



DEPARTMENT OF THE NAVY
COMMANDER OPERATIONAL TEST AND EVALUATION FORCE
7970 DIVEN STREET
NORFOLK, VIRGINIA 23505-1498

COMOPTEVFORINST 5000.1B
Code 01C
1 Apr 11

COMOPTEVFOR INSTRUCTION 5000.1B

Subj: USE OF MODELING AND SIMULATION IN OPERATIONAL TEST

- Ref:
- (a) SECNAVINST 5000.2D, Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System
 - (b) SECNAVINST 5200.40, Verification, Validation, and Accreditation (VV&A) of Models and Simulations
 - (c) Military Standard 3022, Documentation of Verification, Validation, and Accreditation (VV&A) for Models and Simulations
 - (d) DoDI 5000.61, Department of Defense (DoD) Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)
 - (e) Department of Navy (DON) Modeling and Simulation Verification, Validation and Accreditation Implementation Handbook, Volume 1, VV&A Framework
 - (f) OPNAVINST 3960.15A, Validation of Navy Threat Simulators, Targets, and Digital Threat Models and Simulations
 - (g) COMOPTEVFORINST 3980 (series), Operational Test Director's Manual

- Encl:
- (1) Acronyms and Abbreviations
 - (2) M&S Documentation Examples and Templates

1. Purpose. This instruction provides policy and process for the use of M&S in Operational Testing (OT) per references (a) through (f) and supplements reference (g).

2. Cancellation. COMOPTEVFORINST 5000.1A.

3. Background. Reference (a) states that M&S may be used during Test and Evaluation (T&E) to represent conceptual systems that do not exist and existing systems that cannot be subjected to actual environments because of safety requirements or the limitations of resources and facilities. M&S applications include hardware/software/operator-in-the-loop simulators, land-based test facilities, threat system simulators (including threat surrogates), Command, Control, Communications, Computer,

and Intelligence (C4I) systems integration environments and facilities, and other simulations as needed. M&S cannot replace live OT of the System Under Test (SUT), but it can provide supplementary data to evaluate SUT performance or substitute for unavailable System of System (SoS) test assets or threat systems.

a. Accreditation. Reference (b) states that Commander, Operational Test and Evaluation Force (COMOPTEVFOR) will accredit all models and simulations used to supplement OT. This accreditation is documented by an accreditation letter that defines the uses and limitations of the M&S in support of a specific phase of test for a particular SUT. The accreditation letter is supported by an accreditation report, which is the culmination of several core VV&A documents as outlined in table 1. Table 1 outlines core documents and also illustrates the common or duplicative sections (in italics) that increase efficiency and reduce the overall effort of the VV&A documentation. The accreditation report must describe the rationale and data that support the specified use of the M&S for OT. Any subsequent use of this M&S to support OT for a different SUT or different test phase will require a separate accreditation report and accreditation letter.

Table 1. Outlines of the Four Core VV&A Documents

Accreditation Plan	V&V Plan	V&V Report	Accreditation Report
Executive Summary	Executive Summary	Executive Summary	Executive Summary
1. <i>Problem Statement</i>	1. <i>Problem Statement</i>	1. <i>Problem Statement</i>	1. <i>Problem Statement</i>
2. <i>M&S Requirements and Acceptability Criteria</i>			
3. <i>M&S Assumptions, Capabilities, Limitations, and Risks/Impacts</i>			
4. Accreditation Methodology	4. V&V Methodology	4. V&V Task Analysis	4. Accreditation Assessment
5. Accreditation Issues	5. V&V Issues	5. V&V Recommendations	5. Accreditation Recommendations
6. <i>Key Participants</i>	6. <i>Key Participants</i>	6. <i>Key Participants</i>	6. <i>Key Participants</i>
7. Planned Accreditation Resources	7. Planned V&V Resources	7. Actual V&V Expenses	7. Actual Accreditation Resource Expended
		8. V&V Lessons Learned	8. Accreditation Lessons Learned
<u>Suggested Appendices</u> A <i>M&S Description</i> B <i>M&S Requirements Traceability Matrix</i>	<u>Suggested Appendices</u> A <i>M&S Description</i> B <i>M&S Requirements Traceability Matrix</i>	<u>Suggested Appendices</u> A <i>M&S Description</i> B <i>M&S Requirements Traceability Matrix</i>	<u>Suggested Appendices</u> A <i>M&S Description</i> B <i>M&S Requirements Traceability Matrix</i>

