

NRC INSPECTION MANUAL

INSPECTION PROCEDURE 72510

POWER ASCENSION PROCEDURE REVIEW: RELIEF VALVES AND MSIVS

PROGRAM APPLICABILITY:

72510-01 INSPECTION OBJECTIVES

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

72510-02 INSPECTION REQUIREMENTS

02.01 Relief Valves (Group A). If Group A procedures are selected for review, the Inspector shall:

- a. Review the FSAR, 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 described in Procedure 72300.
- c. Verify that the procedure contains acceptance criteria as follows:
 1. Relief valve rating at a specified pressure setting.
 2. Delay time between the signal initiating relief valve opening and the start of motion.
 3. Opening stroke time of the main valve disc and distance.
 4. Closing stroke time of the main valve piston following release of the pneumatically operated mechanical push rod.
- d. Verify that initial conditions include:
 1. All relief valves set in "auto".

2. Reactor power level at predetermined power level plateaus.
- e. Assure that precautions include:
1. For accurate data, the reactor power must be sufficient to provide constant reactor pressure.

2. Monitor suppression pool temperature limit.
- f. Verify that test conditions include:
1. Individual valve functional tests at prescribed power level plateaus.
 2. Individual valve capacity tests at low power (25%) using bypass valve movement or turbine generator output as a measurement variable.

02.02 Main steam isolation valves (Group B). If Group B procedures are selected for review, the Inspector shall:

- a. Review the FSAR, 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 described in Procedure 72300.
- c. Verify that the procedure contains acceptance criteria as follows:
 1. MSIV closing time.
- d. Verify that initial conditions include:
 1. Steady-state equilibrium conditions established.
 2. Reactor at essentially full rated pressure.
 3. Power levels for various tests.
- e. Verify that test conditions include:
 1. Functional testing, single valve manual closure required power levels - 25%, 50%, 75%.
 - (a) Full fast closure
 - (b) Slow to 90% open
 2. All valves, simultaneous, full closure from approximately 75% power with process computer and transient recorder in service.

72510-03 INSPECTION GUIDANCE

No specific guidance available at this time.

END