UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323

Report Nos.: 50-348/85-24 and 50-364/85-24

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

Docket Nos.: 50-348 and 50-364 License Nos.: NPF-2 and NPF-8

Facility Name: Farley 1 and 2

Inspection Conducted: May 11 - June 10, 1985

Inspector: _____ 6/21/85
W. H. Bradford Date Signed

Approved by: _____ 6/21/85
F. S. Cantrell, Section Chief Date Signed
Division of Reactor Projects

SUMMARY

Scope: This routine, announced inspection entailed 169 inspector-hours on site in the areas of licensee action on previous enforcement matters, monthly surveillance observation, monthly maintenance observation, operational safety verification, independent inspection effort, and Unit 1 design changes and maintenance, plant startup and design changes, and engineered safety systems inspection.

Results: One violation was identified. This violation involved failure to follow approved procedures.

## REPORT DETAILS

1. Persons Contacted

   Licensee Employees

   J. D. Woodard, Plant Manager
   D. N. Morey, Assistant Plant Manager
   W. D. Shipman, Assistant Plant Manager
   R. D. Hill, Operations Superintendent
   C. D. Nesbitt, Technical Superintendent
   R. G. Berryhill, Systems Performance and Planning Superintendent
   L. A. Ward, Maintenance Superintendent
   L. W. Enfinger, Administrative Superintendent
   J. E. Odom, Operations Sector Supervisor
   B. W. Vanlandingham, Operations Sector Supervisor
   T. H. Esteve, Planning Supervisor
   J. B. Hudspeth, Document Control Supervisor
   L. K. Jones, Material Supervisor
   R. H. Marlow, Technical Supervisor
   L. M. Stinson, Plant Modification Supervisor
   W. G. Ware, Supervisor, Safety Audit Engineering Review

   Other licensee employees contacted included technicians, operations personnel, maintenance and I&C personnel, security force members, and office personnel.

2. Exit Interview

   The inspection scope and findings were summarized during management interviews throughout the report period and on June 10, 1985, with the plant manager and selected members of his staff. The inspection findings were discussed in detail.

   The licensee did not identify as proprietary any materials reviewed by the inspector during this inspection.

3. Licensee Action on Previous Enforcement Matters (92702)

   (Closed violation 348, 364/85-05, 85-05-04) Based on the licensee's letter of response to the violation which described the corrective action, and an inspection of the corrective action, this item is closed.

4. Monthly Surveillance Observation (61726)

   The inspectors observed and reviewed Technical Specification required surveillance testing and verified that testing was performed in accordance with adequate procedures; that test instrumentation was calibrated; that

limiting conditions were met; that test results met acceptance criteria and were reviewed by personnel other than the individual directing the test; that any deficiencies identified during the testing were properly reviewed and resolved by appropriate management personnel; and that personnel conducting the tests were qualified.

The inspector witnessed/reviewed portions of the following test activities:

| | | |
|---|---|---|
| STP-80.2 | - | Diesel Generator 2C Operability Test. |
| STP-80.1 | - | Diesel Generator 1B Operability Test. |
| STP-7.0 | - | Unit 2 Quadrant Power Tilt Ratio Calculation. |
| STP-24.7 | - | Service Water Valves Inservice Test. |
| STP-27.3 | - | Auxiliary and Service Water DC Distribution System Alignment. |
| STP-9.0 | - | RCS Leakage Test. |
| STP-33.0A | - | Solid State Protection System Train A Operability Test. |
| UOP-1.1 | - | Startup of Unit from Cold Shutdown to Hot Standby. |
| UOP-1.2 | - | Startup of Unit from Hot Standby. |
| UOP-3.1 | - | Power Operation. |

Within the areas inspected no violations or deviations were identified.

5. Monthly Maintenance Observation (62703)

Station maintenance activities of safety-related systems and components were observed/reviewed to ascertain that they were conducted in accordance with approved procedures, regulatory guides, industry codes and standards, and were in conformance with Technical Specifications.

The following items were considered during the review: limiting conditions for operations were met while components or systems were removed from service; approvals were obtained prior to initiating the work; activities were accomplished using approved procedures and were inspected as applicable; functional testing and/or calibrations were performed prior to returning components or systems to service; quality control records were maintained; activities were accomplished by qualified personnel; parts and materials were properly certified; radiological controls were implemented; and fire prevention controls were implemented.

Work requests were reviewed to determine the status of outstanding jobs to assure that priority was assigned to safety-related equipment maintenance which may affect system performance. The following maintenance activities were observed/reviewed:

Unit 2 RHR Trains A and B Flow Transmitter.
Unit 1 Containment Tendons.
Unit 1 Auxiliary Feedwater Pump Discharge Check Valve.
Unit 1C Boric Acid Pump.
2B Diesel Generator.

Unit 1 Containment Personnel Air Lock.
Auxiliary Feedwater Check Valve Temperature Monitoring System.
Unit 1 Reactor Coolant Drain Tank Pump Sealed Bearings.

Within the areas inspected no violations or deviations were identified.

6. Operational Safety Verification (71707)

The inspectors observed control room operations, reviewed applicable logs and conducted discussions with control room operators during the report period. The inspectors verified the operability of selected emergency systems, reviewed tagout records, and verified proper return to service of affected components. Tours of the auxiliary, diesel, and turbine buildings were conducted to observe plant equipment conditions, including fluid leaks and excessive vibrations.

