



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA STREET, N.W.
 ATLANTA, GEORGIA 30323

Report Nos.: 50-424/85-01 and 50-425/85-01

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 Conducted: December 18, 1984 - January 22, 1985

Inspectors: W. F. Sanders 2/1/85
 for W. F. Sanders, Senior Resident Inspector Date Signed
 Construction

J. F. Rogge 2/1/85
 for J. F. Rogge, Senior Resident Inspector Date Signed
 Operations

Accompanying Personnel: R. J. Schepens, Resident Inspector, Construction

Approved by: M. V. Sinkule 2/1/85
 M. V. Sinkule, Section Chief Date Signed
 Division of Reactor Projects

SUMMARY

Scope: This routine, unannounced inspection entailed 472 resident inspector-hours on site (96 hours were on backshifts) inspecting: quality assurance, reactor vessel bottom attachment of incore instrumentation, inplace storage and protection of safety-related equipment, primary containment post tensioning, repair of primary containment concrete, and review of procurement and verification program.

Results: No violations or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

- D. O. Foster, Vice President and Project General Manager
- *P. D. Rice, Vice President and General Manager, QA
- W. C. Ramsey, Readiness Review Manager
- W. T. Nickerson, Deputy Project General Manager
- H. H. Gregory III, General Manager Nuclear Construction
- G. Bockhold, Jr., General Manager Nuclear Operations
- O. Batum, General Manager Engineering and Licensing
- *C. W. Hayes, Project Quality Assurance Manager
- E. D. Groover, Site Quality Assurance Manager - Construction
- D. M. Fiquett, Project Construction Manager - Unit 2
- *M. H. Googe, Project Construction Manager - Unit 1
- B. C. Harbin, Manager Quality Control
- *R. C. Walker, Sr., QA Field Representative
- *G. A. McCarley, Project Compliance Coordinator
- *W. C. Gabbard, Assistant Project Compliance Coordinator
- J. O. Dorough, Administrative Manager

Other licensee employees contacted included craftsmen, technicians, supervisors, engineers, inspectors, and office personnel.

Other organizations

D. L. Kinnsch, Project Field Engineering, Bechtel Power Corporation

*Attended Exit Interview

2. Exit Interview

The inspection scope and findings were summarized on January 22, 1985, with those persons indicated in Paragraph 1 above. The following item was discussed:

Unresolved Item (50-424/85-01-01 and 50-425/85-01-01) Purchasing of Welding Electrodes.

3. Licensee Action on Previous Enforcement Matters

This subject was not addressed in the inspection.

4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or which may involve violations or deviations. A new unresolved item was identified during this inspection and is discussed in Paragraph 10.

5. Construction Inspection

Periodic general inspections were made throughout this reporting period in different areas of both facilities. The areas inspected were selected on the basis of the scheduled activities and were varied to provide wide coverage. Observations were made of activities in progress to note defective items or items of noncompliance with required codes and regulatory requirements. On these inspections particular note was made of the presence of quality control inspectors, supervisors and quality control procedures evidence in the form of available process sheets, drawings, material identifications, material protection measures, performance of tests, and housekeeping.

Interviews were made with craft personnel, supervisors, coordinators, quality control inspectors, and others as they were available in the work areas.

No violations or deviations were identified.

6. Safety-Related Components (50073C)

The inspection consisted of plant tours to observe protection of installed components to determine that adequate protection from dirt, dust, debris, water, or adjacent construction activities were in place. Unit 1 equipment examined included:

- Residual Heat Removal (RHR) Pumps
- Diesel Generators
- Boric Acid Storage Tank
- Containment Spray (CS) Pumps
- Containment Penetration Encapsulation Vessel for Train A & B RHR and CS (both units)
- Auxiliary Feed Pumps
- Pressurizer
- Main Coolant Pump Casings
- Steam Generators
- Auxiliary Component Cooling Water (ACCW) Heat Exchangers
- Component Cooling Water Heat Exchangers
- ACCW Pumps
- Reactor Makeup Pumps
- Boron Injection Tank
- Cable Spreading Room Train A & B
- Integrated Reactor Pressure Vessel Head

- 4160V Train A & B Switchgear (1AA02 and 1BA03)
- 13.8KV Reactor Coolant Pump Switchgear

No violations or deviations were identified.

