



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

MAY 23 1984

Report No.: 50-348/84-13 and 50-364/84-13

Licensee: Alabama Power Company  
600 North 18th Street  
Birmingham, AL 35291

Docket No.: 50-348 and 50-364

License No.: NPF-2 and NPF-8

Facility Name: Farley 1 & 2

Inspection at Farley site near Dothan, Alabama

Inspector:

G. B. Kuzal

5-22-84

Date Signed

Approved by:

D. M. Montgomery  
D. M. Montgomery, Section Chief  
Emergency Preparedness and Radiological Safety  
Branch  
Division of Reactor Safety and Safeguards

5-22-84

Date Signed

SUMMARY

Inspection on April 30 - May 3, 1984

Areas Inspected

This routine unannounced inspection involved 27 inspector-hours on site in the areas of gaseous and liquid waste systems, radiological effluent accountability, and reactor coolant and secondary water requirements.

Results

Of the three areas inspected, no violations were identified.

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REPORT DETAILS

## 1. Persons Contacted

- \*W. G. Hairston, Plant Manager
- C. Nesbitt, Technical Superintendent
- \*W. R. Bayne, Chemistry and Environmental Supervisor
- \*M. W. Mitchell, Health Physics Supervisor
- D. Grissette, Counting Room Foreman
- \*P. F. Farnsworth, Health Physics Sector Supervisor

NRC Resident Inspector

\*W. H. Bradford

\*Attended exit interview.

## 2. Exit Interview

The inspection scope and findings were summarized on May 4, 1984, with those persons indicated in Paragraph 1 above. Two IFI's, concerning waste monitor instrumentation (Paragraph 6) and management response to IE Notice 84-22 (Paragraph 7) were discussed with licensee representatives. Licensee management representatives acknowledged the inspector's comments and expressed no contrary opinions.

## 3. Audits (84723B, 84724B)

Technical Specification 6.5.2.8 requires audits shall be conducted under the direction of the APCO's Manager-Operations Quality Assurance to determine conformance of facility operation to provisions contained within Technical Specifications and applicable license conditions at least once per 12 months. The inspector reviewed the "Environmental Monitoring, Routine Audit", dated March 12, 1984. The inspector reviewed audit item checklists and noted that Technical Specifications details and established procedures for effluent monitoring were included in the review. No items of noncompliance were identified for the effluent monitoring program. The inspector reviewed the 1983 INPO Evaluation Report - Farley Nuclear Plant Alabama Power Company dated June 1983. No significant findings in the area of radioactive effluent measurements and processing were reported. The inspector discussed audit results and informed cognizant licensee representatives that the audits for the radiological effluent area were adequate.

## 4. Procedures (84723B, 84723B)

Technical Specification 6.8.1 requires written procedures to be established, implemented and maintained covering the applicable procedures recommended in Appendix "A" of Regulatory Guide 1.33, Rev. 2, 1978. The inspector reviewed selected portions of the following procedures:

- (1) FNP-O-CCP-101 Schedule, Chemistry and Water Treatment Plant Activities, Rev. 12, November 15, 1983.
- (2) FNP-O-CCP-102 Water Chemistry Specifications, Rev. 11, November 17, 1983.
- (3) FNP-O-RCP-704 Secondary Water Chemistry Program, Rev. 1, June 21, 1981.
- (4) FNP-O-RCP-705 Liquid Waste Release Program, Rev. 2, December 14, 1983.
- (5) FNP-O-RCP-706 Gaseous Waste Release Program, Rev. 2. August 25, 1983.
- (6) FNP-O-RCP-709 Administrative Management of Radioactive Liquids in FNP Systems, Rev. 1, March 9, 1983.
- (7) FNP-O-RCP-711 Preparation of Composite Effluent Samples, Rev. 1, April 1, 1982.
- (8) FNP-O-RCP-717 Dose Equivalent Iodine-131 Determination, Rev. 2, September 9, 1982.
- (9) FNP-O-RCP-719 Determination of Average Energy Per Disintegration for a Mixture of Radionuclides in Reactor Coolant, Rev. 1, June 16, 1982.
- (10) FNP-O-RCP-732 Operation of the Plant Vent Stack Monitoring System, Rev. 0, April 9, 1984.

