



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

Report Nos. 50-438/81-22 and 50-439/81-22

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

Facility Name: Bellefonte

License Nos. CPPR-122 and CPPR-123

Inspection at Bellefonte site near Scottsboro, Alabama

Inspector T. E. Conlon for  
A. B. Ruff

9-28-81  
Date Signed

Accompanying Personnel: Sam Jeng-Yuan Chen, Taiwan Atomic Energy Council

Approved by T. E. Conlon  
T. E. Conlon, Section Chief  
Engineering Inspection Branch  
Engineering and Technical Inspection Division

9-28-81  
Date Signed

SUMMARY

Inspection on September 8-11, 1981

Areas Inspected

This routine, unannounced inspection involved 26 inspector-hours on site in the areas of electrical cables and termination and instrumentation components and systems. The work, work activities, and records in these two areas were examined.

Results

Of the two areas inspected, no violations or deviations were identified in one area; one violation was found in one area (Failure to Follow Procedure in the Routing and/or Routing Inspection of Safety-Related Electrical Cables, paragraph 6).

8112070549 811117  
PDR ADOCK 05000438  
Q PDR

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*W. R. Dahnke, Project Manager
- \*F. Gilbert, Construction Engineer
- \*G. K. Blackburn, General Construction Superintendent
- \*F. J. Huffman, Assistant Construction Engineer, Electrical
- \*D. A. Freeman, Supervisor, Electrical Engineering Unit (EEU)
- \*A. L. Richards, QC Supervisor, EEU
- \*W. L. McCollum, Supervisor, Instrumentation Engineering Unit (IEU)
- \*R. B. Willis, Field Engineering Supervisor, IEU
- \*W. F. Capley, QC Supervisor, IEU
- \*D. R. Bridges, Supervisor, QCRU

Other licensee employees contacted included construction craftsmen and technicians.

#### NRC Resident Inspector

J. D. Wilcox, Jr.

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on September 11, 1981 with those persons indicated in paragraph 1 above. The licensee acknowledged the violation (Number 50-439/81-22-01) that is discussed in paragraph 6.

### 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 conducted a walk-through inspection of the auxiliary building and cable spreading room. The current status of the electrical areas of the construction was observed. The calibration of an electrical module, 1VJ-1FM-033B-B, for the Reactor Building A/C and Cooling System was observed.

Within the areas examined, there were no violations identified.

activities and quality records associated with these transmitters were examined to insure that receipt inspection, storage, location, mounting, identification, separation, scaling and/or calibration, and inspections were performed in accordance with SAR and QA commitments.

Within the areas examined, there were no violations identified.

6. Electrical (Cables and Termination I) - Observation of Work and Work Activities (Unit 2)

The inspector selected the following safety-related electrical cables for examination: 2EI-ECA4-8-S; 2VA-ECA3-5-B; 2EA-ECA3-111-D; 2KE-ECA4-33-A; 2KE-ECA4-37-B; and 2EI-ECA2-39-A.

The cables were examined to insure that SAR and QA commitments were complied within the areas of storage, handling, nonconformance control, issue of specified material, identification, inspection, installation and installation inspection. Also verified location, routing, protection, separation, grounding, cable and wireway identification, physical loading of wire wireways, termination and nondestructive test. The inspector noted that two safety-related power cables (2EI-ECA4-8-S and 2EI-ECA4-2-S) in the 480 V Class 1E AC Auxiliary Power Distribution System were improperly labelled or were not routed as detailed on the cable pull slips. The site issued OCIR 12,681 to investigate this discrepancy. The cable pull slips had been signed off as complete and satisfactory. This is a violation and was identified to the licensee as 50-439/81-22-01, "Cable Routing or Tagging Does Not Agree With the Cable Pull Card".

7. Electrical (Cables and Terminations I) - Review of Records (Unit 2)

The records associated with receipt inspection, material certification, installation (including routing), termination and nondestructive examination for the cables listed in Paragraph 6 were reviewed to insure that SAR and QA commitments were met.

The following nonconformances were reviewed: 1439; 1387; 1498; 1371; 1342; 1319; 1247; 982; 980; 1529; and 1376. These records were current, legible and readily retrievable. Some of the NCR's were still in the process of having corrective action being performed. The corrective actions specified appeared satisfactory.

Two QA audits; BN-E-80-10, "Electrical Cable Installation and Inspection", and BN-E-81-14, "Electrical Cable Installation, Inspection and Identification" were reviewed. The records confirmed that required audits were performed and that the identified deficiencies were corrected or being corrected.

Within the areas examined, there were no violations identified.

8. Instrumentation (Components and Systems I) - Observation of Work, Work Activities and Review of Quality Records (Unit 1)

The inspector selected The Essential Raw Cooling Water Pump 1 Discharge Pressure Transmitter, 1KE-IPT-001-A, and Component Cooling Water Cooler A Outlet Flow Transmitter, 1KC-IFT-006-A for examination. The work, work