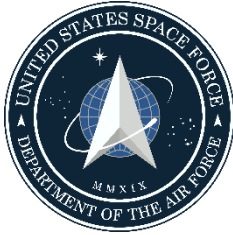


**BY ORDER OF THE COMMANDER
SPACE LAUNCH DELTA 45**

**SPACE LAUNCH DELTA 45
INSTRUCTION 91-701**



**10 JULY 2023
Certified Current on 17 February 2026
Safety**

**LAUNCH SAFETY
SOFTWARE MANAGEMENT**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Space Systems Command Instruction 91-701, *The Space Systems Command Launch and Range Safety Program*. It establishes a uniform process to validate Launch Safety Software (LSS) for operational use and establishes configuration control guidance for hardware and software modifications to the Safety Hazards Analysis and Risk Processing system. It also details how Space Launch Delta 45 Launch Safety (SLD 45/SEL) will interact with Space Launch Delta 45's operational acceptance process, 45th Space Wing Instruction (45SWI) 10-605, *45th Space Wing Eastern Range Acceptance Process*. This instruction applies to SLD 45 Safety (SLD 45/SE) and 1st Range Operations Squadron (1 ROPS) personnel. It is not applicable to Air National Guard or Air Force Reserve. Ensure all records generated as a result of processes prescribed in this publication adhere to Air Force Instruction (AFI) 33-322, Records Management and Information Governance Program, and are disposed in accordance with the Air Force Records Disposition Schedule, which is located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Air Force (AF) Form 847, *Recommendation for Change of Publication*; route AF Form 847 from the field through the appropriate functional chain of command. This publication may be supplemented at any level, but all direct Supplements must be routed to the OPR of this publication for coordination prior to certification and approval. Submit requests for waivers through the chain of command to the approval authority, or alternately, to the Publication OPR.

SUMMARY OF CHANGES

This publication has been revised and must be completely reviewed. Changes include updates to several of the organization references that were either re-designated or have been deactivated.

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1. Objective.

1.1. This instruction provides management guidelines for SLD 45/SEL LSS developed and used to perform safety hazards analysis or risk management computation in support of Eastern Range (ER) missions. It addresses:

- 1.1.1. Requirements definitions and requirements change control.
- 1.1.2. Software development project planning and authorization.
- 1.1.3. Deficiency reporting and prioritization.
- 1.1.4. User evaluation of new or modified LSS.
- 1.1.5. Validation of new or modified LSS.
- 1.1.6. Operational Acceptance Board (OAB) acceptance of the data format generated by LSS for use as input to the Eastern Range Instrumentation System (ERIS).
- 1.1.7. Coordination and approval of associated ERIS interface control documentation (ICD).

2. Applicability.

2.1. This instruction applies to the management of LSS developed by SLD 45/SEL that performs non-real time flight safety hazards analysis or risk management computations in support of ER missions. It establishes essential activities for validating this software as suitable for ER mission support and, when required, operationally accepting its data products for use as input to an ERIS component. All legacy software versions fielded prior to 22 August 2008, do not have to be compliant with this instruction's provisions. All new software, and upgrades or modifications to legacy LSS, shall be compliant with this instruction's provisions.

3. Organizational Responsibilities for the ER LSS Management Process.

3.1. The Chief Engineer, SLD 45 Safety (SLD 45/SED):

- 3.1.1. Chairs and is the approval authority for the Safety Software Validation Board (SSVB).
- 3.1.2. Approves Safety Software Validation Memoranda (SSVM) and LSS requirements documentation.

3.2. The 1 ROPS:

- 3.2.1. Coordinates on Project Management Plans (PMP) for LSS projects that generate data products used as input to a 1 ROPS-managed ERIS component.
- 3.2.2. Coordinates on ICD changes associated with data products used as input to a 1 ROPS-managed ERIS component.

