



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

Report Nos.: 50-259/78-37, 50-260/78-38 and 50-296/78-37

Docket Nos.: 50-259, 50-260 and 50-296

License Nos.: DPR-33, DPR-52 and DPR-68

Licensee: Tennessee Valley Authority
830 Power Building
Chattanooga, Tennessee 37401

Facility Name: Browns Ferry, Units 1, 2 and 3

Inspection at: Browns Ferry Site, Athens, Alabama

Inspection conducted: November 20-December 29, 1978

Inspector: R. F. Sullivan, Resident Inspector

Accompanying Personnel: None

Approved by: H. C. Dance
H. C. Dance, Chief
Reactor Projects Section No. 1
Reactor Operations and Nuclear Support
Branch

1/23/79
Date

Summary

Inspection Period, November 20-December 29, 1978 (Report Nos. 50-259/78-37, 50-260/78-38 and 50-296/78-37)

Areas Inspected: Routine, unannounced inspection of LER review, U-3 startup from refueling, U-1 refueling activities, plant operations and plant tours. The inspection involved 80 inspector-hours by the resident inspector.

Results: Of the five areas inspected, no apparent items of noncompliance or deviations were identified.

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DETAILS I

Prepared by:

H C Dance / fr
R. F. Sullivan, Resident Inspector
Reactor Projects Section No. 1
Reactor Operations and Nuclear
Support Branch

1/23/79
Date

Dates of Inspection: November 20-December 29, 1978

Reviewed by:

H C Dance
H. C. Dance, Chief
Reactor Projects Section No. 1
Reactor Operations and Nuclear
Support Branch

1/23/79
Date

1. Persons Contacted

J. D. Dewease, Plant Superintendent
H. L. Abercrombie, Assistant Plant Superintendent
J. L. Harness, QA Supervisor
J. B. Studdard, Operations Supervisor
R. Hunkapillar, Assistant Operations Supervisor
J. A. Teague, Assistant Maintenance Supervisor
M. A. Haney, Mechanical Maintenance Supervisor
R. G. Metke, Results Section Supervisor
J. L. Harness, Quality Assurance Supervisor
J. R. Pittman, Instrument Engineer
G. T. Jones, Outage Director
W. C. Thomison, Chemical Engineer
A. L. Burnette, Shift Engineer
J. D. Glover, Shift Engineer
W. W. Banks, Shift Engineer
W. E. Brown, Shift Engineer
R. Cole, QA Site Representative, Office of Power

Others contacted included operations on duty in the control room and refueling floor, QA personnel, health physics technicians and staff engineers.

2. Licensee Action on Previous Inspection Findings

Not inspected.

3. Unresolved Items

No new unresolved items were identified during this inspection.

4. Exit Interview

In addition to daily briefings with the Plant Superintendent, the inspector met on a weekly basis with the Plant Superintendent and selected members of his staff to discuss the scope and findings of his inspection activities. Meetings were held on December 1, 8, 14, 22 and 29. The licensee was informed that no items of noncompliance or deviations were identified.

5. Reportable Occurrences Review

The below listed licensee event reports were reviewed for potential generic problems, to detect trends, to determine if the information provided meets NRC reporting requirements and to consider whether corrective action taken or planned appeared appropriate and to evaluate the safety significance.

<u>LER No.</u>	<u>Date</u>	<u>Event</u>
259/7827	9/27/78	Unplanned flow reduction in "A" recirculation loop
259/7830	11/08/78	Incorrect wiring on four heat detectors
259/7831	11/08/78	Piping transposed in two fire zones
260/7816	10/13/78	Drywell leaks on one inch instrument line and 3/4 inch vent line
260/788	12/04/78	Reactor pressure switch failed
296/7821 Supplement	11/08/78	Main steam relief valves failed to reseal
296/7822 Supplement	11/08/78	Main steam relief valve opened below setpoint
296/7826	10/20/78	Smoke detector inoperative
296/7827	11/08/78	Smoke detector panel inoperative
296/7828	11/08/78	Smoke detector inoperative

Corrective action taken or implemented was determined to be satisfactory.

6. Unit 3 Startup from Refueling

The inspector reviewed the Master Refueling Test Instruction prepared for the startup of U-3 following completion of its recent refueling outage. The status of the checklist which was a part of this instruction was examined prior to resumption of operations and during the startup testing.

The inspector observed the startup and rise to heating power on November 22, 1978. On this date, he also observed the performance of RTI-4 Shutdown Margin Test.

On December 8, 1978, the inspector observed the performance of RTI-27 Recirculation Pumps Trip Test. The two recirculation pumps were tripped simultaneously from full flow. This resulted in a prompt power reduction from 70 percent to 30 percent, and the operators manually controlled the reactor vessel level within the operating range and a reactor scram did not occur.

The inspector did not identify any items of noncompliance or deviations during his review of the Unit 3 refueling startup program.

7. Plant Tours

The inspector made plant tours on the following dates: November 22, 29, December 1, 6, 8, 14, 21 and 26, 1978. Selected areas of reactor buildings, turbine building, refueling floor and control rooms were visited. Observations included work activities in progress, instrument readings and recordings, housekeeping and status of operating components and systems.

Informal discussions were held with operators and other personnel concerning work activities and status of equipment. The shift turnovers between day shift and swing shift were observed in both the control rooms and refueling floors on different occasions. The inspector's questions were satisfactorily answered.

No items of noncompliance or deviations were identified by the inspector.

8. Unit 1 Refueling Activities

Various phases of refueling activities in progress on Unit 1 during the report period were observed by the inspector on the following dates: December 1, 14, 21 and 26, 1978.

Activities included preparation for fuel handling, actual fuel handling, monitoring of fuel movements from the control room,

staffing and recordkeeping. All of the inspector's questions were satisfactorily resolved.

9. Unit 1 250V Battery Supply

An inquiry which expressed concern about the condition of the Unit 1 250V batteries which could adversely affect their seismic qualification was reviewed by the inspector. The inspector toured the Unit 1 250V battery room and visually checked the condition of the batteries. No leakage, cracks or other adverse conditions were noted. The inspector also toured the two shutdown board battery rooms assigned to Unit 1 with the same findings on the condition of their batteries.

The inspector reviewed data sheets, EMI4A, for the period September 5 through November 17, 1978. These sheets are the record of weekly checks of each individual battery for proper electrolyte level, cleanliness and corrosion buildup. None of the data sheets reported an adverse condition. Staff personnel in the electrical maintenance section could not recall any crack or leakage problems for at least the past year.

The inspector stated he would consider the item closed relative to an adverse condition which might come to his attention.

10-10-10