Table 1. Outlines of the Four Core VV&A Documents			
Accreditation Plan	V&V Plan	V&V Report	Accreditation Report
<i>C Basis of Comparison</i> <i>D References</i> <i>E Acronyms</i> <i>F Glossary</i> <i>G Accreditation Programmatic</i> <i>H Distribution List</i>	<i>C Basis of Comparison</i> <i>D References</i> <i>E Acronyms</i> <i>F Glossary</i> <i>G V&V Programmatic</i> <i>H Distribution List</i> <i>I Accreditation Plan</i>	<i>C Basis of Comparison</i> <i>D References</i> <i>E Acronyms</i> <i>F Glossary</i> <i>G V&V Programmatic</i> <i>H Distribution List</i> <i>I V&V Plan</i> <i>J Test Information</i>	<i>C Basis of Comparison</i> <i>D References</i> <i>E Acronyms</i> <i>F Glossary</i> <i>G Accreditation Programmatic</i> <i>H Distribution List</i>
(Italicized) is information that should be shared across the core M&S documentation for consistency and efficiency. This table was derived from reference (c).			
V&V - Verification and Validation			

b. V&V. Reference (a) states that the SUT program office will fund the development of new M&S or support the use of existing M&S. The program office is responsible for testing the M&S for use with the SUT and providing a V&V report that provides detailed data and recommendations to support an accreditation report and accreditation letter.

(1) Verification is the process of determining that a model's implementation and its associated data accurately represent the developer's conceptual description and specifications.

(2) Validation is the process of determining the degree to which a model and its associated data are an accurate representation of the real world from the perspective of the intended uses of the model.

4. Policy

a. Use of M&S will be identified in acquisition strategies, T&E Strategies (TES), Technical Development Strategies (TDS), Integrated Evaluation Frameworks (IEF), Test and Evaluation Master Plans (TEMP), and test plans. Accreditation requirements and resources for M&S are developed during mission-based test design and documented in the IEF, and in Part III and Part IV of the TEMP respectively for each phase of OT it is intended to support. This will include the name(s) of the simulation(s) to be accredited and the intended use during each OT phase.

b. COMOPTEVFOR, working with the program office, will establish accreditation criteria and approve an accreditation plan.

c. COMOPTEVFOR must approve M&S accreditation prior to approving the test plan it supports, unless otherwise specified. COMOPTEVFOR's approval is required whenever M&S is used to support OT.

d. COMOPTEVFOR reserves the right to revoke an accreditation if modifications to the M&S are judged to alter the operational representation. In such cases, additional V&V will be required to accredit the M&S for use during OT.

e. M&S not accredited by COMOPTEVFOR cannot be used to supplement OT data.

f. For multiservice OT, M&S will be conducted per the Lead Operational Test Agency's (OTA) guidelines and policies. M&S will be a collaborative effort of all OTAs involved. See paragraph 9 below.

5. VV&A Roles and Responsibilities by Process Tasks

a. VV&A Role Definitions. Per references (d) and (e), Navy M&S VV&A roles are defined as follows:

(1) Accreditation Agent: The individual, group, or organization designated by the accreditation authority to conduct an accreditation assessment for an M&S. For use of M&S during OT, the accreditation agent is the cognizant B-code.

(2) Accreditation Authority (AA): The organization or individual who approves the use of an M&S for a particular application. The AA represents the M&S user's interests. The AA is a government entity. COMOPTEVFOR is the AA for use of M&S during OT.