3.3. Space Launch Delta 45 Range Management Office (SLD 45/RM):

- 3.3.1. Coordinates on PMPs for LSS projects that generate data products used as input to a 1 ROPS-managed ERIS component.

4. Safety Software Requirements Management.

4.1. Requirements Definition for New Safety Software Projects. SLD 45 Launch Safety, Flight Analysis (SLD 45/SELF) office or SLD 45 Launch Safety, Risk Analysis (SLD 45/SELR) office will draft initial requirements for the proposed LSS. Requirements may include data input, graphical user interface, processing functionality, output content and output format. The SLD 45/SEL analysts will review and comment on the draft requirements. SLD 45/SEL will review the comments and incorporate applicable comments. SLD 45/SELF or SLD 45/SELR will present the updated requirements lists to the SSVB for approval. If acceptable, the SSVB will approve the requirements by signing the requirements document that captures the information required in [paragraph 4.2. Attachment 2](#) provides a template for a Safety Software Requirement Memorandum (SSRM).

4.2. Requirement Change Process.

4.2.1. Requirement Change Request. Anyone associated with the use or development of LSS can request a requirement change by drafting a requirement document and providing this to the respective SLD 45/SEL 4-letter section chief. The request can be for a new requirement, a modification of an existing requirement or a request to delete an existing requirement.

4.2.2. Requirement Change Assessment. Each SLD 45/SEL 4-letter section chief will assess the technical and programmatic aspects of implementing a requested requirement change associated with LSS within their section and provide this information to SLD 45/SEL. The assessment must include an estimate of cost, schedule impacts and impacts to existing requirements and LSS.

4.2.3. Requirement Change Approval. After assessment, the SLD 45/SEL 4-letter section chief will present to the SSVB a recommendation regarding their requested requirement change. If the SSVB approves the requirement, the SSVB Chair will sign the requirement document.

4.2.4. Requirement Implementation. The Safety Software Project Lead (SSPL) will be responsible for maintaining the Verification Correlation Requirements Matrix (VCRM) to reflect requirement changes in approved requirement documents. [Attachment 3](#) provides a template for a VCRM. The SSPL will also enter a Deficiency Report (DR) associated with the approved requirement change in a DR database. The SSPL must have the deficiency resolved by a software modification or by developing a suitable workaround.

5. Safety Software Development Planning and Authorization.

5.1. Project Management Plan. If funding and manpower are available for a new SLD 45/SE software project outside of an existing contract, or the new SLD 45/SE software project will affect an external ICD, SLD 45/SED will initiate a software development project to meet validated LSS requirements. SLD 45/SED will task SLD 45/SEL to draft a PMP. At a minimum, the PMP will address:

5.1.1. Scope of work.

5.1.2. Software functionality.

5.1.3. Software products.

- 5.1.4. Software development process.
- 5.1.5. Software interfaces.
- 5.1.6. Software version control.
- 5.1.7. Test.
- 5.1.8. Verification and validation.
- 5.1.9. Administration and maintenance.
- 5.1.10. Documentation and training.
- 5.1.11. Hardware requirements.
- 5.1.12. System security.
- 5.1.13. Schedule.

5.2. The PMP will require 1 ROPS and SMC/ECPLP coordination if the new or modified software procedures data that will be used as input to an ERIS component managed by 1 ROPS. SLD 45/SED will approve the PMP after it receives appropriate coordination.

5.3. Project Authorization. SLD 45/SEL will present an executive summary of the PMP to the SSVB and submit a Safety Software Project Authorization Memorandum requesting authorization to initiate a software development/verification project. **Attachment 4** provides a template for a project authorization memorandum. If warranted, the SSCB Chair will sign the memorandum to authorize the software development project and SLD 45/SEL will start a dialog with the contracting office to determine required contract actions.

