

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

H. B. Barron, Operations Superintendent
C. L. Hartzell, Compliance Engineer
*R. A. Jones, Performance Test Engineer
*P. G. LeRoy, Licensing Engineer
M. R. McElwee, Mechanical Maintenance Engineer
*F. P. Schiffley II, Licensing Engineer

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. Van Doorn, Senior Resident inspector, Construction

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on November 15, 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. Overall Preoperational Test Program Review (70301)

The inspector reviewed the documents listed below which pertain to the Catawba preoperational (preop) test program:

- FSAR Chapter 14
- Station Directive 2.3.1, Control of Test and Measuring Equipment

- Station Directive 3.0.1, System/Structure Turnover and Startup Process
- Station Directive 3.0.3, Management of Shutdown Request
- Station Directive 3.2.1, Development and Conduct of the Preoperational Test program
- Station Directive 3.3.2, Control of the Maintenance Program
- Station Directive 3.3.7, Work Request Preparation
- Station Directive 3.11.1, Housekeeping and Cleanliness in Safety-Related Areas
- Station Directive 4.2.1, Development, Approval, and Use of Station Procedures
- Station Directive 4.4.1, Processing Design Changes
- Station Directive 4.4.3, Temporary Station Modifications
- Station Directive 4.4.4, Processing Nuclear Station Modifications

Major areas of interest during this review were test organization; test program administration; design changes and modifications; plant maintenance and preventive maintenance during preop testing; equipment protection and cleanliness; test and measurement equipment; and training.

No violations or deviations were identified in the areas inspected.

6. Preoperational Test Procedure Review (70300, 70306)

The inspector review preop test procedure: TP/2/A/1350/25A, Diesel Generator 2A Blackout and Load Rejection Preoperational Test, and TP/2/A/1350/25B, Diesel Generator 2B Blackout and Load Rejection Preoperational Test. The test procedures were reviewed to verify that they were consistent with applicable sections of FSAR Chapters 8 and 14; the Safety Evaluation Report and its supplements; Regulatory Guides 1.68 and 1.108; and the Technical Specifications.

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

No violations or deviations were identified in the areas inspected.

7. Preoperational Test Procedure Verification (70311)

The inspector reviewed portions of the preop test program as described in FSAR Chapter 14 to verify that test procedures are being prepared for the tests identified as being required for fuel load, and, to determine if the testing described in Regulatory Guide 1.68, Revision 2, and other applicable Regulatory Guides, is being factored into the licensee's preop test program. The licensee has a computer program which tracks the status of preoperational tests through procedure development, test performance, and test results approval. All of the preop tests required for fuel load have been identified and all but a few of the procedures have been approved.

No violations or deviations were identified in the areas inspected.

8. Preoperational Test Witnessing (70312, 70441)

The inspector witnessed portions of Sections 13.11 and 13.14 of preop test TP/2/A/1100/02A, Diesel Generator 2A Preoperational Functional Test. Section 13.11 is the procedure for the 35 consecutive start verification tests, which demonstrate that diesel generator 2A can be successfully started and loaded to greater than or equal to 3500 KW and run for greater than or equal to 60 minutes 35 consecutive times as per the criteria specified in Regulatory Guide 1.108.

Section 13.14 is the procedure for verifying the maintenance mode and barring device interlocks operate properly. These interlocks prevent the diesel from starting on any start signal. The test was witnessed to verify that:

- Appropriate revision of the procedure was available and in use by test personnel.
- Test prerequisites were met.
- Personnel involved in the test were briefed prior to beginning the test.
- Proper plant systems were in service.
- Special test equipment required by the procedure was calibrated and in service.
- The test was performed in accordance with requirements.
- Adequate coordination among personnel involved in the test.

- Test data were collected and recorded in the proper manner.
- Problems encountered during testing were properly identified and documented for evaluation.

No violations or deviations were identified in the areas inspected.