



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

Report Nos.: 50-413/78-12 and 50-414/78-11

Docket Nos.: 50-413 and 50-414

License Nos.: CPPR-116 and CPPR-117

Category: A2 and A2

Licensee: Duke Power Company
Power Building
422 South Church Street
Charlotte, North Carolina 28242

Facility Name: Catawba Nuclear Power Station, Units 1 and 2

Inspection at: Clover, South Carolina

Inspection conducted: November 14-17, 1978

Inspector: W. P. Ang

Reviewed by:

J. C. Bryant
J. C. Bryant, Chief

Engineering Support Section No. 1

Reactor Construction and Engineering Support Branch

11/30/78
Date

Inspection Summary

Inspection on November 14-17, 1978 (Report Nos. 50-413/78-12 and 50-414/78-11)

Areas Inspected: Procedures, work activities and quality related records for safety-related components (Unit 1); procedures and work activities for safety-related pipe supports and restraints (Unit 1); concrete testing laboratory equipment, batch plant work activities, and concrete placement of auxiliary building roof (Unit 2). This inspection involved 24 inspector-hours on site by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

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DETAILS I

Prepared by: RM Compton
W. P. Ang, Mechanical Engineer
Engineering Support Section No. 1
Reactor Construction and Engineering
Support Branch

11/30/78
Date

Dates of Inspection: November 14-17, 1978

Reviewed by: RM Compton
J. C. Bryant, Chief
Engineering Support Section No. 1
Reactor Construction and Engineering
Support Branch

11/30/78
Date

1. Persons Contacted

Duke Power Company (DPC)

- *D. G. Beam, Project Manager
- *L. R. Barnes, QA Manager, Construction
- *D. L. Freeze, Project Engineer
- *R. A. Morgan, Senior QA Engineer
- *S. W. Dressler, Senior Construction Engineer

*Denotes those present at the exit interview.

2. Licensee Actions on Previous Inspection Findings

Licensee actions on previous inspection findings were not reviewed during this inspection.

3. Unresolved Items

No unresolved items were identified during this inspection.

4. Independent Inspection Effort

A walk-through inspection of the concrete testing laboratory and concrete batch plant was performed. General work activities were observed and the condition of equipment was noted.

Concrete placement on the Unit 2 auxiliary building was observed.

No items of noncompliance or deviations were identified.

5. Safety-Related Pipe Support and Restraint Systems (Unit 1)

DPC Specification No. CNS-1206.00-4.3 Rev. 1 - "Procedure Requirements for Fabrication and Erection of Hangers, Supports and Seismic Supports" and the following drawings were examined to ascertain that they have been approved by authorized licensee personnel:

a. Isometric Drawings

CN-NV048-R	Rev. 0
CN-NV047-R	Rev. 0
CN-NV046-R	Rev. 0
CN-NI011-R	Rev. 0
CN-NI050-R	Rev. 0

b. Hanger Details Drawings

1-R-NV-1119, -1120, -1121, -1122, -1147, -1146
1-R-NV-1123, -1124, -1125
1-R-NV-1126, -1127, -1148, -1149
1-R-NI-1421, -1422, -1423, -1424, -1425, -1428, -1429
1-R-NI-1168, -1169, -1170

All the above listed drawings had DPC drawing title blocks. All had been reviewed and approved. However, the inspector was informed by the licensee that the initials on the drawings for the preparer, reviewer and approver were initials of EDS, San Francisco, personnel. The title blocks of the drawing did not identify them as EDS personnel. The licensee also informed the inspector that no approval by DPC is required for the drawings but that DPC does audit EDS. DPC's QA supplier audit on EDS performed on June 20 to 22, 1977, and DPC vendor surveillance reports on EDS dated 8-21-78, 2-23-78, and 11-17-77 were examined by the inspector at DPC corporate offices in Charlotte, North Carolina. QA Procedure M-51 Rev. 0 - "Component Supports," was reviewed and found to contain provisions for verification of conformance of installed hangers and supports to detailed drawings; showing type, location and configuration of the hangers and supports. QAP M-51 also provided for verification of fastener installation for restraints and supports. QA procedure P-1 provides for a general receiving inspection of materials and equipment. QA procedure M-51, DPC Specification CNS-162, QAP M-4 and QAP L-100 provide welding and NDE instructions and requirements for supports and restraints.