5.4. Project Execution. IAW the approved PMP, LSS development projects will be executed.

6. Safety Software Deficiency Review Board (SSDRB) Responsibilities.

6.1. The SSDRB is responsible for prioritizing and tracking corrective action status of DRs for new LSS under development or existing LSS being modified under sustainment. Recommended SSDRB membership:

- 6.1.1. The responsible SLD 45/SEL 4-letter section chief or delegate (Chair).
- 6.1.2. Software Project Lead if DRs are associated with a LSS development project.
- 6.1.3. Additional representatives from the responsible SLD 45/SEL 4-letter section.
- 6.1.4. A secretariat appointed by SLD 45/SEL.
- 6.1.5. The SLD 45/SE Information System Security (ISSM) or delegate.
- 6.1.6. DR author(s) or delegate(s).

6.2. The SSDRB Chair will evaluate all DRs and assign them initial priority categories. The board will then convene to establish and maintain a DR priority list for DR resolution. The SSDRB Chair will have responsibility for maintaining the DR database and will call another board to convene when he/she feels reprioritization is required. The SLD 45/SEL analyst will have the responsibility for updating a DR database which includes changing the DR status from "New" to a DRB verified status such as "Assigned".

7. Safety Software User Evaluation Report (SSUER).

7.1. User Evaluation Objectives. The overall evaluation objective is to obtain enough information for the Safety Software User Evaluation Team (SSUET) to make a technically sound Unit Under Test (UUT) validation recommendation to the SSVB based on the UUTs' ability to meet user requirements.

7.2. User Evaluation Execution. Testing will demonstrate how the UUT is properly used and determine if user requirements are either met or not met. At a minimum, the user evaluation shall be performed IAW a Safety Software User Evaluation Plan (SSUEP) which must include a VCRM. For each requirement, the VCRM will list test methods, associated test steps that are in the SSUEP, test pass/fail criteria and pass/fail results. [Attachment 3](#) provides a template for a VCRM, and [Attachment 5](#) provides a template for the SSUEP. DRs must be generated and entered into a DR database for unfulfilled requirements. User evaluation results will be documented in an SSUER. If the new LSS is to replace existing software, the user evaluation should include comparisons between the new and legacy results with differences explained in the SSUER. [Attachment 6](#) provides a template for a SSUER.

7.3. Safety Software User Evaluation Team (SSUET).

7.3.1. SSUET Composition. For a task that will develop/modify LSS, the SSUET should be formed after the SSVB approves the requirements documentation. SSUET members will be composed of SLD 45/SEL personnel and, if needed, Safety support personnel who are not part of the development team. The responsible SLD 45/SEL 4-letter section chief will approve the team lead and supporting members.

7.3.2. SSUET Lead Responsibilities:

7.3.2.1. Draft the SSUEP.

7.3.2.2. Execute testing IAW the SSUEP.

7.3.2.3. Draft the SSUER which will include a UUT validation recommendation and any use constraints.

7.3.2.4. Brief the user evaluation results to the SSVB.

7.3.2.5. Brief the Independent Verification and Validation (IV&V) results, if accomplished, to the SSVB.

7.3.3. SSUET Member Responsibilities. The SSUET will ensure the UUT can perform the full range of functionality to ingest data and produce desired outputs needed for ER mission support. SSUET members have the following responsibilities:

7.3.3.1. Support requirement definitions.

7.3.3.2. Participate in technical interchange meetings.

7.3.3.3. Provide results of user evaluations to the Contracting Officer Representative (COR) based on how the UUT met or failed to meet contractual requirements.

7.3.3.4. Assist the SSUET lead in drafting the SSUEP and SSUER.

7.3.3.5. If an IV&V is pursued, provide the following to the IV&V contractor:

7.3.3.5.1. Approval of the IV&V test plan as developed by the IV&V contractor.

7.3.3.5.2. All code relevant to the IV&V (source/executable).

7.3.3.5.3. All documentation and test cases relevant to the IV&IV & VV.

8. Safety Software Validation Board (SSVB).

8.1. SSVB Responsibilities. The SSVB approves software requirements, authorizes software development or modification and validates new or updated LSS that is used to support ER missions. The SSVB also coordinates on updates to ICDs that define an interface between LSS data products and an ERIS component that is managed by 1 ROPS. Such ICDs require SLD 45/SED and 1 ROPS coordination and SLD 45/RM approval.

