



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

Report Nos.: 50-438/84-11 and 50-439/84-11

Licensee: Tennessee Valley Authority
500A Chestnut Street
Chattanooga, TN 37401

Docket Nos.: 50-438 and 50-439

License Nos.: CPPR-122 and CPPR-123

Facility Name: Bellefonte 1 and 2

Inspection Date: April 1-30, 1984

Inspection at Bellefonte site near Scottsboro, Alabama

Inspector:

J. W. York

5/25/84
Date Signed

Approved by:

C. A. Julian
C. A. Julian, Section Chief
Project Branch No. 1
Division of Reactor Safety

5/25/84
Date Signed

SUMMARY

Areas Inspected

This routine unannounced inspection involved 82 inspector-hours on site in the areas of licensee action on previous enforcement matters, independent inspection effort, licensee identified items, and licensee action on previous inspection findings.

Results

No violations or deviations were identified in the four areas inspected.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *L. Cox, Project Manager
- *R. Young, Construction Engineer
- *D. Bridges, Assistant Quality Manager
- *P. Mann, Nuclear Licensing Supervisor
- *D. Smith, Compliance Section Supervisor

Other licensee employees contacted included construction craftsmen, technicians, and office personnel.

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on April 30, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

3. Licensee Action on Previous Enforcement Matters

(Closed) Unresolved Item 438/82-09-09, Mechanical Cleaning. This item involved the observation of an area being mechanically cleaned by licensee craftsmen. The area being cleaned to remove purge paper was the inside diameter of a stainless steel pipe adjacent to valve 1ND-VDBB-257-A. It was unclear at the time of the observation as to whether the piping had been final flushed. The licensee stated that the system was not in the final flushed condition. The inspector performed a visual inspection on the inside diameter of the pipe adjacent to this valve and found the surface to be acceptable. This system is currently being prepared for its flushing operation. This item is resolved and closed.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection Effort - Units 1 and 2 (92706)

- a. During a hydrostatic test the licensee ruptured one of two pieces of 22 inch diameter temporary piping that had been placed in the Feedwater System. The ruptured pipe had a 3/8 inch wall thickness while the permanent piping had a 1 5/8 inch wall thickness. The two pieces of temporary piping had been placed into the system for flushing purposes only. The system was to be hydrostatic tested at 2500 psig but the temporary piping ruptured at 2330 psig. The permanent piping was not

overpressurized nor did any damage occur to the system. The inspector visually examined the fracture surfaces and noted that no apparent defects in the metal were present at the fracture origin.

- b. The inspector examined the chlorination system used to control asiatic clams. First a review of procedure QCP-6.23 Rev. 0, Detection and Control of Asiatic Clams, was made and then the inspector toured the storage area and the various areas where chlorine is injected into the raw water.

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

6. Licensee Identified Items - Unit 1 (92700)

- a. (Closed) LII, CDR-50-438/82-79, Disruption and Collapse of Sodium Hydroxide Tank. In a final report dated December 9, 1983, the licensee stated the following:

During a filling operation of the sodium hydroxide storage tank, TVA site personnel discovered the following damage:

1. The base plate for the supports was lifted from the foundation.
2. The concrete foundation was broken.
3. The sway struts at three locations around the tank were sheared in half.

At the time of these discoveries the tank was full of water and overflowing, resulting in the filling of the adjacent expansion loop with water. The tank was drained and additional investigation revealed the tank had collapsed on three sides and the associated piping was sprung.

Approximately 50 percent of the tank has been repaired by Richmond Engineering Company (RECo) as authorized by Nuclear Steam Supply System (NSSS) Change of Contract (COC) No. 397. The tank support embedments have been inspected and the results sent to TVA's Division of Engineering Design (EN DES) for evaluation. No damaged embedments were discovered. All damaged foundation concrete has been removed and replaced according to TVA's Division of Construction (CONST) Specification G-34. TVA drawings have been revised as required to depict any necessary modifications. Engineering Change Notice (ECN) 3072 has been prepared which will provide fail-safe vacuum breakers for the sodium hydroxide tank.

The inspector previously observed a portion of the repairs on this tank (Ref. Report No. 50-438/83-19). During the current inspection, a visual inspection was performed on part of the welds. The inspector noted that a vacuum relief valve had been added to a 3" pipe entering the top of the tank (Ref. licensee Engineering Change Notice No. 3072). This work and evaluations are complete and this item is closed.

b. The inspector reviewed the in-progress status of the following LII's:

438/84-25	BLN CEB 8402	Support for cable tray riser
439/84-24		connectors
438/84-26	2927	Shrinkage/splits in dow corning
439/84-25		foam penetration seals
438/84-27	2975	Deficiencies in receipt inspection
439/84-26		
438/84-29	2995	Required 1" separation of flex
439/84-28		conduit not maintained

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

7. Licensee Action on Previous Inspection Findings - Unit 1 (92701)

(Closed) Inspector Followup Item 50-438/82-12-13, Sodium Hydroxide Storage Tank Cleanliness. This item concerned a followup to determine that the licensee met the Class B cleanliness requirements referenced in TVA Construction Specification G-39 for the inside of the sodium hydroxide tank. The inspector performed a visual inspection of part of the inside surface through the tank manway. In addition, the inspector reviewed the documentation that assured that the cleanliness of the tank met the G-39 requirements. This item is closed.

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