

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

NRC Inspection Report: 50-498/88-22
50-499/88-22

Operating License: NPF-71
Construction Permit: CPPR-129

Dockets: 50-498
50-499

Licensee: Houston Lighting & Power Company (HL&P)
P.O. Box 1700
Houston, Texas 77001

Facility Name: South Texas Project (STP), Unit 1

Inspection At: STP, Matagorda County, Texas Unit 1

Inspection Conducted: March 28 through April 1, 1988

Inspector: R. E. Ireland
for A. Singh, Reactor Inspector, Plant Systems
Section, Division of Reactor Safety

4/27/88
Date

Approved: R. E. Ireland
R. E. Ireland, Acting Chief, Plant Systems Section
Division of Reactor Safety

4/27/88
Date

Inspection Summary

Inspection Conducted March 28 through April 1, 1988 (Report 50-498/88-22)

Areas Inspected: Routine, unannounced inspection of fire protection/prevention program and implementation.

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

Inspection Conducted March 28 through April 1, 1988 (Report 50-499/88-22)

Areas Inspected: No inspection of Unit 2 was conducted.

Results: Not applicable.

DETAILS1. Persons ContactedHL&P

- *W. S. Blair, Maintenance Support Division Manager
- *H. S. Blinka, Performance Support Supervisor
- *S. M. Head, Supervisor Licensing Engineer
- *W. H. Kinsey, Plant Manager
- *J. A. Labuda, Fire Protection Coordinator
- *D. A. Leazar, Reactor Support Division Manager
- *M. A. Ludwig, Maintenance Manager
- *E. Nichols, Jr., Electrical Maintenance Division Manager
- *C. M. Turner, Support Engineering, Fire Protection
- *M. R. Wisenburg, Plant Superintendent, Unit 2

*Denotes those personnel attending the exit meeting.

2. Fire Protection/Prevention Program (64704)

This inspection was conducted to evaluate the overall adequacy of the licensee's fire protection program and to determine whether the licensee was implementing the program in conformance with regulatory requirements and industry guides and standards.

Fire Prevention/Administrative Control Procedures

The NRC inspector reviewed the Fire Prevention/Administrative Procedures listed in Table 1 (attached). From the review the inspector verified that the licensee had technically adequate procedures to implement the fire protection program. Procedural guidance was provided to control combustible material and reduce fire hazards. Administrative procedures also provided for the maintenance and surveillance on fire suppression, detection, and support equipment. Personnel training, qualifications, and responsibilities were defined for the brigade and the individual reactor operators associated with the fire protection program at STP, Unit 1. There were administrative controls for maintenance evolutions that would limit fire risk.

The NRC inspector toured accessible areas of the plant site for general area conditions, work activities in progress, and visual observation of the condition of fire protection systems and equipment. Combustible materials, flammable and combustible liquid, and gas usage were restricted or properly controlled in areas containing safety-related equipment and components. Items checked included positions of selected valves, fire barrier conditions, hose stations, hose houses, halon system lineups, fire lockers, and fire extinguishers for type, location, and condition.

During this inspection, the NRC inspector noted that 3 of 6 emergency direct current lights tested were inoperational because of a loose power connections. The licensee took immediate corrective actions to rectify the problem. The licensee walked down the remaining emergency lights and found no more problems. Further, the licensee issued an engineering support request to replace the existing plugs and receptacles with a "twist-lock" type. These "twist-lock" plugs and receptacles should correct the problem permanently. The licensee stated that installation of the new plugs will be completed by the end of first refueling of Unit 1.

Welding, cutting, or use of open flame ignition sources were not found in the areas toured. There were no construction activities in progress in the toured areas. There was some maintenance work in progress during the inspection. General housekeeping conditions were found to be excellent. Fire protection systems and equipment installed for protection of safety-related areas appeared to be functional and had been tested in accordance with the licensee's commitments in the Final Safety Analysis Report (FSAR). Fire brigade equipment, including emergency breathing apparatus, was found to be properly stored and maintained.

The NRC inspector also reviewed fire brigade training and drill records. The records were up-to-date and confirmed that training and drills were being conducted at the specified intervals.

3. Fire Protection QA Program Review

A general review of the licensee's quality assurance (QA) audits for the most recent 3-month period was conducted. The audit packages were well organized and appeared to be thorough and informative. This review revealed that the licensee was documenting deficient conditions and was initiating corrective action. The audit documents satisfied the commitments of STP, Unit 1 related to the fire protection program QA audits. The QA Administrative Procedures (IP-4.3Q) governing nonconformance report initiation and disposition were reviewed. A program is in place for dealing with nonconforming conditions.

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

4. Exit Interview

An exit interview was conducted on April 1, 1988, with those personnel denoted in paragraph 1 of this report. At this exit interview, the NRC inspector summarized the scope and findings of the inspection.

Table 1

<u>Number</u>	<u>Title</u>	<u>Date</u>
OPGP03-ZF-0001, Revision 4	Station Procedure Fire Protection Program	01/20/88
OPGP03-ZF-0002	Fire Brigade Drills	09/11/85
OPGP03-ZF-0003, Revision 2	Breaching of Fire Barriers and HVAC Boundaries	06/08/87
OPGP03-ZF-0004, Revision 1	Control of Transient Fire Loads	04/22/86
OPGP03-ZF-0005, Revision 3	Use of Flammable Liquids and Gases	08/18/87
OPGP03-ZF-0006, Revision 3	Control of Ignition Sources	09/09/87
OPGP03-ZF-0007, Revision 2	Control of Solvents, Paints and Painting Processes	01/18/88
OPGP03-ZF-0008, Revision 1	Use of Fire Protection Equipment	05/21/87
OPGP03-ZF-0011, Revision 3	STPEGS Fire Brigade	01/20/88
OPGP03-ZF-0012, Revision 1	Fire Fighting	05/29/87
OPGP03-ZF-0013, Revision 1	Fire Watch Program	07/21/87
OPGP04-ZF-0014	Fire Prevention Surveys	03/21/88
OPGP05-ZF-0015, Revision 4	Preparation and Approval of Fire Prep Plans	08/07/87
OPGP03-ZF-0017	Fire Protection Unanticipated Impairment	06/08/87
OPGP03-ZF-0018, Revision 4	Fire Protection System Operability Requirements	10/28/87
IP-4.3Q, Revision 1	Quality Assurance Program for Fire Protection	04/21/87
IP-8.14Q, Revision 1	Fire Protection Training Program	04/02/87
IP-2.10	Quality Program for Non Safety Related Equipment and Activities	01/23/87

<u>Number</u>	<u>Title</u>	<u>Date</u>
Section.15.0, Revision 2	Operations Quality Assurance Plan Quality Assurance Audit and Surveillance	01/30/87