



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30323

Report No.: 50-414/85-23

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

Docket No.: 50-414

License No.: CPPR-117

Facility Name: Catawba Unit 2

Inspection Conducted: June 24-27, 1985

Inspector: McKenzie Thomas  
M. Thomas

7-8-85  
Date Signed

Approved by: Frank Jape  
F. Jape, Section Chief  
Test Programs Section  
Engineering Branch  
Division of Reactor Safety

7/8/85  
Date Signed

SUMMARY

Scope: This routine, unannounced inspection involved 31 inspector-hours on site in the areas of overall preoperational test program review, preoperational test procedure review, reactor coolant system hydrostatic test results review, and 10 CFR 50.55(e) review.

Results: No violations or deviations were identified.

## REPORT DETAILS

### 1. Persons Contacted

#### Licensee Employees

G. Cornwell, Construction Associate Engineer - Mechanical  
\*J. W. Cox, Technical Services Superintendent  
C. L. Hartzell, Compliance Engineer  
M. W. Hawes, Performance  
J. A. Kammer, Performance  
P. G. LeRoy, Licensing Engineer  
D. Llewellyn, Construction Mechanical Equipment Engineer  
F. N. Mack, Project Services Engineer  
C. E. Muse, Unit 2 Coordinator  
K. Schmidt, Quality Assurance (QA) Engineer  
E. G. Williams, QA Technician

Other licensee employees contacted included test coordinators, engineers, technicians, operators, and office personnel.

#### NRC Resident Inspectors

P. H. Skinner, Senior Resident Inspector, Operations  
P. K. VanDoorn, Senior Resident Inspector, Construction

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on June 27, 1985, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed the inspection findings. No dissenting comments were received from the licensee. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspector during this inspection.

### 3. Licensee Action on Previous Enforcement Matters

This subject was not addressed in the inspection.

### 4. Unresolved Items

Unresolved items were not identified during the inspection.

5. Independent Inspection Effort (92706)

The inspector reviewed the following 10 CFR 50.55(e) report:

(Closed) Significant Deficiency Report SD 414/84-21 dated November 9, 1984, concerning the potential to overpressurize the component cooling water system should a tubing failure occur in the reactor coolant pump thermal barrier heat exchanger. Westinghouse reported this item to NRC under 10 CFR 21 and the licensee submitted Licensee Event Report (LER) 413/84-14 for Unit 1. The LER was closed in NRC Inspection Report 413/85-106. Significant Deficiency 414/84-21 states that overpressure protection for the surge tanks will be provided by assuring that the vent valve on each surge tank remains open. In discussing this item, licensee personnel stated that prior to Unit 2 operation, the vent valves will be opened and the air supply that operates that valves will be isolated. The valves will be tagged and tracked per the Unit 2 removal and restoration log.

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

6. Overall Preoperational Test Program Review (70301)

The inspector reviewed the following documents which contribute to the establishment of the Catawba preoperational (preop) test program.

- FSAR Chapter 14
- Station Directive 3.2.1, Development and Conduct of the Preoperational Test Program
- Station Directive 4.2.1, Development, Approval, and Use of Station Procedures

Specific areas reviewed within the above documents were test program organization and administration. These were reviewed to verify that:

- Responsibilities of key personnel in the test program are specified in writing.
- Lines of authority and responsibilities of test personnel are specified in writing.
- Administrative measures have been established governing the conduct of testing.
- Formal methods have been established to control scheduling of test activities.
- Measures for evaluation of test results have been established.

No violations or deviations were identified in the areas inspected.

7. Preoperational Test Procedure Review (70304, 70338, 70339)

The inspector reviewed the preop test procedures listed below to verify that they were consistent with applicable sections of FSAR Chapters 6, 7, 9, 10, 14, and 15, and Regulatory Guides 1.68 and 1.79. The following procedures were reviewed:

- TP/2/A/1200/01, Component Cooling Functional Test
- TP/2/A/1200/03D, Safety Injection Accumulator Functional Test
- TP/2/A/1250/04, Auxiliary Feedwater Functional Test

The procedures were reviewed for conformance to administrative controls. This included verifying that pertinent prerequisites are identified, initial test conditions are specified, acceptance criteria specified, the required reviews were performed, and management approval was indicated.

No violations or deviations were identified in the areas inspected.

8. Reactor Coolant System Hydrostatic Test Results Review (70562)

The inspector reviewed the completed data package for the reactor coolant system (RCS) cold hydrostatic test. The data package was reviewed to verify the following:

- Test changes were made in accordance with the licensee's administrative controls.
- The changes did not change the intent of the test.
- Water quality was in accordance with the requirements specified.
- The hydrostatic test pressure was held for the time required.
- The reactor coolant temperature was above the nil ductility transition temperature.
- Corrective actions have been taken to resolve the deficiencies identified during the hydrostatic test.
- The test results have been reviewed and approved by the appropriate personnel.

No violations or deviations were identified in the areas inspected.