The storage of restraint and support material was inspected for conformance to DPC storage requirements. Ten stored mechanical

snubbers were checked for smoothness of shaft travel and unit activation. The ten snubbers are:

15,000 # Rating: Pacific Scientific Serial Nos. 3230,
3234 and 3235

6,000 # Rating: Pacific Scientific Serial Nos. 4033,
4046 and 4083

1,500 # Rating: Pacific Scientific Serial Nos. 2624,
2886, 2932, 2964

No items of noncompliance or deviations were identified.

6. Safety-Related Components - Review of QA Implementing Procedures
(Unit 1)

This is a follow-on inspection to report No. 50-413/78-6. The following procedures provide post-installation cleaning, preservation and inspection requirements for safety-related components:

- a. QA Procedure P-3, Rev. 9 - "Storage Inspection"
- b. QA Procedure M-24, Rev. 5 - "Piping System Cleanliness Inspection"
- c. QA Procedure M-28, Rev. 5 - "Inspection of Housekeeping Requirements"
- d. QA Procedure L-72, Rev. 2 - "Housekeeping Requirements"

No items of noncompliance or deviations were identified.

7. Safety-Related Components - Observation of Work and Work Activities
(Unit 1)

This is a follow-on inspection to report No. 50-413/78-6. The chemical and volume control pumps were selected as representative components for this inspection. Installation of these pumps had been partially completed. Safety-related component storage warehouses were inspected for environment, protection, handling, identification, issue, records, cleanliness preservation, and storage surveillance inspections. The inspector noted that, in general, nonconforming material was being segregated. However two areas noted contained unsegregated nonconforming material. The inspector informed the licensee of the condition and immediate action was taken by the licensee to correct the condition. The location and size of the unsegregated nonconforming material provided some question as to the practicality of segregation. Due to the noted question, the immediate licensee corrective action and the apparent limited magnitude of the problem, the inspected storage area for safety-

related components was considered to be in compliance with licensee PSAR commitments.

The partially completed installation of the chemical and volume control pumps was inspected for workmanship, location, placement and mounting. Records were examined to determine what inspections had been performed and what inspection records had been generated and maintained. The in-place storage conditions of the pumps were also inspected. In place storage inspection and preventative maintenance records were examined. Nonconforming components records, identification, segregation and corrective action was inspected.

No items of noncompliance or deviations were identified.

8. Safety-Related Components I - Review of Quality Records (Unit 1)

This is a follow-on inspection to report No. 50-413/78-6. Quality records for the chemical and volume control pumps were inspected. These included storage inspection, installation inspection, receiving inspection and nonconforming condition records. Specifically, the following chemical and volume control pumps' records were examined:

- (a) P-1A - Receiving Inspection Information Report
- (b) P-3A - Equipment Special Storage and Maintenance Inspection -SER M-66 and M-67
- (c) M-9B - Equipment Release Document for the Installation of Rotating and Non-Rotating Equipment
- (d) M-9D - Process Control Sheet for Installation of Rotating and Non-Rotating Equipment
- (e) M-9A - Rotating Equipment Alignment Record (initial alignment only)
- (f) M-10A - Process Control and Inspection of Torque to Bolts and Studs

No items of noncompliance or deviations were identified.

9. Exit Interview

The inspector met with licensee representatives identified in paragraph 1 at the conclusion of the inspection. The inspector summarized the scope and findings of the inspection of safety-related supports and restraints, safety-related components, the concrete testing laboratory and batch plant, and the concrete placement on Unit 2 auxiliary building roof. The licensee acknowledged the inspection findings.