



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

Report No. 50-389/82-60

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

Facility Name: St. Lucie

Docket No. 50-389

License No. CPPR-144

Inspection at St. Lucie site near Fort Pierce, Florida

Inspector: *W. P. Weinsorge*
 W. P. Weinsorge

Jan 5, 1983
 Date Signed

Approved by: *J. J. Blake*
 J. J. Blake, Section Chief
 Engineering Program Branch
 Division of Engineering and Operational Programs

1/6/83
 Date Signed

SUMMARY

Inspection on November 16-19, 1982

Areas Inspected

This routine, unannounced inspection involved 27 inspector-hours on site in the areas of licensee action on previous enforcement matters, construction progress, spent fuel storage racks (50095B), safety related components (50073B, 50074B, 50075B and 50076B), licensee identified items (50.55(e)), and inspector followup items.

Results

Of the six areas inspected, no violations or deviations were identified in five areas; one violation was found in one area (Violation - "Failure to Properly Inspect Socket Welds" - paragraph 3b). No deviations were found.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *B. J. Escue, Site Manager
- *J. L. Parker, Project QC Supervisor
- *R. A. Symes, Supervising QA Engineer
- *W. F. Jackson, Welding Superintendent
- *P. P. Carrier, Licensing
 - E. W. Sherman, QA Engineer
 - J. W. Adams, QA Engineer
 - J. R. Luke, QA Engineer

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

Other Organizations

- *J. C. Orłowski, CE-Licensing
 - NRC Resident Inspector
 - *S. A. Elrod, Senior Resident Inspector
 - *H. E. Bibb, Resident Inspector
- *Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on November 19, 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) Violation 389/82-60-01: "Failure to Properly Inspect Socket Welds" - paragraph 3b

(Open) Unresolved Item 389/82-60-02: "Fuel Assembly Separation" - paragraph 6

(Open) Unresolved Item 389/82-60-03: "Unavailable Welding CMTRs" - paragraph 7b(3).

3. Licensee Action on Previous Enforcement Matters

a. (Closed) Violation 389/82-28-01: "Inadequate Measures to Control Welding"

FP&L letter of response dated August 24, 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 noncompliance, 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) Unresolved Item 389/82-13-01: "Misinspection of Pipe Welds"

IE Report No. 82-13 closed unresolved item No. 389/81-02-03, 389/81-19-01, 389/81-25-04 and 389/82-07-04 as individual items and made them examples of a new unresolved item 389/82-13-01. The above items concerned failure to inspect in accordance with procedures in the areas of undersize socket welds and marking of socket welds. IE Report No. 82-13 further stated that 389/82-13-01 would be evaluated for significance upon completion of a licensee reinspection of socket welds. As a result of the reinspection, the licensee has reconsidered the significance of the problem, and on August 13, 1982 reported a potential deficiency under the requirements of 10 CFR 50.55(e) concerning undersize socket welds. The above unresolved item and inspector followup item 389/82-20-02 discussed further in paragraph 9 are closed as unresolved and inspector followup items and opened as violation 389/60-01: "Failure To Properly Inspect Socket Welds".

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 paragraphs 6a and 7b(3).

5. Independent Inspection Effort

Construction Progress

The inspector conducted a general inspection of the fuel building and the auxiliary building 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. Spent Fuel Storage Racks (50095B)

The inspector reviewed procedures, made a physical inspection of the installed spent fuel storage racks and reviewed quality records, to ascertain whether field activities pertaining to the NRC requirements, applicable codes, standards and commitments.

a. Review of Procedures

The inspector reviewed the below listed documents to ascertain whether specifications, drawings, work instructions and inspection procedures had been established to assure the technical adequacy of the following activities pertaining to spent fuel storage racks.

- Procurement
- Receipt Inspection
- Storage
- Installation

<u>DOCUMENT</u>	<u>TITLE</u>
SQP-11, Rev. 3,	"Procurement"
SQP-3, Rev. 7,	"Material Control"
QI-7.1, Rev. 4,	"Instructions for Receiving Inspection of Seismic or Safety Related Material"
SQP-23, Rev. 1,	"Preventative Maintenance"
QP-18.1, Rev. 5,	"Conduct of Quality Assurance Department Quality Audits"
PAR CP-3046-1 Rev. 0	"Fuel Module & Installation & Tool Check Out Procedure"
PAR Drawings AD-22911-E Rev. 1 Sheet 1, 2, & 3	"Module Assembly and Details 14.0 Centers"
EBASCO-FLO-2998-756 Rev. 1	"Spent Fuel Storage Racks Seismic Category I Non Nuclear Safety Class"

With regard to the inspection above, at the time of this inspection, it could not be determined whether the minimum spent fuel assembly center to center distance would be maintained during a seismic event, between two adjacent fuel assemblies in two adjacent spent fuel storage racks.

