

UNITED STATES COAST GUARD
ASSISTANT COMMANDANT FOR OPERATIONS
WASHINGTON, DC (20593-0001)
COMMANDER, OPERATIONAL TEST AND EVALUATION FORCE
NORFOLK, VA (23505-1498)
PROGRAM EXECUTIVE OFFICER, UNITED STATES COAST GUARD DEEPWATER
PROGRAM
WASHINGTON, DC (20593-0001)

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MEMORANDUM OF AGREEMENT
BETWEEN
COMMANDER, OPERATIONAL TEST AND EVALUATION FORCE
AND
UNITED STATES COAST GUARD, ASSISTANT COMMANDANT FOR OPERATIONS
AND
PROGRAM EXECUTIVE OFFICER, UNITED STATES COAST GUARD DEEPWATER
PROGRAM

Subj: MEMORANDUM OF AGREEMENT (MOA) FOR THE CONDUCT OF
INDEPENDENT OPERATIONAL TEST AND EVALUATION (OT&E) FOR THE
UNITED STATES COAST GUARD (USCG) INTEGRATED DEEPWATER
SYSTEM (IDS)

Ref: (a) MOA between G-O and COMOPTEVFOR of Oct 02
(b) COMDTINST M4150.2F, Major Systems Acquisition Manual
(c) COMOPTEVFORINST 3960.1H, Operational Test Director
Guide

Encl: (1) Terms and Definitions

1. Purpose. This MOA describes the relationships and responsibilities between the Assistant Commandant for Operations (G-O), Program Executive Officer (PEO) USCG Deepwater Program (G-D), and Commander, Operational Test and Evaluation Force (COMOPTEVFOR) for the development and conduct of Deepwater Program OT&E. This MOA supersedes reference (a).

2. Authority. This Agreement is authorized under the provisions of 14 U.S.C. Section 141, 14 U.S.C. Section 145(c), and 31 U.S.C. Section 1535 (The Economy Act).

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3. Background

a. The USCG Deepwater Program was established to acquire an integrated system of ships, aircraft, Command, Control, Communication, Computer, Intelligence, Surveillance and Reconnaissance (C⁴ISR) Systems, and logistics assets that will accomplish USCG Deepwater missions in the 21st century. In phase 1, three industry teams developed concept designs associated with acquiring new assets and retaining, retiring, or upgrading legacy assets. This approach essentially gave to industry teams a "blank sheet of paper" to propose an overall solution based upon broad performance requirements allowing the contractor to determine the type and mix of cutters, aircraft, and sensors.

b. In phase 2, the selected Deepwater Systems Integrator (SI), Integrated Coast Guard Systems (ICGS), began the design, construction, testing, deployment, support, and disposal of the various components of the IDS. In concert with the largest single acquisition project in USCG history and the dynamic requirements environment brought about by 11 September 2001, it is paramount to the success of the USCG that the program sponsor conducts a rigorous OT&E of the IDS to evaluate operational effectiveness and operational suitability.

c. For over 5 decades COMOPTEVFOR has set the standard within the United States Navy (USN) for the conduct of OT&E. In view of this fact, the USCG desires to capitalize on the years of experience, expertise, and the OT&E infrastructure of OPTEVFOR. The goal for establishing this relationship is to ensure the operational effectiveness and operational suitability of the IDS in the most rigorous, yet cost effective, manner possible. Most importantly, this relationship will help to ensure that the USCG operator receives the best possible IDS for the money. To that end, the USCG placed an OT&E detachment at OPTEVFOR for the purpose of executing Deepwater OT&E. In a further refinement to maximize OPTEVFOR experience and realize additional economies, the detachment has integrated within COMOPTEVFOR under a single Deepwater Program operational test coordinator (OTC) working for the Assistant Chief of Staff (ACOS) for Surface Warfare.

4. Scope. The provisions outlined in this document apply to ICGS developed or modified air, surface, C⁴ISR, and logistic assets, and the combination thereof.

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Testing may include developmental testing (DT) assistance, combined DT/OT, assessment analysis (OAA), operational assessment (OA), operational evaluation (OPEVAL), and follow-on operational test and evaluation (FOT&E) test phases.

5. Coast Guard IDS Sponsor (G-O) