

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

REGION IV

Report No. 50-382/80-36

Docket No. 50-382

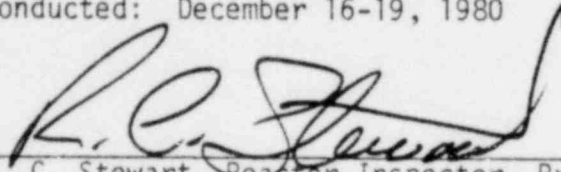
Category A2

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

Facility: Waterford Steam Electric Station, Unit No. 3

Inspection at: Waterford Site, Taft, Louisiana

Inspection Conducted: December 16-19, 1980

Inspector: 
R. C. Stewart, Reactor Inspector, Projects Section

1/9/81
Date

Approved: 
W. A. Crossman, Chief, Projects Section

1/9/80
Date

Inspection Summary:

Inspection on December 16-19, 1980 (Report No. 50-382/80-36)

Areas Inspected: Routine, unannounced inspection of construction activities related to a follow-on review of previously identified unresolved items and a review of the instrumentation installation subcontractor's construction and QA/QC activities. The inspection involved twenty-six inspector-hours by one NRC inspector.

Results: No violations or deviations were identified.

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DETAILS

1. Persons Contacted

Principal Licensee Employees

- *T. Gerrets, QA Manager
- *B. Brown, QA Engineer
- *B. Toups, QA Engineer
- *C. Decareaux, Project Coordinator
- R. Sandridge, QC Engineering Technician
- R. Gautreau, Project Coordinator
- *G. Pittman, QA Engineer
- *R. Bennett, QA Engineer

Other Personnel

- *R. Milhiser, Site Manager, Ebasco
- *R. Hartnett, QA Site Supervisor, Ebasco
- L. Stinson, Site QC Program Manager, Ebasco
- K. Gilkerson, QC Engineer, Mercury Company (Mercury)
- J. Abbott, QA Supervisor, Mercury

The IE inspector also interviewed other licensee and contractor personnel including members of the engineering and QA/QC staffs.

*Denotes those attending the exit interview.

2. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance (50-382/80-26): Failure to Follow Procedures Relative to the Installation of Safety-Related Tubing Assemblies. During this inspection, the IE inspector observed, during a plant walk through, that open-ended tubing runs and valves were taped and/or capped maintaining proper procedural requirements for cleanliness. In addition, the IE inspector reviewed the QA/QC documentation relative to the corrective actions regarding this infraction. It was noted that, in their Monday morning training session on October 13, 1980, the Mercury Company Quality Assurance Engineer and Field Superintendent conducted a training session with all Mercury Company craft personnel relating to the installation of valves and tubing emphasizing the capping or taping of all open ends and the flushing of lines where capping/taping has not been done. This record of training is delineated on Mercury Form 266, dated October 13, 1980.

Mercury Quality Control Report, Form 211, dated October 30, 1980, outlines the cleaning and capping of the valves found uncapped and the subject of the referenced citation. It was also noted that the Mercury Company inspectors conducted a plant survey and found that this matter was an isolated incident.

This item is considered closed.

(Closed) Unresolved Item (50-382/80-04 and 50-382/80-22): Wet Film Thickness Measurements. As a result of specific allegations by two former QA inspectors assigned as Level I inspectors on the painting of protective coatings in the Reactor Containment Building (RCB)^{1/}, it was determined that portions of the concrete surfaces in the RCB were painted without wet film thickness measurements taken during the painting application as required by Ebasco Specification LOU 1564.734.

Although the discrepancy had been identified by the painting contractor prior to the allegation, a method for determining the paint thickness had not been established at the time of the investigation.

During a subsequent inspection^{2/}, the IE inspector observed that a procedure for determining paint film thickness and adhesion was developed by the painting contractor and approved by the licensee and the paint manufacturer, Ameron.

During this inspection, the IE inspector was provided a copy of the final test results and supporting documentation for final disposition of the Discrepancy Report No. 54, dated March 13, 1980.

It was noted that twelve areas on the lower levels of the Reactor Containment Building were tested, with the resulting paint thickness findings ranging from .032" through .100". These thicknesses appear to meet the Design Base Accident (DBA) requirements of ANSI Standard N101.2. It was also observed by the IE inspector that the specific areas were viewed as smooth and free of any visible defects. In addition, the results of the adhesion tests reflect excellent adhesion properties. The IE inspector had no further questions regarding this matter.

This item is considered closed.

^{1/} IE Investigation Report No. 50-382/80-04, Allegation No. 5, dated June 25, 1980

^{2/} IE Inspection Report No. 50-382/80-22, dated September 26, 1980

3. Instrumentation - Components and Systems - Electrical

a. Contract Document and Procedures Review

During this inspection, the IE inspector conducted a follow-on review of the Mercury Company contract documents and procedures; Fischbach & Moore, Inc. procedures; and the Ebasco Specification LOU 1564.407. Documents reviewed included the following:

Mercury Company Contract W3-NY-15, "Installation of Pneumatic and Electronic Instrumentation and Performance of Related Work for Waterford Steam Electric Station, dated July 13, 1978, Appendix A.

Fischbach & Moore, "Quality Control and Construction Procedures Manual," dated July 6, 1979; CP-307, "CP for Cable Termination and Splices," Revision 4, dated April 30, 1980; QCP-307, "QC Procedure for Cable Termination and Splices," Revision 1, dated August 28, 1979.

Mercury Quality Control Procedure No. QCP-3110.6, "Installed Equipment Inspection Procedure," Revision 3, dated May 12, 1980; SP-651, "Installation of Local Mounted Instrument Racks and Cabinets," Revision 3, dated October 23, 1978.

No violations or deviations were identified.

b. Observation of Work

In conjunction with the procedures review, the IE inspector randomly selected instrument cable terminations to determine compliance with construction procedures, Quality Control procedures, design drawings and industrial standards; i.e., IEEE and IPCEA.

The following completed terminations were inspected and the associated documents were reviewed for design continuity:

<u>Cable</u>	<u>Termination</u>
32376F-SB	CP-45, B-7, W-3, S-9
32378M-SA	CP-45, B-N4, W-N5, S-N6
32376K-SB	To DG "B" CP, B-L13, W-L14, S-L15
32376K-SB	To DG "B" CP, B-750, W-749, S-748

No violations or deviations were identified.

4. Site Tour

The IE inspector walked through various construction and storage areas to observe construction activities in progress and to inspect the general state of cleanliness and adherence to housekeeping requirements.

No violations or deviations were identified.

5. Exit Interview

The IE inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on December 19, 1980. The IE inspector summarized the purpose and the scope of the inspection and the findings.