

 Independent Verification & Validation Program	System Level Procedure Template	T2002 Version: H Effective Date: May 8, 2014
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Verify that this is the correct version before use.

AUTHORITY		DATE
Jeffrey Northey (original signature on file)	IMS Manager	05/08/2014
Richard Grigg (original signature on file)	Process Owner	05/08/2014

REFERENCES	
Document ID/Link	Title
IVV QM	NASA IV&V Quality Manual
IVV 05	Document Control

If any process in this document conflicts with any document in the NASA Online Directives Information System (NODIS), this document shall be superseded by the NODIS document. Any external reference shall be monitored by the Process Owner for current versioning.

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Purpose of the System Level Procedure Template

This template is designed to provide a standard outline and format for system level procedures (SLPs). This template is also designed to provide standard sections that are used in all SLPs, as well as direction to provide tailoring and section-content guidance for those who generate or update SLPs.

System Level Procedure Template Conventions

Three different styles of text are used in this template:

1. [Text included in square brackets]

This text represents SLP-specific information to be provided. Examples are [SLP name] for the name of the SLP, and [purpose] for the purpose of the SLP. Where this text appears, insert the SLP-specific information between the brackets, and then delete the brackets.

2. *{Italic text in braces}*

This text is guiding or explanatory in nature. It will include tailoring guidance and descriptions of the kinds of information to be included in each section. Therefore, this text should be deleted from the SLP.

3. Normal text

This is standard text that should be copied verbatim into the SLP as necessary. It represents any text that does not fit into either of the above categories.

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Instructions for Using the System Level Procedure (SLP) Template

Copy the following template into a new document, enable the “Track Changes” feature of Microsoft Word, and follow the conventions above.

After completion, forward or provide a link to a copy of the document to the DCC for review. The document shall be named “IVV [SLP number] - WORKING.”

SLP creators or modifiers shall employ the following general guidelines when creating and/or modifying SLPs:

- a. The font for all sections of the SLP shall be Arial.
- b. The body text shall be 12-point font.
- c. The font family for the header shall be Arial, case shall be proper, and font weight shall be bold. Font size shall be 12-point in the right corner and 14-point in the center.
- d. The footer shall appear exactly as represented in this document; once copied into the new document, no modifications to the footer are necessary.
- e. Drafts should be watermarked “DRAFT” on the first page of the SLP.
- f. With the exception of section headers, all text shall be full-justified.
- g. SLP headings and subheadings shall use the point numbering system. All headings and subheadings shall be bold.
 - i. First-level headings (e.g., Section 1.0 and Section 2.0) shall be left-justified in 12-point font and specified in proper case.
 - ii. Subheadings shall be formatted in 12-point font, specified in proper case, and indented as appropriate in half-inch increments from the last superior section.
- h. Ensure that all references to the NASA IV&V Program read “NASA IV&V Program.”
- i. Verify that all hyperlinks and file paths in the SLP are valid.
- j. Verify that all references to sections within the SLP are qualified with italicized titles set off by commas.
 - Example: “Refer to Section 3.0, *Definitions and Acronyms*, for additional information.”
- k. Verify that all references to other documents are qualified with italicized titles set off by commas.
 - Example: “Refer to IVV 09-4, *Project Management*, for additional information.”

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- l. Verify that all documents and websites specifically mentioned in the text of the SLP are listed in the “References” table. Also verify that the “References” table contains any parent/child documents associated with the SLP.
- m. Ensure that the document precedence statement is included below the “References” table. The precedence statement shall state the following: “If any process in this document conflicts with any document in the NASA Online Directives Information System (NODIS), this document shall be superseded by the NODIS document. Any external reference shall be monitored by the Process Owner for current versioning.”
- n. Ensure that Section 3.0, *Definitions and Acronyms*, contains the proper reference to the Quality Manual.
- o. Verify that all records contained in the table in Section 6.0, *Records*, are complete and accurate, and that all fields in the table (e.g., Record Name, Original, Responsible Person, Location, etc.) are complete and accurate for each record. (For a new record, verify that the Record Name and Responsible Person fields are complete and accurate. The Records Team and/or DCC will complete the remaining fields for new records.)