(3) M&S Developer: The individual, group, or organization responsible for developing or modifying a simulation per a set of design requirements and specifications.

(4) M&S Proponent: The organization that has primary responsibility for M&S planning and management that includes development, V&V, configuration management, maintenance, use of an M&S, and others as appropriate.

(5) M&S User: The individual, group, or organization that uses the results or products from a specific application of an M&S. The M&S user is a government entity.

(6) Subject Matter Expert (SME): An individual who, by virtue of education, training, or experience, has expertise in a particular technical or operational discipline, system, or process.

(7) V&V Agent: The individual, group, or organization designated by the M&S proponent to verify and validate an M&S.

b. Roles and Responsibilities by Process Task. Table 2 identifies seven key VV&A roles and their responsibilities as a function of the VV&A process tasks.

Task	M&S User	AA	Accred. Agent	M&S Proponent	V&V Agent	M&S Developer	SME
Define M&S Requirements	Approve/ Assist	Monitor/ Review	Lead	Review	Assist	Assist	Assist
Acceptability Criteria	Assist	Approve	Lead	Review	Assist	Assist	Assist
Accreditation Plan	Review	Approve	Lead	Monitor	Review	Review	Assist
V&V Plan	Review	Monitor	Review	Approve	Lead	Review	Assist
V&V Implementation	Review	Monitor	Monitor	Approve	Lead	Assist	Assist
V&V Data	Review	Monitor	Monitor	Approve	Lead	Assist	Assist
V&V Report	Review	Monitor	Monitor	Approve	Perform		Assist
Accreditation Package				Approve	Perform	Assist	
Accreditation Assessment	Review	Monitor	Lead				Assist
Accreditation Report	Review	Approve	Perform				Assist
Accreditation Decision	Review	Perform	Assist				
VV&A Archive & M&S Catalogue	Review		Perform	Perform			
Accredit for Reuse	Review	Approve	Lead	Assist	Assist	Assist	Assist

6. COMOPTEVFOR VV&A Process

a. Determine the M&S Requirements for the SUT. As early as possible within the development process, the Program Manager (PM) and responsible Operational Test and Evaluation Force (OPTEVFOR) staff should cooperatively determine the sufficiency of assets and resources for test. During the test design portion of IEF development, data requirements for the Operational Test and Evaluation (OT&E) will be derived (see reference (g)). As these requirements are compared against the

test methods to be used to complete each vignette, the data requirements that cannot be met in the operational environment will be identified. Time and cost savings resulting from supplementing required OT data with M&S should also be considered. At this point, an analysis of the M&S capabilities available must be conducted to determine which data requirement might be met using M&S. Those data requirements will be used to develop acceptability criteria. Proper identification of M&S requirements and close coordination with the program office are essential to the development of valid M&S that can be accredited for OT.

b. Ensure the M&S portion of OT is Described in Part III and the M&S Resource Requirements are Documented in Part IV of the TEMP. Part III should describe the model(s)/simulation(s) to be accredited, the planned accreditation effort, and the intended use for each OT phase. Funding for all the OT M&S efforts should be accounted for in Part IV of the TEMP. The program office is responsible for M&S identification, planning, and funding throughout the acquisition life cycle. This includes both the larger effort of the development and V&V for use in all aspects of the program, and the effort to VV&A the M&S for its intended use during OT. It is the funding for the latter that the Operational Test Coordinator (OTC)/OTD must ensure is accurately captured and included in Part IV of the TEMP. The government contractor or government agency involved in the larger effort to develop and to verify and validate the M&S can provide support to the OTC/OTD in the form of an M&S analyst and/or as an M&S accreditation support (or V&V) agent. Funding levels should be commensurate with the M&S complexity and support required.

