



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

Report No.: 50-364/78-17

Docket No.: 50-364

License No.: CPPR-86

Category: A2

Licensee: Alabama Power Company
P. O. Box 2641
Birmingham, Alabama 35291

Facility Name: Joseph M. Farley Plant, Unit 2

Inspection at: Ashford, Alabama

Inspection conducted: October 24-27, 1978

Inspectors: B. R. Crowley
D. K. Walters
R. J. Hardwick, Jr. (Training)

Reviewed by: CRH
T. E. Conlon, Chief
Engineering Support Section No. 2
Reactor Construction and Engineering
Support Branch

11/28/78
Date

Inspection Summary

Inspection on October 24-27, 1978 (Report No. 50-364/78-17)

Areas Inspected: Routine unannounced inspection of preservice inspection plans; safety related piping; instrument cable installation and quality records; instrument components and systems installation and quality records; storage of electrical penetration assemblies. This inspection involved 32 inspector-hours on site by two NRC inspectors.

Results: Of the five areas inspected, no apparent items of noncompliance or deviations were identified in three areas, two apparent items of noncompliance (Infraction - Failure to follow procedures for instrument installations, Details II, paragraph 5; and Infraction - Failure to follow procedures for EPA storage, Details II, paragraph 4) were identified in two areas.

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DETAILS I

Prepared by: B. R. Crowley
 B. R. Crowley, Metallurgical Engineer
 Engineering Support Section No. 2
 Reactor Construction and Engineering
 Support Branch

11/13/78
 Date

Date of Inspection: October 24, 1978

Reviewed by: T. E. Conlon
 T. E. Conlon, Chief
 Engineering Support Section No. 2
 Reactor Construction and Engineering
 Support Branch

11/13/78
 Date

1. Persons Contacted

Alabama Power Company (APCO)

- R. E. Hollands, QA Supervisor
- R. S. Fucich, QA Engineer
- J. D. Woodard, Assistant Plant Manager
- W. B. Shipman, Maintenance Superintendent
- D. Morey, Maintenance Supervisor
- M. Brown, Engineer

2. Licensee Action on Previous Inspection Findings

Actions on previous findings were not examined during this inspection.

3. Unresolved Items

No unresolved items were identified during this inspection.

4. Independent Inspection Effort

a. Walk-through Inspection

A general walk-through inspection of the auxiliary building and reactor building was made. General housekeeping and overall welding and inspection activities were observed.

b. Preservice Inspection (PSI) Plans

The inspector discussed with licensee personnel the plans for PSI. These discussions revealed the following:

- (1) The PSI will be conducted in accordance with the Boiler and Pressure Vessel Code, Section XI, 1974 edition with addenda through the summer of 1975.
- (2) The first planned inspections are portions of the Main Steam and Feedwater systems. These inspections are planned for the latter part of November after steam generator hydrostatic testing.
- (3) The remainder of the piping inspections are planned for after cold hydrostatic testing, which is now scheduled for March 10, 1979.
- (4) PSI of the reactor vessel is planned for about October of 1979.
- (5) Eddy current testing of steam generator tubing is planned for December of 1978.

In addition to discussion of PSI plans, the inspector observed several large diameter main steam pipe welds in the containment and main steam valve room that had been prepared for UT inspection.

c. Safety-Related Pipe Welding

The inspector observed the following pipe welds during in-process welding:

Line Q-2-E21-CCB-1B-E7843
Welds 43, 45, 46 and 47

Line Q-2 B13-HCB-41-E7670
Weld 1F

Line Q-2-E21-CCB-1C-E-8927
Weld 24F

Line Q-2-N21-EBD-4-EG2-7
Welds 14 and 15

Line Q-2-N21-EBD-4-EG2-8
Weld 43

For these welds the inspector examined the "Weld Control Record" for the socket welds, "Controlled Weld Joint Record" for the butt welds, the weld appearance, use of the correct welding filler material, and use of the correct welding procedure.

In the areas inspected, no items of noncompliance or deviations were identified.

5. Exit Interview

The inspector had no items of noncompliance or deviations. These findings and a list of areas inspected were turned over to D. K. Walters (RII) for presentation at the exit to be conducted on October 27, 1978.

