

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

Report No.: 50-413/84-08

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

Taylor Inspector: (7.

Accompanying Personnel: S. P. Burris

Approved by:

nank F. Jape, Section Chief Engineering Program Branch

Division of Engineering and Operational Programs

1/31/84

1/31/84 Date Signed

SUMMARY

Inspection on January 16 - 20, 1984

Areas Inspected

This routine, unannounced inspection involved 62 inspector-hours on site in the areas of preoperational test program implementation, preoperational test results evaluation, review of reactor protection system preoperational test procedures and plant tour.

Results

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

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *J. W. Hampton, Station Manager
- *G. T. Smith, Superintendent of Maintenance
- J. W. Cox, Superintendent of Technical Services
- W. R. McCollum, Performance Engineer
- *C. L. Hartzell, Licensing and Project Engineer
- *P. Leroy, Licensing Engineer
- R. B. Wilson, Planning Engineer
- R. Jones, Test Coordinator
- J. F. Wardean, Scheduling Engineer
- C. Frazier, Planning Coordinator

Other licensee employees contacted included five construction craftsmen, two technicians, and five office personnel.

NRC Resident Inspector

*P. H. Skinner

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on January 20, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings without significant comment.

- Inspector Followup Item, 413/84-08-01, Inspector comments on preoperational test, TP 1/A/1600/03, Reactor Protection System Functional Test, paragraph 5.
- 3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preoperational Test Procedure Review - Reactor Protection System (70305B)

The inspector reviewed a draft copy of TP 1/A/1600/03, Solid State Protection System Functional Test. This procedure was reviewed to verify 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 prerequisities.

Within the areas inspected no violations or deviations were identified. The inspector did note certain discrepancies with the test procedure:

- a) FSAR Test abstract table 12.2.12-1 (page 9) specifies as a prerequisite that alignments and calibrations are to be done prior to starting the test and the procedure lacks that prerequisite.
- b) The acceptance criteria, as written, needs to be clarified and expanded to ensure that the criteria are of a quantitative or qualitative value as applicable.
- c) No provision for signoff are provided to verify that acceptance criteria have been met upon completion of a test procedure section.
- d) Test method section and the procedure section of TP 1/A/1600/03 list IP 0/A/3200/02 and IP 0/A/3200/07 as being conducted as part of the test procedure. No acceptance criteria and no signoff indicating that the acceptance criteria have been met has been provided regarding these IPs.
- e) Station Directive 3.2.1, Development and Conduct of Preoperational Tests requires verifying that test procedure references are current, temporary modifications left in the system more than 24 hours be handled per SD 4.4.3 and a review be conducted to ensure system exceptions or discrepancies will not affect the test. These particular items have not been identified in the test procedure.

The licensee stated that the above concerns would be reviewed and appropriate changes made. This area was identified as an inspector followup item (IFI 413/84-08-01).

6. Preoperational Test Results Evaluation (70320B, 70329B)

The inspector reviewed the following completed preoperational test procedures:

TP 1/A/1200/02A. Residual Heat Removal System Functional Test.

TP 1/A/1700/01A, Diesel Generator 1A Lube Oil System Cold Functional Test.

TP 1/A/1400/07, Diesel Generator Cooling Water System Cold Functional Test.

TP 1/A/1200/08, Boron Recycle System Functional Test.

The inspector reviewed the results of the above completed test procedures to verify that:

- Test steps and data sheets were initiated and dated as required.
- Test results met acceptance criteria.
- Deficiencies identified during the test were evaluated and corrective action identified as required.
- Procedure changes issued did not change the purpose of the test, and the licensee had evaluated the test results as required by administrative controls.

Within the area inspected no violations or deviations were identified.

7. Preoperational Test Program Implementation (70302B)

The inspector reviewed the following administrative controls which have been established and maintained to control the implementation of the preoperational test program at Catawba Nuclear Station:

- a. Station Directive 3.0.3 (Revision 4) Management of Turnover Exceptions and Scheduling of Shutdown Request and Work Requests.
- b. Station Directive 4.4.1 (Revision 2) Processing Design Changes.
- c. Station Directive 4.4.3 (Revision 0) Temporary Station Modification.
- d. Regulatory Guide 1.68 and FSAR Chapter 14, Preoperational Test Program.

The above documents were reviewed to verify that:

- Administrative controls exist which identify and control items which are considered as exceptions, and that management methods of identified exceptions are in effect and are being maintained.
- Administrative controls existed for scheduling and completion of shutdown request and work requests.
- Admininistrative controls were provided for processing design changes.
- Administrative controls were provided for temporary station modifications.

The inspector examined the above activities to ascertain that the applicant had effectively implemented these programs. The inspection included selecting for review several shutdown requests, station work requests, design change authorizations, equipment tagouts and temporary modifications. In addition, the inspector interviewed two instrumentation and electrical (I&E) supervisors, two electrical supervisors, one mechanical maintenance supervisor and several craft personnel to verify that they were familiar with these administrative controls and had a firm understanding on how these controls applied in the performance of their duties and work activities. The inspector monitored mechanical maintenance in progress on a main steam system isolation valve. The craft personnel involved in performing the work appeared to have implemented those controls that govern system tag out, shutdown request, and drawings.

The inspector generally found the applicant's administrative controls to be in effect and working. The inspector did note however, minor discrepancies with several station nuclear work requests. The nature of these discrepancies were in filling out the forms properly, providing signatures where required 7 providing an explanation when a work request was voided. These concerns . . . brought to the licensee's attention at the exit interview. The licensee indicated that the proper execution of these forms would be re-emphasized to station personnel.

Within the areas inspected no violations or deviations were identified.

8. Plant Tour (71302B)

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

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