

SECTION I
INSPECTION OBJECTIVES

1. Verify that the testing is conducted in accordance with approved procedures,
2. Independently verify the acceptability of test results, and
3. Evaluate the performance of licensee personnel conducting the test.

SECTION II
INSPECTION REQUIREMENTS

The inspector shall:

1. Schedule an inspection to coincide with this testing.
2. Obtain and review the Nuclear Instrumentation System Test Procedure prior to witnessing the test.
3. Review Regulatory Guide 1.68 and applicable portions of the FSAR, SER, Technical Specifications, and docket correspondence. Verify that the Nuclear Instrumentation System is adequately tested to ensure that NRC requirements and licensee commitments are satisfied.
4. 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.

SECTION III
INSPECTION GUIDANCE

1. By witnessing this test, the inspector should ensure that important system performance functions are adequately tested. Areas which should be witnessed include (but are not limited to):
 - a. operation of the instrumentation and controls over the design operating range,
 - b. system response to simulated limiting malfunction/failure signals,
 - c. neutron and power monitoring instrumentation operation in response to test signals,
 - d. operation of trip functions, alarm setpoints and audible count rates,
 - e. operation of auctioneering circuits and flux channel deviation signals,
 - f. failure mode due to loss of power, and
 - g. electrical independence and redundancy.

NOTE: Items may be part of other systems tests.