NRC INSPECTION MANUAL

INSPECTION PROCEDURE 70305

REACTOR PROTECTION SYSTEM TEST
PREOPERATIONAL TEST PROCEDURE REVIEW

PROGRAM APPLICABILITY:

70305-01 INSPECTION OBJECTIVES

01.01 Ensure that the test procedure is technically adequate.

01.02 Ensure that the described test is consistent with regulatory requirements, guidance, and licensee commitments.

70305-02 INSPECTION REQUIREMENTS

The inspector shall:

02.01 Obtain and review an approved copy of the test procedure(s) for technical adequacy prior to the date scheduled for the test.

02.02 Review the FSAR, SER, Technical Specifications, docketed correspondence, and Regulatory Guide 1.68. Verify that the test procedure adequately addresses NRC requirements and licensee commitments relating to the Reactor Protection System.

02.03 Review the test procedure(s) in accordance with inspection procedure MC 70300.

70305-03 INSPECTION GUIDANCE

03.01 The review should insure that important system performance functions are adequately reflected in this test procedure. Items which should be adequately tested as part of the test procedure include (but are not limited to):

a. minimum SCRAM reset time,

b. response time of protection channels,

c. operation and calibration of protection system,

d. alarm functions,

e. failure mode on loss of power,

f. electrical independence and redundancy,

g. scram valve tests,

h. instrumentation functions,

i. logic functions,

j. automatic and manual system operation,

k. permissive, prohibit and bypass functions, and

l. ESF signal functions.

NOTE: Items may be part of other systems tests.

END