The inspector noted that data reduction procedures for the determination of Xe-133 Dose Equivalent estimates for the Gas Decay Tanks utilized selected programs in the counting room computer system. The inspector discussed with cognizant licensee representatives the need for improvement in the procedure to allow manual calculations of this effluent system parameter for proper verification of the procedure and in the event of a computer system failure. Licensee representatives agreed to evaluate this area.

5. Records (84723B, 84724B)

a. The inspector reviewed selected portions of the following records:

- (1) Liquid Waste Permits, January - May 1984.
- (2) Gaseous Waste Reports, January - May 1984.
- (3) Total Flow Meters Nos. 2003259 & 2003255 Wet Test Meter Results, March 1984.
- (4) Calibration Records (1983) for Effluent Stream Process Monitors Units 1 & 2 including: R14, R15, R18, R21, R22, and R24.

- (5) Reactor Coolant Parameter Records for March - May 1984 including:
    - i. Iodine/Dose Equivalent Iodine
    - ii. Beta-Gamma Activity Levels
    - iii. Xenon Data Plot
    - iv. Iodine-131-135
    - v. Cs Data Plot
    - vi. RCS Fuel Cycle Plots
  - (6) Gaseous and Liquid Rad Effluent Dose Projection Plots, 1983-1984.
  - (7) Daily RCS Chemistry Report, December 1983 - May 1984.
  - (8) Daily Water Reports
  - (9) RCS Trend Charts for Hydrogen, Lithium and Boron, September 1983 - April 1984.
  - (10) Alabama Power Company Farley Nuclear Plant Semi-Annual Radioactive Effluent Release Report, January - December 1983.
- a. Technical Specification 3.4.8 details limits for Reactor Coolant System chemistry. The inspector noted there were no deviations or violations in this area.
  - b. Technical Specification 6.9.1.8 requires routine radioactive effluent release reports covering operation of the unit during the previous 6 months of operation shall be submitted within 60 days after January 1 and July 1 of each year. The inspector discussed the Semi-Annual Radioactive Effluent Release Reports with cognizant license representatives and noted that no abnormal releases nor anomalous data were reported.

6. Instrumentation (84723B, 84724B)

The inspector verified operability of radiological effluent process monitor instrumentation at the following areas: Condenser Air Ejectors, Plant Vent, Containment Purge, Liquid Waste Processing. The inspector noted that the gaseous effluent process monitors were equipped with the appropriately calibrated flow totalizers noted in Paragraph 7. The inspector noted that the R-18 Liquid Waste Processing Monitor for Unit 1 alarms continuously as a result of elevated radiation levels from contaminant accumulation in the system during normal releases. Licensee representatives informed the inspector that cognizant individuals were aware of the problem and appropriate surveys were conducted before and following normal waste discharges to ensure that discharge limits were not exceeded. Licensee representatives informed the inspector that the problem of radioactive contamination build up in the monitor would be evaluated and appropriate corrective action initiated. This item will be reviewed in a subsequent inspection (50-348/84-13-01, 50-348/84-13-01).

## 7. Information Notices (92717)

The inspector discussed the following Information Notices with cognizant licensee representatives:

- (1) IE Notice 82-49 "Correction for Sample Conditions for Air and Gas Monitoring". Plant representatives informed the inspector that effluent and environmental monitoring systems at FNP utilize Rockwell Domestic Gas Meters which are self-compensating for pressure differentials between the effluent streams and the offline sampling system. This closes a previously identified inspector following item (50-348/83-C6-01, 50-364/83-C6-01).
- (2) IE Notice 84-15 "Reporting of Radiological Releases" The inspector noted that licensee representatives have included the updated commercial NRC Operations Center telephone number into their procedures and would include the additional telephone numbers listed in the Notice in subsequent updates of applicable procedures.
- (3) IE Notice 84-22 "Deficiency in Comsip, Inc, Standard Bed Catalyst". A licensee representative informed the inspector that a plant position regarding this item had not been issued at the time of the inspection. The inspector informed the licensee that this would be considered an open item and would be reviewed during a subsequent inspection (50-348/84-13-02, 50-364/84-14-02).