



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

Report No.: 50-348/78-21

Docket No.: 50-348

License No.: NPF-2

Licensee: Alabama Power Company
Post Office Box 2641
Birmingham, Alabama 35291

Facility Name: Joseph M. Farley Nuclear Plant Unit 1

Inspection at: Farley Plant Site, Dothan, Alabama
Alabama Power Company, Birmingham, Alabama

Inspection Conducted: August 22-25, 1978

Inspector: A. L. Cunningham

Reviewed by:

J. W. Hufham
J. W. Hufham, Chief
Environmental and Special Projects Section
Fuel Facility and Materials Safety Branch

9/24/78
Date

Inspection Summary

Inspection on August 22-25, 1978 (Report No. 50-348/78-21)

Areas Inspected: Routine unannounced inspection of Appendix B Nonradio-
logical Environmental Protection Requirements including management
controls; environmental surveillance; special surveillance and studies;
annual and nonroutine reports; annual program audits; review of procedures.
Inspection involved 16 inspector-hours on site by one NRC inspector.
Results: Of the six areas inspected, no items of noncompliance or
deviations were disclosed.

DETAILS I

Prepared by:

A. L. Cunningham
A. L. Cunningham, Environmental Scientist
Environmental and Special Projects Section
Fuel Facility and Materials Safety Branch

9/26/78
Date

Dates of Inspection: August 22-25, 1978

Reviewed by:

J. W. Hufham
for: J. W. Hufham, Chief
Environmental and Special Projects Section
Fuel Facility and Materials Safety Branch

9/27/78
Date

1. Persons Contacted

J. D. Woodard, Assistant Plant Manager
W. G. Hairston, Plant Manager
M. W. Mitchell, Assistant Supervisor - Chemistry and Health Physics
D. L. Cox, Quality Assurance Engineer
W. R. Bayne, Chemistry and Health Physics Foreman
J. E. Hubbard, Supervising Engineer, Permits and Environmental Surveillance
D. C. Cole, Manager, Permits and Environmental Surveillance (PES)
C. McLain, Supervisor, PES
J. D. Grogan, Senior Aquatic Biologist
D. E. Miller, Manager - Environmental and Research Studies
T. G. Arnold, Manager - Environmental and Research Services

2. Licensee Action on Previous Inspection Findings

No previously identified inspection findings were outstanding.

3. Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance, or deviations. An unresolved item disclosed during the inspection is discussed in paragraph 5.b.

4. Management and Administrative Controls

- a. Section 5.0 of Appendix B to facility license NFP-2 defines administrative procedures and requirements of the Environmental Technical Specifications (ETS). This section provides a broad framework for implementation of the ETS and assures adherence to requirements of the ETS.

- b. Section 5.1.1 of the ETS assigns to the plant manager the following responsibilities: (1) assuring adherence to the thermal and chemical limiting conditions set forth in Section 2.0 of the ETS; (2) assuring that the site meteorological tower is operated consistent with requirements and objectives of Section 3.1.1(b)-3 of the ETS; (3) conduct of the visual fog monitoring program described in Section 3.1.1(b)-2 of the ETS. Review of records, data and reports, and discussions with licensee representatives disclosed that the above management requirements were implemented as assigned.
- c. Section 5.3.3 of the ETS requires that annual audits be conducted of activities performed by groups responsible for various portions of the environmental monitoring program. The inspector reviewed and discussed with licensee representatives audits of onsite and offsite nonradiological environmental monitoring conducted January 26 - February 28, 1978, and April 26-28, 1978, respectively. Inspection also included a review of work procedures and check lists used in conducting the audits. Inspection disclosed that the above audits appeared to meet ETS requirements and all commitments and requirements detailed in the licensee's audit procedures.
- d. Section 5.5 of the ETS requires development, maintenance and adherence to written procedures for activities involved in meeting ETS requirements. Inspection included a detailed review of monitoring, surveillance, special studies and auditing procedure developed by the licensee to assure implementation of ETS requirements. Inspection disclosed that the procedures were consistent with ETS requirements and accepted industry practice.

5. Environmental Surveillance

- a. Section 3.1 of the ETS defines the nonradiological surveillance requirements. Requirements include the following: (1) chemical discharges; i.e., surveillance of the contributions of chemical discharges from the plant to any increases above ambient concentrations for chemicals in the Chattahoochee River within the plant vicinity; (2) thermal measurements in the Chattahoochee River at the plant intake canal, vicinity of plant discharge, and at points one mile above plant intake and below plant discharge, respectively; (3) soil chemistry, i.e., determination of surface soil conductivity at assigned loci at the plant site for assessment of drift attributable to operation of the mechanical draft cooling towers; (4) monitoring of fog conditions attributable to operation of the mechanical draft cooling towers. The inspector reviewed reports, field data and records for each of the above surveillance parameters. Inspection disclosed that the surveillance program was implemented as required by the ETS.

- b. Inspection also included a detailed review of the onsite meteorological monitoring program required by Section 3.1.1(b)-3 of the ETS. Inspection entailed the following: (1) review of operating, calibration and maintenance procedures; (2) review of instrument calibration and maintenance records; (3) review of records and logs of weekly surveillance and strip chart maintenance as defined by licensee's procedures. Inspection disclosed apparent discrepancies between weekly surveillance dates documented in the log resident at the meteorological tower, and an administrative checklist assigning specified surveillance dates and documenting actual dates on which such surveillances were conducted. Licensee Procedure FNP-O-ENV-17 defining meteorological support activity requires that Chemical and Health Physics Section personnel conduct checks of operation of meteorological instruments and maintain strip chart recorders and the magnetic tape recorder at an assigned frequency of three days per week. The inspector informed licensee representatives that the above cited discrepancies would be considered an unresolved item 348/78-21-01. Licensee representatives stated that a detailed analysis of the support-activity-log and the administrative checklist dates would be conducted to attempt to resolve the apparent conflicting surveillance dates. The licensee further stated that this information would be forwarded to the NRC Regional Office.

6. Special Surveillance Studies

Appendix B Technical Specification 4.1 requires the evaluation of plant cooling water intake velocities under various operating conditions. Further, throughout the study, water level and flow conditions in the Chattahoochee River would be monitored. Inspection of reports and logs disclosed that the study was being implemented as required.

7. Plant Reporting Requirements

Appendix B Technical Specification 5.6.1.a requires that the non-radiological report section of the annual environmental operating report include and define the following: (1) summaries, interpretations, and statistical evaluation of results of the nonradiological environmental activities of Section 3.1; (2) any special study activities conducted during the period; (3) assessment of observed environmental impacts of plant operation; (4) copies of reports submitted to EPA under the NPDES permit. Inspection included a detailed review of the annual environmental operating report for the period ending December 31, 1977. Inspection and discussions with licensee representatives disclosed that all reporting requirements were implemented in accordance with the above cited specification.

8. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on August 25, 1978. The inspector summarized the scope of the inspection and discussed the findings contained herein.