



System Development and Life-Cycle Management (SDLCM) Methodology

Subject Site Acceptance and Operations Testing	Type	Procedure
	Identifier	P-5141
	Effective Date	February 2002
	Revision No.	1

Approval

CISSCO Program Director

1. PURPOSE

This procedure specifies how to execute site acceptance and operations testing procedures. The desired outcome of executing these procedures is to certify that the system behaves as specified in the Product Definition and Analysis Document and in the User Guides.

2. APPLICABILITY

This procedure applies to all NRC projects subject to the SDLCM Methodology. Site acceptance and operations testing procedures must be developed for all new systems and all systems that have been modified in any way (such as being enhanced or fixed). Site acceptance and operations testing procedures are typically created and executed by technical staff responsible for the verification and validation of system requirements, and observed by the actual user.

3. REFERENCE PUBLICATIONS

The following publications contain related information:

- *SDLCM Methodology Handbook*
- SDLCM Methodology Procedure P-2141, Operational Readiness Review
- SDLCM Methodology Standard S-5151, Test Plan

4. PROCEDURE

4.1 Process Flow Diagram

The site acceptance and operations testing procedure consists of those steps identified in Figure 5141-1.

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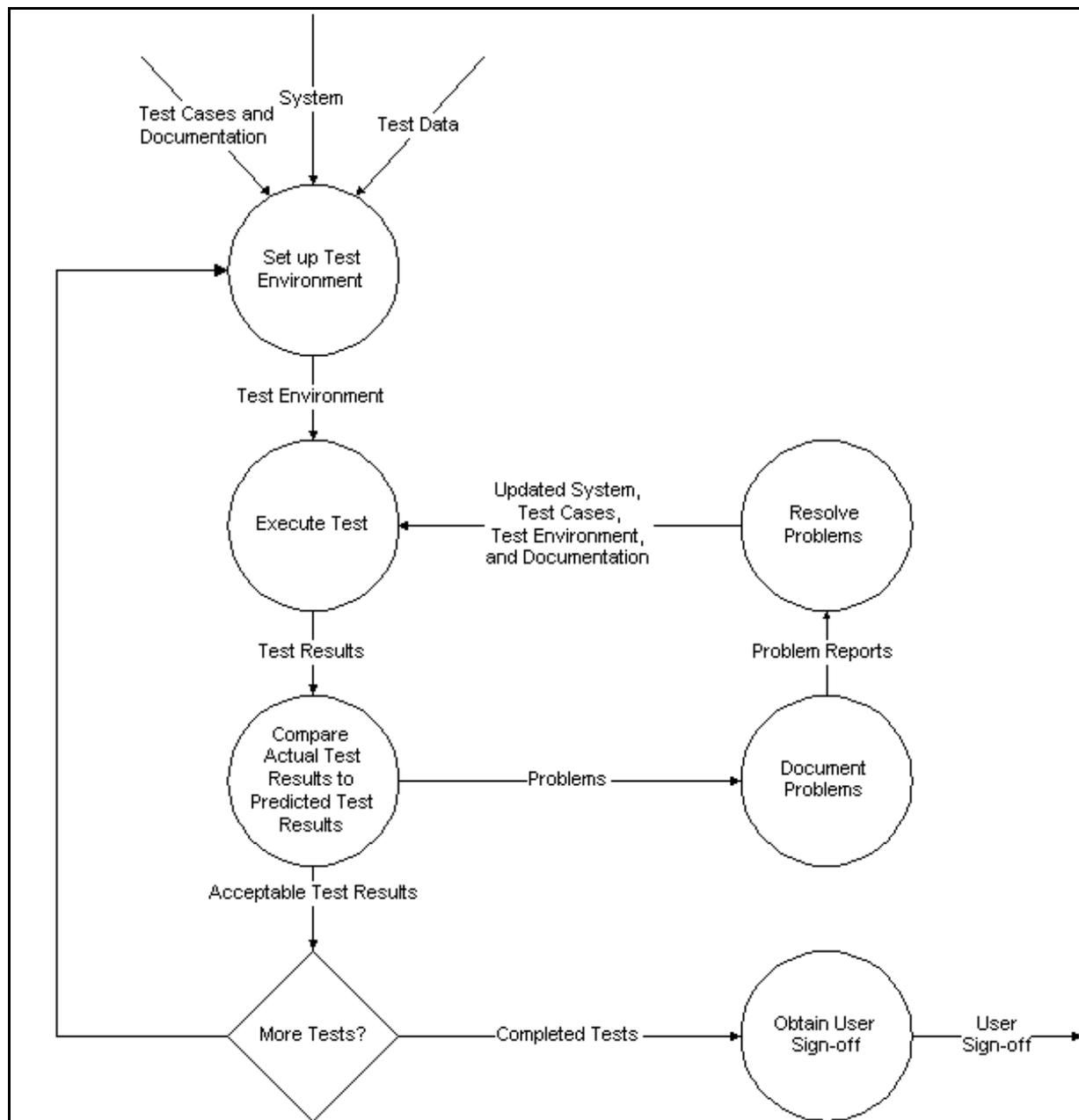


Figure 5141-1. Site Acceptance and Operations Testing Procedure

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4.2 Entry Criteria

The following input are necessary to begin this procedure:

- The system installed
- Test cases and documentation, including:
 - ◇ System requirements (identified in the Product Definition and Analysis)
 - ◇ Requirements to Test Case Traceability Matrix
 - ◇ User Manuals
- Test Data

The following trigger is necessary to begin this procedure:

- The system has been successfully installed and is ready for acceptance testing

4.3 Steps

For each test in the test suite (including regression tests to be performed after all individual site acceptance tests):

1. Set up the test environment.
2. Execute the test.
3. Document the actual test results and compare them to the predicted results.
4. Document problems—if unexpected results occur—in a problem report.
5. Resolve test problems, that is, fix any problems with the test procedure, predicted results, test data, software, or environment.
6. Obtain user sign-off that the system is acceptable.

4.4 Exit Criteria

Results of the site acceptance and operations testing procedures are:

- All problems have been resolved
- The customer is satisfied with the system

Outputs of the site acceptance and operations testing procedures are:

- A system that works as specified
- Customer sign-off

4.5 Verification

Quality Assurance (QA) verifies that the site acceptance and operations testing procedures have been performed and all problems resolved.

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4.6 Roles

Table 5141–1 specifies the roles and responsibilities for each of the steps in the site acceptance and operations testing procedures.

Table 5141–1. Site Acceptance and Operations Testing Step-Role Table

Steps:	Roles:	Tester	QA	User or Customer
1. Set up the test environment.		P		R
2. Execute the test.		P		R
3. Document the test results and verify that they agree with the predicted test results.		P		R
4. Document problems, if any, in a problem report.		P		R
5. Resolve test problems.		P		R
6. Ensure customer satisfaction by obtaining user sign-off.			P	A

Legend: P=Performs, R=Reviews, A=Approves, S=Supports