c. Submit the M&S Operational Requirements Input Letter. The operational requirements input letter is the method for providing early input from the operational tester's perspective on the expected M&S requirements for the SUT. This letter describes those SUT attributes, and their associated performance criteria, which have been identified during the IEF development process. The input letter should identify those attributes of OT to be addressed with M&S, and should be used by the accreditation agent as the basis for accreditation planning. This letter shall be signed by the responsible warfare division director. See enclosure (2), sample 1 for an example of the M&S operational requirements input letter.

d. Develop the Acceptability Criteria and Document in an Accreditation Plan. The accreditation plan is developed by the

accreditation agent and approved by COMOPTEVFOR. The acceptability criteria start with the M&S data requirements and performance criteria identified during the IEF development process. The performance criteria identify the data required to be modeled to assess the SUT performance. The acceptability criteria are the accuracy of the M&S data output that would support accrediting the model. For example, if the model data output is target return strength in decibels, the performance criteria would be target return strength in decibels and the acceptability criteria might be actual target return strength plus or minus 2 decibels. Acceptability criteria are developed using system technical and modeling expertise working with the OTD, and are best developed using an Integrated Process Team (IPT) approach. The M&S accreditation plan is used to document the acceptability criteria and communicate these criteria to the program office. This information is used to scope the M&S tasks to provide validation data to support the OT-related portions of the M&S. The accreditation plan focuses on defining the M&S intended use, requirements and acceptability criteria with associated measures, assumptions and limitations, as well as resources needed to perform the accreditation assessment. Appendix A of reference (c) provides the recommended format for an accreditation plan.

e. Review the V&V Plan. The V&V plan is executed by the M&S proponent, normally the program office, and it should be reviewed by the accreditation agent and O1C during development. The V&V plan defines the methodology for the V&V effort to the application and the acceptability criteria, the V&V tasks that will produce information to support the accreditation assessment, the resources needed to perform the V&V, and identifies issues associated with performing the V&V.

f. Review the V&V Report for Resolution of all the Accreditation Acceptability Criteria. The V&V report is approved by the M&S proponent, normally the program office. V&V reports are the foundation for M&S accreditation and must be used to develop the accreditation report. The V&V report focuses on documenting the results of the V&V task analysis and recommendations and includes any M&S assumptions, capabilities, limitations, risks, and impacts on accuracy and usability. The report also identifies unresolved issues associated with V&V implementation and documents lessons learned during V&V.

g. Generate the Accreditation Report. The accreditation report focuses on documenting the results of the accreditation assessment, the recommendations in support of the accreditation

decision, and lessons learned during accreditation. Appendix D of reference (c) provides a suggested format for the accreditation report. M&S will be accredited to the following specific levels:

- Level 1 Adequate and credible for intended uses
- Level 2 Usable with identified limitations and assumptions.

h. Generate the M&S Accreditation Decision Letter. M&S accreditation decision letter is issued by COMOPTEVFOR and is included with the M&S accreditation report. See enclosure (2), sample 2 for an example of the OT M&S accreditation decision letter.

i. Obtain COMOPTEVFOR Approval of the M&S Accreditation Decision Letter. The responsible warfare division must brief the results of the M&S accreditation report and make a recommendation for the accreditation level, and obtain COMOPTEVFOR approval.

7. Responsibilities. The following responsibilities are assigned:

a. COMOPTEVFOR

(1) Provide policy and guidance for the application of M&S in OT.

(2) Approve M&S accreditation plan.

(3) Accredite M&S for use during OT.

b. Warfare Division Directors

(1) Issue M&S operational requirements input letter to PM.

c. OTC

(1) Assess whether appropriate program resources have been allocated and applied to M&S application development, management, and use to mitigate the risk of using M&S data in the OT program.

(2) Make recommendations to the warfare division director on the program viability of M&S applications for use in OT.

d. OTD

(1) Manage the use of M&S as a test asset for the conduct of OT.

(2) Make recommendations to the warfare division director on the appropriateness of M&S applications to support the resolution and assessment of COI(s) in OT.

