



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

Report Nos. 50-518/82-08 and 50-520/82-08

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

Facility Name: Hartsville

Docket Nos. 50-518 and 50-520

License Nos. CPPR-150 and CPPR-152

Inspection at Hartsville site near Hartsville, Tennessee

Inspector: N. Merriweather 8/11/82
N. Merriweather Date Signed

Approved by: T. E. Conlon 8/11/82
T. E. Conlon, Section Chief Date Signed
Engineering Inspection Branch
Division of Engineering and Technical Programs

SUMMARY

Inspection on July 20-23, 1982

Areas Inspected

This routine, unannounced inspection involved 24 inspector-hours on site in the areas of extended construction delay work and work activities, and extended construction delay review of quality records.

Results

Of the two areas inspected, one violation was identified in one area (Failure to follow procedures on storage and preventive maintenance of safety-related materials, paragraph 5.).

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *R. T. Hathcote, Project Manager
- *P. F. Gillespi, Supervisor Document Control
- M. Gross, QA Engineer
- J. P. Jackson, Preventive Maintenance Supervisor, Material Services Unit (MSU)
- *E. D. Loope, Supervisor Project Engineering
- B. F. Painter, General Construction Superintendent
- *H. S. Sheppard, Assistant Construction Engineer
- T. O. Wilkinson, Supervisor, MSU

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on July 23, 1982, with those persons indicated in paragraph 1 above. The licensee was informed of the inspection findings listed below. The licensee acknowledged the inspection findings with no dissenting comments.

Violation, 518,520/82-08-01, Failure to follow procedures on storage and preventive maintenance of safety-related materials, paragraph 5.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Extended Construction Delay - Observation of Work and Work Activities (92053B) - Units A1 and A2

a. Documents Examined

- (1) Receiving, Storage, and Preventive Maintenance Inspection Manual (RS&PMI), R7
- (2) Procedure CEP 13.02, R5, Storage and Preservation of Materials, Components, and Systems
- (3) Procedure CEP 13.03, R3, Warehouse Storage Area Inspection

- (4) Audit HT-G-82-02, Preventive Maintenance
- (5) Audit HT-G-82-08, Housekeeping
- (6) Procedure CEP 15.01, Control of Quality Control Investigation Reports
- (7) Procedure CEP 15.03, Control of Nonconforming Condition Reports
- (8) Memorandum AAF 820608008, Hartsville Nuclear Plant A and B Units 1 and 2, Phipps Bend Nuclear Plant Units 1 and 2, and Yellow Creek Nuclear Plant Units 1 and 2 - Preventive Maintenance
- (9) Memorandum NEB 820602263, Hartsville Nuclear Plant A Units 1 and 2, and Yellow Creek Nuclear Plant Unit 1 - Development of ENDES Policy to Assure the Maintenance of Plant (Unit) Licensability

b. Field Inspection

The inspector performed a walk-through inspection of Units A1 and A2 reactor buildings and auxiliary building, levels A and B storage warehouses (AWX, AWC, and AWD), paint storage buildings (CWK and CWL), and level D storage yards. The inspector randomly selected the items identified below for inspection.

Items Examined:

- LPCS Motor No. MPL E21-C001, SN# JMJ901004
- RHR Pump Motor No. MPL E12-C002, Contract No. 75210
- 16" HPCS Gate Valve No. MPL E22-F001, SN# E6135-1-1 and TD 22902
- Local Panel No. MPL H22-P024, SN# 18024
- Local Panel No. MPL H22-P041, SN# 18041
- 10" Motor Operated Gate Valve No. MPL E51-5063, SN# 50170
- Main Steam Safety Relief Valve No. MPL B21-F041, Contract No. 75210
- HPCS Pump Motor No. MPL E22-C001, SN# ENJ504005
- RHR Heat Exchanger No. MPL E12-B001, SN#18403
- PVC Conduit, Contract No. 591472
- NUTEC (1201 and 115) Concrete Surfacers, Contract No. 79K54823695

The equipment identified above was examined to determine if storage and preventive maintenance are being accomplished in accordance with the requirements of the RS&PMI manual and manufacturers recommendations.

The inspector observed that equipment stored in the power house was adequately protected from the environment, that space heaters were energized, and that housekeeping appeared to be adequate.

The storage warehouse and laydown yards were examined for proper controlled access, equipment was adequately protected from damage, cleanliness, proper stacking and cribbing of items, shelf life of materials were adequately controlled, records were being maintained of storage conditions, and nonconformances were being controlled. While touring paint warehouse "CWL" and the east issue laydown yard the inspector identified the following examples of failure to follow procedures:

- (1) The inspector observed in paint storage warehouse "CWL" that several gallons of protective coatings, (i.e., items such as Nutec "11S and 1201" Concrete Surfacers) had exceeded the shelf-life specified by the manufacturer, and that no Quality Control Investigation Reports or Nonconformance Reports had been documented. The RS&PMI manual, section 6TD, paragraph 2 requires a monthly inspection be performed to verify that material which has exceeded its shelf life is discarded. The inspector determined through discussions with the MSU Supervisor and review of QA records that this inspection had not been performed for protective coatings. The RS&PMI manual was revised on June 9, 1981, to add this inspection requirement, but the site never incorporated the inspection requirement into the preventive maintenance program.
- (2) The inspector observed in the east issue laydown area that PVC conduit (purchased under TVA contact 80 K7-594172) was stored in direct sunlight. The RS&PMI manual, section 6QC, paragraph 1 requires PVC conduit to be stored in bundles out of direct rays of the sun.

These two examples of failure to follow procedures were identified to the licensee as violation 518,520/82-08-01, Failure to follow procedures on storage and preventive maintenance of safety-related materials.

Within the areas examined, one violation was identified as item 518,520/82-08-01.

6. Extended Construction Delay-Review of Quality Records (92055 B) Units A1 and A2

The inspector selected the safety-related items identified in paragraph 5.b to review the pertinent quality related work and inspection records with respect to receipt inspection, storage, and preventive maintenance activities. The inspector reviewed the receiving inspection reports, certificates of conformance, and preventive maintenance cards to ascertain whether these records are in accordance with established procedures, whether the frequency and timing of inspections is adequate, and whether nonconformances were adequately controlled. Certificates of conformance properly identified the purchased items and the specific requirements the item met or did not meet, and were signed by an appropriate member of the supplier's QA group

where applicable. Receiving inspection reports properly identified the items, specified the storage and maintenance requirements, were checked for shipping damage and use, and were signed by the QC inspector. The inspector reviewed the preventive maintenance inspection documentation for the period January 1982 through June 1982 to determine whether the required maintenance had been scheduled and performed in accordance with the RS&PMI manual. The inspector did not find any QA records to indicate that the required preventive maintenance inspection had been performed on protective coatings. This item was identified as an example of failure to follow procedures for preventive maintenance and is discussed in paragraph 5.b above.

The inspector also examined QA audits (5.a.4 and 5.a.5) conducted in the areas of preventive maintenance and housekeeping. These audits reflect that housekeeping and preventive maintenance conditions were being met for Plant A and that any discrepancies noted received proper and timely corrective action.

Within the area examined, no violations or deviations were identified.