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

MAR 4 1980

Report Nos. 50-390/80-04 and 50-391/80-03

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

Facility Name: Watts Bar Nuclear Plant

Docket Nos. 50-390 and 50-391

License Nos. CPPR-91 and CPPR-92

Inspection at Watts Bar site near Spring City, Tennessee

Inspector: J. D. Gibbons 3/4/80
T. D. Gibbons Date Signed

Approved by: T E Conlon 3-4-80
T. E. Conlon, Section Chief, RC&ES Branch Date Signed

SUMMARY

Inspection on February 4-8, 1980

Areas Inspected

This routine, unannounced inspection involved 39 inspector-hours on site in the areas of: electrical cables, termination work and quality records; instrumentation components, systems work activities and quality records; instrumentation cable, termination work and quality records.

Results

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

DETAILS

1. Persons Contacted

   Licensee Employees

   *J. E. Wilkins, Project Manager
   *A. W. Rogers, Supervisor QA
   *J. H. Perdue, Supervisor Electrical Engineering Unit

   NRC Resident Inspector

   *T. L. Heatherly

   *Attended exit interview

2. Exit Interview

   The inspection scope and findings were summarized on February 8, 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. Independent Inspection Effort (Units 1 & 2)

   The inspector conducted a three hour backshift inspection observing electrical equipment installations. The partial installation of several instruments was examined.

6. Instrumentation (Components and Systems II) Review of Quality Records

   The inspector examined the records on pressure transmitter 1-PT-68-68 to assure that the SAR and QAM requirements were complied with in the areas of receiving inspection, vendor certifications, storage handling, cleanliness, identification, installation, and installation inspection.

   The calibration of two radiation monitors O-RE-90-122 and O-RE-90-3 were examined to assure that the calibrations were completed as specified and that the data is current and controlled. Within the areas examined there were no items of noncompliance identified.

7. Instrumentation (Components and Systems II) Observation of Work and Work Activities (Unit 1)

The inspector selected two pressure switches which are in the instrument air system. The switches O-PS-32-62A and O-PS-32-62-A were examined to assure the SAR and QAM requirements were complied with in the areas of identification, location, protection, cleanliness, testing, noncompliance control and inspection.

The inspector examined the calibration and test records for radiation montiors O-RE-90-122 and O-RE-90-3.

Within the areas examined there were no items of noncompliance identified.

8. Electrical (Cable and Terminations II) Observation of Work and Work Activities

The nine cables were selected for review to assure that the FSAR and QAM requirements were completed with in the areas of issue control material identification, inspection procedures and raceway loading. The cables examined were 1-3V-63-2387-A, 1-3V-63-2377-A, 1-3V-63-2394-B, 1-3V-63-2381-B, 1-3PP-63-605A, 1-3PP-74-578-A, 1-3PP-63-603-A, 1-3PP-74-577A, and 1-3V-63-2389-A.

Within the areas examined there were no items of noncompliance identified.

9. Electrical (Cable and Terminations II) Review of Quality Records (Unit 1)

The cables identified in paragraph 8 were selected for review of Quality records to assure that the SAR and QAM requirements were met in the areas of receipt inspection and material certification.

Cables 1-44-63-2120-A, 1-4V-63-3140-B, 1-4V-63-3130A, 1-3V-63-3131A, 1-3V-63-4141B and 1-3V-63-2123A were examined for material certification.

Cables 1-5PP-3-662-B, 1-4PL-62-6145A, 1-4V-70-2888-B, 1-4PL-31-3301-A, 1-5PP-3-650A, and 1-3PL-62-6149-A were inspected to assure that the receiving inspection was completed and that the terminations were properly installed.

Within the areas examined there were no items of noncompliance identified.

10. Instrumentation (Cables and Terminations I) Observation of Work and Work Activities (Unit 1)

Twelve instrument cables were selected for examination as follows 1-2PS-47-241D, 1-2PS-47-246E, 1-2PS-47-251E, 1-2PS-47-243D, 1-2PS-47-248E, 1-2PS-47-253F, 1-2PM-63-3870D, 1-2PM-68-595E, 1-2PM-68-691E, 1-2PM-68-648E, 1-2PM-68-934F and 1-2PM-68-646E. The cables were examined to assure that the SAR and QAM requirements were complied within the areas of receiving inspection, storage, handling, identification, material issue, identification, inspection, work and inspection procedures; size and type of cable, termination components, location, routing, protection, separation, raceway identification and cable terminations.

Within the areas examined there were no items of noncompliance identified.

11. Instrumentation (Cables and Terminations I) Review of Quality Records (Unit 1)

The cables identified in paragraph 10 were selected for a quality records review to assure that the SAR and QAM requirements were complied with in the areas of receipt inspection, vendor test reports, source inspection reports, material certifications, installation records, location, routing, protection, identification cable pulling tension, and cable terminations.

Within the areas examined there were no items of noncompliance identified.

12. Instrumentation (Cables and Terminations II) Observation of Work and Work Activities (Unit 1)

The inspector selected three cables as follows 1-2PM-1-1341J, 1-2PM-1-1367H and 1-2PM-1-1476J. The cables were examined to assure that the SAR and QAM requirements were complied with in the areas of receiving inspection, storage, handling, identification, material issue, identification, inspection, work and inspection procedures, size and type of cable, termination components, location, routing, protection, separation, and raceway identification.

Within the areas examined there were no items of noncompliance identified.

13. Instrumentation (Cables and terminations II) Review of Quality Records (Unit 1)

The cables identiifed in paragraph 12 were selected for a quality records review to assure that the SAR and QAM requirements were complied with in the areas of receipt inspection, vendor test reports, source inspection reports, material certifications, installation records, location, routing, protection, identification records, location, routing, protection, identification, cable pulling tension, and cable terminations.

Within the areas examined there were no items of noncompliance identified.