



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report Nos. 50-348/81-07 and 50-364/81-10

Licensee: Alabama Power Company
600 North 18th Street
Birmingham AL 35202

Facility Name: Farley

Docket Nos. 50-348 and 50-364

License Nos. NPF-2 and NPF-8

Inspection at Farley site near Dothan, Alabama

Inspector: V. L. Brounlee for
W. H. Bradford

3/30/81
Date Signed

Approved by: Paul Kellogg
P. O. Kellogg, Section Chief, RRPI Section

3/30/81
Date Signed

SUMMARY

Inspection on February 2, through March 13, 1981

Areas Inspected

This routine inspection involved 140 inspector-hours on site in the areas of plant operations, plant tours, Unit No. 2 fuel loading, initial fuel loading procedure review, inspection and enforcement bulletins, Unit No. 2 Action Item requirements, and Unit 2 pipe hangers and restraint.

Results

Of the seven areas inspected no violations or deviations were identified.

DETAILS

1. Persons Contacted

Licensee Employees

W. G. Hairston, Plant Manager
J. D. Woodard, Assistant Plant Manager
D. Morey, Operations Superintendent
R. S. Hill, Operations Supervisor
W. D. Shipman, Maintenance Superintendent
R. W. McCruken, Technical Superintendent
D. E. Mansfield, Unit 2 Startup Superintendent
C. Nesbitt, C&HP Supervisor
L. Mooney, Training Superintendent
J. Mooney, Alabama Power Company Construction Manager
R. D. Rogers, Technical Supervisor

2. Exit Interview

The inspection scope and findings were summarized during management interviews of February 13 and February 27, 1981 with the plant manager and selected members of his staff. The licensee acknowledged the inspection findings.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Plant Operation Unit 1

The inspector reviewed plant operations for Unit 1, which is in an extended refueling outage, to ascertain conformance with regulatory requirements, Technical Specification, and Administrative Procedure No. 16, "Conduct of Operation - Operations Group". Station logs, such as the shift supervisor, shift forman, control room operator, shift turnover, the out of service equipment log and Night order log book were reviewed. Observations were made of plant operation, monitoring instrumentation, fluid leaks, pipe hangers, certain valve positions and control room alarm status indication. Discussions were conducted with control room operators and operators throughout the plant concerning certain alarm functions. Unit 1 had not returned to power operations as of the end of this reporting period.

Within the areas inspected no violations or deviations were identified.

6. Plant Tours

Tours of selected plant areas were conducted throughout the reporting period. The following items, as available, were observed.

a. Security

Vital area barriers were in place and security provisions for both units were implemented.

b. Radiation Control

The following areas were observed:

(1) Selected radiation work permits were reviewed for proper completion.

(2) Proper posting, barricading, control of radiological hazard areas, the proper use of protective clothing and proper use of personnel radiation monitoring devices.

(3) Area radiation monitors and air monitors were in operation.

c. Fire Protection

Operability and evidence of periodic inspection of fire suppression equipment, fire hazards and ignition sources and flammable material were controlled in accordance with licensee procedures.

d. Component Tagging

Implementation and observation of equipment tagging for safety or equipment protection and compliance with Technical Specification requirements.

e. Housekeeping

Minimal accumulation of debris and maintenance of required cleanliness levels in systems and areas.

f. Communication

Effectiveness of public address system in all areas toured.

7. Unit 2 Initial Fuel Loading

The inspector witnessed portions of the initial fuel loading at Farley Unit 2, which started on March 8, 1981 and was completed on March 11, 1981, to observe the plant operating staff performance and ascertain the adequacy of certain fuel loading records and documents, and to verify conformance with

various license and procedural requirements. Within the areas inspected, there were no violations or deviations identified.

The facility staff conformed to the staffing requirements of Technical Specification (TS) 6.2 and direct communications were established between the control room and the refueling area. Refueling status boards were utilized in both areas, the proper procedures were in use, and the control room logs appeared to be adequate. The two excore neutron flux monitors (N-31 and N-32) were verified operable and one was audible; the temporary incore detectors were operating and the inverse count rates were determined.

The inspector verified that various Technical Specification requirements were satisfied by reviewing surveillance or operability tests and/or by direct observation of parameters for the following equipment:

- (a) Boric acid transfer pump operable.
- (b) Borated water sources operable.
- (c) AC power sources, including diesel generators operable.
- (d) AC electrical busses operable.
- (e) RCS boron concentration greater than 2000 ppm.
- (f) Two source range detectors operable.
- (g) Certain containment building penetrations.
- (h) Manipulation crane and auxiliary hoist operable.
- (i) One RHR pump in operation.

