



System Development and Life-Cycle Management (SDLCM) Methodology

Subject Other Systems Integration Plan	Type	Standard
	Identifier	S-5054
	Effective Date	February 2002
	Revision No.	2

Approval

CISSCO Program Director

A. PURPOSE

This standard specifies the content and format requirements for an Other Systems Integration Plan.

B. APPLICABILITY

This standard applies to all NRC Project/Tasks, subject to the SDLCM Methodology, that plan to develop and deploy a new, upgraded, or migrated data processing system or software application, when that system must be integrated with other NRC systems.

This standard is used by those persons who create, review, and approve the Other Systems Integration Plan.

C. REFERENCE PUBLICATIONS

The following publications contain related information:

- *SDLCM Methodology Handbook, Component 3*
- SDLCM Methodology Standard S-5051, Tactical Integration Plan
- SDLCM Methodology Standard S-1052, Project Management Plan
- SDLCM Methodology Standard S-1057, Software Development Plan
- SDLCM Methodology Standard S-5151, Test Plan
- *NRC Model Tactical Integration Plan, January 3, 1997*

D. STANDARD

The Other Systems Integration Plan provides a detailed description of the activities involved in integrating the solution system with other NRC systems, both legacy and new. It defines responsibilities, schedules, risks, and risk mitigation approaches.

Tailor this standard as needed to be consistent with the size, scope, and complexity of the installation and integration effort. Add sections and subsections for special topics. Sections and subsections that are not applicable should *not* be deleted; they should indicate "not applicable."

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If the system integration with other systems is small, the integration effort may be described as part of the Project/Task Tactical Integration Plan (TIP).

The following paragraphs describe the content of each section of the Other Systems Integration Plan.

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1. INTRODUCTION

Provide any information necessary for understanding the Project/Task effort in the integration of the solution system with other NRC systems, both legacy and new.

1.1 Objectives

Describe the end or ends that the Project/Task intends to achieve during the process of integrating the solution system with other NRC systems. If there is an overall goal, state that within this section and clarify that it is the goal.

1.2 Scope

Describe the scope of this plan. Identify the activities that mark the beginning and end of the integration process. Also identify any activities related to the integration process that are not covered by this plan.

1.3 Assumptions

Identify any assumptions related to the integration of the solution system with other NRC systems. Include any identified open issues if the integration effort is to continue while issues remain unresolved. Include the degree of criticality in the description of each assumption.

1.4 Applicable Documents

List the documents that support this plan or that provide additional information about the various activities included under this plan, such as test requirements, training materials, applicable system requirements and specification documents, interface control documents, Project/Task schedules, problem resolution policies and procedures, and the TIP.

2. Approach

Describe the overall approach that will be followed to integrate the solution system with other NRC systems.

2.1 System Overview

Briefly describe the solution system function and the context in which it operates, especially the interfaces with other NRC systems.

Identify the NRC systems, with which the solution system will be integrated. Specify if each system is a new or legacy system. If the system is a new one, indicate when it is planned to be ready for integration. This information may be provided in tabular form.

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State any special conditions that exist and how they might affect this plan or its implementation.

2.2 Integration Activities

Describe the various stages of activity and the strategy for accomplishing integration of the solution system with the other NRC systems. Clearly identify the date and activity that marks the end of the integration effort.

2.3 Integration Milestones

Provide the milestone schedule for the integration period. Indicate dependencies.

Refer to Section 1.4, Schedule for Development of Deployment Plan Components, of the TIP as appropriate. If the effort involved in integrating the solution system with other NRC systems is small or uncomplicated, include all integration milestones in Section 1.4 of the TIP.

2.4 Integration Roles and Responsibilities

Provide a table indicating the activities required for integration of the solution system and the Project/Task personnel (NRC and contractor) having responsibility for their completion.

Specify by role name (or sub-role name in the case of Development Team members), not by the name of an actual person, the person(s) responsible for each activity. The *SDLCM Methodology Handbook* contains role names, descriptions, and responsibilities as they apply to the methodology.

Refer to Section 1.3, Roles and Responsibilities, of the TIP as applicable. If the effort is a small or uncomplicated one, include all integration related activities and the associated roles and responsibilities in Section 1.3 of the TIP.

2.5 Problem Identification and Resolution

Identify the problem reporting and tracking procedures that will be followed. Identify who is responsible for reporting problems during integration of the solution system with other NRC systems and for implementing approved fixes or changes during the integration process. Refer to the Project/Task problem resolution procedures, as applicable.

2.6 Risks and Risk Mitigation

Enumerate the risks associated with integration of the solution system. Examples of such risks include availability of another new NRC system when it is scheduled for integration with the solution system, poorly defined data interfaces, and failures of the solution system or other NRC system during integration. Analyze the potential impact of

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any identified risks and describe any proposed risk mitigation strategies, such as activity resequencing. Analyses should consider critical Project/Task objectives that may be jeopardized.

Refer to Section 2.3, Risk Management, of the Project Management Plan, and to the Software Development Plan, as applicable.

2.7 Integration Testing

Identify the procedures that will be used to verify successful integration of the solution system with other NRC systems. Refer to the Project/Task Test Plan for a description of the integration testing that will be performed.