



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

Report No. 50-389/82-41

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

Facility Name: St. Lucie 2

Docket No. 50-389

License No. CPPR-144

Inspection at St. Lucie 2 site near Ft. Pierce, Florida

Inspector: *J. W. York* *J. W. York* 9/8/82
 J. W. York Date Signed

Approved by: *J. J. Blake* *J. J. Blake* 9/8/82
for J. J. Blake, Section Chief Date Signed
 Engineering Inspection Branch
 Division of Engineering and Technical Programs

SUMMARY

Inspection on August 24-27, 1982

Areas Inspected

This routine, unannounced inspection involved 23 inspector-hours on site in the areas of safety-related pipe support and restraint systems, and seismic analysis for as-built safety-related piping systems (IE Bulletin 79-14).

Results

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *R. E. Bartz, Piping Director
- *W. Jackson, Welding Superintendent
- *C. Carlo, Mechanical QC Supervisor
- *R. Symes, Supervising QA Engineer
- *E. Poarch, Service Superintendent
- *W. Gaines, Power Plant Engineering
- *J. Luke, QA Engineer
- *J. Orłowski, Licensing
- *G. Grace, Licensing

Other licensee employees contacted included construction craftsmen and office personnel.

Other Organizations

- *P. Grossman, Assistant Project Engineer - EBASCO
- *M. Maier, Mechanical Design Supervisor - EBASCO
- *V. Barone, Lead Mechanical Engineer - EBASCO
- *R. Garramore, Senior Resident Engineer - EBASCO

NRC Resident Inspector

- *S. Elrod

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on August 27, 1982, with those persons indicated in paragraph 1 above. The licensee was informed of the inspection findings listed below. The licensee acknowledged the inspection findings with no dissenting comments.

Inspector Followup Item, 389/82-41-01, Hanger Removal Authorization, paragraph 5.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Safety Related Pipe Support and Restraint Systems (50090)

The inspector observed the attributes described below for safety related pipe support and restraint systems to determine whether these supports/restraints were being constructed in accordance with regulatory requirements and licensee procedures.

- No deformation or forced bending is evident.
- No deterioration, or corrosion is evident.
- Bolts, nuts, washers and fasteners are tight and secure.
- Seals are not deteriorated (for snubbers).
- Connecting joints, moving parts, piston shafts, seals, etc., are free from foreign material such as cement, dropped paint, excessive dust and dirt or other material that may obstruct the operation for (snubbers).
- Where pipe clamps are used to support vertical lines, shear lugs welded to the pipe are provided (if specified) to provide slippage.
- Movements of pipe due to vibration, expansion, travel, etc., will not cause contact or rubbing of pipe or supports with other pipes, supports or other equipment or components.

Visual inspections for these attributes were performed on four dynamic hangers/restraints and on three fixed supports/restraints with spring cans. These hangers/restraints inspected are as follows:

Dynamic Pipe Hanger/Restraints

- a. Hanger/Restraint No. MS-410-287B with snubber size 35 and located in the Main Steam System
- b. Hanger/Restraint No. MS-4102-284 with snubber size 15 and located in the Main Steam System
- c. Hanger/Restraint No. RC-4300-53B with snubber size 3 and located in the reactor coolant system
- d. Hanger/Restraint No. RC-55-R7 with snubber size 1/4 and located in the reactor coolant system

Fixed Pipe Hangers/Restraints

- a. Hanger/Restraint No. CH-2081-55 with spring can size 2 and located in the Chemical and Volume Control System
- b. Hanger/Restraint No. CH-2081-50 with spring can size 2 and located in the Chemical and Volume Control System
- c. Hanger/Restraint No. SI-74-R6 with spring can size 4 and located in the Safety Injection System.

In addition to the visual examinations performed, a reinspection was performed by the inspector and licensee QC personnel on six hangers/restraints on which a "final" inspection had been performed by the licensee. The completed hangers/restraints that were reinspected are as follows:

- a. Hanger/Restraint No. MS-4102B-1902-R1 in the Main Steam System
- b. Hanger/Restraint No. BF-3020-119B in the Boiler Feed System
- c. Hanger/Restraint No. CW-3001-437 in the Circulating Water System
- d. Hanger/Restraint No. CH-2135-22 in the Chemical and Volume Control System
- e. Hanger/Restraint No. CS-39-R6 in the Containment Spray System
- f. Hanger/Restraint No. VSI-14-R3 in the Safety Injection System

The inspector reviewed FP&L procedure QI 10.18, "Piping System Configuration Inspection." The inspector discussed with the licensee the fact that none of the procedures reviewed during this or previous inspections addressed the method for disassembling hangers/restraints that have had a "final" QC inspection. The licensee agreed to change the appropriate site procedure to include an authorization form for disassembling a finished hanger/restraint. This authorization form will include a copy to the QC group to alert this group that the hanger/restraint must be reinspected. Until this site procedure is changed, this will be Inspector Followup Item 389/82-41-01, Hanger Removal Authorization.

The inspector reviewed FP&L procedure QP18.1, "Conduct of Quality Assurance Department Quality Audits." The inspector then reviewed an audit that had been conducted using this procedure. Audit number 82-06, "Control of Mechanical Assembly Activities," partially covered by QC hanger/restraint inspections.

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

6. IE Bulletin 79-14, Seismic Analysis for As-Built Safety-Related Piping Systems (25529)

The inspector reviewed the licensee's program plan for implementing the requirements for IE Bulletin 79-14, "Stress Analysis Design Verification of Seismic Class I Piping." This program is being conducted for the licensee by an EBASCO group consisting of 15 people. The program is being conducted in two inspection phases (two walkdowns). There are 600 isometric - inspection packages of which 559 have had an initial inspection. The licensee stated that 552 inspections have been reviewed with 304 of the packages being sent back for reinspection. Once an inspection package or system is verified as 90 percent or better completed, the package may be sent on to an EBASCO stress analysis group for evaluation. This group has received 120 inspected packages that had been previously computer analyzed and have approved 103 and sent 11 to EBASCO's New York office for reanalysis by computers. The group has received 73 inspected packages that had been previously chart analyzed and have approved 54 of these packages and sent 7 to the EBASCO New York office for reanalysis.

The inspector walked down portions of the following isometrics with inspectors from the ESSE 79-14 program group:

- (a) Isometric No. SI-N-16 in the Safety Injection System
- (b) Isometric No. SI-12-149 in the Safety Injection System

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