



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

JAN 24 1980

Report Nos. 50-518/80-02, 50-519/80-02, 50-520/80-02 and 50-521/80-02

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

Facility Name: Hartsville Nuclear Plant

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, Tennessee

Inspector: V. L. Brownlee 1/24/80
 V. L. Brownlee Date Signed

Approved by T. E. Conlon 1-24-80
 T. E. Conlon, Section Chief, RC&ES Branch Date Signed

SUMMARY

Inspection on January 8-11, 1980

Areas Inspected

This routine unannounced inspection involved 26 inspector-hours onsite in the areas of overall Quality Assurance Program review and Quality Assurance Program implementation. The following areas were examined: organizational/functional alignment; audits; quality requirements; work and quality inspection procedures; control of materials; control of processes; corrective action; document control; test control and control of test equipment; quality records and training.

Results

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

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DETAILS

1. Persons Contacted

Licensee Employees

- *W. R. Brown, Construction Engineer (STRIDE)
- *W. T. Quinn, Construction Engineer (BOP)
- *J. T. McGehee, Engineering Management Assistant
- *G. A. Gonsalves, Site QA Unit Supervisor
 - J. R. Inger, Mechanical QC Supervisor
 - J. W. Davenport, Civil QC Supervisor
- *R. C. Nixon, Document Control Unit Supervisor
- *J. R. Gelzer, Construction QA Training
 - D. J. Ward, Site QA Unit (Electrical/Instrumentation)
 - L. E. Wallace, Site QA Unit (Civil/Material)
 - M. A. Koltowich, site QA Unit (Civil/Material)
- *R. W. Dibeler, Chief, QA Staff Construction (Telecon Patch)
- **J. P. Knight, Manager QA, OEDC
- **R. W. Libeler, Chief, QA Staff Construction
- **J. F. Cox, Nuclear Engineering Branch, Licensing
- **R. G. Whitt, OEDC QA Staff

Other licensee employees contacted included construction craftsmen, office personnel and receiving inspection and storage personnel.

NRC Resident Inspector

- *W. B. Swan

*Attended exit interview on January 11, 1980

**Telecon on January 15, 1980

2. Exit Interview

The inspection scope and findings were summarized on January 11, 1980, 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. Overall Site Quality Assurance Program Review

a. Background

This inspection was performed for the purpose of ascertaining whether quality assurance plans, instructions and procedures have been established for the control of safety-related activities, and whether these documents conform to the QA program as described in Chapter 17 of the Safety Analysis Report (PSAR).

b. Documents Examined

- (1) Chapter 17 of the PSAR
- (2) Construction QA Program Manual and selected QAPPs and QAPs
- (3) Quality Assurance Staff Manual and selected QASPs
- (4) Construction Engineering Procedures Manual and selected CEPs
- (5) Quality Control Instructions Manuals - Civil, Mechanical Welding, NDE
- (6) Receiving, Inspection, Storage and Preventive Maintenance Manuals - Instrumentation, Civil, Electrical
- (7) Site Quality Assurance Training Program Plan

c. Program Review

The Construction QA/QC program consists of the following documents:

- (1) Construction QA Program Manual which contains the Construction Division program policy, requirements and commitments.
- (2) Quality Assurance Staff Manual which contains the procedures that delineate the QA functions of the site QA Unit.
- (3) Construction Engineering Procedures Manual which contains the lead project implementing procedures that delineate the quality assuring functions and generally address software and activity control measures.
- (4) Quality Control Instruction Manuals which contain the procedures that delineate quality verifying functions as applied to production and hardware.
- (5) Receiving, Inspection, Storage and Preventive Maintenance Manuals which contain instructions that delineate quality verifying functions as applied to the receiving, inspection and storage.

- (6) QA Training Program Plan delineates the training, certification and/or qualification program as required by organizational/functional responsibilities, personnel assignment, requirements or commitments.

The inspector determined that the established QA/QC program contained control measures to assure that the following activities are controlled and accomplished in accordance with QA program requirements:

- (1) Organizational/functional alignment provides for independence of QA personnel from cost or scheduling responsibilities.
- (2) Indoctrination and training program for QA and QC personnel.
- (3) Stop work authority.
- (4) Audit program.
- (5) Quality requirements are specified in design and procurement documents.
- (6) Deviations from established requirements.
- (7) Quality documentation is generated and maintained.
- (8) Identification and control of components, structures and systems.
- (9) Work and quality inspection procedure.
- (10) Control of material.
- (11) Control of processes.
- (12) Corrective action.
- (13) Document control.
- (14) Test control and control of test equipment.
- (15) Quality records.

During program review the inspector concluded that the PSAR did not describe the actual site organizational/functional alignment and QA program documents. This matter is discussed in paragraph 5.e below.

d. Program Implementation

The inspector held discussions with QA Unit personnel, QC Unit personnel, warehouse personnel, document control unit personnel, records room personnel, test and measurement equipment control personnel, and performed walk-through inspections of associated facilities. During the walk-through

inspections the inspector examined selected activities of the particular unit. The inspector concluded that personnel were knowledgeable of the QA program within their respective area.

e. Finding

During the QA Program review the inspector concluded that Section 17 of the PSAR did not describe the actual site organizational/functional alignment; nor, did it describe the current QA program documents. The PSAR describes the organizational/functional alignment that was in existence prior to the deferring of Plant B construction. The PSAR describes the QA program document network that existed prior to restructuring of the OEDC QA Program document network.

This matter was discussed with TVA management personnel on January 15, 1980, by telecon. The inspector also discussed this matter with Quality Assurance Branch (QAB), NRR personnel on January 15, 1980. TVA committed to resolving this matter directly with QAB NRR. QAB NRR personnel agreed to resolve this matter directly. IE:II has no further questions regarding this matter.