(3) Ensure that the COMOPTEVFOR M&S operational requirements input letter is provided to the PM in a timely manner (see enclosure (2), sample 1 - Sample M&S Operational Requirements Letter).

(4) Attend, or designate an accreditation agent or analyst to participate in VV&A IPTs.

e. 01C M&S Support

(1) Manage the use of M&S applications to support OT across the command.

(2) Provide direct support to the warfare division directors, OTC, and OTD in executing the policy, responsibilities, and processes relating to the use of M&S in OT.

(3) Review M&S program data requested from the PM for rigor and relevance to the application's intended use within OPTEVFOR.

(4) Make recommendations to the warfare division directors on the technical soundness of M&S applications with respect to programmatics and appropriateness for use to support OT.

(5) Maintain the corporate knowledge on the use of M&S to support OT and apply that knowledge to provide best practices for improving the M&S policies and processes at OPTEVFOR.

f. PM

(1) Per reference (a), identify and fund required M&S resources for use during T&E.

(2) Responsible for V&V of M&S used to support program T&E. This V&V effort is required to be completed prior to any

accreditation decision regarding the use of the M&S for OT purposes per reference (a).

8. Target Threat Validation Report (TTVR). When using M&S to represent targets or threats for Navy OT, the validation report (TTVR) must be approved by Director, Operational Test and Evaluation (DOT&E). To ensure test adequacy, OT should only incorporate validated, accredited threat representations unless coordinated with DOT&E. Reference (f) assigns responsibility for validation of Navy threat simulators, targets, and digital threat models and simulations as outlined below:

a. DOT&E. Reference (f) assigns the DOT&E, oversight of threat target, threat simulator, and threat simulation validation to meet developmental, operational, and live fire T&E needs. DOT&E approval of a validation report confirms that an adequate comparison of the simulation to the threat has been completed.

b. Commander, Naval Air Systems Command (COMNAVAIRSYSCOM) Navy Threat/Simulation Validation Office

(1) Serve as the Chief of Naval Operations' (CNO) technical agent for validation oversight of the Navy's air defense threat simulators, targets, and digital threat models and simulations.

(2) Prepare and submit air defense threat simulators, targets, and digital threat models and simulation validation reports for final approval.

c. Office of Naval Research (ONR) Tactical Electronic Warfare Division

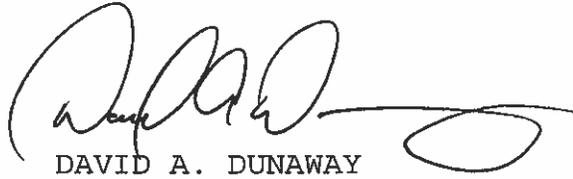
(1) Serve as the CNO's technical agent for the Navy's Antiship Cruise Missile (ASCM) simulators and associated Digital Modeling Program (DMP).

(2) Prepare and submit ASCM/DMP threat simulators, targets, and digital threat models and simulation validation reports for final approval.

d. COMOPTEVFOR. Participate in the review of Navy validation reports for accrediting threat simulators, targets, and threat models for operational T&E use.

9. Multiservice and Joint Testing

a. In the case of multiservice or joint testing, M&S development for use in supporting OT will follow the lead service accreditation process unless otherwise directed.



