

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION IV

IE Inspection Report: 50-382/81-15

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: May 16 - June 15, 1981

Principal
Inspector:

T. F. Westerman
G. L. Constable, Senior Resident Inspector

July 8, 1981
Date

Approved By:

T. F. Westerman
T. F. Westerman, Chief
Reactor Projects Section 1

July 8, 1981
Date

Inspection Summary:

Inspection conducted May 16, 1981 - June 15, 1981 (Report 50-382/81-15)

Areas Inspected: Routine, announced inspection of: Quality control for operations; dry cooling tower problem; Plant Operations Review Committee; preoperational test program; concrete embedment of safety system pipe; and plant tour. The inspection involved 75 inspector hours of direct inspection effort by one NRC inspector.

Results: One item of noncompliance was identified in one of the six areas inspected. (Violation - Failure to install piping system, in accordance with construction drawings, Paragraph 7.)

DETAILS

1. Persons Contacted

S. A. Alleman, Assistant Plant Manager
 T. K. Armington, Lead Startup Engineer
 *L. L. Bass, QA Engineer
 *C. J. Decareaux, Construction Engineer
 *D. B. Lester, Plant Manager
 C. Skinner, QC Inspector
 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 SES site is approximately 89% complete. The current LP&L schedule indicates initial fuel loading during October 1982.

3. Quality Control Operations

The NRC inspector reviewed the following Quality Control audits to verify that the audits were being conducted in accordance with LP&L Quality Procedures.

<u>Title</u>	<u>Date</u>
Technical Support	February 25, 1981
Electrical Maintenance	May 15, 1981
Health Physics	May 18, 1981
Warehouse Inspection	May 20, 1981
Chemical & Environmental	May 21, 1981

Quality Controls Audits in most areas are aimed at reviewing the development of the various programs as they evolve. The NRC inspector noted that there was some confusion caused by the numbering system used to identify activity inspections and warehouse inspections. Several instances were noted where follow-up memoranda to audit reports did not properly reference the audit being discussed. This caused at least one response to be misfiled. The Quality Control Engineer stated that he has recognized the problem in this area and that steps would be taken to resolve the issue.

No violations or deviations were noted.

4. Dry Cooling Towers-Component Cooling Water System

The dry cooling towers were received on site in a very poor state of internal cleanliness. ANSI N45.2.1-1973 classifies this system as Class C, requiring an intermediate level of cleanliness. Specifically the standard requires that the internal surface be free of particulate contaminants such as sand, metal chips, weld slag, etc., and that it be free of organic films such as oils, preservatives, paint, etc. The licensee's representatives have found considerable weld slag, metal cuttings (including one piece over thirty feet long) and various organic compounds such as pipe joint and tube rolling compound on inside surfaces. The amount of organic material drained and flushed out of each dry tower has varied from less than a pint to several gallons. The tube rolling compound (vegetable lard) appears to be easily removed; however, the pipe joint compound which contains graphite, linseed oil and varnish is proving to be very difficult to remove. The consistency of the compound varies from a thick tar-like mass to a black, flakey material, where it has dried.

The NRC resident inspector has identified this clean-up effort as an open item (8115-01) and will perform follow-up inspections as the work proceeds to verify a proper level of cleanliness for the Component Cooling Water System.

No violations or deviations were noted.

5. Plant Operations Review Committee (PORC)

The NRC inspector attended PORC meeting 81-20 on May 27, 1981. During the meeting the committee reviewed a variety of plant procedures. The NRC inspector noted that a quorum was present and that appropriate specialists were brought into the meeting to answer questions on specific issues.

No violations or deviations were noted.

6. Preoperational Test Program

The NRC inspector attended various meetings and discussed the details of the startup test program with engineers, operators and supervisory personnel.

No violations or deviations were noted.

7. Safety-Related Pipe Spools Embedded in Concrete

On June 9, 1981, while reviewing Construction Deficiency Report No. 29 on Inadequate Clearance Between Process Piping and Box-Type Pipe Supports,

The NRC inspector noted that the process piping was embedded in concrete at two locations. These two pipe spools are in the piping run between the purification system ion exchangers and the volume control tank.

The two pipe spools are Safety Class 2. The inspector questioned whether the pipe should have a sleeve to allow for thermal expansion. The inspector then pursued this matter through LP&L's onsite QA organization and learned that Pipe Spools 2 CH 3-80 A/B-12 and 2 CH 3-80 A/B-11 had not been installed in accordance with Ebasco Drawing LOU-1564 G-194 and G-207 in that each of these pipe spools should pass through sleeves in the two concrete walls.

This is a violation of Appendix B to 10 CFR 50.

8. Plant Tours

During the course of the inspection, the NRC inspector toured the reactor building, fuel handling building, turbine building, and the auxiliary building to observe ongoing construction activities.

No violations or deviations were noted.

9. Exit Interviews

The NRC inspector met with the Plant Manager during the course of the inspection. The scope of the inspection and the findings were discussed.