

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION  
REGION IV

NRC Inspection Report: 50-498/88-28  
50-499/88-28

Operating License: NPF-76  
Construction Permit: CPPR-129

Dockets: 50-498  
50-499

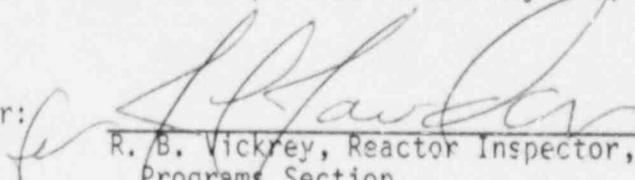
Licensee: Houston Lighting & Power Company (HL&P)  
P. O. Box 1700  
Houston, Texas 77011

Facility Name: South Texas Project (STP) Units 1 and 2

Inspection At: STP, Matagorda County, Texas

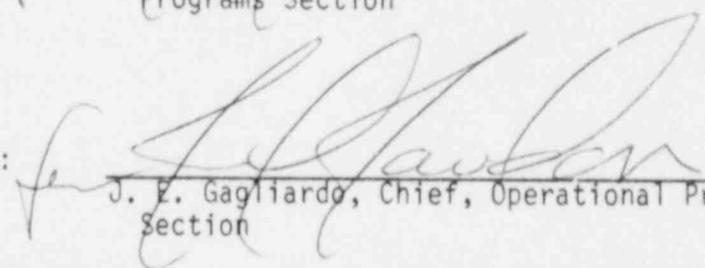
Inspection Conducted: April 18-22 and May 2-6, 1988

Inspector:

  
R. B. Vickrey, Reactor Inspector, Operational  
Programs Section

6/13/88  
Date

Approved:

  
J. E. Gagliardo, Chief, Operational Programs  
Section

6/13/88  
Date

Inspection Summary

Inspection Conducted April 18-22 and May 2-6, 1988 (Report 50-498/88-28;  
50-499/88-28)

Areas Inspected: Routine, unannounced inspection of selected safety-related electrical components and systems, safety-related instrumentation components and systems, and actions on previously identified findings.

Results: Within the three areas inspected, no violations or deviations were identified.

DETAILS1. Persons Contacted

- \*J. S. Phelps, Supervising Engineer, Project Compliance
- \*R. C. Sisson, Site Resident Engineer
- \*G. Ondriska, Startup
- \*J. D. Green, Quality Assurance (QA)
- \*P. Baskin, QA
- \*S. M. Head, Supervisory Licensing Engineer
- \*R. W. Miller, Project QA Manager
- \*W. Trujillo, Project QA Supervisor
- \*R. H. Medina, QA Supervisor
- \*R. E. Abel, Quality Program Site Manager
- \*R. D. Bryan, Field Construction Manager
- \*A. Mikus, General Construction Supervisor
- \*T. Quirk, General Supervisor
- \*K. L. Trippel, Lead Engineer, HL&P
- \*T. J. Jordan, Project QA Manager
- \*D. E. Nester, Supervisor, HL&P
- \*B. Werrborn, Supervisory Project Engineer
- \*W. P. Evans, Operations Support Licensing Engineer
- \*K. M. O'Gara, Project Compliance
- \*S. D. Phillips, Project Compliance

The NRC inspector also interviewed other licensee personnel and contractor employees during the inspection.

\*Denotes those personnel attending the exit interview on April 22, 1988.

2. Safety-Related Electrical Components and Systems (Unit 2 Only) (51053)

The NRC inspector observed and inspected completed work, partially completed work, and work activities in progress associated with electrical equipment to determine if they were being controlled and accomplished in accordance with NRC requirements, safety analysis report commitments, and licensee procedures.

a. Inspection Activities

The NRC inspector examined the following safety-related areas of electrical components and systems, as appropriate for the stage of work, by observation and evaluation of both in-process and completed work:

- o in-process installation,
- o completed work,
- o construction testing, and
- o as-built verification.

b. Items of Inspection

The NRC inspector examined the following items in the above areas as appropriate for their state of completion:

- 125 VDC batteries and racks;
- switchgear, cabinets, and panels;
- raceways and supports;
- cable pulling;
- breaker testing;
- preoperational testing; and
- Raychem splices.

c. Observations

The four safety-related 125 VDC batteries were inspected for cleanliness, proper connections, air flow, structural support, electrolyte level, and compartment access control.

Various switchgear, cabinets, and panels were inspected for proper connections, internal and external labeling, cleanliness, control of plastic screws, and required identification or control of jumpers. It was brought to the attention of the licensee by the NRC inspector that a fuse for ECW Pump 2C in transfer SW Train "C" panel had a plastic tie wrap around it. The licensee took action to have the tie wrap removed and verify that the fuse was undamaged. The licensee informed the NRC inspector that they were unable to determine the reason the tie wrap was installed but that they had taken action to inform startup test personnel that this was not a recognized practice.

Several raceways and supports were observed for fill, cleanliness, separation, and physical condition.

Two in-progress cable pulling operations were observed for proper handling, routing, inspection, and temporary storage.

Breaker testing was observed in accordance with Procedure No. SG-E-01, Revision 3, on vendor PNL Breaker HX012, component ID No. C2HEX012-1-CB. The NRC inspector observed that the test equipment was in current calibration, test data met the acceptable criteria, and proper documentation was made.

The NRC inspector observed portions of Preoperational Tests 2-SI-P-02 (safety injection accumulators) and 2-SI-P-01 (safety injection system Train A). Observations included verification of prerequisites, proper control of jumpers, data recordings, and incorporation of changes.

Three Raychem splices were inspected in a splice box, SB for SOV FV3971, 3983, for Cables A2SI15C1SB, A2SI15C1SC, A2SI15C1SD, and A2SI15C1SE. The termination and splice records were examined for proper calculations, evaluation, and documentation.

No violations or deviations were identified.

3. Safety-Related Instrument Components and Systems (Unit 2 Only) (52053)

The NRC inspector conducted a walkdown of various installed instruments to determine if the equipment had proper, permanent identification, adequate protection from adjacent construction activities, and had been correctly mounted. Instrument wiring was inspected for proper identification and support. Several temporary jumpers were verified to have proper control through temporary alteration tagging or test procedures documentation.

No violations or deviations were identified.

4. Licensee Action on Previous Inspection Findings

(Closed) Unresolved Items (498/8802-02 and 499/8802-01) - Berm which did not extend to the wall for the 1800 AH safety-related batteries. This item involved a concern as to why the berm, which was part of the original battery design, was no longer needed. The berm was originally installed to provide a catch area for dilution of a battery acid spill. The licensee had made an evaluation of the Battery Room Chemical Waste Drain System and determined that it is sufficiently designed to handle battery acid spills.

This item is closed.

5. Exit Interview

The NRC inspector met with the licensee representatives denoted in paragraph 1, on April 22 and May 6, 1988, and summarized the scope and findings of the inspection. The licensee did not identify as proprietary any of the information provided to or reviewed by the NRC inspector. An NRC resident inspector was present at both meetings.