

NRC INSPECTION MANUAL

INSPECTION PROCEDURE 72578

POWER ASCENSION TEST PROCEDURE REVIEW (EVALUATION OF CORE PERFORMANCE)

PROGRAM APPLICABILITY:

72578-01 INSPECTION OBJECTIVE

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

72578-02 INSPECTION REQUIREMENTS

02.01 Evaluation of Core Performance (Group A & B). 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:
 - (1) Core radial and axial power distribution, radial and axial peaking factors, and linear heat rates are determined and compared to predicted values.
 - (2) Critical peaking factors, DNBR, peak linear heat rate and its location are determined and compared to predicted values.
- d. Verify that precautions require:
 - (1) DNBR within requirements
 - (2) Linear heat rates within technical specification limits.
- e. Assure that initial conditions include:

(1) Computer in service

(2) All instrumentation calibrated

f. Verify that test conditions include:

(1) Steady state operations

(2) 25%, 50%, 75% and 100% power test conditions.

72578-03 INSPECTION GUIDANCE

G e n e r a l :
Testing requirements for this test should be compared with applicable provisions of Regulatory Guide 1.68, and with the test program description in the FSAR.

1. MC Module 61702, "Surveillance of Core Power Distribution Limits" may be used concurrently with or as reference for this procedure.

1.f.(2) As discussed in R.G. 1.68, Revision 2, Paragraph C.8, power hold points (power test conditions) are approximate. The licensee may choose to select his power hold points at 5% to 10% from the 10%, 25% and 50% power levels.

END