



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

Report No. 50-370/82-25

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

Facility Name: McGuire

Docket No. 50-370

License No. CPPR-84

Inspection at McGuire site near Charlotte, North Carolina

Inspector: Frank Jape 9/15/82
 for A. H. Johnson Date Signed

Approved by: Frank Jape 9/15/82
 F. Jape, Section Chief Date Signed
 Engineering Inspection Branch
 Division of Engineering and Technical Programs

SUMMARY

Inspection on August 31 - September 3, 1982

Areas Inspected

This routine, unannounced inspection involved thirty-two inspector-hours on site in the areas of preoperational test procedure reviews and preoperational test witnessing.

Results

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

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *W. M. Sample, Projects and Licensing Engineer
- *T. L. McConnell, Technical Services Superintendent
- *E. B. Miller, Senior QA Engineer
- *H. B. Barron, Operations Engineer
- *M. S. Glover, Emergency Preparedness Coordinator
- *A. Deak, Chemist

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

NRC Resident Inspector

- *P. C. Hopkins

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on September 3, 1982, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspector's comments.

Inspector Followup Item, 370/82-25-01, Pressurizer Functional Test, paragraph 7.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Inspector Followup Item (IFI) Unit 2 (92706)

(Closed) IFI 82-22-01, Main Steam Isolation Valve (MSIV) Closure Time. The licensee revised and reran preoperational test TP/2/A/1250/06, Main Steam Isolation Valve Timing Test, to ensure that the MSIVs are capable of closing within five seconds of receipt of the isolation signal as stated in McGuire Safety Evaluation Report (SER) of March 1978. The inspector reviewed the test data and observed that all four MSIVs closed in less than five seconds, with the longest response time being 4.8 seconds. This item is closed.

6. Preoperational Test Procedure Review Unit 2 (70301, 70303, and 70304)

The inspector reviewed certain preoperational test procedures to verify that adequate test procedures were developed and approved which incorporated the requirements of Regulatory Guide 1.68, and appropriate portions of FSAR Section 14. Procedures reviewed completely or in part included the following:

- a. TP/2/A/1150/03, Pressurizer Functional Preoperational Test (HFT Phase)
- b. TP/2/A/1150/15B, Hot Functional Testing of Pressurizer Pressure and Level Control and PORV's
- c. TP/2/A/1200/03F, NC Pressure Isolation Valve Leak Rate Test
- d. TP/2/A/1250/06, Main Steam Isolation Valve Timing Test
- e. TP/2/A/1150/15A, Hot Functional Testing of Reactor Coolant Low Flow Alarms
- f. TP/2/A/1150/06, Pressurizer Power Operated Relief Isolation Valve Functional Test
- g. TP/2/A/1150/02, Refueling Water System Functional Test
- h. TP/2/A/1200/03E, Safety Injection System Check Valve Functional Test
- i. TP/2/A/1200/05B, Residual Heat Removal System Functional Test (HOT)

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

7. Preoperational Test Witnessing Unit 2 (70312 and 70447)

The inspector witnessed portions of preoperational test TP/2/A/1150/03, Pressurizer Functional Test (HFT Phase) and TP/2/A/1200/03F, NC Pressure Isolation Valve Leak Rate Test, to verify that the testing was conducted in accordance with an approved procedure.

The inspector observed test personnel to verify the following:

- a. An approved procedure of the appropriate revision was available and in use by all test personnel.
- b. Special test equipment required by the procedure was calibrated and in service.
- c. Test prerequisites, initial conditions and precautions were met; and those which were waived had been reviewed and approved in accordance with procedural requirements.

- d. Test data was collected and recorded for final analysis by the proper personnel.
- e. Deficiencies identified during conduct of the tests were properly documented.

During the Pressurizer Functional Test the pressurizer heaters were not able to maintain pressure within the band assumed in the FSAR Safety Analysis, while meeting the conditions and prerequisites as defined on table 14.1.3-1 (page 20), Chapter 14, McGuire FSAR. This apparent test failure will be tracked as an inspector followup item (IFI 50-370/82-25-01) pending evaluation by the licensee and any required retesting.

Within the areas reviewed and observed, no violation or deviations were identified.

8. Thermal Expansion Test Unit 2 (70324 and 70329)

The inspector reviewed a portion of the thermal expansion data collected under test procedure TP/2/A/1150/08, ASME Code Piping Thermal Expansion Test while having no questions or concerns.

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