



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report No. 50-389/82-23

Licensee: Florida Power and Light Company
P. O. Box 529100
Miami, FL 33152

Facility Name: St. Lucie

Docket No. 50-389

License No. CPPR-144

Inspection at St. Lucie site near Fort Pierce, Florida

Inspector: *T. E. Conlon for* 6-18-82
W. H. Miller, Jr. Date Signed

Approved by: *T. E. Conlon* 6-18-82
T. E. Conlon, Section Chief Date Signed
Engineering Inspection Branch
Division of Engineering and Technical Programs

SUMMARY

Inspection on May 25-28, 1982

Areas Inspected

This routine, unannounced inspection involved 23 inspector-hours on site in the areas of fire protection/prevention.

Results

Of the areas inspected, no violations were identified, however one deviation was identified (Failure to fully implement QA requirements of QP2.12, Paragraph 5).

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *B. J. Escue, Site Manager
- *G. Crowell, Site Engineering Supervisor
- *N. T. Weems, Superintendent, QA
- D. R. Cooper, Supervising QA Engineer
- *E. W. Sherman, QA Engineer
- J. W. Adams, QA Engineer
- *P. Carrier, EPP Licensing
- S. Parker, QC Supervisor
- C. Carnett, QC, Electrical
- S. Reuwer, Piping Engineer

Other Organizations

- *R. A. Garramore, Sr. Resident Engineer/EBASCO
- *G. H. Krauss, ESSE/EBASCO
- G. Maxwell, Materials Supervisor/EBASCO
- J. Capezza, Electrical Resident Engineer/EBASCO
- W. E. Stitt, Construction Electrical Supervisor/EBASCO

NRC Resident Inspectors

- S. Elrod
- *H. Bibb

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on May 28, 1982, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

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 5.

5. Fire Protection Quality Assurance Program

The inspector reviewed the QA/QC program being applied to the installation of the permanent fire protection systems. In general, the fire protection systems are considered by the licensee to be balance of plant systems and thus do not receive any more additional special attention than other balance of plant systems. FPL's NRC approved Topical Report Appendix E refers to FPL's QA Manual Procedure QP2.12 as the document identifying the QA program to be applied to the fire protection systems. However, local site procedures had not been prepared to implement Procedure QA2.12.

The fire detection system for the diesel generator building and fire hose system for the auxiliary building were evaluated to determine what QA/QC controls were actually being provided. It was found that cable pull cards were prepared by the construction group for the cables to the detection devices but the cable pulls were not verified by a QC inspector. Construction tests of the wiring were accomplished by a construction test engineer but QC verification was not provided. The licensee stated that the completed systems are to be functionally tested by the startup and test group prior to acceptance. The piping installation for the fire hose system had not been verified by QC; however, all pipe welds and all hangers were to be inspected by QC. The hydrostatic and flushing tests are to be witnessed by the construction test group. None of the fire protection components received a QA/QC receipt inspection, but these components were inspected by warehouse personnel to verify conformance to the purchase documents.

The licensee's failure to implement a site QA fire protection program which conformed to Procedure QP2.12 as referenced in the approved QA Topical Report is identified as Deviation Item (389/82-23-01), Failure to fully implement the QA requirements of QP2.12.

In reviewing the interior fire hose system the inspector noted that this system is designed and is being installed to meet provisions of ANSI B31.1, Power Piping in lieu of National Fire Protection Association (NFPA) Standard 14, Standpipe and Hose Systems, as committed by FSAR Appendix 9.5.A, Section 7, Item E.3(d). The control and sectional valves for the system do not appear to be approved for fire service as required by NFPA 14, Section 625. Also, the connection to the underground supply pipe did not appear to be properly restrained as required by NFPA 14, Section 631 and NFPA 24, Outside Protection, Section 96 and Figure 96-39. The licensee was requested during the exit interview to review the design and installation of the fire hose system to verify that the system will conform to NFPA 14. This item is identified as Unresolved Item (389/82-23-02), Evaluation of interior fire hose system by licensee to verify that system conforms to requirements of NFPA 14, and will be reviewed during a subsequent NRC inspection.

Within the areas examined, no violations were identified and no additional deviations, except as noted above were identified.