



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report Nos. 50-425/79-09 and 50-425/79-09

Licensee: Georgia Power Company
270 Peachtree Street, N.W.
Atlanta, Georgia 30303

Facility Name: Vogtle Nuclear Plants, Units 1 and 2

Docket Nos. 50-424 and 50-425

License Nos. CPPR-108 and CPPR-109

Inspection at Vogtle site near Waynesboro, Georgia

Inspector:

M. D. Hunt

M D Hunt

5/31/79
Date Signed

Approved by:

A. R. Herdt, Section Chief, RCES Branch

A R Herdt

Date Signed

SUMMARY

Inspection on May 15-16, 1979.

Areas Inspected

This routine, unannounced inspection involved seventeen inspector-hours on-site in the areas of concrete placement, concrete testing and cement receipt.

Results

Of the three areas inspected, no apparent items of noncompliance or deviations were identified in two areas; one apparent item of non-compliance was found in one area (Infraction-Unauthorized placement of inspected concrete, Paragraph 5).

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DETAILS

1. Persons Contacted

Licensee Employees

- *K. M. Gillespie, Construction Project Manager
- *H. H. Gregory, III, Assistant Construction Project Manager
- *E. D. Groover, QA Site Supervisor
- *R. R. Allen, QC Manager
- *B. C. Harbin, Civil QC Supervisor
- *R. J. Pooni, Assistant Project Section Supervisor, Civil
- *C. Sarver, Jr., QA Engineer
- *J. F. D'Amico, QA Engineer

Other Organizations

- *D. Armstrong, Bechtel Resident Civil Engineering,
Bechtel Power Corporation
- *J. F. Mahlmeister, Bechtel Resident Engineer,
Bechtel Power Corporation
- *W. C. Ramsey, Project Licensing, Souther Company Services
- *J. A. Bailey, Project Licensing, Southern Company Services
- *F. R. McCarthy, Project Manager, Walsh Construction Company
- *G. G. Wisen, QC Coordinator, Walsh Construction Company

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on May 16, 1979 with those persons indicated in Paragraph 1 above. The inspector discussed his observations of the in progress pour A-08D-003C. The licensee was advised of the finding resulting in the issuance of infraction 424/79-09-01, - Unauthorized placement of rejected concrete. The licensee was later informed of unresolved item 424/79-09-02 and 425/79-09-01, Conflict between the cement specification and the PSAR.

3. Licensee Action on Previous Inspection Findings

(Closed) Infraction 425/78-09-01, Improper use of vibrators and in process testing of structural concrete. The licensee's response dated January 11, 1979 informed RII that personnel had been reinstructed in the use of vibrators during concrete placement and that the procedure for concrete placement now requires samples to be taken in accordance with ACI standards. The inspector observed the use of vibrators and end of line sampling during concrete placement. The licensee appears to be conforming to the measures stated in the response.

(Open) Deviation 424/79-07-01 and 425/79-07-01, Concrete Design Commitments-During this inspection the licensee met with the A-E and designers to resolve the wording of the PSAR regarding the strength requirements of concrete in areas other than the containment base mat, gallery, cylinder and dome. The licensee advised that NRR would be contacted regarding changes to be made in the PSAR. Also, actions will be taken to insure that the specifications agree with the requirements of the PSAR. These actions will be in the form of a general review of the PSAR and related specification, drawings and procedures.

4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or may involve noncompliance or deviations. New unresolved items identified during this inspection are discussed in paragraph 5.

5. Independent Inspection Effort

Auxiliary Building Base Slab

The inspector observed the placement in progress of a section of the auxiliary building base slab identified as pour A-080-003C containing 1200 yards of 5000 psi concrete. The placement was made by pumping methods. Several discharge points had been arranged in the pipe to provide uniform spreading of the concrete throughout the placement.

Quality control inspectors were present to observe the placement as well as others to make the required slump, temperature and air tests. Samples were taken at each 100 yards at the pipe discharge. Five test cylinders were cast for each sample tested. Testing was also performed at the truck discharge the results of which will be used in a correlation program effort. All test results observed were within the acceptance values listed on the QC documentation forms.

The inspector observed the casting of test cylinders at the concrete lab. Discussion with the inspectors indicated that they were well informed of the requirements of curing and testing cylinders, including the required documentation.

The inspector observed the receipt inspection of cement at the batch plant. It was noted that the temperature of the cement at the time of delivery was above 130 degrees Fahrenheit which is the limit stated in PSAR, Section 3.8.1.6.1. The temperatures of the nine loads of cement received May 15, 1979 ranged from 125 degrees Fahrenheit to 145 degrees Fahrenheit with the average being 140.9 degrees Fahrenheit. The inspector was informed by the QC inspector that the specification X2AP01 Civil Structural Construction Specification permitted receipt of cement up to 160 degrees Fahrenheit. The conflicts between the PSAR and the specification will be identified as an unresolved item and is identified

as 424/79-09-02 and 425/79-09-01, Conflict between the cement specification and the PSAR.

On May 16, 1979 the inspector was informed that a review of the batch tickets for pour A-080-003C revealed that two batches that were out of tolerance and rejected by the QC inspector at the batch plant had been placed on orders of the engineering staff. The two batches of concrete in questions were 8 lbs. and 17 lbs. over maximum tolerance for aggregate. However, no justification for the placement of these rejected batches was documented in that a nonconformance report was not written nor was justification documented by the staff. This item appears to be contrary to the requirements of 10 CFR 50 Appendix, Criteria V and Georgia Power Company Vogtle Field Procedure D-T-01 Nonconformance Control. This item will be identified as an infraction 424/79-09-01, Unauthorized placement of reject concrete.

Licensee Identified Item (LII) 10 CFR 50.55(e)

(Open) LII 424/78-09-02 and 425/78-09-03, Improper fabrication of imbeds. The licensee advised the inspector that the A-E is analyzing the NDE test results for the installed imbeds. GPC anticipates that testing will start about June 1, 1979.