



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

Report Nos. 50-424/79-11 and 50-425/79-11

Licensee: Georgia Power Company
270 Peachtree Street
Atlanta, Georgia 30303

Facility Name: Vogtle Nuclear Plant

Docket Nos. 50-424 and 50-425

License Nos. CPPR-108 and CPPR-109

Inspection at Vogtle Nuclear Plant near Waynesboro, Georgia

Inspector: J. R. Harris 7/3/79
J. R. Harris / Date Signed

Approved by: T. E. Conlon 7/3/79
T. E. Conlon, Section Chief, RCES Branch / Date Signed

SUMMARY

Inspection on June 12-14, 1979

Areas Inspected

This routine unannounced inspection involved 20 inspector-hours onsite in the areas of construction status; compaction; licensee action on previous findings and structural concrete.

Results

Of the 4 areas inspected, no apparent items of noncompliance or deviations were identified in 3 areas; 2 apparent items of noncompliance were found in 1 area (Infraction - backfill moisture control, paragraph 5 and Deficiency - backfill work stoppage, paragraph 5).

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DETAILS

1. Persons Contacted

Licensee Employees

- *K. M. Gillespie, Project Manager
- *E. D. Groover, QA Site Supervisor
- *W. M. Johnson, Manager, Nuclear Construction
- *D. M. Fiquett, Manager Field Operations
- *R. R. Allen, Manager of Quality Control
- *B. C. Harbin, Civil QC Supervisor
- *K. S. Sethi, Electrical QC Supervisor
- *C. Sarver, Senior QA Engineer
- N. Langford, Soils Engineer

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on June 14, 1979. The inspector discussed in detail the noncompliances (see paragraph 5) on control of Category I backfill. The licensee stated Category I backfill operations are stopped and will not commence until Bechtel evaluates the compaction controls. The licensee will inform RII:IE prior to resumption of backfill operations.

3. Licensee Action on Previous Inspection Findings

- a. (Open) Infraction (79-01-01): Calibration of Fine Aggregate Test Sieves. Two sets of calibrated sieves have been received from the National Bureau of Standards. A procedure for on site recalibration of test sieves is being developed.
- b. (Closed) Infraction (79-07-02): Electrical preventative Maintenance. The inspector examined the licensee response dated June 2, 1979 and the implementation of the corrective action stated in the response. A computer program is being developed to preclude a recurrence of the noncompliance and will be examined in future inspections. This item is closed.
- c. (Open) Deviation (79-07-01) Concrete Design Commitments. The licensee's response has been sent to NRR. This item remains open pending NRR's evaluation of the licensee's response.
- d. (Open) Infraction (79-08-01) Failure to Document Backfill Test Data. The licensee has developed a procedure and method for documenting moisture test data. However, the method and procedure which was recommended by Bechtel is inadequate; see paragraph 5. This item remains open pending resolution of backfill controls.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Independent Inspection

The inspector examined construction status and compaction controls on Category I backfill. Examination of Compaction controls disclosed the following noncompliances:

- a. Procedure CD-T-01 and specification X2AB01 specifies the moisture content of Category I backfill, at the time of placement and shall be controlled to plus or minus two percent of optimum. Test data dated June 5 through June 7, 1979 shows that the "Speedie" method that has been used to control moisture content on backfills allows a variation from optimum of up to plus or minus six percent. Failure to control the moisture content of backfills in accordance with procedure CD-T-01 and specification X2AB01 was identified to the licensee as Infraction 424/425/79-11-01, "Backfill Moisture Control."
- b. Procedure GD-T-07, "Work Stoppage," requires that a "Stop Work Notice" be issued when work is being performed in violation of governing drawings, specifications, code or approved procedures. A "Stop Work Notice" was not issued on June 5, 1979 when testing on backfill moisture content dated June 5 through June 7 showed that the moisture content of backfills could not be controlled to the plus or minus two percent specified in procedure CD-T-01 and specification X2AB01. Failure to issue a Stop Work Notice as required by procedure GD-T-07 was identified to the licensee as Deficiency 424/425/ 79-11-02, "Backfill Work Stoppage."

6. Foundations - Observation of Work and Work Activities

The inspector observed partial placement of pour number 1-05-E-001A in the bottom mat of the 1B Nuclear Service Water Tower. Acceptance criteria examined by the inspector appear in the following documents:

- a. PSAR Section 3.8
- b. Procedure CD-T-02, "Concrete Quality Control"
- c. Specification X2AP01, Section 3.6, "Material Testing"
- d. Drawing number 1X2D05E027, "Nuclear Service Water Tower 1B, Sections and Details."

Forms were tight and clean and rebar was properly installed and clean. Preplacement inspection was indicated by the signed preinspection form. Placement activities pertaining to delivery time, free fall, flow distance, layer thickness and consolidation conformed to specifications. Activities were continuously monitored by QC personnel.

Samples for temperature, slump, air content, unit weight and test cylinders taken at the discharge site met frequency and result requirements. An examination of the batch plant indicated; proper mixes were being delivered, materials were being controlled and accurate batch plant records were being generated.

No deviations or items of noncompliance were identified.