



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

Report No. 50-302/79-10

Licensee: Florida Power Corporation  
P. O. Box 14042, Mail Stop C-4  
St. Petersburg, Florida 33733

Facility Name: Crystal River Unit 3

Docket No. 50-302

License No. DPR-72

Inspection at Crystal River Site near Crystal River, Florida  
Corporate Offices at St. Petersburg, Florida

Inspector: A. L. Cunningham 4/10/79  
A. L. Cunningham / Date Signed

Approved by: J. W. Hufham 4/10/79  
J. W. Hufham, Section Chief, FF&MS Branch / Date Signed

SUMMARY

Inspection on March 13-16, 1979.

Areas Inspected

This routine unannounced inspection involved 28 inspector-hours on site in the areas of management and administrative controls; environmental surveillance; review of previous inspection findings; followup on licensee event reports; chemical-industrial waste water treatment system; special surveillance studies. Inspection involved 24 inspection-hours onsite by one NRC inspector.

Results

Of the six areas inspected, no apparent items of noncompliance or deviations were identified in five areas; one apparent item of noncompliance was found in one area (deficiency: ecological monitoring - Details I, paragraph 8.)

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## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*G. P. Beatty, Nuclear Plant Manager
- \*P.E. McKee, Technical Services Superintendent
- \*R. M. Bright, Nuclear Support Specialist
- \*J. R. Wright, Chemical Radiological Engineer
- \*R. E. Fuller, Chemical Radiological Engineer
- \*J. Cooper, Jr., Compliance Engineer
- G. Williams, Compliance Engineer
- J. F. Studt, Environmental Scientist

\*Attended exit interview.

### 2. Exit Interview

The inspection scope and findings were summarized on March 16, 1979, with those persons indicated in Paragraph 1 above. The item of noncompliance listed herein was discussed.

### 3. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance (50-302/77-26-1): Failure to implement following requirements in annual audit: (1) implementation of environmental monitoring and surveillance programs; (2) conformance of such programs with procedures and environmental Technical Specifications requirements; (3) contractor activities associated with such programs. Inspection disclosed that the 1978 Annual Environmental Audit was apparently conducted in conformance with Appendix B Technical Specification 5.3.

(Open) Noncompliance (50-302/77-26-2): Failure to review and approve procedures utilized by contractors to implement nonrad monitoring programs defined in Section 3 of Appendix B Technical Specifications.

### 4. Unresolved Items

Unresolved Items were not identified during this inspection.

### 5. Administrative Controls

- a. Section 5.0 of Appendix B Technical Specifications charges the licensee with responsibility for establishment, execution and review of programs to administer the Environmental Technical

Specifications (ETS). This section further requires detailed written operating procedures and the establishment of organizational and administrative procedures that will provide for management review and independent audit functions to assure implementation of the ETS. The inspector reviewed organizational responsibility for implementation of environmental monitoring, surveillance, and special studies programs defined in Appendix B Technical Specifications. Review of FPC Corporate Environmental Department functions, and detailed discussions with licensee representatives disclosed that program responsibilities appeared consistent with those requirements defined in the ETS.

- b. Appendix B Technical Specification 5.3 requires the licensee to conduct an annual audit which includes the following: (1) implementation of environmental monitoring and surveillance programs imposed by the Environmental Specifications; (2) conformance to procedures and Environmental Technical Specification requirements; (3) contractor operations. The inspector reviewed the licensee's Environmental Audits Nos. 100, 101, 102, 103, 104, and 105 conducted June 7-23, 1978. In the order cited, the audits addressed the following contractors and program activities: NUS Corporation; Connell, Metcalf and Eddy Consultants; University of Florida (Dr. Odum); University of Florida (Dr. Bloch); radiological monitoring and surveillance; and the FPC Environmental Affairs Division, respectively. Inspection also included a detailed review of all violations documented in the licensee Audit Reports, and verification of all corrective actions implemented and the formal closures of such findings. There were no questions regarding this item.
  
- c. The inspector reviewed detailed written procedures for nonradiological monitoring and surveillance requirements defined in Sections 2, 3 and 4 of Appendix B Technical Specifications. Inspection also included verification of licensee approval of their contractors and consultants environmental procedures. Such approval was required to implement the licensee's corrective actions committed to in response to Noncompliance Item 50-302/77-26-2 disclosed during the previous Environmental protection inspection (50-302/77-26). All of the licensee's contractors' procedures were not available for inspection and verification. The inspector informed licensee representatives that the referenced item of noncompliance would remain open, until such time that their approval of all applicable environmental procedures could be verified.

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6. Chemical Industrial Waste Water Treatment System

Appendix B Technical Specification 3.1.5 requires monthly monitoring of the two wastewater ponds and adjacent test wells 1, 4, and 5 for pH and selected chemical parameters (viz., nutrients, dissolved solids, and trace metals). Review and audit of monthly analytical data disclosed that the subject requirement was implemented as defined. The licensee's analytical quality control program was reviewed and audited during the previous environmental protection inspection (50-302/77-26).

7. Special Surveillance Research

The inspector audited implementation of special surveillance studies defined in Appendix B Technical Specifications 4.1 through 4.3 for the period December 1977 through February 1979. The studies included thermal plume determinations during Unit 3 operations, intake velocity determinations, and erosion in the discharge system, respectively. Inspection disclosed that the subject specifications were implemented as required. The special study on intake velocity was completed. There were no questions regarding this item.

8. Environmental Surveillance

Implementation of Appendix B Technical Specifications 3.1.1 through 3.1.4 during the period December 1977 through February 28, 1979, was audited by the inspector. Operational nonrad surveillance studies included benthos, marsh grass (biomass, productivity, respiration), intake screens impingement, and the general ecological survey, respectively. Inspection disclosed that monitoring of oxygen saturation in the outer bay and the canals (intake and discharge) was not consistently implemented at the frequency assigned by Appendix B Technical Specifications 3.1.4a and 3.1.4b. The subject specifications require measurement of oxygen saturation within the assigned zones twice monthly at dusk and dawn. Review of records disclosed canal monitoring was incomplete during January and June, 1978. The review also disclosed that outer bay monitoring was not implemented as required during January, February, April, and June, 1978. The inspector informed licensee representatives that failure to implement the referenced specifications, as required, constituted an item of noncompliance. A licensee representative stated that appropriate corrective actions would be implemented to assure that the subject monitoring requirements would be met.

9. Followup of Licensee Event Reports

The inspector reviewed and discussed with licensee representatives all nonrad events reported to NRC during the period December 1977 through March 16, 1979. The reportable events included the following:

(1) fish impingement - ETS-3.1; (2) thermal discharge - ETS-2.1.2; (3) thermal plume verification studies (ETS-4.1). Inspection disclosed that in all cases, appropriate corrective actions were implemented, and efforts to preclude recurrences were taken. These events have been closed out. There were no further questions regarding this item.

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