



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

JUN 22 1984

Report No.: 50-413/84-65

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

Docket No.: 50-413

License No.: CPPR-116

Facility Name: Catawba

Inspection Dates: June 5-8, 1984

Inspection at Catawba site near Rock Hill, South Carolina

Inspector: L. H. Jackson
L. H. Jackson

June 19 1984
Date Signed

Approved by: C. M. Upright for
C. M. Upright, Section Chief
Division of Reactor Safety

June 19 1984
Date Signed

SUMMARY

Areas Inspected:

This routine unannounced inspection involved 23 inspector-hours on site in the areas of verification of as-builts.

Results:

Of the area inspected, no violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

L. Adams, QA Technician "A"
*R. W. Ballard, Construction Engineer, Hangers
H. B. Barron, Milestone Engineer
*T. A. Barron, QA Engineer, Hangers
*T. B. Bright, Engineering Manager
*L. R. Davison, Project QA Manager
K. E. Deskins, Mechanical Inspector "A"
*R. L. Dick, Vice President Construction
*S. W. Dressler, Projects Engineer
*R. M. Dulin, Senior Design Engineer
*D. E. Faulker, Supervisor Administrative Methods
S. Gantt, Welding Inspector
W. G. Goodwin, QA Inspection Superintendent
*G. W. Grier, Corporate QA Manager
*D. P. Hensley, QA Technician
*R. E. Miller, Principal Design Engineer
J. D. Munn, Mechanical Inspector "A"
*T. H. Propst, Mechanical Technician
*J. C. Snyder, Civil Technical Superintendent
*T. L. Utterback, Assistant QA Engineer
W. Vassey, Civil Inspector
J. Warren, QA Inspector
*J. W. Willis, Senior QA Engineer

Other licensee employees contacted included technicians and office personnel.

NRC Resident Inspectors

*P. K. VanDoorn, SRI Construction
P. H. Skinner, SRI Operations

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on June 8, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Verification of As-Builts (37051B)

This inspection was conducted to determine that as-built design and construction drawings/specifications correctly reflect the as-built conditions of the plant, that changes from the original design were properly reviewed and approved, and that plant seismic and other stress calculations are based on as-built conditions. Supplemental reviews in this area of inspection have been conducted by the senior residents (Inspection Reports 50-413/83-16, 50-414/83-15; 50-413/83-26, 50-414/83-23) who have been inspecting specific systems to determine that the Catawba as-built plant systems are as described in the FSAR. Additional inspections have also been performed by Region II personnel in the areas of mechanical/piping, electrical, and instrumentation as reported in 50-413/83-17, 50-414/83-16; 50-413/83-24, 50-414/83-21; and 50-413/84-01, 50-414/84-01.

- a. Governing procedures and status of schedule for completion of as-built design documents

The inspector reviewed the following construction site inspection and turnover procedures being utilized by the licensee to control as-built drawings and changes to assure that seismic and other stress

- 1 calculations are based on these as-built conditions:

M-8, Piping System Installation Inspection, R-14

M-41, Electrical Equipment Installation Inspection, R9

M-51, Component Supports, R13

M-61, Instrumentation Process Control and Inspection, R8

Q-1, Control of Nonconforming Items, R19

R-2, Identification and Resolution of Discrepancies, R10

R-3, Design Drawing and Specification Variation, R21

R-6, Significant Corrective Action, R2

S-2, System Verification and Turnover, R20

S-4, Requirement for Applying the NA Stamp to Code Systems, R10

S-5, Civil Verification and Turnover, R1

The inspector conducted discussions with personnel responsible for implementation of Catawba's program for system verification and turnover from the Construction Department to the Nuclear Production Department. Under this program the project QA Manager is responsible for approving, compiling, maintaining, and verifying records (including as-builts) for systems and for certifying that the system is approved

by QA prior to turnover. Examination of schedules for completion of final turnover of systems to Nuclear Production appears optimistic in that all mechanical and electrical systems are scheduled to be complete by June 16, 1984. Approximately 100 Variation Notices (VNs) were outstanding as of June 8, 1984. Most of these VNs involve hangers and should not affect the fuel load date. Only about six flow diagrams remain to be as-built prior to turning the systems over to Nuclear Production.

b. Review of As-builts

(1) Piping Systems

The following Chemical and Volume Control system isometric drawings were selected to verify that the as-built configuration agreed with approved drawing.

CN-1492-NV031 R10
 CN-1492-NV020 R6
 CN-1492-NV007 R5
 CN-1492-NV095 R13
 CN-1492-NV001 R9
 CN-1492-NV020A R6
 CN-1492-NV007R R3
 CN-1492-NV095R R4

This system was inspected for the following attributes:

- Piping - location, size, configuration, elevation,
- Supports - location, size, welding, material
- Valves - location, identification, flow direction, operator orientation.

The inspector confirmed that all piping dimensions and valve orientations were within the acceptance limits specified on drawing CN-1680-48, R13, Piping and Valve Erection Tolerances and SAV (stress analysis validation) Requirements.

(2) Civil Structural

The inspector inspected one structural steel assembly from the auxiliary building, CN-1684-CA-129-B, R1 and one from the reactor building, CN-1684-NC-174-B, R2 and CN-1684-NC-175-B, R3 which were QA Condition 1 structures. These structures were inspected for dimensions, size, material, welding, and elevation.

During the inspection of the pipe rupture protection device the inspector confirmed that a drafting error had been made when VN 43144 had been incorporated into drawing CN-1684-CA-129-B, R1.

The error would have no detrimental effect on the structure.
However, NCI 18705 was issued to correct the drafting error.

Within this area, no violations or deviations were identified.