8.2. SSVB Members. SLD 45/SED will chair the SSVB. Other required SSVB members include the responsible SLD 45/SEL 4-letter section chief, a secretariat appointed by SLD 45/SEL and the SLD 45/SE ISSM or delegate. The ISSM position is required per Risk Management Framework (control #CM-3(4)). For LSS that produces input data for an ERIS component managed by 1 ROPS, the secretariat will invite 1 ROPS and SLD 45/RM to provide an advisor from their respective offices. Their attendance will be optional.

8.3. Requirements Change Control. IAW Section 4.0, the SSVB will approve the addition, deletion or modification of requirements.

8.4. Software Development Project Authorization. IAW Section 5.0, the SSVB will authorize software development projects.

8.5. Software Validation.

8.5.1. Independent Verification and Validation (IV&V). If the LSS is currently in use, then an IV&V is not required unless SLD 45/SEL determines that an update changes critical aspects of the software. If an IV&V is required, then the LSS may not be used as the sole basis for the independent assessment and the software may not be used for an operational assessment until the evaluation is complete and is accepted by the SSVB.

8.5.2. SSVB Scheduling. Prior to scheduling an SSVB, the responsible SLD 45/SEL 4-letter section chief will coordinate with the secretariat to ensure all documents listed below have been generated and are available for SSVB member coordination at least 5 working days prior to convening the board. Once the secretariat has confirmed all of the required documentation is available, the board will convene as scheduled by the secretariat. Prerequisites for the board to convene are:

8.5.2.1. User requirements documented on an approved requirements document have been approved by the SSVB.

8.5.2.2. VCRM approved by the SSUET Lead certifying all SSRM requirements have been tested.

8.5.2.3. Pass/fail determinations have been made for all requirements in the VCRM.

8.5.2.4. SSUEP approved by applicable SLD 45/SEL 4-letter section chief certifying that SSUET review is complete, and all comments have been addressed.

8.5.2.5. SSUER approved by 4-letter section chief.

8.5.2.5.1. User evaluation conducted IAW SSUEP/VCRM.

8.5.2.5.2. All category 1 DRs have been resolved.

8.5.2.6. Draft SSVM that includes:

8.5.2.6.1. Any acceptance use constraints.

8.5.2.6.2. Acceptance recommendation that are consistent with those in the SSUER.

8.5.2.6.3. If accomplished, IV&V summary/results.

8.5.3. SSVB Execution. The SSUET lead will brief the board on the evaluation criteria and present evidence that the UUT has passed these criteria favorably. The SSVB will evaluate the UUTs' demonstrated performance and decide if user requirements have been met, if documentation is complete and adequate, and if version control is present and effective. If these criteria are met, the SSVB Chair will sign the SSVM. [Attachment 7](#) provides a template for an SSVM. The SSVM authorizes SLD 45/SEL to use the validation software for ER mission support. It also authorizes the secretariat and 1 ROPS to prepare an Operational Acceptance Memorandum package if the LSS data product interfaces with an ERIS component that is managed by 1 ROPS. Operational acceptance of such software will be done IAW 45th Space Wing Instruction (45SWI) 10-605, *45th Space Wing Eastern Range Acceptance Process*. If the board decides that requirements have not been adequately met, the secretariat will document the board findings and the SSVB will task the responsible SLD 45/SEL 4-letter section chief to perform corrective action(s).

9. Safety Software Version Control.

9.1. The SLD 45/SEL-developed software tools and models can only be used to support an ER mission if the SSVB validated them and, if required, have been operationally accepted by 1 ROPS IAW 45SWI 10-605. A signed SSVM authorizes SLD 45/SEL to have the validated software placed under a version control process. The version control process ensures that SLD 45/SEL analysts will use the latest approved software version.