8. Initial Fuel Loading Procedure Review

The licensee's procedures covering initial fuel loading were reviewed to: (1) ascertain whether they were consistent with the regulatory requirements; (2) verify that all prerequisites and initial conditions were included; (3) verify that the limitations and precautions section contained all applicable requirements; (4) verify that the procedure included step-by-step instructions for manipulating fuel and recording the Operations; and (5) verify that the procedure requires a visual check of each assembly in each core position.

The procedures were evaluated for conformance to FSAR Section 14.1.4, Technical Specifications section 6.0 and Regulatory Guide 1.68.

Within the areas inspected no violations or deviations were identified.

9. Inspection and Enforcement Bulletins

- a. Bulletin 79-19, "Packaging of low Level Waste for Transport and Burial".

The licensee's response and file on the above subject was reviewed. The outstanding item pertaining to this bulletin consisted of a requirement that an annual OQA audit be performed. The inspector reviewed OQA audits No's 79-17 dated 10/26/79 and 80-12 dated 8/8/80.

The inspector determined that the licensee had met the requirements of the above bulletin. This item is closed.

- b. Bulletin 79-21, "Temperature Effects on Level Measurements".

The inspector reviewed the licensee response, dated November 1, 1979 and the licensee's record file on the above subject.

The inspector determined that the licensee's response and action, as required was adequate. This item is closed.

- c. Bulletin 79-23, "Potential Failure of Emergency Diesel Generator Field Exciter Transformer".

The inspector reviewed the licensee's response dated October 25, 1979 and the record file on the above subject. The inspector determined that the licensee's response and actions were adequate. This item is closed.

- d. Bulletin 79-24, "Frozen Lines".

The inspector reviewed the licensee's response, dated October 31, 1971, and the record file on the above subject. The inspector determined that the licensee's response and actions were adequate. This item is closed.

- e. Bulletin 79-25, "Failure of Westinghouse BFD Relays in Safety-Related Systems".

The inspector reviewed the licensee's response dated November 20, 1979 and the record file on the above subject. The inspector determined that that licensee's response and actions were adequate. This item is closed.

- f. Bulletin 79-27, "Loss of Non Class IE Instrumentation and Control Power System Bus During Operation".

The inspector reviewed the licensee's response dated March 13, 1980, and the record file on the above subject. The inspector determined that the licensee's response and actions were adequate. This item is closed.

- g. Bulletin 79-28, "Possible Malfunction of NAMCO Model EA-180 Limit Switches at Elevated Temperatures".

The inspector reviewed the licensee's response dated January 8, 1980, and the record file on the above subject. The inspector determined that the licensee's response and actions were adequate. This item is closed.

10. Unit No. 2 Action Item Requirements

a. Prior to fuel loading.

All action items have been completed and verified by the inspector.

b. Prior to Operation Above zero percent Power.

- (1) Auxiliary feedwater control valve solenoid valve power supplies modification.

The inspector has reviewed and verified that the above modification to the Auxiliary feed water valve solenoids power supply modification had been completed and tested. This modification is documented on change Notice No. 2BM-4074 and 2BE-880-6. The valves were tested under test procedures No's. 436-3-021 and 436-3-022, "Calibration and Functional Test for air Operated Valves 2-AFW-NV-3227A, B and C and 2-AFW-HV-3228A, B and C. This item is closed.

- (2) Verification that safety-related masonry walls have been completed (SER-3.11-DS4 SER).

The licensee has completed the required modification on the masonry walls which could effect safety-related equipment. The inspector has reviewed a portion of the completed masonry wall documentation. This item is closed.

c. Prior to Operation above five percent Power.

- (1) Completion of the control room design corrective actions. (22.2-I.D.1) (DS4 SER) (JFA). The inspector has verified that the licensee has completed the control room design corrective actions on Unit 1 and 2. This item is closed.

- (2) Verification that training for mitigating core damage has been completed (22.2-II.B.2) (DS4 SER) (RLT). Training for mitigating core damage has not been completed. The licensee has committed to complete this training by April 17, 1981. This item will remain open.

d. Prior to full power operation

- (1) Emergency power for pressurizer heaters is available. (22.3-II.E.3.1)(RLT). The inspector has verified that emergency power for the pressurizer heaters is available. This item is closed.

