

APPENDIX B

U. S. NUCLEAR REGULATORY COMMISSION

REGION IV

NRC Inspection Report: 50-382/81-30


Licensee: Louisiana Power and Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

Facility: Waterford Steam Electric Station, Unit 3

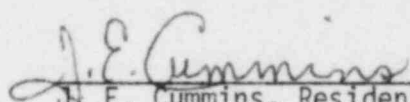
Inspection At: Taft, Louisiana

Inspection Conducted: November 16, 1981-December 15, 1981

Principal
Inspectors:




G. L. Constable, Senior Resident Inspector 1/25/82
Date



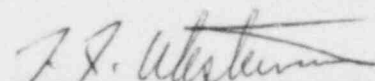
J. E. Cummins, Resident Inspector 1-25-82
Date

Assisting
Personnel:



W. B. Jones, Engineering Assistant 1/25/82
Date

Approved By:



T. F. Westerman, Chief, Reactor Projects 1/27/82
Date
Section 1

Inspection Summary

Inspection conducted November 16, 1981-December 15, 1981 (Report No. 50-382/81-30)

Areas Inspected: Routine, announced inspection of: (1) Preoperational Test Witnessing, (2) Operating Organization, (3) Care and Maintenance of Safety-Related Equipment, and (4) Temporary Modifications. This inspection involved 162 inspector-hours by two NRC inspectors.

Results: In two of the four areas inspected, no violations or deviations were identified. Two violations were identified in the area of safety system care and maintenance (violation-failure to follow procedures-Paragraph 6) and one in the area of temporary modifications (violation-failure to follow procedures-Paragraph 7).

DETAILS

1. Persons Contacted

T. K. Armington, Lead Startup Engineer
*L. L. Bass, QA Engineer
R. Bennett, QA Engineer
T. F. Gerrets, QA Manager
*D. B. Lester, Plant Manager
W. M. Morgan, QA Engineer
L. N. Richardson, T-B QA Supervisor
B. Toups, QA Technician
J. Woods, QC Engineer

*Present at exit interviews

In addition to the above personnel, the inspector held discussions with various operations, construction, engineering, technical support, and administrative members of the licensee's staff.

2. Plant Status

Construction of the Waterford-3 site is approximately 92% complete. The current LP&L schedule indicates initial fuel loading during October 1982.

3. Site Tour

At various times during the course of the inspection period the NRC inspectors conducted general tours of the Auxiliary Building, Fuel Handling Building, Reactor Building, and the Turbine Building to observe ongoing construction and testing.

No violations or deviations were identified in this area of the inspection.

4. Preoperational Test Witnessing

The NRC inspectors witnessed portions of Preoperational Test Procedure SPO-09A-006 Rev. 0, "Safety Static Uninterruptible Power Supply (SUPS)," that was conducted on December 14, 1981. The NRC inspectors verified that testing was conducted in accordance with approved procedures and evaluated the performance of licensee personnel conducting the test.

No violations or deviations were identified.

5. Organization

On December 8-10, 1981, NRC inspectors, including the resident inspectors, participated in an audit of the licensee's organization. The purpose of this audit was to review the proposed organization for operation of the Waterford-3 nuclear station to gain assurance that the licensee is adequately staffed and properly trained to safely operate the plant.

During the course of the audit the NRC staff interviewed 20 individuals in various positions within the LP&L organization.

The results of the audit will be addressed in a supplement to the Waterford-3 Safety Evaluation Report (SER).

The NRC staff observed that LP&L has filled 268 of their authorized 407 nuclear operations positions. Many key positions have been filled within the past few months.

In general, the NRC staff was favorably impressed in that LP&L has made good progress in getting many key positions filled in their operating organization. A sustained high level of hiring effort together with an aggressive training program will be needed to maintain their present schedule. LP&L management indicated they understand the position that they are in and that they are committed to this aggressive level of effort through plant startup and into routine operations.

The NRC inspectors will continue to monitor staffing progress and training and to verify that the licensee will be properly prepared to adequately test and operate the Waterford-3 nuclear station.

No violations or deviations were identified.

6. Care and Maintenance of Safety-Related Equipment

The NRC inspectors reviewed care and maintenance instructions for the two steam generators and the pressurizer. An inspection of the steam generators and pressurizer was then made on November 24, 1981, by the NRC inspectors. The following conditions were identified:

Neither of the two steam generators had had the nitrogen purge reestablished on the secondary side after the main steam and feedwater piping had been connected to the secondary side nozzles as required by CMI #32 R7.

The pressurizer did not have a nitrogen purge or blanket established as required by CMI #31 R7.

Further investigation by the NRC inspectors revealed that the nitrogen purge for the steam generators had been discontinued in January 1980, and that the nitrogen purge blanket on the pressurizer had been discontinued during May 1981.

This is a violation.

On December 3, 1981, the NRC inspectors noted that Component Cooling Water Pipe 3CC4-56A2-1 had not been sealed after being disconnected from Reactor Coolant Pump 2A. The corresponding pipe on the Reactor Coolant Pump had also not been sealed. The pipe had been temporarily connected to the pump to facilitate pipe alignment to the pump but had been disconnected to allow removal of the pump.

Pressurizer Spray Line IRC-13B was not sealed as required on the +46-foot level of the pressurizer room. The unsealed pipe was brought to the attention of LP&L's QA on December 3, 1981. This condition was found to still exist on December 16, 1981.

The two examples of unsealed pipes as stated above are in violation of section 6.3.1.1 of Tompkins-Beckwith Procedure TBP-29, "Piping System Cleanliness Procedure," which requires that during receipt, transportation, handling, and installation, openings and pipe ends shall be sealed at all times except when they must be unsealed to carry out necessary operations.

This is a violation.

7. Temporary Modifications

The NRC inspector noted the following temporary modifications made to plant equipment:

- a. A temporary electric receptacle was connected to Power Distribution Panel 362-SAB in 480V MCC3AB 311-S.
- b. Cable number 3256X-SAB leads were lifted in 125V DC Panel 3AB-S and a jumper from a temporary panel was connected to the terminals from which leads had been lifted.

These modifications were not tagged or documented as temporary modifications as required by startup administrative procedure SAP-10, "Temporary System Modification."

This is a violation.

8. Exit Interviews

The NRC inspectors met with the licensee representatives (denoted in Paragraph 1) at various times during the course of the inspection. The scope and findings of the inspection were discussed.