10. ERIS ICD Coordination and Approval.

10.1. New or modified LSS, which will cause an interface change with 1 ROPS-managed ERIS component, will require an ICD update. If the 1 ROPS-managed ERIS component is an operational system, LSS data products will be designed to retain the same format and content as that of the current legacy program system-generated data. Such ICD updates require SLD 45/SED and 1 ROPS coordination prior to SLD 45/RM approval. ICD coordination and approval is depicted in [Attachment 8](#). A web-based tool, such as the SLD 45/RM maintained Visual RV, will be used to manage the timeline and process for ICD update activities.

11. Operations Security (OPSEC).

11.1. All operational processes and software used in support of the SLD 45 and ER operations are critical to mission success. OPSEC processes and policies provide a methodology to mitigate, through the use of traditional security disciplines, potential compromise or loss of mission due to an adversary's actions. These actions could result in damage to national assets, corruption of operational software, loss of mission, and in the extreme case, loss of life. These outcomes are dependent on the threat and subsequent risk. LSS management will comply with AFI 10-701, *Operations Security (OPSEC)* and local OPSEC procedures to mitigate operational risks.

STEPHEN G. PURDY, JR.
Major General, USSF
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

45SWI 10-605, 45th Space Wing *Eastern Range Acceptance Process*, 21 October 2019

AFI 10-701, *Operations Security (OPSEC)*, 24 July 2019

AFI 33-322, *Records Management and Information Governance Program*, 28 July 2021

SSCI 91-701, *The Space Systems Command Launch and Range Safety Program*, 27 December 2022

Technical Order 00-35D-54, *USAF Deficiency Reporting and Investigation System*, 1 September 2015

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

Acronyms and Abbreviations

1 ROPS—1st Range Operations Squadron

ATO—Authority to Operate

DR—Deficiency Report

ER—Eastern Range

ERIS—Eastern Range Instrumentation System

ICD—Interface Control Document

IV&V—Independent Verification and Validation

LSS—Launch Safety Software

OAB—Operational Acceptance Board

PMP—Project Management Plan

SLD 45—Space Launch Delta 45

SLD 45/SE—Space Launch Delta 45 Safety

SLD 45/SED—Space Launch Delta 45 Safety, Chief Engineer

SLD 45/SEL—Space Launch Delta 45 Launch Safety

SLD 45/SELF—Space Launch Delta 45 Launch Safety Flight Analysis

SLD 45/SELR—Space Launch Delta 45 Launch Safety Risk Analysis

SLD 45/RM—Space Launch Delta 45 Range Management

SSDRB—Safety Software Deficiency Review Board

SSRM—Safety Software Requirements Memorandum

SSUEP—Safety Software User Evaluation Plan
SSUER—Safety Software User Evaluation Report
SSUET—Safety Software User Evaluation Team
SSVB—Safety Software Validation Board
SSVM—Safety Software Validation Memorandum
UUT—Unit Under Test
VCRM—Verification Correlation Requirements Matrix

Terms

1st Range Operations Squadron (1 ROPS) Operational Acceptance Board (OAB)—A board chaired by 1 ROPS that accepts components and external data sources for the Eastern Range Instrumentation System.

Authority to Operate—An ATO is a formal declaration by a Designated Approving Authority that authorizes operation of an automated information system and explicitly accepts the risk to agency operations. The ATO is signed by the Authorization Official after a Security Controls Assessor concurs that the system has met and passed all requirements to become operational.

Deficiency—A deficiency is a shortcoming of Launch Safety Software (LSS) or hardware which precludes it from meeting an approved requirement.

Deficiency Report—DRs document LSS deficiencies. DRs will be generated and tracked using a database that has been approved by the Chief Engineer, Space Launch Delta 45 Safety (SLD 45/SED).

