

NRC INSPECTION MANUAL

DQASIP

INSPECTION PROCEDURE 72301

STARTUP TEST RESULTS EVALUATION

PROGRAM APPLICABILITY: 2514

72301-01 INSPECTION OBJECTIVES

Ascertain whether uniform criteria are being applied for evaluating completed startup tests to ensure their technical and administrative adequacy.

72301-02 INSPECTION REQUIREMENTS

Following acceptance of test results by the licensee, inspect the licensee's completed test data package as follows:

Two levels of inspection are provided in this procedure:

Inspection Of Test Results: For those tests for which IE MC 2514 requires inspector evaluation of test results, complete all steps of this procedure.

Verification of Licensee Evaluation of Tests Results: For those tests for which IE MC 2514 only requires verification that the licensee has evaluated the test results, only steps 02.04 and 02.05 of this procedure need to be completed.

02.01 Review All Test Changes, Including Deletions

- a. Verify that each was approved in accordance with the pertinent administrative procedures.
- b. Verify that the procedure is annotated to identify test changes.
- c. Verify that the test change has been completed if it entails specific actions.
- d. Verify that nothing changed the basic objectives of the test.

02.02 Review All Test Deficiencies

- a. Verify that each has been resolved, that the resolution has been accepted by appropriate management, and that retest requirements have been completed.
- b. Verify that any system or process changes necessitated by a test deficiency have been properly documented and reviewed.

- c. Verify that deficiencies which constitute a reportable occurrence as defined by the TS have been properly reported (followup on reportable deficiencies is done under IP 90501).

02.03 Review "As-run" Copy of Test Procedure

- a. Verify that data sheets have been completed (25% sample).
- b. Verify that all data are recorded where required and are within acceptance tolerances (25% sample).
- c. Verify that test deficiencies identified in 02.03a and 02.03b are noted.
- d. Verify that individual test steps and data sheets have been properly initialed and dated.

02.04 Review the Test Summary and Evaluation

- a. Verify that the cognizant engineering function has evaluated the test results, and has signified that the testing demonstrated that the system met design requirements.
- b. Verify that the licensee specifically compared test results with established acceptance criteria.
- c. Verify that those personnel responsible for review and acceptance of test results have documented their review and acceptance of the data package and the evaluation.
- d. If the offsite review committee has audited the test package, verify that the records reflect this audit and that their comments are included and corrective action has been taken.
- e. Verify Quality Assurance/Safety Group or other independent review of test results as prescribed in FSAR or other commitments.

02.05 Verify That the Test Results Have Been Approved. Verify that those personnel charged with responsibility for review and acceptance of test results have documented their review and acceptance of the data package and the evaluation.

72301-03 INSPECTION GUIDANCE

This procedure provides a standard review practice to be applied to startup test results and applies to Category I and II tests as specified in IE MC 2514. Specific inspection requirements for power level plateau data review and evaluation are provided in separate inspection procedures.

03.01 Review All Test Changes, Including Deletions. All changes, including deletions, to the test program should be reviewed for conformance to the requirements established in the FSAR and Regulatory Guide 1.68. If a change results in failure to satisfy FSAR commitments, or eliminates testing identified in Regulatory

Guide 1.68, the change should have been reviewed and approved pursuant to 10 CFR 50.59.

03.02 Review All Test Deficiencies. In some cases the test data will not be within the written predicted acceptance criteria. In this case the inspector must ascertain that further licensee actions will or have been taken. These actions may require plant design changes, evaluation by a manufacturer of the error between the design and predicted plant performance, or restriction of plant operations because of the difference in plant performance and predicted acceptance criteria. The inspector must determine that for each of the above type actions, licensee followup corrective actions have been correctly performed, i.e., CFR 50.59 review, licensing approval if required, and subsequent testing for each design change.

03.03 Review "As-Run" Copy of Test Procedure. The inspector should make his own technical analysis and judgment to assure that the licensee's analysis has been performed correctly. He should specifically confirm that all test results have been compared with acceptance criteria.

03.04 Review Test Summary and Evaluation. Test data packages are assembled by licensees. The data package should be reviewed by the inspector to assure that the package is complete (as defined in licensee procedures). The inspector must also ascertain that the licensee has verified that the acceptance criteria of the procedure have been met.

03.05 Verify That the Test Results Have Been Approved. Normally, the test results are reviewed through the startup organization, culminating in review by a committee comprised of the Plant Superintendent, the NSSS Site Manager, the A/E Site Manager, or their designees. FSAR or other commitments frequently require review by Quality Assurance, Safety Review, or other independent organization.

Frequently, test review committees will also have examined the results in accordance with technical specification requirements.

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