

# NRC INSPECTION MANUAL

DQASIP

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## INSPECTION PROCEDURE 35501

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### QA FOR THE STARTUP TEST PROGRAM

PROGRAM APPLICABILITY: 2514

#### 35501-01 INSPECTION OBJECTIVES

Ascertain whether the licensee's QA program which covers operational activities has been implemented for the startup and power ascension test program.

#### 35501-02 INSPECTION REQUIREMENTS

##### 02.01 Program Review

- a. Verify that requirements have been established and procedures or checklists developed for inspection of the following activities on a regular basis by the QA organization:
  1. Conduct of testing
  2. Tracking of test deficiencies
  3. Test documentation
  4. Control of measuring and test equipment
- b. Verify by questioning two key personnel utilized in the applicant's onsite QA organization, that they understand their basic responsibilities as applied to the startup test program.

02.02 Implementation of the Audit Program. During the period from initial fuel loading until the completion of power ascension testing, the inspector shall witness the performance of at least two audits of startup test activities.

02.03 Audit Reports Review. Review two to five audit reports for management and quality assurance audits of the test program to assure that they were performed in accordance with the QA program, and to assure that identified deficiencies have been resolved.

03.01 Program Review

- a. Criterion X of Appendix B requires that a program for inspection of activities affecting quality shall be established and executed by or for the organization performing the activity to verify conformance with the documented instructions, procedures, and drawings for accomplishing the activity. Such inspections must be performed by individuals other than those who performed the activity being inspected. Criterion XVI of Appendix B requires that measures shall be established to ensure that conditions adverse to quality (such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances) are promptly identified. The inspection effort should be directed to determining that an onsite QA/QC organization has provided surveillance of startup test activities. Test activities that required inspection should have been identified and appropriate procedures or checklists completed for the conduct of that surveillance.
- b. The type and depth of the questioning of QA personnel should be designed to ensure that key personnel understand their general and basic responsibilities as presented in the QA Manual relating to startup testing.

03.02 Implementation of the Audit Program. The inspector should determine that the audits are performed, in accordance with the audit schedule, by qualified person(s) (appropriately trained and independent of direct responsibility for the activities which they audit) using approved audit checklists or procedures. Additionally, the inspector should determine that the audit results are reviewed with responsible management and that any items requiring resolution are documented in accordance with program requirements.

03.03 Audit Reports Review

- a. Safety-related activities performed during startup testing should be audited to verify conformance to test commitments and administrative controls for testing and other safety-related activities (e.g., maintenance and modification). Section 17 of the FSAR will normally address or identify many of the audit program requirements (e.g., audits will be conducted using procedures, auditors will be independent, etc.). The inspector should verify conformance to these commitments.
- b. The inspection effort should be directed at ensuring that audits have been performed on the predetermined schedule, and that adequate resolution was effected for all identified deficiencies.
- c. The inspector should review the licensee's audit of test packages.

- d. The QA review/audit function is normally a sampling technique and thus a review/audit of all tests doesn't need to be performed.

END