DR Categories—A management tool used to categorize DRs with respect to mission support impacts. The LSS DR categories will be compliant with Technical Order 00-35D-54, *USAF Deficiency Reporting and Investigation System*.

Flight Safety Hazards Analysis—Analysis performed to protect the public and workforce from potential blast, debris and toxic hazards associated with rockets, unmanned aerial vehicles, balloons and laser operations.

Launch Safety Software—Within this instruction LSS will be used to denote software tools and models developed by SLD 45 Launch Safety (SLD 45/SEL) to perform Flight Safety Hazards Analysis and Risk Management computations.

Risk Management—Risk management is a process of measuring or assessing risk and then developing strategies to mitigate the risk or reduce it to acceptable levels.

Safety Software Deficiency Review Board—A formal board chaired by the applicable SLD 45/SEL 4-letter section chief that categorizes the severity of LSS DRs and prioritizes corrective actions for them.

Safety Software Requirements Memorandum—An SLD 45/SED approved memorandum; the SSRM documents requirements for a proposed LSS tool or model. Requirements will address data input, graphical user interface, processing functionality, output content and output format.

Safety Software User Evaluation Plan—The SSUEP is approved by applicable SLD 45/SEL 4-letter section chief. The SSUEP will provide background information on why the Unit Under Test (UUT) is needed, how it was developed, test objectives and a test schedule.

Safety Software User Evaluation Report—A report that summarizes the test results of the SSUEP. The report should include a validation recommendation and include any use constraints.

Safety Software User Evaluation Team—A team that performs user tests on LSS and, if warranted, recommends it be validated by the SSVB.

Safety Software Validation Board—A formal board chaired by SLD 45/SED that approves LSS requirements, authorizes LSS development or modification, and validates that new or modified LSS can be used by SLD 45/SEL for ER mission support.

Safety Software Validation Memorandum—An SLD 45/SED approved, formal report that provides UUT user evaluation results. It will include legacy comparisons if available, a deficiency report summary, use constraints and associated impacts on mission support, recommended system improvement and if warranted, a recommendation for the SSVB to validate the UUT for operational use.

Unit Under Test—New/modified LSS being evaluated by a SSUET.

Verification Correlation Requirements Matrix—A matrix that correlates test method(s), test steps, pass/fail criteria and state of compliance for each requirement. A VCRM provides an easy way to ensure all user requirements are tested and documents requirement validation results. The SSUET lead approves the VCRM. A VCRM is a mandatory component for all LSS user evaluations.

Attachment 2

SAFETY SOFTWARE REQUIREMENT MEMORANDUM (SSRM)

Figure A2.1. SAFETY SOFTWARE REQUIREMENT MEMORANDUM.

<p>SSVB Date:</p> <p>Safety Software Program:</p> <p>Proposed New Requirement, Change or Deletion:</p> <p>Impacts to ICD, Authority to Operate (ATO) or architecture: Justification:</p> <p>Impact if not Implemented: Requirement Number(s): Documents Effected: Prepared by:</p> <p>Approved by/Disapproved by (circle one): SSVB Chair:</p> <p>Coordinated with:</p> <p>Comments:</p> <p><i>NOTE: Tailored version allowed if approved by SLD 45/SED</i></p>
--

Attachment 3

VERIFICATION CORRELATION REQUIREMENTS MATRIX (VCRM)

A3.1. The VCRM is a multipurpose document. It will be the file of record for requirements definitions, test methods for requirement verifications, test procedures (steps) to test for requirement compliance (can be hyperlinked), pass/fail criteria for requirement compliance and successful requirement compliance. NOTE: This shows VCRM format. The actual form will be in landscape layout.

Table A3.1. VCRM Format.

Number	Requirement	Test Method(s)	Test Steps	Pass/Fail Criteria	Pass Yes/No

Requirement number will contain product, component and revision identifiers.

Deleted requirements will be lined through.

Test method will be:

T — Test.

D — Demonstration.

A — Analysis.

