



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA STREET, N.W.
 ATLANTA, GEORGIA 30303

Report No. 50-389/82-42

Licensee: Florida Power and Light Company
 9250 West Flagler Street
 Miami, FL 33152

Facility Name: St. Lucie Unit 2

Docket No. 50-389

License No. CPPR-144

Inspection at St. Lucie site near Fort Pierce, Florida

Inspector: Frank Jape
 for P. A. Taylor

9/23/82
 Date Signed

Approved by: Frank Jape
 F. Jape, Section Chief
 Engineering Inspection Branch
 Division of Engineering and Technical Programs

9/23/82
 Date Signed

SUMMARY

Inspection on August 30 - September 3, 1982

Areas Inspected

This routine, unannounced inspection involved 30 inspector-hours on site in the areas of preoperational test procedure review; preoperational test witnessing; preoperational test procedure verification and plant tour.

Results

Of the four areas inspected, no violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *C. M. Wethy, Plant Manager
- *R. D. Parks, Assistant Project Manager
- *J. Barrow, Operations Superintendent
- *N. Weens, QA Superintendent
- *J. Garner, Lead Mechanical Engineer
- *W. Windecker, Planning and Scheduling Supervisor
- R. Dawson, Lead Mechanical Engineer
- R. Beecken, Mechanical Startup Engineer
- J. Scarola, I&C Startup Engineer

Other licensee employees contacted included three technicians.

Other Organizations

G. E. Grace, Licensing Engineer, EBASCO

NRC Resident Inspector

*S. Elrod, Senior Resident Inspector

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on September 3, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

- a. Inspector Followup Item, 389/82-42-01, Auxiliary Feedwater System Endurance Test Acceptance Criteria documentation, paragraph 5.
- b. Inspector Followup Item, 389/82-42-02, Inspector Comments on Preop Test 2-0010181, Pre Core Hot Functional Sequencing Document, paragraph 5.
- c. Inspector Followup Item, 389/82-42-03, Incomplete items from the SER and FSAR Questions/Answer Section, paragraph 7.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preoperational Test Procedure Review (70303, 70305)

The inspector reviewed the following preoperational test procedures:

- 2-0700095 - Auxiliary Feedwater System Endurance Test
- 2-0010181 - Pre-Core Hot Functional Sequencing Document
- 2-1400080 - Reactor Protection System Preoperational Test Procedure

These procedures were reviewed to verify that they were consistent with FSAR Chapter 14 and Regulatory Guide 1.68 commitments and that the procedures contain the required committee reviews, management approval, specified format, precautions and acceptance criteria.

Within the area inspected no violations or deviations were identified. The inspector did note, however, certain discrepancies with two of the procedures as follows:

2-0700095, Auxiliary Feedwater System Endurance Test. FSAR Chapter 14.2, preoperational test 14.2.12.4E states that one of the acceptance criteria for testing the auxiliary feedwater system is that there should be at least five successful starts to demonstrate system reliability. The procedure as presently written doesn't contain steps to document or verify that this acceptance criteria has been met.

The licensee indicated that the procedure would be changed to ensure that this acceptance criteria is met. The inspector identified this as an inspector followup item (IFI 389/82-42-01).

2-0010181 Pre-Core Hot Functional Sequencing Document. The inspector had several comments as a result of reviewing the Hot Functional Sequence Document. These comments were reviewed with licensee management and it was noted that many of the same comments were identified by the licensee staff as this document had just recently been submitted for comments.

The licensee indicated that the inspector's comments would be considered during the present review cycle. The inspector identified this item as an inspector followup item (IFI 389/82-42-02).

6. Preoperational Test Witnessing (70317B)

The inspector witnessed portions of the reactor protection system tests (2-1400080) which verified proper operation of the RPS measurement channels and the RPS matrix fuse test. The inspector verified that the test was being conducted using an approved procedure and that test data were recorded properly and met the procedure acceptance criteria. The inspector also noted that the handling of a procedure deviation was done as specified by Quality Procedure Q15-PR/PSL-1.

Within the areas inspected no violations or deviations were identified.

7. Preoperational Test Procedure Verification (70311)

The inspector reviewed the Question/Answer section of the FSAR and portions of St. Lucie Unit 2, Safety Evaluation Report (NUREG 0843) to identify licensee commitments which require tests to be conducted or procedures issued. The inspector identified the following as not complete at this time. Followup on progress of these items is identified as IFI 389/82-42-03.

- a. Natural Circulation Boron Mixing Test (SER pg 5-19). These tests are scheduled to be conducted at San Onofre 2 and 3 and are applicable to St. Lucie Unit 2. The licensee is committed to documenting the acceptability and applicability of these tests for St. Lucie prior to startup testing. If testing has not been done at San Onofre, then St. Lucie will conduct these tests during the power escalation program.
- b. Natural Circulation Cooldown (SER pg 5-19). The licensee committed to revising emergency operating procedures so that voiding in the reactor vessel upper head regions would not occur during natural circulation cooldown. Procedures are to be modified prior to fuel loading.
- c. Auxiliary Feedwater System (SER pg 10-23). The licensee has committed to make available to plant operators an emergency procedure that identifies an alternate source of water supply to the Auxiliary Feedwater System.
- d. Containment Inspection Procedure (Q/A 440.61). The licensee is to establish a procedure to perform inspections of containment and the containment sump area to identify material which may become debris, capable of blocking the containment sump.

8. Plant Tour (7132)

The inspector toured the control room, reactor auxiliary building, containment building and the diesel generator building to observe work activities in progress, housekeeping and tag controls on equipment.

Within the area inspected no violations or deviations were identified.