INSPECTION PROCEDURE 70562

REACTOR COOLANT SYSTEM HYDROSTATIC TEST RESULTS EVALUATION

PROGRAM APPLICABILITY: 2513

70562-01 INSPECTION OBJECTIVE

01.01 Ensure that the test results are being adequately evaluated.

01.02 Ensure the test data meet acceptance criteria, and that deviations are properly identified and resolved.

01.03 Verify that the review procedures are being followed.

01.04 Evaluate the adequacy of the licensee's administrative practices with respect to test execution and data evaluation.

70562-02 INSPECTION REQUIREMENTS

02.01 Review changes to the test procedure(s) to determine the following:

a. The changes were made in accordance with the licensee's administrative controls.

b. The test procedure(s) still satisfy commitments made by the licensee.

02.02 Review the "as-run" copy test procedure(s) to determine if the following criteria were met.

a. The system boundary included all pressure vessels, piping, pumps, and valves which are part of the reactor coolant system, or are connected to the reactor coolant system, up to and including:

   1. the outermost containment isolation in system piping that penetrates the primary reactor containment

   2. the second of two valves normally closed during normal reactor operation in system piping that does not penetrate primary reactor containment

   3. the reactor coolant system safety and relief valves

b. The water was of the quality required. If the water quality was poorer than required, verify that the licensee took the proper corrective action.

c. Verify that the licensee held the minimum test pressure (1.25 times the lowest design pressure of any component within the test boundaries) for at least 10 minutes.

d. The hydrostatic test pressure did not exceed the maximum pressure allowed. If the test pressure exceeded the maximum pressure allowed or exceeded the 1.25 design pressure by more than 6%, verify that the licensee reevaluated the test limits in accordance with ASME Boiler and Pressure Vessel Code, Section III, Division 1, Subsection NB-3226(d).

e. The reactor coolant temperature was above the nil ductility transition temperature. If the reactor coolant temperature was below the nil ductility transition temperature, verify that the licensee evaluated the effect on system components.

f. All test deficiencies are resolved, and retest requirements have been completed.

g. The test results have been reviewed and approved by those personnel charged with the responsibility for review and acceptance by FSAR commitments or administrative requirements.

70562-03 INSPECTION GUIDANCE[1]

03.01 All changes, including deletions, should be reviewed for conformance to the requirements established in the FSAR and Regulatory Guide 1.68. If a change results in failure to satisfy FSAR commitments, or eliminates testing identified in Regulatory Guide 1.68, the change should be identified as a test exception in the licensee readiness report (IP 94300).

03.02f In some cases the test data will not be within the written predicted acceptance criteria. In this case, the inspector must ascertain that further licensee actions will be or have been taken. These actions may require plant design changes, evaluation by a manufacturer, or restriction of plant operations. The inspector must determine that for each of the above type actions the licensee's followup corrective actions have been correctly performed (i.e., licensing approval, subsequent testing for each design change, and FSAR change as appropriate).

70562-04 REFERENCES

10 CFR 50.2 (V)

R.G. 1.68, Revision 2 (August 1978), Appendix A

ASME Boiler and Pressure Vessel Code, Section III, Division 1, Subsection NB.

END

[1] The digits following the "03" numbers in this section refer to the equivalent digits following the "02" numbers in Section 70562-02, "Inspection Requirements." For example, Section 03.01 offers guidance for Inspection Requirement 02.01.