

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 D. C. Power System Test Procedure prior to witnessing the test.
3. Review Regulatory Guide 1.68 and applicable portions of the FSAR, SER, Technical Specifications, IEEE Standard 450-1975, and docket correspondence. Verify that the D. C. Power 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. redundancy and electrical independence,
 - b. actual system amperage load comparison to design loads,
 - c. operation of protective functions including trip set points, interlocks, alarms and load transfer devices,
 - d. operation of system instrumentation,
 - e. demonstration of design capacity of battery chargers and inverters,
 - f. operation of emergency lighting,
 - g. verification of emergency loads supplied,
 - h. system operation at facilities with multiple units during normal and simulated emergency conditions, including proper integrated system operation (load distribution and automatic load switching functions), and
 - i. operation of ground detection instrumentation.

NOTE: Items may be part of other systems tests.