



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

Report Nos.: 50-424/84-15 and 50-425/84-15

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 Date: June 19-22, 1984

Inspection at Vogtle site near Waynesboro, Georgia

Inspector: *T. D. Gibbons*  
T. D. Gibbons

*7/10/84*  
Date Signed

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

*7/10/84*  
Date Signed

SUMMARY

Areas Inspected

This routine, unannounced inspection involved 24 inspector-hours on site in the areas of unresolved items, licensee identified items, IE Bulletin, electrical components and systems work and work activities and Inspector Followup item.

Results

No violations or deviations were identified.

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## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

- \*W. T. Nickerson, Deputy Project General Manager
- \*E. D. Groover, QA Site Manager
- \*C. W. Hayes, Vogtle QA Manager
- \*T. L. Weatherspoon, Assistant Manager, QC
- \*J. L. Blocker, Assistant Manager, QC
- \*G. A. McCarley, Project Compliance Coordinator
- \*M. H. Gooze, Assistant Project Construction Manager
- \*D. M. Fiquatt, Field Construction Operations Manager

#### Other Organization

- \*D. L. Kinnsch, Project Engineer, Bechtel Power Corporation

#### NRC Resident Inspector

- \*W. Sanders, Senior Resident Inspector

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on June 22, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

### 3. Licensee Action on Previous Enforcement Matters

- a. (Closed) Unresolved Item (URI) 424, 425/84-02-01, Questions Concerning the Sampling Program Used in Procedure ED-T-04. Procedure ED-T-04 Installation of Major Electrical Equipment initially required QC to perform a percentage sampling to verify torquing fasteners for the panel to panel fasteners. The sample size raised questions as to the adequacy with regard to ANSI N45.2-1977. The ANSI states in part "Where a sample is used to verify acceptability of a group of items, the sampling procedure shall be based on recognized standard practices and shall provide adequate justification for the sample size and selection process". The procedure lacked definitive requirements detailing what action an inspector should take if the torque was less than the minimum, that is, is the sample size increased or is the discrepancy to be documented by a discrepancy report (DR) or are both required. The licensee has indicated that the Nonconformance Control GD-T-01 Procedure requires a DR be issued on any torquing deficiency found. The licensee has issued a Field Procedure Change

Notice (FPCN) #8 to require 100% torque verification. The licensee has reviewed all DRs issued in the past year to verify that there were no torquing discrepancies identified.

- b. (Closed) URI 424, 425/83-19-01, Determine a Method for Incorporating Construction Deficiency Reports (CDR) Resolutions in Design Drawings. During the examination of the resolution of CDR 82-24 it was determined that the licensee lacked a procedure to insure incorporation of the applicable CDR design changes into the drawings and instructions. The licensee has issued procedure QA-04-02 "Significant Deficiency/Defect Reporting" Revision 7, dated November 22, 1983. This procedure requires that a QA followup on CDR items to insure that the required work is implemented.

#### 4. Unresolved Items

Unresolved items were not identified during this inspection.

#### 5. Licensee Identified Items

- a. (Closed) Item 424/CDR 82-37 and 425/CDR 83-37, "Reliance Electric Termination Deficiencies" (10 CFR 50.55(e)). The final report was submitted on July 28, 1983. The report has been reviewed and determined to be acceptable. The inspector held discussions with responsible licensee representatives, reviewed supporting documentation to verify that the corrective actions identified in the report have been completed. The licensee and Reliance have reworked all unacceptable terminations. The rework was completed under QC inspection. Termination made with a crimping tool other than that recommended by the connector manufacturer and that were considered acceptable were verified by a type test. This type test was performed by Underwriter Laboratories (UL) at Reliance's request and documented under UL test 468A. Reliance has revised their QA manual to include the requirements that their personnel use only crimping tools that are recommended by the connector manufacturer. The licensee's AE has reviewed and approved Reliance's revised QA Manual.
- b. (Closed) Item 424/CDR 83-40 and 425/CDR 83-40, "Westinghouse DS 416 Reactor Trip Breakers" (10 CFR 50.55(e)). The final report was submitted on September 6, 1983. The report has been reviewed and determined to be acceptable. The inspector held discussions with responsible licensee representatives, reviewed supporting documentation to verify that the corrective actions identified in the report have been completed. The licensee will incorporate the Westinghouse technical bulletins into the plant maintenance procedures. Westinghouse has replaced the undervoltage attachments for the Unit 1 breakers. The Unit 2 breakers were loaned to Alabama Power Company and modified at the Farley plant as indicated Alabama Power Company letter to the licensee.

## 6. Inspector Followup Items

- a. (Closed) 424-425/84-02-02, Concerns on ED-T-09, Insulation Test. The licensee has established additional controls on the use of meggers. The licensee procedure ED-T-09, Revision 4, will remain as the governing document with the addition of QC monitoring ten percent of all megger tests and initialing the reports they witness. The procedure has been revised to require an engineer to compute the insulation resistance and polarization index. A program for recertification of craft personnel using a megger has been implemented. The certification records are stored in the QA vault.
- b. (Closed) 424-425/84-02-03, Review Procedures for the Development, Control, and Implementation of Cable Termination Work Packages (Procedure EC-17.). The licensee's electrical contractor has issued a new procedure EC-17, Revision 0, dated May 4, 1984. This procedure details the development, control, and implementation of the cable termination work packages. The procedure has been approved by the licensee and specifically requires that the craft use the design drawings for locating termination points.

## 7. Electrical (Components and Systems I) Observation of Work and Work Activities

The inspector examined the following equipment which was stored in place or being installed.

1-1804-S3-03	5KV Switchgear
1-1804-S3-A02	5KV Switchgear
1-1804-S3-A03	5KV Switchgear
1-1805-S3-B06	480V Load Center
1-1805-S3-B04	480V Load Center
1-1805-S3-ABE	480V Motor Control Center
1-1805-S3-BBC	480V Motor Control Center

The equipment was in good condition, clean, well protected, and access to the equipment was controlled. This area will be reexamined when work is more complete.

## 8. IE Bulletin (IEB) (92717)

- a. (Closed) IEB 83-08, Electrical Circuit Breakers With An Undervoltage Trip Feature in Use in Safety-Related Applications Other Than The Reactor Trip System. The licensee responded to the bulletin on March 27, 1984. The response states that the subject type circuit breakers are not used on safety-related service at the Vogtle site.

9. Inspector Followup Item (IFI)

(Closed) IFI 424, 425/82-27-02, Control Panel Electrical Components.  
This item was reviewed in conjunction with the CDR that was discussed and closed in paragraph 5.a.