



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

Report No. 50-389/82-52

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:

W. P. Kleinsorge
W. P. Kleinsorge

11/1/82
Date Signed

Approved by:

J. J. Blake
J. J. Blake, Section Chief

Engineering Inspection Branch

Division of Engineering and Technical Programs

11/1/82
Date Signed

SUMMARY

Inspection on October 19-22, 1982

Areas Inspected

This routine, unannounced inspection involved 28 inspector-hours on site in the areas of licensee action on previous enforcement matters, reactor vessel installation, safety related components, reactor coolant pressure boundary piping, safety related piping, inspector followup items, licensee identified items, and IE Information Notice 81-04 "Cracking in Main Steam Lines".

Results

No violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *B. J. Escue, Site Manager
- *J. B. Harper, Assistant Manager QA Jono
- J. L. Parker, Project QC Supervisor
- *R. A. Symes, Supervising QA Engineer
- *W. F. Jackson, Welding Superintendent
- P. P. Carier, Licensing
- J. W. Adams, QA Engineer
- W. H. Black, QA Engineer

Other licensee employees contacted included construction craftsmen, QC inspectors, security force members, and office personnel.

Other Organizations

- *J. C. Orłowski, CE-Licensing

- *Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on October 22, 1982, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed in detail the inspection findings listed below. No dissenting comments were received from the licensee.

(Open) Unresolved Item 50-389/82-52-01: "Installation Records" - paragraphs 6.b and 7.b.

3. Licensee Action on Previous Enforcement Matters

- a. (Closed) Violation 50-389/81-02-01: "Failure to Adequately Control NDE"

FP&L letter of response dated March 18, 1981, has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the site manager and examined the corrective actions as stated in the letter of response. The inspector concluded that FP&L had determined the full extent of the subject violation, performed the necessary survey and follow-up actions to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

- b. (Closed) Violation 50-389/81-02-02: "Failure to Properly Annotate Inspection Requirements"

FP&L letter of response dated March 18, 1981 has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the site manager and examined the corrective actions as stated in the letter of response. The inspector concluded that FP&L had determined the full extent of the subject violation, performed the necessary survey and follow-up actions, to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

- c. (Closed) Violation 50-389/81-05-01: "Inadequate Measures to Control Preservation of Safety Related Materials & Equipment"

FP&L letters of response dated June 19, June 29, July 14, August 31, and December 28, 1981, have been reviewed and determined to be acceptable by Region II. The inspector held discussions with the site manager and examined the corrective actions as stated in the letter of response. The inspector concluded that FP&L had determined the full extent of the subject violation, performed the necessary survey and follow-up actions to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

- d. (Closed) Violation 50-389/81-05-02: "Inadequate Measures to Control Welding and Welder Qualification"

FP&L letters of response dated June 19, June 29, July 14, and August 31, 1981, have been reviewed and determined to be acceptable by Region II. The inspector held discussions with the site manager and examined the corrective actions as stated in the letter of response. The inspector concluded that FP&L had determined the full extent of the subject violation, performed the necessary survey and follow-up actions to correct the present conditions and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

- e. (Closed) Violation 50-389/81-16-01: "Inadequate Measures to Control Welding"

FP&L letter of response dated October 13, 1981, has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the site manager and examined the corrective actions as stated in the letter of response. The inspector concluded that FP&L had determined the full extent of the subject violation, performed the necessary survey and follow-up actions to correct the present

conditions, and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

- f. (Closed) Violation 50-389/81-25-01: "Failure to Test Welder Qualification Test Assemblies in Accordance with ASME Section IX"

FP&L letter of response dated February 25, 1982, has been reviewed and determined to be acceptable by Region II. The inspector held discussions with the site manager and examined the corrective actions as stated in the letter of response. The inspector concluded that FP&L had determined the full extent of the subject violation, performed the necessary survey and follow-up actions to correct the present conditions, and developed the necessary corrective actions to preclude recurrence of similar circumstances. The corrective actions identified in the letter of response have been implemented.

- g. (Closed) Unresolved Item 50-389/81-16-02: "Lead Letter B"

This item concerned the licensee's lack of specific instructions for the placement of the lead letter "B" on the back of radiographic film for the detection of unacceptable back scatter. The licensee has trained the radiographic personnel in the proper placement of the lead letter "B", and documented the same in US Testing Memo dated September 9, 1981. The inspector has no further questions in this area.