- (2) Anchor the battery rack in the service water building to the wall as specified in the Analysis Report. (3.10(1)) (DS5 SER). The inspector has verified that this work has been completed. This is

documented on Work Request No. 29031 dated November 6, 1980 and change Notice No. SE-2438 dated October 3, 1980. This item is closed.

- (3) Mount the solenoid valves in the river water building directly to the seismic supports. (3.10(2) (DS5 SER). The inspector verified that this work has been completed. This is documented by Work Request Nr. 29031 dated November 11, 1980 and Change Notice No. 1650 dated October 3, 1980. This item is closed.
- (4) Completion of equipment modifications, procedure changes and testing (7.3) (DS5 SER).

a. Post LOCA Air Mixing Fans

The inspector verified that the licensee has modified the circuitry on the above equipment as that the air mixing fans will start five minutes after receipt of a safety injection signal even though the safety injection signal has been reset within the five minutes time period. This is documented on Change Notice No. 2BE-817-1 and CWR No. 2-59.10. This system was tested by test procedure No. 059-5-002 "PACCGCS Preop". This item is closed.

b. Containment Purge Isolation Dampers.

The inspector verified that the containment Purge Isolation Dampers will close upon receipt of a containment ventilation isolation signal and will not reopen upon reset of the containment ventilation signal. This is documented on Change Notice No. 2BE-821 and CWR 60.26. The system was tested by test procedure No. 060-3-403 "Containment Purge Damper Calibration and Functional Test". This item is closed.

c. Auxiliar, Feedwater

The inspector verified that the licensee has modified the auxiliary feed valves to cause each valve to open after receiving a safety injection signal. This is documented on Change Notices No's 2BE-880, 2BM-4074 and CWR 2-36.47. The system was tested by test procedures No. 436-3-021 and 436-3-022 "Calibration and Functional Test for Air Operated Valves 2-AFW-NV-3227A, B, and C and 2-FW-HV-3228A, B and C. This item is closed.

- (5). Emergency procedure for initiating back up water supplies have been implemented. (Page 22.3-15, (DS5 SER). The inspector has verified that the licensee has incorporated procedural changes for initiating back up water supplies. This change is incorporated in FNP-1-SOP-22.0, "Auxiliary Feedwater System - Section 4.3" and

FNP-1-AOP-13.0, "Loss of Main Feedwater - Section 5.1". This item is closed.

- (6) Redundant safety-grade condensate storage tank level indication system is installed and operable. (Page 22.3-19) (DS5 SER). The inspector has verified that LT- #515-"A" train and LT #516-"B" train has been installed and are operable. This is documented on CWR-2.37.39 and 2,37.43 dated December 8, 1980. This item is closed.
- (7) Emergency procedures for initiating back up water supplies have been implemented and that a safety-grade condensate tank level system is installed and operable. (Page 22.3-20) DS5 SER). The inspector has verified that emergency procedures for initiating back up water supplies have been implemented and that a safety-grade condensate storage tank level system has been installed and is operable. This item is closed.
- (8) Implementation of enhanced administrative procedures to assure that the auxiliary feed water system controls are in the proper position. (Page 22.3-22) (SD5 SER). The inspector has confirmed that the licensee has implemented procedures to assure that the auxiliary feed water system controls are in the proper position. This is contained in FNP-2-UOP-1.2 "Startup of Unit from Hot Standby to Minimum Load: dated March 6, 1981. This item is closed.

11. Unit 2 Pipe Hangers and Restraints

The licensee has performed a final as-built design verification on certain pipe supports on seismic/safety related piping systems. The inspector has observed certain pipe hangers and restraints to confirm that they had been installed in accordance to the as-built drawings. The inspector has reviewed documentation letters from Bechtel Power corporation, dated March 2, 1981 and March 3, 1981, which confirms that Farley Unit 2 priority 1 piping systems within the IEB-79-14 scope indicates that no discrepancy had been found between the "as-builts" and design which would adversely affect the integrity of the priority 1 piping systems. This review included the piping layout, pipe supports, nozzle loads, and other piping system components.

The inspector has reviewed documentation from Westinghouse Corporation, dated March 4, 1981, which confirms that class 1 piping, supports, and nozzle analyses have been performed to reflect the as-built information. Westinghouse Corporation states that their review indicated that all class 1 piping systems within Westinghouse Corporation scope are acceptable.

The inspector had no further questions.