



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

Report Nos.: 50-424/84-19 and 50-425/84-19

Licensee: Georgia Power Company
P. O. Box 4545
Atlanta, GA 30302

Docket Nos.: 50-424 and 50-425

License Nos.: CPPR-108 and CPPR-109

Facility Name: Vogtle 1 and 2

Inspection Dates: July 17-20, 1984

Inspection at Vogtle site near Waynesboro, Georgia

Inspector: *N. Merriweather*
N. Merriweather

8/2/84
Date Signed

Approved by: *T. E. Conlon*
T. E. Conlon, Section Chief
Engineering Branch
Division of Reactor Safety

8/6/84
Date Signed

SUMMARY

Areas Inspected

This routine unannounced inspection involved 27 inspector-hours on site in the areas of electrical equipment installation and quality records.

Results

No violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *H. H. Gregory, General Manager Construction Department
- *W. T. Nickerson, Deputy Project General Manager
- *M. H. Googe, Project Construction Manager
- *R. W. McManus, Manager Quality Control
- *C. W. Hayes, Vogtle Quality Assurance Manager
- *B. C. Harbin, Manager Engineering Support
- *R. H. Robinson, Equipment Supervisor
- *G. A. McCarley, Project Compliance Coordinator
- *S. D. Halton, QA Engineering Section Supervisor
- *T. S. Bargeloh, QA Engineer
- *W. C. Gabbard, Compliance Representative
- B. Dixon, QC Inspector
- D. Timmerman, Senior QC Inspector
- J. Jenkins, QC Inspector
- L. Hatcher, Inspector Supervisor
- A. Lawton, QC Inspector

Other licensee employees contacted included construction craftsmen and QC technicians.

NRC Resident Inspector

*W. F. Sanders

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on July 20, 1984, with those persons indicated in paragraph 1 above. The licensee was informed of the inspection finding listed below. The licensee acknowledged the inspection finding with no dissenting comment.

Inspector Followup Item, 424/84-19-01, Review the acceptability of the return or wrap welds used on the 123V DC battery chargers.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Electrical (Components and Systems II) - Observation of Work and Review of Quality Records (51054 and 51056) - Unit 1

The inspector selected the following safety-related electrical components for examination to verify that the as-built installations were in accordance with approved drawings, procedures, and specifications.

Class IE Electrical Equipment

Battery Chargers Nos. 1-1806-B3-CAA, CAB, CBA and CBB
 DC Distribution Panels Nos. 1-1806-Q3-DA1 and DA2
 DC Motor Control Center No. 1-1806-S3-DCA
 DC Switchgear No. 1-1806-S3-DSA
 Battery Racks No. 1-1806-S3-RYA
 DC Batteries No. 1-1806-B3-BYA
 DC Auxiliary Relay Panel Nos. 1-1816-U3-001 and 002
 Inverter 1-1807-Y3-IA11

The inspector verified that the equipment had been properly inspected upon receipt, was located and mounted in accordance with drawings, nonconforming conditions were identified, protection was adequate, and QC inspections had been performed and documented in accordance with procedures. All of the safety-related equipment identified above was anchored to the floor by welding the panels to embedded plates. The inspector compared the anchoring of this equipment to the as-built drawings to verify proper weld patterns, weld size, and visual quality of the welds. One minor concern was identified with the welding of the 125V DC battery chargers to the embedded plates. A wrap or end return weld was made on one side of the front panel. This configuration was the same for all eight safety-related battery chargers on Unit 1. The battery chargers were all welded using 1/4 inch intermittent fillet welds on the front and 3/16 inch intermittent fillet welds on the sides. The welds were four inches in length with a required center to center spacing of ten inches.

The QC acceptance requirements for visual inspection are described in specification X3AR01, Appendix VC. This specification states in part that "wrap or return welds are considered to be overlength unless they are specifically required and defined by the design drawing". The inspector discussed this concern with GPC and Bechtel Field Engineering Personnel to determine if the use of wrap welds was acceptable and whether these are considered additional welds. Bechtel Engineering Personnel considered these welds to be additional welds; however, GPC QC committed to issue a Deficiency Report on all battery charger installations to have Bechtel formally review this concern to determine if these welds are required and whether they should be indicated on the as-built drawings. This concern was identified to the licensee as inspector followup item 424/84-19-01, Review the acceptability of the return or wrap welds used on the 125V DC battery chargers. In addition to the above, the inspector reviewed the installation records on this equipment which included GPC Equipment/Material receipt inspection reports, electrical equipment installation turnover and inspection reports (Parts 1, 2 and 3), visual weld inspection reports, daily

rigging and lifting inspection reports, vendor certificates of compliance, certified test reports, and vendor nonconformance reports. The records indicated that the equipment conforms to procurement specifications and was receipt inspected and accepted for use by construction. The installation records indicate that the equipment was installed in accordance with procedures and drawings and that all deficiency reports have been dispositioned and closed. The certification records for two level II inspectors certified in equipment installation and visual inspection were examined and found to be acceptable.

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