DETAILS II

Prepared by:

D. K. Walters
 D. K. Walters, Electrical Engineer
 Engineering Support Section No. 1
 Reactor Construction and Engineering
 Support Branch

11/27/78
 Date

Dates of Inspection: October 24-27, 1978

Reviewed by:

J. C. Bryant
 J. C. Bryant, Chief
 Engineering Support Section No. 1
 Reactor Construction and Engineering
 Support Branch

11/27/78
 Date

1. Persons Contacteda. Alabama Power Company (APCO)

- *R. E. Hollands, QA Supervisory Engineer
- *C. R. Kualheim, QA Engineer
- *A. W. Hankins, QA Engineer

b. Daniel Construction Company (DCCA)

- *C. C. Wagoner, Project Manager
- L. C. Hardin, QA Engineer
- N. A. Schryer, QA Engineer

*Denotes those present at the exit interview.

2. Licensee Action on Previous Inspection Findings

Licensee actions on previous inspection findings were not reviewed during this inspection.

3. Unresolved Items

No unresolved items were identified during this inspection.

4. Independent Inspection

The in-place storage of twelve electrical penetration assemblies (EPA) was observed on the inside of the containment. Covers for the EPA's identified as B020, B025, B028, B030, B031 and B038 were not installed and no work involving the EPA's was being performed. In the EPA's identified as having covers removed, a metal can was observed in one, rags were observed in two, and construction debris was observed in all six.

Field Quality Control Procedure (FQCP) 5.2.4, "Storage and Handling", paragraph 5.1.4.2, states "Covers removed for internal access at any time for any reason shall be replaced immediately after the activity is complete."

The failure to follow FQCP 5.2.4 appears to be in noncompliance with 10 CFR 50, Appendix B, Criterion V and has been identified as an infraction, 364/78-17-02: Failure to follow procedure for EPA storage.

5. Instrumentation (Components and Systems I) Observation of Work and Work Activities

The inspector selected the reactor coolant flow process variable in the reactor protection system for reactor coolant loops 1 and 2. The inspector observed the instrument component and system installation from the reactor coolant flow transmitters identified as FT414 (loop 1); FT415(loop 1); FT416 (loop 1); FT424 (loop 2); FT425 (loop 2); and FT426 (loop 2) to the trip logic in-process instrument cabinets identified as: PIC2505A-1, PIC2505A-2 and PIC2505A-3, including sensing lines and other associated devices. The component and system identification and location, support and protection, in-process inspection and physical separation were observed. The inspector noted that the installed sensing lines for the six flow transmitters were not sloped in the area of the flow transmitters as required by Note 5 of the associated erection traveler drawings. A slope of one inch per foot minimum was specified by the erection traveler drawings. FQCP 5.4 4.2, "Instrument Installation and Inspection," paragraph 4.1 states part that "... instrument sensing and control lines ... shall be installed in accordance with approved drawings, specifications and codes." The reactor coolant flow transmitters had been inspected and accepted. This failure to follow procedure appears to be in noncompliance with 10 CFR 50, Appendix B, Criterion V and is identified as an infraction, 364/78-17-01: Failure to Follow Procedure for Instrument Installation.

6. Instrumentation (Components and Systems I) - Review of Quality Records

The quality records for receipt inspection, material certification, storage, handling, identification, and installation were reviewed for the instrument components and systems listed in paragraph 5.

Within the areas examined there were no items of noncompliance identified.

7. Instrumentation (Cables and Terminations I) - Observation of Work and Work Activities

The inspector selected the twelve instrumentation cables listed below for inspection.

2V1V5002H	2V1V5002J
2V1V5001H	2V1V5001J
2V2V5002H	2V2V5002J
2V2V5001H	2V2V5001J
2V3V5002E	2V3V5002F
2V3V5001E	2V3V5001F

Cable storage, handling, identification, and installation were reviewed. The inspector reviewed cable issue control procedures and use of specified material. The cable location, routing, separation and protection between instrument component and process instrument cabinets was visually inspected. Cable tray identification, grounding, bonding, and loading were inspected. Cable terminations were verified visually using cable termination scheme and cable lead identification tags.

Within the areas examined there were no items of noncompliance identified.

8. Instrumentation (Cable and Terminations I) - Review of Quality Records

The quality records for receipt inspection, materials certification and installation were reviewed for the instrument cables listed in paragraph 7. The cable pulling and termination records had been completed in accordance with FQCP 5.4.3.1., "Cable Pulling", and FQCP 5.4.3.1.A, "Cable Terminations". Cable traceability was verified.

Within the areas examined there were no items of noncompliance identified.

9. Exit Interview

The inspector met with the licensee representatives and others denoted in paragraph 1, at the conclusion of the inspection. The scope and findings of the inspection of electrical penetration assembly in-place storage, instrument cable installation and records, and instrument component installation and records were discussed.

Infractions 364/78-17-01 and 364/78-17-02, failure to follow procedures, were discussed in detail.