



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

Report Nos.: 50-518/78-10, 50-519/78-10, 50-510/78-10 and 50-521/78-10

Docket Nos.: 50-518, 50-519, 50-520 and 50-521

License Nos.: CPPR-150, CRRP-151, CPPR-152 and CPPR-153

Categories: A2, A2, A2 and A2

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

Facility Name: Hartsville Nuclear Plants A and B

Inspection at: Hartsville, Tennessee

Inspection conducted: September 14-15, 1978

Inspector: J. K. Rausch

Approved by:

A. R. Herdt
A. R. Herdt, Chief
Projects Section
Reactor Construction and Engineering
Support Branch

10/11/78
Date

Inspection Summary

Inspection on September 14-15, 1978 (Report Nos. 50-518/78-10, 50-519/78-10, 50-520/78-10 and 50-521/78-10)

Areas Inspected: Routine, unannounced inspection of QA program, base mat for containments and associated quality records concerning Units A1, A2, B1, and B2; work activities for concrete placement in Plant A-1 and Plant B-1.

The inspection involved 16 inspector-hours on site by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

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DETAILS I

Prepared by: AR Herdt
J. K. Rausch, Principal Inspector
Projects Section
Reactor Construction and Engineering
Support Branch

10/11/78
Date

Dates of Inspection: September 14-15, 1978

Reviewed by: AR Herdt
A. R. Herdt, Chief
Projects Section
Reactor Construction and Engineering
Support Branch

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1. Persons Contacted

Tennessee Valley Authority (TVA)

- *R. T. Hathcote, Project Manager
- *G. A. Gonsalves, Supervisor, Site QA Unit
- *W. T. Guinn, Construction Engineer Plant B
- W. B. Brown, Construction Engineer Plant A
- *L. H. Jackson, Assistant Construction Engineer, Plant A (QC)
- *W. O. Brown,, Assistant Construction Engineer, Plant A (Projects)

*Denotes those present at the exit interview.

2. Licensee Actions on Previous Inspection Findings

No previous inspection findings were examined.

3. Unresolved Items

There were no new unresolved items identified during this inspection.

4. Independent Inspection Effort

The inspector examined various areas of Plants A and B to observe construction work and related activities in progress, to inspect the general state of cleanliness and housekeeping, and to examine the in-place storage condition of mechanical and electrical equipment.

No items of noncompliance or deviations were identified.

5. Containment (Structural Concrete I) - Observation of Work and Work Activities, Units A-1, A-2 and B-1

Prior to the start of the A-1 placement, the following site procedures were examined: C. F. Braun and Company Specification 300-01, "Concrete TVA STRIDE, "Revision 5; Control Instruction C-201, Concrete Placement, Revision 4; C-207 Reinforcement Steel Placement, Revision 1; Construction Engineering Procedure 9.02, Concrete Placement Control, Revision 2; and C-401, RIS&PM Concrete Materials Cadweld Shines. In addition, the condition of the hoppers, test equipment, pumps, forms and other equipment, pumps, was examined and found acceptable. Ample crews were available for the placement and were equipped with the proper vibrators and chutes. The concrete mixing, transportation, and holding time prior to placement was within specification. The inspector observed that during placement the free fall of the concrete was approximately ten feet. The licensee was cautioned that although this was within specification close observation is needed by the TVA QC personnel to insure that it is not exceeded since they are already on the high side of the limit. In addition the vibrator crews were prone to leave the vibrators in one spot the maximum allowable time. The licensee was cautioned that this required close surveillance by QC personnel to insure that the vibrator crews do not exceed time limitations.

No items of noncompliance or deviations were identified.

6. Licensee Identified Items

Prior to this inspection, the licensee identified the following items under the terms of 10 CFR 50.55(e):

(Open) Item 518/519/78-10-01 - Altered Cadwelds

A TVA QC inspector noted that filler metal other than Cadweld filter metal was used on a Cadweld splice. TVA's further investigation determined that 39 splices of a total of 3000 in Plant A were defective. TVA is investigating the condition further. A written report is due September 18, 1978.

7. Status of Inspection and Enforcement Bulletins (IEBs)

a. (Closed) IEB 78-10, "Bergen Patterson Hydraulic Shock Suppressor Accumulator Spring Coils

TVA has advised by their letter of August 14, 1978, that coils of the type described in NRC IE Bulletin 78-10 are neither found in,

nor are they part of any equipment on order for the Hartsville Nuclear Plants A and B.

RII has no further questions regarding this matter.

- b. (Closed) IEB 78-06, "Defective Cutler Hammer, Type M Relays With DC Coils"

TVA advised by their letter of July 31, 1978, that TVA does not now use or plan to use the subject coils in the Hartsville plants.

RII has no further questions regarding this matter.

8. Exit Interview

A management interview was held with Mr. R. T. Hathcote, Project Manager, at the conclusion of the inspection. He was appraised of the scope and findings of the inspection which included: record storage, structural concrete pours, embedded condit, sump liners and review of QAU audits.