



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

Report Nos. 413/82-20 and 414/82-18

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

Facility Name: Catawba

Doclet Nos. 50-413 and 50-414

License Nos. CPPR 116 and CPPR 117

Inspection at Catawba site near Rock Hill, South Carolina

Inspector: *T. E. Conlon* for 8-25-82  
M. D. Hunt Date Signed

Approved by: *T. E. Conlon* 8-25-82  
T. E. Conlon, Section Chief Date Signed  
Engineering Inspection Branch  
Division of Engineering and Technical Programs

SUMMARY

Inspection on August 10-13, 1982

Areas Inspected

This routine, unannounced inspection involved 26 inspector-hours on site in the areas of cable installation, instrumentation installation, drawing control and licensee action on previous inspection findings.

Results

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

## REPORT DETAILS

## 1. Persons Contacted

## Licensee Employees

- \*L. R. Davison, QA Manager, Projects
- \*D. P. Hensley, QA Technician
- \*R. A. Morgan, Project QA Engineer
- \*J. C. Rogers, Construction Project Manager
- \*J. C. Shropshire, QA Engineer

Other licensee employees contacted included five technicians and three office personnel.

## NRC Resident Inspector

- \*P. K. Van Doorn

\*Attended exit interview

## 2. Exit Interview

The inspection scope and findings were summarized on August 3, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings.

## 3. Licensee Action on Previous Enforcement Matters

(Closed) Unresolved Item 413/82-17-01, Licensee to Determine Responsibility for D/G Sequencer Calibration. The inspector reviewed a memo which stated that steam production will set the relays by Procedure IP/D/A/3670/01 which also will describe the testing.

(Closed) Unresolved Item 413/82-17-02, 414/82-15-01, Clarify the Intent of the 1/4/82 Memo Regarding Controlled Document Reproduction. The 1/4/82 memo has been superceded by a memo dated August 10, 1982 which states that when it is necessary to copy controlled documents, the Construction Document Control or Hanger Document Control Sections will provide the copies.

## 4. Unresolved Items

Unresolved items were not identified during this inspection.

## 5. Independent Inspection Effort (92706)

The inspector observed the installation of a Unit 2 Class IE electrical cable 2\*VA730 which extended from area termination cabinet 2EATC8 to Damper Motor 2DMTR 0157. The routing was verified by the QC inspector before the cable pulling was started. This verification was made to ensure that the race ways were complete. The pulling crew consisted of an adequate number of workers to insure that no excess stress was applied to the cable during the pull. The QC inspection was performed in accordance with QC Procedure M-41, Electrical Equipment Installation, and Supplemental Inspection Instruction for Cable Routing and Installation, Serial Number 9.

The inspector selected ten Unit 1 construction drawings that were in use in the field to verify through the construction drawing control section that the revision levels in use were current. The following drawings were found to be at the correct revision level indicated by records in the construction drawing control section.

DRAWING NO.	REVISION NO.
CN-1499-01.3	17
CN-1499-01.4	36
CN-1499-01.5	30
CN-1499-01.6	29
CN-1499-01.7	21
CN-1499-CA1	11
CN-1499-CA2	6
CN-1499-CA6	4
CN-2525-03.44-00	15
CN-2525-03.44-01	6

Within the areas examined, no violations or deviations were identified.

## 6. Instrumentation (Components and Systems II) Observation of Work and Work Activities (52054B)

The inspector selected a group of instruments in the auxiliary feedwater (AFW) system for installation and records verification. The instruments are classified as "use code" 9 which by the licensee's identification is a functionally safety-related instrument. Inspection of Code 9 instrument installations require verification of component type, ID tag, operating range, proper scale, orientation, accessibility, location and mounting. Sensing line inspection for these instruments verifies proper tubing, slope, separation, bends, taps, expansion coil, supports, blow down fittings, routing and test tees. These requirements were identified and documented by Procedure M-61, Instrument Installation Inspection. A series of mechanical instructions in drawing series CN-1499 identifies the type of instrumentation pipe and tubing supports to be used and the acceptance criteria to be met.

The instruments selected were:

1 CAFT 5000	Aux FWP A Disch Flow
1 CAFT 5010	Aux FWP B Disch Flow
1 CAFT 5040	TD Aux FWP Flow (Train A)
1 CAFT 5041	TD Aux FWP Flow (Train B)
1 CA PT 5020	MD Aux FWP A Suct Press
1 CA PT 5030	TD Aux FWP Suct Press
1 CA PT 5050	TD Aux FWP Suct Press
1 CA PS 5220	Train A Aux FWP Suct Press
1 CAPS 5221	Train A Aux FWP Suct Press
1 CAPS 5222	Train A Aux FWP Suct Press
1 CAPS 5230	Train B Aux FWP Suct Press
1 CAPS 5231	Train B Aux FWP Suct Press
1 CAPS 5232	Train B Aux FWP Suct Press

The instrument installations were installed in accordance with instrument detail drawings CN-1499-CA1, CN-1499-CA2 and CN-1499-CA6.

Within the areas examined, no violations or deviations were identified.

7. Instrumentation (Components and Systems II), Review of Quality Records (52056B)

The inspector reviewed the receipt and storage records for the components listed in paragraph 6. Receipt inspection was performed under Procedure P-1, Receiving Inspection. The P-1 form generated verifies that records exist which qualify the equipment to the purchasing specification.

Within the areas examined, no violations or deviations were identified.