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VERSION HISTORY

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release – conversion of IVV 05-2 to T2002		Paige Eckard	04/13/2007
A	Updated process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	02/04/2008
B	Updated Shared Network Drive links		Stephanie Ferguson	06/13/2008
C	Changed “IV&V Facility” to “IV&V Program”; updated Shared Drive path		Stephanie Ferguson	12/11/2008
D	Updated verbiage in Section 6.0, <i>Records</i>		Sara Cain	01/27/2010
E	Added precedence statement to be included in all SLPs		Sara Cain	07/01/2010
F	Synchronize who will complete new record fields on pages 4 and 11.		Richard Grigg	12/03/2010

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VERSION HISTORY

Version	Description of Change	Rationale for Change	Author	Effective Date
G	Add Rationale to Version History table and move table to the end of the document in landscape. Add Process Owner to renamed Authority table; replace Revision with Version; point QM link to SLPs; enhance footer.	Rationale for changes is frequently lost or documented in email or other hard to retrieve documents. PO info is helpful to any users who have questions about the SLP. The direct link to the QM changes with each update. Version and footer now follow agency convention.	Richard Grigg	01/31/2013
H	Update precedence statement; expand NODIS acronym. Add NODIS to acronym list. Rename References table; add Link.	Some users, especially newer employees or outside customers, may not be aware of or familiar with the NODIS acronym. Websites and web pages are an ever larger portion of referenced information.	Richard Grigg	05/08/2014

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Template begins on the following page.}

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{The Authority table contains the name of the Approving Official, role of the Approving Official within the IMS, and date the Approving Official signed the DCR to approve the addition or modification of the document. Second row contains the name of the Process Owner (PO), role, and date the PO signed the DCR.}

AUTHORITY		DATE
[Approving Official] (original signature on file)	[Approving Official's IMS Role]	[mm/dd/yyyy]
[Process Owner] (original signature on file)	Process Owner	[mm/dd/yyyy]

{The References table contains any documents and/or websites that are referenced in the text of the SLP, as well as any parent/child documents associated with the SLP. The entries in the table below are standard for all SLPs that produce records.}

{The document must contain the disclaimer located below the References table to ensure proper precedence and versioning practices.}

REFERENCES	
Document ID/Link	Title
IVV QM	NASA IV&V Quality Manual
IVV 16	Control of Records
NPR 1441.1	NASA Records Retention Schedules

If any process in this document conflicts with any document in the NASA Online Directives Information System (NODIS), this document shall be superseded by the NODIS document. Any external reference shall be monitored by the Process Owner for current versioning.

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1.0 Purpose

{This section provides a clear statement of why this SLP exists.}

The purpose of this system level procedure (SLP) is to establish a consistent method for [purpose].

2.0 Scope

{This section states the applicability and limits to which the SLP shall be used. For example, "This SLP applies to what, where, when, whom, how..." This section outlines the area, function, group, or personnel to which the SLP applies.}

This SLP applies to [scope].

3.0 Definitions and Acronyms

{This section defines the words, phrases, terms, acronyms, and abbreviations that apply specifically to the SLP. Roles and terms listed in this section shall be alphabetized, with the exception that the "Acronym" subsection appears last in this section.}

Defined roles and terms shall appear in proper case, bold, Arial, 12-point font. Roles and terms that produce acronyms shall appear with those acronyms in section and subsection titles, and the acronym shall then appear throughout the definition.

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For example:

3.x Procurement Request (PR)

A PR is the document initiating the procurement of...

Roles and terms that are common across NASA IV&V processes and procedures are defined in the Quality Manual. Therefore, these common roles and terms need not be defined in each SLP. A disclaimer will be added to direct SLP users to the Quality Manual for common term and role definitions.}

Official NASA IV&V roles and terms are defined in the [Quality Manual](#). Specialized definitions identified in this SLP are defined below.