- h. (Closed) Unresolved Item 50-389/81-25-06: "Marking"

This item concerns extraneous marking on installed safety related stainless steel tanks and piping. The licensee has controls for extraneous markings in QI 9.8 revision U, "General inspection of insulation and surface preparation, paragraph 5.1.1 and QI 10.78 revision 1, "Integrity Testing Inspection", paragraph 5.2.5.1. The inspector has no further questions in this area.

- i. (Closed) Unresolved Item 50-389/81-25-07: "PM Requirements"

This item concerned the undefined responsibility for preventative maintenance of safety related components. The licensee has identified preventative maintenance responsibility in FP&L Letter L-82-63. The inspector determined that no damage was caused to safety related components during the period of undefined responsibility. The inspector has no further questions in this area.

- j. (Closed) Unresolved Item 50-389/82-13-02: "Material Identification Conflict"

This item concerns conflicts between Material Identification marking on materials, and the material identification on weld travelers. The inspector discussed the above with the licensee. The licensee informed the inspector that the above discrepancies would be corrected during the reverification of weld travelers. The inspector has no further questions in this area.

- k. (Closed) Unresolved Item 50-389/82-35-01: "Non Retrievable CMTRs"

This item concerns unavailable welding filler material Certified Material Test Reports (CMTR). The licensee retrieved the CMTRs in question. The inspector reviewed the same, and has no further questions in this area.

- l. (Closed) Unresolved Item 50-389/82-35-02: "Misspecification of Applicable Code"

This item concerns the misspecification of the applicable code for a portion of the main steam system, on two drawings. The licensee determined that the above were isolated examples and resulted in no misinspection. The drawings have been corrected. The inspector has no further questions in this area.

4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or may involve violations or deviations. New unresolved items identified during this inspection are discussed in paragraph Nos. 6.b and 7.b.

5. Independent Inspection Effort

The inspector conducted a general inspection of auxiliary and containment buildings to observe construction progress and construction activities such as welding, material handling and control, housekeeping and storage.

Within the areas examined no violations or deviations were identified.

6. Reactor Vessel Installation

The inspector reviewed procedures, made a physical inspection of the installed reactor vessel and reviewed quality records to ascertain whether procedures, field activities, and records pertaining to the installation of the reactor vessel are consistent with NRC requirements, applicable codes standards and commitments.

a. Observation of Work and Work Activities (50053B)

The inspector reviewed FP&L Procedure SQP-32, revision 4 and the associated inspection records pertaining to the installation of the reactor vessel, to determine whether work procedures were followed; whether installation was in accordance with procedures and specifications; and whether inspection (QC) procedures were followed.

b. Review of Quality Records (50055B)

The inspector reviewed the records indicated above to determine whether work and inspection records confirm that the installation of the reactor vessel was in accordance with specifications and work procedures.

With regard to the inspection above, the inspector noted that the documentation for sequence hold point No. 8.1.5 to SQP 32 appears to be, in fact, documentation for sequence No. 8.1.6 (8.1.6 is not indicated as a hold point). The licensee indicated that he would look further into the above matter. The above is part of unresolved item 50-389/82-52-01 discussed further in paragraph 7.b.

Within the areas examined no violations or deviations were identified.

7. Safety Related Components

The inspector reviewed procedures, made physical inspections of installed safety related components, and reviewed quality records to ascertain whether procedures, field activities, and records pertaining to the installation of safety related components were consistent with NRC requirements, applicable codes standards and commitments.

a. Observation of Work and Work Activities (50073B and 50074B)

The inspector reviewed FP&L Procedure SQP-32, revision 4, and the associated inspection records pertaining to the placement and mounting of the 2A and 2B steam generators, the 2 pressurizer, and the 2B2 reactor coolant pump to determine whether work met applicable requirements.

b. Review of Quality Records (50075B and 50076B)

The inspector reviewed the records indicated above to determine whether required scope of inspection performed and recorded; whether records confirm that specifications and installation procedures were met, and whether cleanliness requirements were adhered to.