DAVID A. DUNAWAY

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Acronyms and Abbreviations

AA	Accreditation Authority
ASCM	Antiship Cruise Missile
C4I	Command, Control, Communications, Computer, and Intelligence
CM	Configuration Management
CNO	Chief of Naval Operations
COI	Critical Operational Issue
COMNAVAIRSYSCOM	Commander, Naval Air Systems Command
COMOPTEVFOR	Commander, Operational Test and Evaluation Force
DMP	Digital Modeling Program
DoD	Department of Defense
DoDI	DoD Instruction
DOT&E	Director, Operational Test and Evaluation
FOT&E	Follow-on Operational Test and Evaluation
IEF	Integrated Evaluation Framework
IOT&E	Initial Operational Test and Evaluation
IPT	Integrated Product Team
M&S	Modeling and Simulation
NMSO	Navy Modeling and Simulation Management Office
ONR	Office of Naval Research
OPTEVFOR	Operational Test and Evaluation Force
OT	Operational Test(ing)
OT&E	Operational Test and Evaluation
OTA	Operational Test Agency
OTC	Operational Test Coordinator
OTD	Operational Test Director
PM	Program Manager
SME	Subject Matter Expert
SoS	System of Systems
SUT	System Under Test
T&E	Test and Evaluation
TDS	Technical Development Strategies
TEMP	Test and Evaluation Master Plan
TES	T&E Strategies
TTVR	Target Threat Validation Report

Acronyms and Abbreviations

V&V	Verification and Validation
VV&A	Verification, Validation, and Accreditation

M&S DOCUMENT FORMATS

The following templates will be used for M&S documentation generated by COMOPTEVFOR:

1. COMOPTEVFOR M&S Operational Requirements Input Letter Guidance - Enclosure (2), sample 1
2. Accreditation Plan - Reference (c), appendix A
3. V&V Plan - Reference (c), appendix B
4. V&V Report - Reference (c), appendix C
5. Accreditation Report - Reference (c), appendix D
6. COMOPTEVFOR M&S Accreditation Decision Letter for OT - Enclosure (2), sample 2.

Sample 1, COMOPTEVFOR M&S Operational Requirement Input Letter

The following example of an SUT, slightly modified for reusability, is provided:

From: Commander, Operational Test and Evaluation Force
To: Program Manager

Subj: COMOPTEVFOR REQUIREMENTS FOR THE <SUT> MODELING AND SIMULATION SUITE TO SUPPORT OPERATIONAL TEST AND EVALUATION

Ref: (a) Capabilities Development Document (CDD), Capabilities Production Document (CPD), or Operational Requirements Document (ORD) for the <SUT> of <DATE>
(b) Test and Evaluation Master Plan (TEMP) for <SUT> of <DATE>
(c) DoD AIMS 03-1000A, Technical Standard for the <SUT> of <DATE>
(d) SECNAVINST 5200.40, Verification, Validation, and Accreditation (VV&A) of Models and Simulation of <DATE>
(e) COMOPTEVFORINST 5000.1B, Use of Modeling and Simulation (M&S) in Operational Testing of <DATE>
(f) COMOPTEVFORINST 3980 series, Operational Test Director's (OTD) Manual of 23 Apr 08

Encl: (1) Commander, Operational Test and Evaluation Force (COMOPTEVFOR) Requirements for the <SUT> Modeling and Simulation (M&S) Suite to Support Operational Test and Evaluation (OT&E)

1. Enclosure (1) documents the requirements for the <SUT> M&S necessary to supplement <SUT> OT-XX.
2. COMOPTEVFOR accreditation of supporting M&S is a prerequisite to conduct OT-XX. To support accreditation, the program manager must meet the requirements detailed in enclosure (1). References (a) through (f) germane.
3. The point of contact is <OTD> (Code XXX) at DSN 564-5546, extension <1234> or commercial (757) 282-5546.

<Appropriate Signature>

COMMANDER, OPERATIONAL TEST AND EVALUATION FORCE (COMOPTEVFOR)
REQUIREMENTS FOR THE <SUT> MODELING AND SIMULATION (M&S) SUITE
TO SUPPORT OPERATIONAL TEST AND EVALUATION (OT&E)

1. INTRODUCTION. This document specifies requirements of M&S in support of CNO project <ABC-DE>, <SUT> <OT-XX>. M&S is necessary to supplement live resources due to limited <state capability/assets needed> and further meet requirements per references (a) and (b).
2. SYSTEM DESCRIPTION. <Provide a description of the final configuration of the SUT in sufficient detail and with a focus on the M&S aspects that are appropriate.>
3. INTENDED USE. M&S will be used to support and supplement OT of the <state capability/assets needed> and to evaluate <describe how the M&S will be used to supplement evaluation>.
4. PROGRAMMATIC ISSUES. <Use this paragraph to describe the programmatic issues or requirements important to keep the program on schedule and insure all critical tasks are performed on time to support accreditation for OT.>
5. GENERAL REQUIREMENTS
 - a. The following tables are provided to capture M&S requirements and attributes.