I — Inspection.

by SSUET lead:

Note: Tailored version allowed if approved by SLD 45/SED

Attachment 4

SAFETY SOFTWARE PROJECT AUTHORIZATION MEMORANDUM

Figure A4.1. Safety Software Project Authorization Memorandum.

SSVB Date:

Software Development Project Description: Associated Requirement Number(s):

New Software Produced or Software Modified: Funding Source:

Contract Vehicle if Applicable: Required PMP Changes:

Impacts to ICD, ATO, or architecture:

Authorization to Proceed Granted by: SLD 45/SED (Chair)

Coordinated with:

1 ROPS (required if data is generated for ERIS that is managed by 1 ROPS): SLD 45/RM

(required if an ERIS ICD is impacted or required):

Note: Tailored version allowed if approved by SLD 45/SED

Attachment 5**SAFETY SOFTWARE USER EVALUATION PLAN (SSUEP) TEMPLATE****Figure A5.1. SSUEP Template.**

Title Page - presents software model/sub-function tested, identifies document as the test plan, identifies the author and gives date of report.

Section 1 - **Introduction**: describes functionality of the UUT and test objectives. Operating System Version:

Standard Desktop Configuration Version:

Section 2 - **Test Overview**: describes test approach which should include test methods, input data and expected results for successful tests. This section also describes the content in the rest of the test plan/procedure.

Section 3 - **Assumptions**: lists assumptions made in the collection of data, test setup and tester's subject matter knowledge.

Section 4 - **Test Plan Outline**:

Describes how to setup/configure the UUT. Specifies input data.

Lists or references test steps.

Tells how output data and test logs will be collected/documented. Describes analysis of output.

Signature Blocks:

SSUET Member Coordination/Comments (required for each team member).

SLD 45/SEL 4-letter Section Chief Approval.

Attachment 6**SAFETY SOFTWARE USER EVALUATION REPORT (SSUER) TEMPLATE****Figure A6.1. SSUER Template.**

Title Page: presents software model/sub-function tested, identifies document as a user evaluation report, identifies the author and gives date of report.

Section 1 - **Introduction**: describes functionality of the UUT and test objectives. Operating System Version:

Standard Desktop Configuration Version:

Section 2 - **Evaluation Summary**: provides overall test approach, gives a synopsis of open and closed deficiency reports, discusses UUT use constraints if any, and provides top-level summary of test results.

Section 3 - **Safety Software Validation Recommendation**: provides the SSUET's recommendation for SSVB validation of the UUT. If the team recommends partial validation, the use constraints and additional testing must be described. This section should contain the same wording as the validation recommendation in the respective SSVM.

Section 4 - **Test Conduct**: State that the user evaluation was conducted IAW the user evaluation plan and embed the evaluation plan in this section. A template for the evaluation plan is provided in Attachment 5.

Section 5 - **Findings**: State that the test results are captured in the evaluation plan and embed the evaluation plan in this section.

Signature Blocks:

ROPS Coordination (if required).

SLD 45/RM Coordination (if required).

SSUET Member Coordination/Comments (required for each team member).

SLD 45/SEL 4-Letter Section Chief Approval.

Attachment 7**SAFETY SOFTWARE VALIDATION MEMORANDUM (SSVM)****Figure A7.1. SAFETY SOFTWARE VALIDATION MEMORANDUM.**

SSVB Date:

Unit Under Test:

Operating System:

Standard Desktop Configuration: User Evaluation Report Summary: Use Constraint(s):

Validation Recommendation: Prepared by:

Approved by: SLD 45/SED

Coordinated with:

Note: Tailored version allowed if approved by SLD 45/SED

Attachment 8

SAFETY SOFTWARE/EASTERN RANGE INSTRUMENTATION SYSTEM (ERIS)
INTERFACE CONTROL DOCUMENT (ICD) APPROVAL

Figure A8.1. Safety Software/ERIS ICD Approval.

