



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

Docket/Report No. 50-389/81-1

Licensee: Florida Power and Light Company  
9250 West Flagler Street  
Miami, FL 33101

Facility Name: St. Lucie

License No. CPPR-144

Inspection at: St. Lucie site near Ft. Pierce, Florida

Inspector: J. R. Harris

J. R. Harris

2/11/81  
Date Signed

Approved by: T. E. Conlon

T. E. Conlon, Section Chief, RCES Branch

2-11-81  
Date Signed

Date of Inspection: January 20-23, 1981

Areas Inspected

This routine, unannounced inspection involved 28 inspector-hours onsite in the areas of structural concrete, earthfill and previously identified items.

Results

Of the 3 areas inspected, no apparent items of noncompliance or deviation were identified.

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## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*B. J. Escue, Project Manager
- \*W. Hayward, QA Construction Supervisor
- \*E. Sherman, QA Engineer
- O. Karch, QA Engineer
- \*J. Parker, Project Quality Control Supervisor
- C. Carlos, Civil QC Supervisor
- \*D. Cooper, Supervising QA Engineer

Other licensee employees contacted included three construction craftsmen, three technicians, and two office personnel.

#### Other Organizations

R. Garramore, Senior Resident Engineer, EBASCO

\*Attended exit interview.

### 2. Exit Interview

The inspection scope and findings were summarized on January 23, 1981 with those persons indicated in Paragraph 1 above.

### 3. Licensee Action on Previous Inspection Findings

(Closed) Infraction (389/80-08-01) Inadequate procedural controls on sand-cement fill. The inspector reviewed the licensee's response and implementation of that response presented in the licensee's letter dated July 24, 1980. Design change number 518.822 was issued to clarify procedural controls and to document testing showing that sand cement fill met design requirements. This item is closed.

### 4. Unresolved Items

Unresolved items were not identified during this inspection.

### 5. Independent Inspection

The inspector examined the following areas:

- a. Construction status
- b. Concrete and soils testing laboratory
- c. Backfill operations adjacent to the reactor control building and component cooling building.

- d. Ongoing concrete curing controls.
- e. Installation of reinforcing steel in shield walls around the steam generator and pressurizer.
- f. Concrete test cylinder strength data from January 3, 1980 to January 5, 1981.

No deviations or violations were identified.

6. Containment (Structural Concrete II) - Observation of Work and Work Activities

The inspector performed a followup inspection of structural concrete activities. The inspector observed placement of pour number 77-85 in the Fuel Building exterior wall. Acceptance criteria examined by the inspector appear in the following documents:

- a. PSAR, Section 3.8.1 and 3.8.3
- b. QI's 10.2, 10.3, 10.6, 10.70, 10.71 and 15.1
- c. Flo-2998.473, EBASCO Specification Concrete

Forms were tight, clean and level; rebar was properly installed and clean. Placement activities pertaining to delivery time, free fall, flow distance, layer thickness and consolidation conformed to specifications. In-process tests for slump, air content, and cylinder molding were performed in accordance with procedure requirements. Batch plant forms indicated the specified mix was being delivered. Activities were continuously monitored by QC personnel. An examination of the batch plant indicated materials were being controlled and accurate batch records were being generated.

No deviations or violations were identified.

