DEPARTMENT OF THE NAVY
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IN REPLY REFER TO
OPNAVINST 3960.15A
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OPNAV INSTRUCTION 3960.15A

From: Chief of Naval Operations

Subj: VALIDATION OF NAVY THREAT SIMULATORS, TARGETS, AND DIGITAL THREAT MODELS AND SIMULATIONS

Ref: (a) Defense Acquisition Guidebook of 2004 Mandatory Procedures for Major Defense Acquisition Programs (MDAPS) and Major Automated Information System (MAIS) Acquisition Programs, of 05 April 2002
(b) DoD Directive 5141.2, Director of Operational Test and Evaluation, of 25 May 2000
(c) DoD Instruction 5000.61, DoD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A), of 13 May 2003
(d) SECNAVINST 5200.40, Verification, Validation, Accreditation (VV&A) of Models and Simulations
(e) DoD Threat Simulation Program Plan, Version 3, of 16 Dec 94

1. Purpose. To establish policies and procedures and assign responsibilities for validation of Navy threat simulators, targets, and digital threat models and simulations. This instruction has been administratively revised and should be read in its entirety.

2. Cancellation. OPNAVINST 3960.15

3. Background. All Department of Defense (DoD) components develop and use threat simulators, targets, and digital threat models and simulation in the execution of test and evaluation (T&E). A Major Development Acquisition Program's milestone and acquisition decisions are frequently based on the results of testing developmental hardware against various forms of threat simulators, targets, and/or digital threat models. Reference (a) assigns the Director, Operational Test and Evaluation (DOT&E), oversight of threat target, threat simulator, and threat simulation validation to meet developmental, operational and live fire T&E needs. Reference (b) assigns DOT&E as the oversight agency of the Test and Evaluation Threat Resource Agency (TETRA). TETRA has been delegated oversight

responsibility for the validation activities and reporting of the Services. DOT&E approval of a validation report confirms that an adequate comparison of the simulation to the threat has been completed.

4. Scope and Applicability.

a. This instruction is applicable to all Navy facilities and ranges associated with the validation of threat simulators, targets, and digital threat models and simulation.

b. All threat simulators, targets, and digital threat models and simulation used in the development and operational testing of Navy weapon systems will be validated in order to comply with reference (a). Digital threat models and simulations will be validated in order to comply with references (c) and (d). Threat simulators, targets, and digital threat models and simulations that have not undergone threat validation during their development and Initial Operational Capability (IOC) cycle are not exempt and must be validated if the systems are to be used to support operational or developmental testing.

c. Threat simulators, targets, and digital threat models and simulation will be validated prior to IOC and re-visited throughout the life cycle of the system as new intelligence may require major upgrades or modifications. The IOC validation will be conducted at the completion of the acceptance testing and generally at the site of deployment. This validation shall be conducted using measured data and factory acceptance test data as appropriate. The IOC validation report is critical for the developmental and operational tester's accreditation process.

d. Threat simulators, targets, and digital threat models and simulations will be validated using procedures and processes provided in reference (e).

e. Validation reports will document the parametric, characteristic and performance differences between the threat simulator, target, or digital threat model and simulation and the current Defense Intelligence Agency-approved threat data, and will note and explain the differences and impacts of these deltas on T&E.

f. The Navy's validation program will be managed and operated independently of the Navy's Threat Simulator Development Program and Targets Development Program. Care must

be taken to ensure that the results of validation are purely objective and free from bias.

5. Responsibilities and Actions.

a. The Commander Naval Air Systems Command (NAVAIRSYSCOM), Target/Threat Simulation Department, Navy Threat/Simulation Validation Office, will serve as CNO's technical agent tasked with validation oversight of the Navy's air defense threat simulators, targets, and digital threat models and simulations. Utilizing an Integrated Product Team (IPT) comprised of technical experts, intelligence experts, TETRA and DOT&E members, the technical agent will implement the procedures contained in reference (e) to prepare and submit validation reports for final approval. The technical agent will also maintain and archive final validation reports.

b. The Office of Naval Research (ONR), Naval Research Laboratory (NRL), Tactical Electronic Warfare Division, will serve as CNO's technical agent for the Navy's Anti-Ship Cruise Missile (ASCM) Simulators and associated Digital Modeling Program, and will implement the validation procedures contained in reference (e) to prepare and submit validation reports for final approval. The technical agent will also maintain and archive ASCM validation reports.

c. The Commander, Operational Test and Evaluation Force (COMOPTEVFOR), will participate in the review of Navy validation reports for the purpose of accrediting threat simulators, targets and threat models for operational T&E use. In some cases, if planned and coordinated, COMOPTEVFOR will participate in validation IPTs in support of both the validation process and the operational T&E accreditation process.

6. Reports. Validation reports will be prepared in accordance with instructions and procedures provided in reference (e).

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