Enclosure (1)

Table 1. Requirements, Attributes, and Metrics			
#	M&S Requirement	Attributes	Metrics/Measures
1	Mid-Course Guidance Effect	1.1 Accurate representation of seeker gimbal limits under designed g-loads within design op range	1.1 xxxxxxxxxx
		1.2 Model must include performance in temp range	1.2 XX"<T"<YY"
		1.3 Rainfall	1.3 AA"<R"<BB", etc. to show guidance response under operational environments
2	ECCM & IRCM Effect	2.1 Model to include threat power out levels	2.1 (>XX watt/st)
		2.2 Ducting and scintillation effects	2.2
3	Modulation	3.1 Threat modulation techniques, etc.	3.1

6. SUPPORT REQUIREMENTS. Personnel qualified to run the simulations and analyze the simulation output on behalf of OPTEVFOR must be available. These personnel will be serving as COMOPTEVFOR trusted agents. Also, the computing environment and computing time in which the simulations can be run on behalf of OPTEVFOR must be available. Output for any given run shall contain all information necessary to reconstruct the run, including simulation version number and input file parameters. Results shall be presented in a format that is mutually agreeable to COMOPTEVFOR.

SAMPLE 2, COMOPTEVFOR M&S ACCREDITATION DECISION LETTER FOR OT

The COMOPTEVFOR M&S accreditation decision letter for OT is generated by COMOPTEVFOR.

[Date]

From: (COMOPTEVFOR)
 To: (Program Manager XXX)
 (SMB)

Subj: ACCREDITATION OF [NAMED M&S] FOR USE IN THE XXXX PROGRAM

Ref: (a) [Reference Approved M&S Accreditation Plan for System Under Test]
 (b) Program Office [Name] M&S Accreditation Recommendation Letter for [Name of M&S]

Encl: (1) V&V Assessment Report for [Name of M&S] Accreditation for [Intended OT Use]

1. DECISION

- *Reference approved accreditation plan and any applicable documents*
- *Brief description of the system program and the test phase being supported by M&S*
- *Brief description of the M&S [title, version, and location] being recommended for accreditation in support of OT, and the intended usage*
- *Statement of approval/disapproval of M&S accreditation, which can be one of the following alternatives (b and c can be combined):*
 - a. *The M&S is adequate and credible for the intended use*
 - b. *The M&S is usable with identified limitations and assumptions*
 - c. *The M&S is usable with modifications or additional V&V*
 - d. *The M&S is inadequate and unacceptable for the intended use.*

Subj: ACCREDITATION OF [NAMED M&S] FOR USE IN THE XXXX PROGRAM

2. DISCUSSION

- *Brief summary of the accreditation assessment results, as compared to acceptance criteria. Other supporting data for the model assessment*
- *Key M&S limitations and risks involved. Reference the accreditation report for detailed discussions.*

3. ADDITIONAL GUIDANCE

- *Include any reservations or limitations to a full accreditation. Recommendations of modifications or additional V&V if any*
- *Statement of using strict configuration control of M&S use during the execution*
- *Future actions*
- *Other recommendations.*

<Signature>
(COMOPTEVFOR)

Copy to:

CNO (N091, N912, ASN(RDA)CHSENG w/o encl)

M&S Proponents (Technical proponents)

M&S Coordination Office (M&S CO, previously DMSO)

NMSO (soft copy to: vva@nmso.navy.mil.((smil.mil) for classified)