3.1 [role or term]

[definition]

3.2 Acronyms

{This is a list of acronyms used within the SLP. The “Acronyms” subsection should be the last item in the “Definitions and Acronyms” section. All acronyms shall be defined, excluding “IV&V” and “NASA,” and shall be alphabetized.}

[acronym]	[definition of acronym]
IMS	NASA IV&V Management System
NODIS	NASA Online Directives Information System
NPR	NASA Procedural Requirements
QM	Quality Manual
SLP	System Level Procedure

4.0 Process Flow Diagram

{A process flow diagram is a high-level depiction of the processes described in this SLP. The process flow diagram is to be constructed in the “swim lane” format, and is to graphically represent the responsibilities and actions that shall be performed by process participants. The SLP and process flow diagram are to be written such that the main objectives of the process are captured and the

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“how-to” details are minimized. Please consult the DCC if questions arise concerning the level of detail that should be used in the SLP or process flow diagram.

All SLPs shall contain the following text in this section:}

The following diagram depicts processes described in this document, and the responsibilities and actions that shall be performed by process participants or their designees. Any information supplemental to the depicted process will appear after the diagram.

{If the SLP does not contain a process that can be diagrammed in the “swim lane” format, please consult the DCC for further instructions.

This section can also provide important information supplemental to the process flow diagram that is critical to the execution of the processes described in the SLP. This supplemental information should be presented in paragraph format. Consult the DCC if questions arise concerning the amount or relevance of details proposed for inclusion in the SLP. Additional documents, including supporting documents, may be created to capture additional details not described in the higher-level SLP.}

5.0 Metrics

{This section lists all relevant metrics resulting from the processes described in the SLP. Unless otherwise required, a general statement regarding metrics may be used.

The following general statement shall be used in this section:}

Any metrics associated with this SLP are established and tracked within the NASA IV&V Metrics Program.

6.0 Records

{This section features a table that identifies the products of the SLP, their retention locations and requirements, and the parties responsible for retaining and maintaining them. The table contains the outputs generated by the

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processes in the SLP, and indicates how records will be distributed, controlled, and retained.

If records are associated with the SLP, the following text shall be inserted into this section:

The following records will be generated or updated and filed in accordance with this SLP and IVV 16, Control of Records, and in reference to NPR 1441.1, NASA Records Retention Schedules.}

{If there are no records associated with the SLP, the following text should be inserted into this section:

There are no records associated with this SLP.}

{If records are associated with the SLP, the following table shall be inserted after the abovementioned text:}

Record Name	Original	Vital	Responsible Person	Retention Requirement	Location

{The table contains six fields that must be completed. For an existing record, as many fields as possible should be completed by the author. For a new record, the Record Name and Responsible Person fields must be completed by the author. The Records Team and/or DCC will complete the remaining fields for new records.

- a. Record Name – contains the official name of the record and any associated form number.*
- b. Original – indicates whether the original record has been created and will be maintained at the NASA IV&V Program. Acceptable values are “Y” or “N.” A “Y” signifies that the record is an original copy. An “N” value signifies that the record is a reference copy or “non-record.”*
- c. Vital – indicates whether the record is required to resume normal operating conditions in the event of an emergency. Acceptable values are “Y” or “N.” Program Management determines the vitality of a record.*
- d. Responsible Person – name or title of the person responsible for creating and maintaining the record.*

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- e. *Retention Requirement* – indicates the record’s retention duration according to NASA Procedural Requirements (NPR) 1441.1, NASA Records Retention Schedules. Records that meet their retention requirements will be dispositioned according to NPR 1441.1, which may include: deletion, destruction, or retirement to a Federal Records Center (FRC) or approved facility.
1. *Original* – If the record is an original, this column will contain NPR 1441.1 chapter and item numbers relating to the record’s retention requirement. The Records Team shall determine and assign the record’s NPR 1441.1 chapter and item numbers of the retention requirement.
 2. *Non-record* – If the record is a non-record, the NPR 1441.1 chapter and item number may not be included in this column. The Records Team shall establish retention requirements for non-records in accordance with NPR 1441.1. If applicable, the DCC shall determine and assign the record’s NPR 1441.1 chapter and subsection of the retention requirement.
- f. *Location* – indicates the physical location of the record.}

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{The Version History table contains the version (represented by letters of the alphabet after the initial release, which is represented as the “Basic” release), a description of the document change, the rationale for why the change was made, the Author who implemented the change, and the effective date of the document.}

VERSION HISTORY				
Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		[Author name]	[mm/dd/yyyy]