



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

Report Nos. 50-518/81-08, 50-519/81-08, 50-520/81-08, and 50-521/81-08

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

Facility Name: Hartsville

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

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

Inspection at Hartsville site near Hartsville, TN

Inspector: J. R. Harris 6/1/81
Date Signed

Approved by: T. E. Conlon 6-1-81
Date Signed
T. E. Conlon, Section Chief
Engineering Inspection Branch
Engineering and Technical Inspection Division

SUMMARY

Inspection on May 12-15, 1981

Areas Inspected

This routine, unannounced inspection involved 29 inspector-hours onsite in the areas of structural concrete, spray ponds, construction status, and nonconformance control.

Results

Of the four areas inspected, no violations or deviations were identified in three areas; one violation was found in one area (Failure to control nonconformances in accordance with procedures - Paragraph 5).

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *R. T. Hathcote, Project Manager
- *H. S. Sheppard, Assistant Construction Manager
- *B. E. Huffaker, Materials Engineer, QC
- *G. R. Hudson, Civil Engineer, Project Engineering
- G. R. Gonsalves, QA Supervisor
- H. Bates, Project Engineering Supervisor
- *S. D. Love, Regulatory Staff, Chattanooga
- *L. Wallace, QA Engineer
- *D. J. Ward, QA Engineer
- *J. R. Lewis, QC Engineer

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

Other Organizations

- *P. V. Scanlan, C. F. Braun
NRC Resident Inspector
- *W. B. Swan
- *Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on May 15, 1981 with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection

The inspector examined the following areas:

- a. Soils and concrete laboratory
- b. Ongoing work in Units A-1 and A-2 powerblock
- c. Nonconformance Report NCR-HNPA 141

Examination of NCR-HNPA 141 disclosed the following violation: Attachment C to procedure QAP 15.1 in the TVA Division of Construction Program QA Manual requires TVA NCR's to be written within approximately three working days of identification of a defect or deficiency. Investigations by the NRC inspector disclosed the following examples of failure to follow procedure QAP 15.1:

- a. Hartsville site procedure CEP 15.03, "Control of Nonconformance" does not address the timeliness of identification requirement stated in QAP 15.1 of the TVA Division of Construction QA Manual.
- b. The omission of anchor rods and stiffner plates from the A-1 reactor drywell frame 10 was discovered in December 1980 and was not identified as an NCR on nonconformance report, NCR-HNPA 141 until May 5, 1981.
- c. Failure to address the timeliness requirement for reporting NCR's in procedure CEP 15.03 and to identify the omission of stiffner plates and anchor rods from the A-1 reactor drywell frame 10 as an NCR in the time frame specified by procedure QAP 15.01 was identified to the licensee as Violation number 50-518/81-08-01, Nonconformance Control.

6. Lakes Dams and Canals - Review of Quality Records, Units A-1, A-2, B-1 and B-2

The inspector examined quality records for the central and support fill placed around the A-1 and B-2 spray ponds. Acceptance criteria examined by the inspector are:

- a. PSAR and SER Section 2.5
- b. Specification N6C-875, "Earth and Rock Foundation and Fills"
- c. Specification G-9, "General Construction Specification for Rolled Earthfill Dams and Power Plants"
- d. QCI-C-101, "Earthfill Daily Inspection"
- e. QCI-C-102, "Excavation and Fill, Percent Compaction and Moisture Content"

Records examined included daily inspection reports, compaction tests and atterberg limit data for May 5 to 11, 1981, and TVA report on the spray pond central and support fill from October 1 to November 30, 1980.

No violations or deviations were identified.