



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

Report Nos. 50-424/82-22 and 50-425/82-22

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

Facility Name: A. W. Vogtle 1 and 2

Docket Nos. 50-424 and 50-425

License Nos. CPPR-108 and CPPR-109

Inspection at Vogtle Nuclear Station site near Waynesboro, Georgia

Inspector: W. F. Sanders
W. F. Sanders

Sept 28, 1982
Date Signed

Approved by: V. L. Brownlee
V. L. Brownlee, Section Chief, Division of
Projects and Resident Programs

Sept 29, 1982
Date Signed

SUMMARY

Inspection on August 11 - September 10, 1982

Areas Inspected

This routine announced inspection involved 176 resident inspector-hours on site in the areas of primary containment fabrication, rebar welding, concrete placements, control panel welds, Steam Generator Modifications, and Audits of Field Change Notices.

Results

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

DETAILS

1. Persons Contacted

Licensee Employees

- *D. O. Foster, Project General Manager
- *W. T. Nickerson, Manager Nuclear Plant Construction
- *H. H. Gregory, III, Construction Project Manager
- J. A. Bailey, Licensing Project Manager
- *M. H. Googe, Assistant Construction Project Manager
- B. Bolander, Survey Section Supervisor
- C. R. Miles, Quality Assurance Supervisor
- *R. W. McManus, Manager of Quality Control
- *E. D. Groover, Quality Assurance Site Supervisor
- *R. E. Folker, Senior Quality Assurance Engineer

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

Other Organizations

- *T. B. McLachlan, Bechtel Resident Engineer
- *J. Mamon, Bechtel Resident Quality Engineer
- *W. C. Uhouse, Bechtel Resident Engineer "N" Stamp
- L. Hall, Site Project Manager, Westinghouse Steam Generator Modifications

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on September 8, 1982, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed the inspection findings listed below.

(Open) Violation 50-424, 425/82-11-02 "Scope of Inspection procedures - Paragraph 3."

(Open) Inspector Followup Item 50-424, 425/82-22-01 "Control Panel Welds" paragraph 8.

3. Licensee Action on Inspection Findings

(Open) Violations 50-424, 425/82-11-02. The procedure SU-T-01, Survey Control, written in response to the adequacy in addressing all of the dimensional characteristics related to final inspections performed. A meeting was held with the interested parties and the inspector was given additional information in the form of training texts and documentation of inspections. This violation will remain open until the additional information is evaluated.

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 nuclear service cooling water structures.

No items of noncompliance were identified.

6. Cad-Welding

Thirty cad weld rebar joints were randomly selected in the top or last concrete placement 1-010-017 of Unit 1 primary containment for a visual inspection to determine sufficient filler metal. Of these selected, one of the joints TVXV 664 was not completely filled in the area with a void that measured approximately 1" deep. This was subsequently checked with Quality Control who provided the information that this condition had been identified, evaluated and was acceptable to the design criteria. Based on the information provided, the inspector considered this items to be acceptable.

No items of noncompliance were identified.

7. Concrete Placements

The inspector observed various activities relative to the placement of pour numbers 1-010-017 No. 1 containment, and A-08-B Auxiliary building. The acceptance criteria and requirements used for the inspection appears in the following documents:

1. Specification X21P01, Forming, Placing, Finishing, and Curing Concrete.
2. Field procedure CD-T-02, Concrete Quality Control.
3. P.S.A.R sections 3 and 17

The inspector noted that the forms were tight and clean, the rebar properly installed, spaced, and secured. The interior of the forms were well lighted, the vibrating adequate and monitored by quality control inspectors. The inspector noted that prepour tests were in progress and post placement inspections showed the required curing controls were being implemented.

8. Control Panel Welds - IE Information Notice No. 82-34

A visual inspection by the licensee was made of control panels received and in storage. This was prompted by weld deficiencies described in the Vendor and Technical Programs Branch, Region IV, Report Nos. 99900761/82-01 (Reliance) 99900771/82-01 (Consip) and 99900712/80-01 (Systems Control). The inspector noted that (44) panels had been received from reliance and were in site storage. Thirty-four panels are classed as non-"Q" and ten are classed as "Q". The inspection was limited and will be concluded when required fabrication and welding criteria is obtained. The inspector was informed that all of the panels on site would be inspected by a qualified welding inspector. In the interim these panels will remain in storage and procurement activity has been alerted to the problem, for increased surveillance. The limited inspection performed did reveal welds that appeared Questionable. This is an inspector follow-up item 50-424, 425/82-22-01.

No items of noncompliance were identified.

9. Audit of Field Change Notices (FCN's)

A audit was made of FCN's written for the civil, Electrical and Mechanical activities to appraise the use of FCN's relative to the severity of the item as they would apply to design change, and to the potential for proceeding without verification past the point where the installation would become irreversible without extensive demolition and rework. The following tabulation of FCN's were randomly selected for this review.

Civil - 78 FCN's total	44 FCN's reviewed
Electrical - 50 FCN's total	37 FCN's reviewed
Mechanical 7 FCN's total	7 FCN's reviewed

In addition an audit of the measures instituted for the control of the program was performed on a Quality Assurance Audit CD07-82/28, and the periodic 60 day reviews were performed in December, February, May and July by the manager of Quality Control and the Assistant Construction project manager. This inspector's audit did not reveal any deviation from the licensee's letter of commitment dates October 15, 1981.

No items of noncompliance were identified.

10. Primary Containment Unit 2

An inspection was made pertaining to the installation of rebar for the reactor foundation and rebar for the shield walls of the containment. An

inspection was also made of the leak detection or monitor system piping and valves. Inspections were made of the welds joining the pipe to the control valves. The valves examined are identified as:

2-1222-U4-030 SN 005
2-1222-U4-031 SN 006
2-1222-U4-032 SN 007
2-1222-U4-033 SN 008
2-1222-U4-034 SN 009
2-1222-U4-035 SN 0010
2-1222-U4-036 SN 0011
2-1222-U4-037 SN 0012
2-1222-U4-038 SN 0013
2-1222-U4-039 SN 0014
2-1222-U4-040 SN 0015
2-1222-U4-041 SN 0016

No items of noncompliance were identified.

11. Steam Generator Auxiliary Feedwater Nozzle Modifications

An inspection was made of the activities and progress relative to the addition of an auxiliary feedwater nozzle in each of the four steam generators. The inspector noted that the nozzle openings had been completed by oxy-acetylene cutting from the inside of the vessel to the outside and the base material had been preheated prior to burning. The operation produced smooth surfaces with a minimum of gouging. An inspection was made of the facilities and procedures for control and issue of welding material. Direct inspection observation was made of the electrode storage area, preheat ovens, temperature control and calibration, electrode identification, and used electrode disposal. The document used to control the material is QAP 6., paragraph 4.4.

No items of noncompliance were identified.