The licensee indicated that they would review the matter further. The inspector stated that pending NRC evaluation of the licensee's review the above matter will be identified as unresolved item 389/82-60-03: "Fuel Assembly Separation."

b. Observation of Work and Work Activities

The inspector examined the spent fuel storage racks in place after installation to verify that procedural requirements had been met in the following areas:

- Appearance and size of welds (on a sampling basis).
- Cleanliness. - Configuration of the spent fuel racks relative to the assembly drawings.
- Obvious defects such as cracks, dents and missing parts.
- Identification
- Proper location and orientation.
- Seismic restraints in place and gapped.
- No apparent damage to the racks or spent fuel pool during installation.
- Work performed in accordance with approved procedures.
- Adequate QC inspection coverage.

c. Review of Quality Records

The inspector reviewed receiving inspection records, material certification documentation storage inspection records and procurement records to verify that procurement, receipt inspection and storage of the spent fuel storage racks was consistent with NRC requirements, applicable codes, standards and commitment.

Within the area 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 made a physical inspection of the below listed components and pertinent records, to determine whether storage handling and protection; installation; and protection after installation activities were accomplished consistent with applicable requirements.

Components

High Pressure Safety Injection Pump 2B
Serial No. 14210016

Charging Pump 2A
Serial No. N732246-601

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

- (1) The inspector reviewed pertinent records for the components listed in paragraph 7a to determine whether those records reflected work accomplishment consistent with applicable requirements in the following areas: storage inspection, installation inspection, material and fabrication certification/test reports and, nonconformance/deviation reports.
- (2) The inspector reviewed the material and fabrication certification /test reports for the below listed components to determine the following:
 - Records confirm that components met quality requirements - including specifications, manufacturing requirements and specified qualification testing
 - Records identification correlate with component identification
 - A certification system, if used, meets NRC requirements

Components

Pressurizer - Serial No. 71372

Steam Generator 2B - Serial No. 71272-2

- (3) With regard to the inspection above, the welding filler metal certified material test reports (CMTRs) were not available at the time of this inspection for the 2B steam generator, the pressurizer and the 2A charging pump. The licensee indicated that they would look into the matter. The inspector stated that pending NRC review of the unavailable CMTRs this matter would be identified as unresolved item 389/82-60-02: "Unavailable Welding CMTRs".

Within the areas examined no violations or deviations were identified.

8. Licensee Identified Items (50.55(e))

New 50.55(e) Items

(Closed) Item 389 CDR 81-006: "Indications In End Prep of Valve"

Florida Power & Light Company on November 17, 1981 notified the Region II Office of Inspection and Enforcement of a potential 10 CFR 50.55(e) incident regarding indications in the end prep of the valve I-MV-08-1A. After the initial notification and prior to this inspection the licensee stated that this condition was not considered significant and thus not reportable. This inspector reviewed/inspected the applicable deficiency reports, evaluation and the item in question. Based on the above review and inspection this inspector concurs that the item is not reportable.

(Closed) Item 389 CDR 82-004: "Steam Generator 2A-One Inch Nozzles"

On February 17, 1982 Florida Power and Light Company notified the Region II Office on Inspection and Enforcement of a potential 10 CFR 50.55(e) incident regarding steam generator 2A one inch nozzles. After the initial notification and prior to this inspection, the licensee stated that this condition was not considered significant and thus not reportable. This inspector reviewed/inspected the applicable deficiency reports and evaluation fo the items in question. Based on the above review and inspection this inspector concurs that the item is not reportable.

9. Inspector Followup Items

(Closed) Item 389/82-20-02: "Undersize Fillet Welds and Improper Thickness Transformation on Piping"

The above item is closed as an inspector followup item and opened as an example of violation 389/82-60-01 discussed further in paragraph 3b.