with no apparent enclosing protection. This appears to conflict with the protection requirements as stated in the FSAR chapter 9, paragraph 9.3.5.3.2 which states that the SLC system is located within its own compartment. This item is considered unresolved pending review by the licensee to determine if the SLC system is or will be adequately protected as described in the Final Safety Analysis Report.