With regard to the inspection above the inspector noted the following:

- The record of the vertical distance required by SQP-32 sequence No. 13.3.4 for the 2A2 and 2B2 reactor coolant pumps was not available during this inspection.
- The records for the SQP-32 sequence holdpoint No. 7.1.12 for 2B steam generator was not available during this inspection.
- Documentation of waiver for both steam generators for SQP-32 sequence hold point 7.1.14 was not available during this inspection.

Pending an acceptable NRC review of the above unavailable documents and the item discussed in paragraph 6b, this matter will be identified as unresolved item 50-389/82-52-01: "Installation Records".

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

8. Reactor Coolant Pressure Boundary Piping

The inspector observed non-welding and welding work activities for reactor coolant pressure boundary (RCPB) piping. The applicable code for the installation of RCPB piping is the ASME B&PV Code, Section III, Subsection NB, 1977 Edition through the summer 1977 Addenda.

a. Non-Welding Activities Work Activities (49053B and 49054B)

The inspector examined records of nondestructive examinations to determine whether performance of prescribed NDE activities; calibration and use of proper measuring and test equipment; and qualifications of NDE personnel, met requirements. Records reviewed were as follows:

Post Cold Hydro Liquid Penetrant Examination

<u>Inspection Report No.</u>	<u>System</u>
M 82-1545	Reactor Coolant
M 82-1550	" "
M 82-1555	" "
M 82-1560	" "

Post Cold Hydro Magnetic Particle Examination

<u>Inspection Report No.</u>	<u>System</u>
M 82-1565	Reactor Coolant
M 82-1570	" "

Preweld End Preparation Liquid Penetrant Examination

<u>Weld No.</u>	<u>System</u>
RC-0176 FW-025	Reactor Coolant
SI-0123 FW-006	Safety Injection
SI-0123 FW-007	" "
SI-0123 FW-013	" "

b. Welding Activities

Welding Filler Material Control (55172B)

The inspector reviewed the FP&L program for control of welding material to determine whether materials are being purchased, accepted, stored, and handled in accordance with QA procedures and applicable code requirements. The following specific areas were examined:

- Purchasing procedures, receiving, storing, distributing and handling procedures, material identification, and inspection of welding material issuing stations
- Welding material purchasing and receiving records for the following materials were reviewed for conformance with applicable procedures and code requirements:

<u>Type</u>	<u>Size</u>	<u>Material ID Code</u>	<u>Application</u>
E-7018	1/8"	0083	RCPB/SR
E-7052	1/8"	0182	RCPB/SR
ER-308	1/8"	0106	RCPB/SR
ER-308	3/32"	0100	RCPB/SR
E-70S3	0.045"	0151	RCPB

RCPB - Reactor Coolant Pressure Boundary
SR - Safety Related (outside RCPB)

Within the areas examined no violations or deviations were identified.

9. Safety-Related Piping

The inspector observed non-welding and welding work activities for safety-related piping as described below to determine whether applicable code and procedure requirements were being met. The applicable code for safety-related piping is the ASME B&PV Code, Section III, Subsections NC and ND, 1977 Edition with addenda through summer 1977.

Welding Material Control (55182B)

Welding filler material control is discussed in paragraph 8.

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

10. Inspector Followup Items

- a. (Closed) Item 50-389/82-13-03: "Nonretrievable Installation Records"

This item concerns unavailable component installation records. The licensee has retrieved the above. The inspector has no further questions in this area.

- b. (Closed) Item 50-389/82-35-03: "Document Discrepancies"

This item concerns document discrepancies which the licensee has corrected. The inspector has no further questions in this area.

11. Licensee Identified Items

- (Closed) Item 389/80-03-02 "Defective Stud Welds" (10 CFR 50.55(e))

On March 20, 1980, the licensee notified IE:II of a 50.55(e) item concerning defective stud welds on eight door frames. The final report was submitted on December 31, 1981. The report has been reviewed and determined to be acceptable by IE:II. The inspector held discussions with responsible licensee and/or contractor representatives, reviewed supporting documentation, and observed representative samples of work to verify that the corrective actions identified in the report have been completed.

12. IE Information Notice No. 81-04: "Cracking in Main Steam Lines"

The licensee reviewed the above information notice and determined that it did not apply to St. Lucie Unit 2. The inspector inspected in this area and concurs with the above determination.