



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

Report Nos. 50-518/79-26, 50-519/79-26, 50-520/79-26 and 50-521/79-26

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

Facility Name: Hartsville Nuclear Plant

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

Inspection at Hartsville, Tennessee

Inspector: RJ Hardwick for 11/21/79
 D. K. Walters Date Signed

Approved by: RJ Hardwick for 11/21/79
 T. E. Conlon, Section Chief RC&ES Branch Date Signed

SUMMARY

Inspection on October 29-31, 1979

Areas Inspected

This routine unannounced inspection involved 24 inspector-hours onsite in the areas of review of electrical and instrumentation quality assurance implementing procedures for Class 1E components and systems.

Results

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

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DETAILS

1. Persons Contacted

Licensee Employees

- *R. T. Hathcote, Project Manager
- *W. R. Brown, Construction Engineer
- *H. S. Sheppard, Assistant Construction Engineer, QC - Stride
- *C. A. Partlow, Electrical QC Supervisor
- *J. G. Carlton, Project Engineer, Electrical - Stride
- *W. T. Quinn, Construction Engineer - BOP
- *S. R. Journey, Instrumentation QC
- *W. O. Brown, Assistant Construction Engineer - BOP
- *J. W. Davenport, QC Supervisor - Stride
- *G. A. Gonsalves, QA Supervisor
- *J. R. Getzler, Construction QA Training
- S. D. Thomas, Electrical QC Supervisor - BOP

NRC Resident Inspector

- *W. B. Swan

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on October 31, 1979 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. Quality Assurance Implementing Procedures Reviewed

The following procedures, which are applicable to electrical and instrumentation activities for all units of the Hartsville Nuclear Plant, were reviewed for conformance to the licensee's commitments identified in Chapters 1, 3, 5, 6, 7, 8, 9, 12 and 17 of th PSAR. Specific areas inspected are delineated in paragraph 6 and 7.

Construction Engineering Procedures (CEP)

1.01, revision 4	Construction Engineering Organization and Responsibilities
1.03, revision 0	Stop Work
2.02, revision 5	Quality Assurance Items
3.01, revision 2	Field Change Request
3.02, revision 0	Configuration Control for Drawing
3.05, revision 2	Design Information Request
3.06, revision 1	Processing of Design Project Organization Changes to Design Drawings
4.01, revision 8	Procurement Document Control
5.01, revision 6	Construction Engineering Procedures, Quality Control Instructions, and Receiving Inspection, Storage, and Preventive Maintenance Instructions
5.04, revision 3	Work Packages
6.01, revision 6	Drawing Control
6.02, revision 6	Control and Distribution of Construction Engineering Procedures; Quality Control Instructions; Receiving Inspection, Storage, and Preventive Maintenance Instructions; and Manuals
6.03, revision 2	Distribution of Design Information
7.01, revision 1	Evaluation and Selection of Suppliers
7.02, revision 4	Receiving Inspection
7.03, revision 0	Surveillance of Contactor Site Activities
7.04, revision 0	Transfer of Safety Related Items
7.05, revision 0	TVA Material Certification
8.01, revision 2	Identification and Marking of Material, Parts, and Components

8.02, revision 2	Warehouse Control of Materials, Parts, and Components
8.04, revision 1	Notice of Substitution
12.01, revision 5	Control of Measuring and Test Equipment
12.02, revision 0	Control of Certified Tools Used for Quality Work
13.01, revision 1	Handling of Nuclear Components
13.02, revision 1	Storage and Preservation of Materials, Components and Systems
13.03, revision 1	Warehouse Storage Area Inspection
14.01, revision 1	Inspection and Test Status
15.01, revision 12	Control of Quality Control Investigation Reports
15.02, revision 3	Risk Release
15.03, revision 0	Control of Nonconformance Reports
15.04, revision 0	Handling Allegations
16.03, revision 0	Handling Conditions Adverse to Quality
17.01, revision 2	Quality Assurance Records
18.01, revision 5	Auditing Construction Activities

Quality Control Instructions (Electrical)

E-105, revision 6	Electrical Grounding Systems
E-110, revision 5	Conduit, Boxes, and Cable Tray Penetrations
E-115, revision 0	Equipment Supports
E-145, revision 0	Internal Wiring
E-222, revision 0	Bolted Electrical Connections

Receiving Inspection, Storage and Preventive
Maintenance Instructions (Electrical)

E-114, revision 2	Motor Control Center (Class 1E and 1L)
E-116, revision 1	Battery Chargers (Class 1E and 1L)
E-139, revision 0	Batteries (Class 1E and 1L)
E-605, revision 2	Insulated Wire and Cable (Class 1E)
E-606, revision 0	Electrical Tape and Cable Splicing Kits (Class 1E)
E-608, revision 0	Insulated Wire and Cable (Class 1E - Per Braun Specifications)
E-703, revision 1	Distribution Panels (Class 1E and 1L)

Receiving Inspection, Storage and Preventive
Maintenance Instructions (Instrumentation)

I-400, revision 2	Local Instrument Panels, Enclosures or Cabinets (Class 1E)
I-500, revision 2	Instrument and Devices (Class 1E and 1L)
I-504, revision 1	Control Room Instrument (Class 1E)

6. Electrical (Components and Systems) Review of Quality Assurance Implementing Procedures

The procedures identified in paragraph 5 were reviewed for implementation of licensee PSAR commitments in the electrical components and systems area. The review assured that procedures met the PSAR requirements for receipt inspection, handling, storage (including periodic verification of special storage requirements), qualification test documentation, installation (including special installation requirements), qualification and training of inspectors, installation and testing, record control, component and system identification, and control and identification of nonconforming equipment.

Within the areas examined, no items of nonconformance or deviations were identified.

7. Electrical and Instrumentation (Cables and Terminations) Review of Quality Assurance Implementing Procedures

The procedures identified in paragraph 5 were reviewed for implementation of licensee PSAR commitments in the electrical cables and terminations area. The review assured that procedures met the PSAR requirements for

receipt inspection, vendor qualification and source inspection documentation, storage, handling, identification, control of drawings and specifications, nonconformance control, installation, and qualification and training of inspection personnel.

Within the areas examined, no items of noncompliance or deviation were identified.

8. Instrumentation (Components and Systems) Review of Quality Assurance Implementing Procedures

The procedures identified in paragraph 5 were reviewed for implementation of licensee PSAR commitments in the instrumentation components and system area. The review assured that procedures met the PSAR requirements in the areas of identification, receipt inspection, storage, handling, vendor qualification documentation and installation.

Within the areas examined, no items of noncompliance or deviations were identified.

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