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

Report No.: 50-413/83-54

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

Docket No.: 50-413

License No.: CPPR-116

Facility Name: Catawba

Inspection at Catawba site near Rock Hill, South Carolina

Inspector: P. A. Taylor — 1-12-84
P. A. Taylor — Date Signed

Approved by: Frank Jape — 1/16/84
F. Jape, Section Chief — Date Signed
Engineering Program Branch
Division of Engineering and Operational Programs

SUMMARY

Inspection on December 27 - 30, 1983

Areas Inspected

This routine, unannounced inspection involved 35 inspector-hours on site in the areas of integrated hot functional testing, reactor protection system test procedure review, maintenance procedure program review and plant tour.

Results

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

*J. W. Cox, Superintendent of Technical Services
*A. R. Franklin, Superintendent of Administration
W. R. McCollum, Performance Engineer
*D. M. Robinson, Reactor Engineer
Z. Taylor, HFT, Test Coordinator
M. Hawes, HFT, Shift Coordinator
R. Scarborough, HFT Test Coordinator
*C. L. Hartzell, Licensing Engineer
T. Crawford, Operating Engineer

Other licensee employees contacted included three technicians and four operators.

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on December 30, 1983, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection results without significant comment.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preoperational Test and Integrated Hot Functional Test Witnessing (70312B, 70314B)

a. During this inspection the integrated hot functional testing had progressed to the cooldown phase. The inspector observed control room activities and examined work activities in progress to verify that the licensee's administrative controls were being followed and that the controlling procedures for integrated hot functional testing (TP1/A/1100/01, OP/1/A/6100/11) were established and that plant status indicated satisfactory conditions.

The inspector witnessed portions of the below listed tests to verify that:

- the tests were being performed using approved test procedures
- test data was being recorded properly
- latest procedure change was incorporated into the test procedure
- test results recorded indicated whether acceptance criteria were being met
- test procedure changes and/or system equipment problems where applicable were identified and processed in accordance with administrative controls

b. TP1/A/1200/03E, Safety Injection System Check Valve Functional Test

The inspector observed sections 12.3 and 12.4 of TP1/A/1200/03E which was to verify that the check valves in the safety injection pump cold leg and hot leg (connected to the reactor coolant system piping) were free to move by demonstrating a positive indication of flow through the check valve. The inspector raised a question concerning the temperature range specified for conducting the test, (i.e., section 7.0 Required Station Status). The temperature range specified is not consistent with the temperature range stated in the Purpose and Test Method sections of the test procedure. In addition section 12.3 listed incorrect safety injection pump cold leg check valve numbers. The licensee issued a change to the test procedure to correct the check valve numbers and to reflect requirements of FSAR Chapter 14 table 14.2.12-1 (pages 30-31) regarding reactor coolant system temperature. The test results for the test observed indicated that the acceptance criteria has been met.

c. TP/1/A/1400/15, Auxiliary Shutdown Panel Cooldown Functional Test

The inspector observed the preparations being made to establish systems status and prerequisites for section 12.2 of the subject test procedure. The purpose of this section of the test is to demonstrate the ability to control cooldown of the reactor coolant system from outside the control room at the remote auxiliary shutdown panels, utilizing the reactor heat removal system, nuclear service water system and associated instrumentation and controls. In addition the inspector attended a formal briefing which was given to those shift operators and test engineers that would be responsible for taking data and operating plant systems during the performance of the test.

Unresolved item 413/83-49-02 was issued in inspection report 50-413/83-49 dated December 28, 1983. This unresolved item addressed a concern with acceptance criteria that is provided in TP1/A/1400/15, sections 11.1 and 11.2. Specifically, the criteria provided was not clear with regard to qualitative and quantitative values. The licensee has corrected this problem by issuing a procedure change. This unresolved item will remain open pending resolution to the testing that was not done during hot functional (i.e., hot standby demonstration for minumum of 30 minutes from the ASP) and is required by FSAR Chapter 14, test abstract (pages 60-61) to be accomplished. An amendment to the FSAR is being prepared by the licensee for submittal to NRR concerning this portion test.

Within the areas inspected no violations or deviations were identified.

6. Preoperational Test and Maintenance Procedure Review (424515, 70305B)

a. Maintenance Procedures

The inspector reviewed the plant procedure index which is a computer printout that lists maintenance procedure presently issued for Unit 1. The licensee indicated that approximately 85% of the maintenance procedure has been issued. The inspector initiated a review of those maintenance procedures typical to those identified in Regulatory Guide 1.33, Appendix A and FSAR Section 13.5. The review of maintenance procedures and maintenance program activites will continue during subsequent inspections.

b. Reactor Protection System Functional Test

The inspector obtained a draft copy of TP1/A/1600/03, Solid State Protection System Functional Test for initial review until a copy of the approved procedure is made available. The initial procedure review consisted of verifying that commitments specified in Regulatory Guide 1.68 and FSAR Chapter 14 are being met and that the procedure contained the specified format, precautions and prerequisites.

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

8. Plant Tour

The inspector toured the control room, auxiliary building, containment building and diesel generator rooms to observe work activities in progress, housekeeping and tag controls on equipment.

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