



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

Report Nos. 50-424/82-27 and 50-425/82-27

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

Facility Name: Alvin Vogtle 1 and 2

Docket Nos. 50-424 and 50-425

License Nos. CPPR-108 and CPPR-105

Inspection at Vogtle site near Waynesboro, Georgia

Inspector: John F. Rogge for 12/6/82  
W. F. Sanders Date Signed

Approved by: V. L. Brownlee for 12/6/82  
V. L. Brownlee, Chief, Section 2B, Division of Date Signed  
Projects and Resident Programs

SUMMARY

Inspection on October 11 - November 15, 1982

Areas Inspected

This routine inspection involved 128 resident inspector-hours on site in the areas of primary containment structures, control panels, pipe welding, steam generator modifications, material storage and pipe laydown areas, and close out of previous inspection items.

Results

Of the 6 areas inspected, no violations or deviations were identified.

## DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*D. Foster, General Manager Vogtle Project
- \*W. T. Nickerson, Manager Generating Plant Construction
- \*H. H. Gregory, III, Construction Project Manager
- \*E. D. Groover, Quality Assurance Site Supervisor
- \*M. H. Googe, Assistant Construction Project Manager
- \*C. R. Mills, Jr., Quality Assurance Field Supervisor
- \*J. E. Sanders, Project Section Supervisor
- \*T. L. Weatherspoon, Assistant Manager of Quality Control
- D. F. Wilkerson, Senior Welding Specialist

Other licensee employees contacted included construction technicians, Quality Control inspectors, supervisors and office personnel.

#### Other Organizations

- \*W. C. Uhouse, Resident Engineer - Bechtel Power Company
- L. L. Hall, Field Project Supervisor - Westinghouse Electric Corporation
- R. R. Jester, Project Manager - Neil Lampson Inc.

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were reviewed in a meeting held November 16, 1982 at the Vogtle Nuclear Station with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed in detail the inspection findings listed below.

- a. Inspector Followup Item 424, 425/82-27-01, "Control Panel Welds" paragraph 6.
- b. Inspector Followup Item 424, 425/82-27-02, "Control Panel Electrical Discrepancies" - paragraph 7.

### 3. Licensee Action on Previous Inspection Findings

- a. (Closed) 424, 425/82-11-01: "Failure to Follow Procedures for Storage of Material." This item concerned pipe spools found in an intermediate storage area which were in contact with the earth. This was in violation of Pullman Procedure XIII-5 and Bechtel Procedure X4A201 for control of stored material. Subsequent inspections indicated that the storage requirements were being followed and procedural changes to delay the requisition of pipe spools from the primary storage area until they can be placed in the designated installation has been provided.

- b. (Closed) 424, 425/82-11-02. "Final Inspections Performed Without Documented Procedures". A new procedure SU-T-01 has been written and is included in the Controlled Field Procedure Manual for the control of final inspections performed by the Survey Group. Additional verifications have been incorporated in the program.
- c. (Closed) 424, 425/82-05-03. "Specific Acceptance Criteria for Repair Cavity Geometry." Revisions have been made to the pipe welding process sheets to add instructions to prepare the defect cavity suitable for welding.
- d. (Closed) 424, 425/82-05-04. "Extraneous Marking." A memo was written to the Construction Superintendent and Quality Control Supervisor from the pipe contractor QA/QC manager requesting more attention to the appropriate use of markings.

#### 4. Unresolved Items

Unresolved items were not identified during this inspection.

#### 5. Independent Inspection Effort

Periodic inspections were made throughout this reporting period in the form of general type inspections in different areas of both facilities. The areas 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 the required codes and regulatory requirements. On these inspections, particular note was made of the presence of quality control inspectors, supervisors and quality control evidence in the form of available process sheets, drawings, material identification, material protection, 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. Observations were made in the following areas: primary containment structures Units 1 and 2, auxiliary building, control building, fuel handling building, fabrication of containment dome, field modification of steam generators, material storage and pipe laydown areas, river intake structures, and the off loading of the second steam generator for Unit 2 from the river barge.

No violations or deviations were identified.

#### 6. Control Panel Welds

Additional inspections have been made by the licensee as a follow-up to the previous inspection described in report 82-24. This inspection has revealed additional weld anomalies which have been characterized and are being evaluated within the licensee's Nonconformance Report (NCR) system, however the full scope of the weld inspection plan cannot be completed until the

drawings or design documents which show the weld requirements can be obtained from the Architect Engineer. The inspector was informed that the delay in receiving the drawings is due to the time required to upgrade the drawings with the requirements. This is Inspector Followup Item 50-424, 425/82-27-01.

#### 7. Control Panel Electrical Components

The problems revealed and described in the above paragraph gave sufficient reason to request a preliminary inspection of the electrical components inside of the cabinets. The results of this inspection by the licensee has revealed several discrepancies as listed:

- a. Questionable identity of some of the components.
- b. Components wired normally open vs normally closed.
- c. Electrical terminals made with questionable qualifications P. V. C. connectors used contrary to restrictions on this material).

This is Inspector follow up item 50-424, 425/82-27-02.

#### 8. Pipe Welding Observations

An inspection was made of the activities relative to the application of automatic equipment for the welding of pipe. The equipment is made by "Diametrics" and utilizes a tungsten, inert gas, cold wire feed process is incorporated in a special designed welding head mounted on a circular track which encompasses the pipe. The welding variables, although adjustable with a remote pendant, are automatically controlled and produce a precise welding technique. Although the equipment is new to this project, it has been used successfully at other sites. Presently the activities are relative to the trial, set up and use of the equipment in performance qualifications and finalizing the procedure qualifications. The inspector was informed that the pipe contractor has valid procedure qualifications from the previous contract which used the same essential variables and can be used on this contract with possible revisions of some non essential variables thus eliminating the requirement to requalify the procedure. Observations of the welding in progress inducted that quality welds, free of apparent defects can be produced consistently with this equipment.

No violations or deviations were identified.