

# NRC INSPECTION MANUAL

---

## INSPECTION PROCEDURE 70317

---

### REACTOR PROTECTION SYSTEM TEST PREOPERATIONAL TEST WITNESSING

#### PROGRAM APPLICABILITY:

#### 70317-01 INSPECTION OBJECTIVES

- 01.01 Verify that the testing is conducted in accordance with approved procedures,
- 01.02 Independently verify the acceptability of test results, and
- 01.03 Evaluate the performance of licensee personnel conducting the test.

#### 70317-02 INSPECTION REQUIREMENTS

The inspector shall:

- 02.01 Schedule an inspection to coincide with this testing.
- 02.02 Obtain and review the Reactor Protection System Test Procedure prior to witnessing the test.
- 02.03 Review Regulatory Guide 1.68 and applicable portions of the FSAR, SER, Technical Specifications, and docket correspondence. Verify that the Reactor Protection System is adequately tested to ensure that NRC requirements and licensee commitments are satisfied.
- 02.04 Observe licensee personnel conducting the test. Verify that:
  - a. tests are conducted in accordance with approved procedures,
  - b. approved test procedures are available to personnel conducting the test,
  - c. test equipment is properly installed,
  - d. test data is collected and recorded in the approved manner, and
  - e. evaluate the licensee personnel's ability to conduct the test.

70317-03 INSPECTION GUIDANCE

03.01 By witnessing this test, the inspector should ensure the important system performance functions are adequately tested. Areas which should be witnessed include (but are not limited to):

- a. system response to protection channel signals,
- b. alarm, logic, and instrumentation functions,
- c. failure mode on loss of power,
- d. automatic/manual system operation,
- e. ESF operation, and
- f. SCRAM reset time.

Note: - Portions of this testing require that the reactor be critical and operating at some power level. Inspector considerations must include turnover of pre-initial criticality testing to operating inspector and maintaining continuity of inspections and plant inspection requirements.

Items may be part of other systems tests.

END