



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

Report Nos. 50-413/79-6 and 50-414/79-6

Licensee: Duke Power Company
422 S. Church Street
Charlotte, North Carolina 28242

Facility Name: Catawba Nuclear Power Station

Docket Nos. 50-413 and 50-414

License Nos. CPPR-116 and CPPR-117

Inspection at Catawba Nuclear Station near Rock Hill, South Carolina

Inspector: W. P. Ang 4-30-79
W. P. Ang Date Signed

Approved by: J. C. Bryant 5/1/79
J. C. Bryant, Section Chief, RC&ES Branch Date Signed

SUMMARY

Inspection on April 3-6, 1979

Areas Inspected

This routine unannounced inspection involved 24 inspector-hours on site in the areas of containment dome (Unit 1) work activities and records; safety related components (Unit 2) work activities and records; and general (Units 1 and 2) safety related work activities.

Results

Of the six areas inspected, no apparent items of noncompliance or deviations were identified in four areas; two apparent item of noncompliance were found in two areas (Infraction 50-413/79-06-01 - Failure to follow procedure for containment dome concrete inspection - Paragraph 5; and Deficiency 50-414/79-06-01 - Failure to follow housekeeping procedures - Paragraph 9).

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DETAILS

1. Persons Contacted

Licensee Employees

- *D. G. Beam, Project Manager
- *D. L. Freeze, Project Engineer
- *R. A. Morgan, Senior QA Engineer
- R. Morrison, Assistant General Superintendent
- *S. Dressle, Senior Construction Engineer
- *L. R. Davison, Senior QC Engineer
- J. Warren, Civil QC Supervisor
- T. Stegall, Civil Engineer
- *H. D. Mason, QA Engineer
- J. Shropshire, QA Engineer

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on April 6, 1979 with those persons indicated in Paragraph 1 above. Infraction 50-413/79-06-01 and Deficiency 50-414/79-06-01: Failure to follow procedure, were discussed. The licensee acknowledged the inspection findings.

3. Licensee Action on Previous Inspection Findings

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Containment (Structural Concrete II) - Observation of Work and Work Activities (Unit 1)

A visual inspection of pour number 32 (the first one foot thick layer) of the containment dome was performed. The concrete had been poured approximately 5 weeks prior to the inspection. The outer surface of pour number 32 was rough and had a "raked" finish according to the licensee. Numerous defects were visible on the outer surface of pour number 32. A measurement of the depth of three defects using a six inch rule revealed depths of 2", 3" and 4". To determine the extent of these defects, the licensee chipped one of the inspector identified defects (approximately 4" long x 1/2" wide x 4" deep) until sound

concrete was reached. The resultant defect after chipping was approximately 30" long x 2" wide x 8" maximum depth and extended into reinforcing bars. Additional defect areas were explored and two other defects with a magnitude similar to the one noted above were found by the licensee.

DPC QA Procedure M-2 Rev. 15, Inspection of Design Concrete, paragraph 4.6 states in part "Final concrete inspection log M-2N shall be used to document inspections of concrete surface areas and repair of defective areas ... honeycombed, cracked and other defective areas needing repair shall be noted in the remarks block of Section 1, Form M-2N" A final concrete inspection had been performed on the outside surface of pour number 32.

An inspection log, Form M-2N, had been completed. Defects were noted and repaired on the outside surface of pour number 32. A nonconforming item report, NCI 5252 had been written on the defects reported on the Form M-2N and the defects had been repaired. However, the defects identified by the NRC inspector were not identified, documented, chipped nor repaired. The failure to identify, record and evaluate the defects remaining on the concrete containment dome pour number 32 appears to be a failure to follow DPC QA Procedure M-2 and appears to be in noncompliance with 10 CFR 50, Appendix "B", Criterion .

This item shall be identified as Infraction 50-413/79-06-01.

A visual inspection of the inside surface of containment dome pour number 32 was also performed. The licensee had not yet performed a final concrete inspection on this surface. The licensee was aware of, and pointed out, several areas of honeycombing on the inside surface. The inside surface will be inspected and repaired by the licensee at a later date. For the inspection of the inside surface of pour number 32, no items of noncompliance or deviations were identified.

6. Containment (Structural Concrete II) - Review of Quality Records
(Unit 1)

The following records were reviewed to verify licensee compliance with PSAR commitments and NRC requirements:

- a. Form M-2N - Final Concrete Inspection Log for pour number 32
- b. Nonconforming Item Report Number 5252
- c. Form M-2A - Prepour Site Inspection - Pour number 33.

Other than the infraction noted in paragraph 5, no items of noncompliance or deviations were identified.

7. Safety Related Components I - Observation of Work and Work Activities (Unit 2)

For this inspection, the pressurizer relief tank was chosen for inspection. DPC QA procedure P-3 Rev. 9 provides licensee requirements for storage inspection. The tank was inspected for protection during storage. The tank lable plate was compared with its vendor's certificate of compliance to correlate the tank with its documentation.

No items of noncompliance or deviations were identified.

8. Safety Related Components I - Review of Quality Records (Unit 2)

The following pressurizer relief tank records were reviewed to ascertain conformance with licensee procedures and requirements:

- a. DPC Form P1-A-Receiving Inspection Information Report - Pressurizer Relief Tank Serial Number N-3417.50
- b. W Quality Release 32285
- c. Manufacturers Data Report
- d. Storage Surveillance Reports for March 8, March 28, and April 3, 1979.

No items of noncompliance or deviations were identified.

9. Independent Inspection Effort

A general visual inspection of Unit 1 and Unit 2 reactor buildings was performed to verify compliance of licensee safety related work activities with licensee procedures and PSAR commitments.

The Unit 2 refueling canal was partially covered with a platform. The platform was covered with litter and debris such as cigarette wrappers, pop cans, damaged face shields, and a hard hat liner.

DPC QA Procedure L-72 Rev. 2 requires "good construction site housekeeping practices" be observed in areas designated as "zone VI". The refueling canal is designated as a housekeeping zone VI. The present minimal construction status of the refueling canal minimizes the safety significance of this housekeeping noncompliance. The failure to follow Procedure L-72 appears to be in noncompliance with 10 CFR 50, Appendix "B", Criterion V and shall be identified as Deficiency 90-414/79-06-01.