The inspectors verified compliance with selected Limited Condition for Operations (LCO) and results of selected surveillance tests. The verifications were accomplished by direct observation of monitoring instrumentation, valve positions, switch positions and review of completed logs, records, and chemistry results. The licensee's compliance with LCO action statements was reviewed as they happened.

The following systems and components were observed/verified operational:

- Station electrical boards in the control room and various electrical boards throughout the plant for proper electrical alignment.

- Certain accessible hydraulic snubbers.

- Accessible portions of service water and component cooling water systems.

- Units 1 and 2 suction and discharge piping and valves on auxiliary feedwater system.

- Diesel generators and support systems.

- Certain accessible portions of CVCS piping and valves to and from the charging/high head safety injection pumps.

- Certain portions of RHR and containment spray systems.

- Portions of various other systems (safety-related and non-safety-related).

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

7. Independent Inspection Effort (92706)

The inspectors routinely attended meetings with certain licensee management and observed various shift turnovers between shift supervisors, shift foreman, and licensed operators. These meetings and discussions provided a daily status of plant operating, maintenance, and testing activities in progress, as well as discussions of significant problems.

The inspector verified by observation and interviews during the reporting interval that measures taken to assure the physical protection of the facility met current requirements. Areas inspected and include the organization of the security force; the establishment and maintenance of gates, doors, and isolation zones; that access control and badging were proper; and procedures were followed.

During the reporting interval, the inspector verified compliance with selected Limited Conditions for Operation (LCO) and results of selected surveillance tests. The verifications were accomplished by direct observation of monitoring instrumentation, valve positions, switch positions and review of completed logs, records, and chemistry results.

During a plant inspection on May 22, 1985, the inspector found unattended flammable materials in the hot machine shop in the auxiliary building. This flammable material consisted of 1 spray can of Zinc-IT, 2 spray cans of flammable magnaflux on open metal shelves and several spray cans of flammable magnaflux inside an open cardboard box in a contaminated area. The cans of magnaflux were labeled flammable; the can of Zinc-IT was labeled extremely flammable. There were no one in attendance in the hot shop.

Administrative Procedure 35, General Plant Housekeeping and Cleanliness Control, section 5.1.9 requires that flammable liquids will not be stored or left unattended in the auxiliary building, diesel generator building or service water structure at any time.

This is a violation (348/85-24-01).

The licensee initiated corrective action by removing the flammable material and conducted a survey of all areas.

8. Plant Startup from Refueling and Design Changes

The inspector observed Unit 1 startup and return to service on May 25, 1985. Various physics tests were observed. The inspector verified the tests were properly approved and that test personnel were qualified.

The inspector reviewed various system return to service check lists to verify valves were locked in the proper position and that valve position verification had been completed.

The following design changes were reviewed to verify that the modifications had been reviewed in accordance with 10 CFR 50.59, the work package contained suitable instructions, that suitable testing was completed prior to return to service, appropriate drawings and procedures had been revised and that the modifications had been incorporated into the training programs.

83-1-1412 - MCB MIMS ALARM.

82-1-1228 - Sequencers Loss of Voltage and Degraded Grid Tripping.

82-1-1318 - Turbine Driven Auxiliary Feedwater Pump Steam Supply Valve HV-3226 Limit Switch Replacement.

84-1-2550 - Modification of Personnel Air Lock.

84-1-2518 - Auxiliary Feedwater Check Valve Temperature Monitoring.

80-1-718 - Charging Pump Auto Start.

83-1-1462 - Gamma Metrics Excore Neutron Detector.

83-1-1465 - Appendix R - Hot Shutdown Panel.

84-0-2720 - SPDS Computer Room HVAC.

84-1-3-66 - Steam Generator Anti-vibration Bars.

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

9. Engineered Safety Systems Inspection

The inspector performed a system inspection of the diesel generators. This inspection included the engine starting air system, engine jacket cooling water system, service water system alignment in the diesel generator building, diesel generator building fire protection and detection system, diesel generator building ventilation system, electrical switch gear alignment, annunciator response procedures, operating procedures, operator logs and housekeeping.

The systems were assessed to be operable in accordance with the Technical Specifications, appropriate drawings, procedures, and the Final Safety Analysis Report.

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

10. In-Office Review

The following items were evaluated by the Reactor Safety, Radiation Safety and Safeguards, and Reactor Projects regional staff. Based on this review and the results of the latest Resident and Region based inspection

activities in the affected functional areas, the following items were determined to require no additional specific followup and are closed.

a. Inspector Followup Items (IFI):

(80-24-01) Level Switch Terminations (U-2)
(80-32-01) Review Designer TE and VID Evaluation Reports (U-2)
(80-36-09) Functional Controls for Permanent EOF (U-1)
(82-21-01) Appendix J 10 CFR 50 Paragraph VB5 Report of Test Results (U-1)
(80-48-09) Functional Controls for Permanent EOF (U-2)
(83-26-01) Eliminate Sharp Bends in Sample Lines (U-2)
(83-26-02) Perform Evaluation of Sample Losses (U-2)
(83-26-03) Evaluate Adequacy of Inventory of Operable Survey Meters (U-2)
(84-30-01) Monitoring Kit Inventory List (U-1 and U-2)
(84-30-02) Sample Identification (U-1 and U-2)

b. Unresolved Items (URI):

(78-02-01) Discrepancy MET Tower and Administrative Records (U-1 and U-2)
(80-24-02) Mechanical Separation Requirements (U-2)
(82-16-02) Welding and Cutting Fire Prevention (U-2)

c. Open Item (OPE):

(80-18-05) Updating FSAR to Reflect U-2 As Built Condition (U-2)