



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W., SUITE 3100  
ATLANTA, GEORGIA 30303

Report No. 50-389/82-49

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

Facility Name: St. Lucie 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

10/19/82  
Date Signed

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

10/19/82  
Date Signed

SUMMARY

Inspection on October 4-8, 1982

Areas Inspected

This routine, unannounced inspection involved 37 inspector-hours on site in the areas of preoperational test witnessing, preoperational test procedure review, inspector followup items, 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

- \*K. N. Harris, Assistant Manager Nuclear Energy
- \*C. M. Wethy, Plant Manager
- \*G. J. Boissy, Startup Superintendent
- \*W. S. Windecker, Assistant Superintendent Planning and Scheduling
- \*R. E. Dawson, Lead Mechanical Engineer
- \*J. E. Garner, Lead I&E Engineer
- \*H. S. Ruff, QC Supervisor
- E. Ordway, I&C Startup Engineer
- L. M. Cornman, Mechanical Startup Engineer
- R. J. Beecken, Mechanical Startup Engineer

Other licensee employees contacted included five technicians and two operators.

#### Other Organizations

- \*A. R. Herdt, Branch Chief, Engineering Technical Branch, NRC Region II

NRC Resident Inspector

- \*S. A. Elrod, Senior Resident Inspector

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on October 8, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspector's findings.

Inspector Followup Item, 389/82-49-01, Inspector comments on preoperational test 2-0010181, Pre Core Hot Functional Sequence Document, paragraph 6.

### 3. Licensee Action on Previous Enforcement Matters

Not inspected.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preoperational Test Witnessing (70312B) (70317B)

The inspector witnessed portions of the tests below listed to verify that the tests were being performed in accordance with approved procedures, test data were being recorded properly and met acceptance criteria and that procedure deviations, equipment problems when applicable were being handled in accordance with administrative controls.

a. 2-0700081, Auxiliary Feedwater System Functional Test

The inspector observed the functional testing of the 2A auxiliary feedwater pump. The test demonstrated pump performance, equipment and piping vibration measurements along with the ability of the system to supply feedwater to the steam generators.

Within the areas inspected no deviations or violations were identified.

b. 2-0520081, Spent Resin System Functional Test

The inspector observed the transfer of resin from the chemical and volume control system purification ion exchanger 2A to the spent resin tank and the subsequent resin discharge to a 55 gallon drum collection facility. The purpose for this test was to verify piping flow paths and the capability to collect a known quantity of resin.

Within the areas inspected no deviations or violations were identified.

c. 2-1400080, Reactor Protection System Functional Test

2-140088, Safeguard Cabinet Functional Test.

The inspector observed the testing of the reactor trip which was to verify that the breaker indicator lights and the undervoltage trip devices are energized when each breaker is closed. The inspector also observed the setting of the +15 volts and +24 volts DC power supplies to the safeguard cabinets.

Within the area inspected no deviations or violations were identified.

6. Preoperational Test Procedure Review (70305B) (70308B)

The inspector reviewed the following preoperational test procedures:

2-0010181, Pre-Cor Hot Functional Sequence Document

2-1400080, Reactor Protection System Functional Test

These procedures were reviewed to verify that they were consistent with FSAR Chapter 14 and Regulator Guide 1.68 commitments and that they contained 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 one of the procedures as follows:

2-0010181, Pre-Core Hot Functional Sequence Document

The sequencing document lists as a prerequisite those preoperational tests to be sufficiently completed to support hot functional testing. The Preoperational Procedure Index identifies at least ten additional preop tests as pre-core hot operational tests but do not appear as prerequisites. Acceptance criteria, section 10 list all tests that will be done during hot functionals. The inspector also noted that RTD Time Response Test, 2-1400162A is not listed in section 10.

The licensee indicated that this area would be reviewed and appropriate changes to the sequence document made. This item was identified as an inspector followup item (IFI 389/82-49-01)

7. Inspector Followup Items

The following inspector followup items were reviewed with licensee management

- a. 389/82-42-01, (Closed) Documenting Acceptance Criteria Preoperational procedures that are issued for testing the auxiliary system did not contain FSAR Chapter 14.2, test 14.2.12.4.E acceptance criteria which required that at least five successful starts of the auxiliary feedwater system be conducted to demonstrate system reliability. The licensee has revised preoperational test 2-0700081, Auxiliary Feedwater System Functional Test to incorporate these requirements.
- b. 389/82-42-02 (Closed) Comments on Preop Test 2-0010181, Pre-Core Hot Functional Sequence Document

The inspector reviewed the sequencing document and noted that the inspector's comments had been incorporated.

8. Plant Tour (71302)

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.