



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report No. 50-413/80-33 and 50-414/80-33

Licensee: Duke Power Company
422 South Church Street
Charlotte, NC 28242

Docket Nos. 50-413 and 50-414

Facility Name: Catawba

License Nos. CPPR-116 and CPPR-117

Inspection at Catawba facility

Inspector: J. R. Harris *JRH*

12/10/80
Date Signed

Approved by: T. E. Conlon
T. E. Conlon, Section Chief, RCES Branch

12/10/80
Date Signed

SUMMARY

Inspection on October 27-31, 1980

Areas Inspected

This routine, announced inspection involved 34 inspector-hours on site in the areas of structural concrete, foundations and construction status.

Results

Of the three areas inspected, no items of noncompliance or deviations were identified in two areas; one item of noncompliance was found in one area (failure to follow procedure for reporting of cracks in auxiliary building concrete - paragraph 5).

1. Persons Contacted

Licensee Employees

- *D. G. Beam, Project Manager
- *D. L. Freze, Construction Engineer
- *S. W. Dressler, Senior Construction Engineer
- *R. A. Morgan, Senior QA Engineer
- *H. N. Mason, Civil QA Engineer
- L. R. Davison, Senior QC Engineer
- C. R. Sheriff, Supervisory Technician, Civil OC
- *R. L. Medlin, Civil QA Engineer
- T. H. Robertson, Construction Engineer, Civil

Other licensee employees contacted included 5 construction craftsmen, 5 technicians, and 3 security force members.

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on October 31, 1980 with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

Not inspected.

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

The inspector examined ongoing work activities in Units 1 and 2, the soils and concrete testing laboratory, procedures for foundations and structural concrete, completed concrete structures and observed foundation grouting of fuel oil day tank 1B in the Unit 1 diesel generator building.

Examination of the above disclosed the following inspector identified items.

- a. Concrete Honeycomb Identification. Revisions made in 1979 to procedure M-2 provide for identifying and tracking concrete honeycomb through completion of repair on concrete pours made after the 1979 revisions. Observations by the inspector indicated that

licensee methods are not clear as to how honeycomb that occurred in concrete pours made prior to 1979 revisions are identified and tracked through repair. The inspector observed several honeycomb areas in pour numbers 2W72 and 2W74 made in August 25, 1977 and September 12, 1977 in the Unit 2 reactor shell wall which have not yet been identified or repaired. This was identified to the licensee as Unresolved Item 414/80-33-01, "Identification of Concrete Honeycomb."

- b. Cracks in Auxiliary Building Concrete. Procedure 0-1 requires any persons discovering a nonconforming item to issue a nonconforming item report as soon as possible. On October 30, 1980 the inspector observed through going cracks in the auxiliary building between column lines 60-61 along the exterior AA line wall from elevation 594 to 611 and adjacent roof area. Investigations indicated that responsible engineers had known about the cracks but had failed to issue a nonconforming item report. The licensee issued nonconforming item report number 9975 on October 31, 1980. Failure to issue a nonconforming item report on cracking in the auxiliary building concrete was identified to the licensee as Infraction Item 414/80-33-02, "Reporting of Cracks in Auxiliary Building Concrete."

No deviations were identified.

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

The inspector examined records for pour numbers W2069, 2W93, W90 and W91. Records examined included:

- a. Results of concrete cylinder compressive strengths,
- b. Results of inprocess testing of plastic concrete, including slump, air content and temperature,
- c. Concrete batch records,
- d. Test reports on cement, water and aggregates,
- e. Qualification and training records of responsible QC inspectors,
- f. Audit numbers C-1-9-80 and C-1-6-80,
- g. Records on reinforcing steel, including Cadwelds and Cadweld splicers,
- h. Nonconforming item report numbers 9940, 9888, 9499, 9352, 9240, 9222

Acceptance criteria examined by the inspector appear in the following documents:

- a. PSAR, section 3.8
- b. Procedure M-2, Inspection of Design Concrete
- c. Specification CNS-1100.00-1, Specification for concrete for Category I structures
- d. Procedure M-14. Cadweld Splice Inspection and Testing
- e. Procedure I-2, Qualification of Cadweld Inspectors
- f. Procedure P-1, Receiving Inspection
- g. Procedure P-3, Storage Inspection
- h. Procedure O-1, Control of Nonconforming Items

No deviations or items of noncompliance were identified.