NRC INSPECTION MANUAL

INSPECTION PROCEDURE 72512

STARTUP TEST PROCEDURE REVIEW: RCIC OR RECIRCULATION PUMP TRIP

PROGRAM APPLICABILITY:

72512-01 INSPECTION OBJECTIVE

Ascertain whether one of the identified tests is consistent with regulatory requirements, guidance, license commitments, and technical specifications.

72512-02 INSPECTION REQUIREMENTS

BWR Power Ascension Testing Procedure Review (RCIC or RECIRC Pump Trip)

02.01 <u>Reactor Core Isolation Cooling System (Group A)</u>. If Group A procedures are selected for review, the inspector shall:

- a. Review the FSAR, DL Safety Evaluation Report, and docketed letters from the licensee and verify that the testing commitments have been included.
- b. Verify standard procedures review requirements are met as defined in Procedure 72300.
- c. Verify that the procedure contains acceptance criteria for the following:
 - Startup from hot standby conditions and discharge of rated flow into the reactor vessel at rated pressure and temperature within a specified time
 - 2. Verification of maximum rated flow isolation trip
 - 3. Verification of overspeed trip
 - 4. Turbine gland seal condenser system shall prevent steam leak to atmosphere
- e. Verify that initial conditions include:

Issue Date: 04/30/75 - 1 - 72512

- 1. Steady-state reactor operations at rated temperature and pressure
- 2. RCIC at standby operation
- 3. Reactor Power at approximately 25% of design.

72512 - 2 - Issue Date: 04/30/75

- 02.02 <u>Recirculation Single Pump Trip, and Two Pump Trip (Group B)</u>. If Group B Procedures are selected for review, the inspector shall:
 - a. Review the FSAR, DL Safety Evaluation Report, and docketed letters from the licensee and verify that the testing commitments have been included.
 - b. Verify standard procedures review requirements are met as defined in Procedure 72300.
 - c. Verify that the procedure contains prerequisites and acceptance criteria for each of the following:
 - 1. Instrumentation is adjusted to provide an accurate conversion of individual jet pump Δp values to a summed core flow over the range of two pump operations
 - 2. Recirculation pump instrumentation is calibrated
 - 3. Loop flow from single tap and from double tap pumps agree within 3%
 - 4. Core flow from single tap and double tap pumps agree within 2%
 - 5. Individual jet pump flow variation from average pump flow is limited.
 - d. Verify that the procedure provides for test performance at specific test plateaus identified in the FSAR.
 - e. Verify that test conditions include:
 - 1. Trip from steady-state power operation
 - 2. Recording of transients following trip and during pump restart
 - 3. Recording of limiting heat transfer parameters
 - 4. Return to two pump operation in accord with facility operating procedures
 - 5. Trip of a single pump, and of both pumps simultaneously.

72512-03 INSPECTION GUIDANCE

No specific guidance furnished at this time.

END

Issue Date: 04/30/75 - 3 - 72512