7. Reactor Vessel Bottom Mounted Instrumentation (50063C)

An inspection was conducted on the bottom mounted instrumentation thimble welds underneath the Reactor Pressure Vessel (RPV). As of this inspection 29 of 58 thimble (BMI to RPV penetration) welds had been made. Of these 29 completed welds, 16 were found to be acceptable; 11 were noted as requiring rework of which 5 had visual grindouts; and 2 had Nisco Deviation Report No. 062 issued due to no socket gap after welding. A review was then conducted of Nisco's process control sheet 90-1, Revision A dated December 13, 1984, to verify that their documentation reflected the "as found" condition of the 13 thimble welds requiring rework. Below is a listing of the penetrations/locations for the thimble welds found to require rework.

Penetration No./Location	Welder I.D. No.
42/D-3	N-15
20/E-5	N-15
33/C-5	N-15
51/F-1	N-15
49/D-14	N-15
39/B-6	N-15
35/B-8	N-15
57/B-3	N-15
23/D-10	N-15
31/D-12	N-15
58/B-13	N-15/N-13
12/E-9	N-15 DR-062
21/E-11	N-15 DR-062

All of the above welds requiring rework were made by the same welder who is no longer on site. The welder's problem was associated with the technique he was using.

No violations or deviation were identified.

8. Containment (47063C)

Periodic inspections were made to follow the void excavation and repair method on the Unit 1 containment shell Pour No. 1-010-016. In addition, tendon sheathing No. 130, exposed by void excavation was found to have a small hole approximately 3/8" long x 1/8" wide. These deviations have been documented on Deviation Report No. CD-07117 dated January 6, 1985. The excavation and repair methods for the tendon sheathing and void were discussed with concrete in accordance with Bechtel Specification No. X2AP01

(Construction Specification for Civil Structural Work) with a cure time of 28 days. No post tensioning activities will be allowed in this area during the cure time. The licensee inspection will be in accordance with GPC Procedure No. CD-T-02, Revision 14, Concrete Quality Control. These repairs will continue to be followed through completion by NRC.

No violations or deviation were identified.

9. Followup of Construction Deficiency Report (92700)

The following items were reported as potentially reportable items and were then determined to be not reportable. The inspector reviewed the licensee's action to resolve the issues and determined that these items were not reportable.

CDR 80-08 (Closed) Potential Voiding Behind the Reactor Cavity Liner Plate, Unit 2.

CDR 80-12 (Closed) Misplacement of 2000 psi Concrete Into the Unit 1 Tendon Gallery Access Shaft.

10. Review of Procurement and Warehouse Practices (92706B)

This inspection was made of the purchasing and warehouse practices for the procurement of material, equipment and services. Particular attention was given to the method used by the licensee in the selection of purchase orders and material for a detailed audit. The two licensee audit reports SP01-84/67 and SP02-84/81 gave the review details of 180 purchase orders and the licensee conclusion that the permanent material, equipment and services supplied by the various vendors did comply with the requirements of the purchase documents. The inspector selected the four purchase order files listed below for a further review.

Purchase Order 11013 - ASTM A 325 High Strength Nuts and Bolts
 Purchase Order 999 - Chemicals for Non Destructive Testing
 Purchase Order 2845 - E-308L and E-309 Welding Electrodes
 Purchase Order 9789 - E-8018 Welding Electrodes

During the inspection, Purchase Order 9789 in the document file lists X4AQ37 Revisions 5 and 7 and ASME Section II, Part C, SFA 5.5, 1977 Edition for the requirements for the E8018G3 Electrode; however, this reference does not list or cover this electrode or provide evidence that this electrode is in existence; in addition, there were no specified requirements for chemistry, physicals, impacts, etc. The inspector was informed that this welding material was only used on the condensers and was not used on any safety systems; therefore, the unresolved item is considered to be related to a procurement system deficiency rather than a hardware problem.

This item is considered unresolved based on discrepancies found in the purchase requirements and the quality verifications related to the receiving and verification system. The licensee has committed to provide further information to resolve discrepancies. This item is identified as Unresolved Item 50-424/85-01-01 and 50-425/85-01-01.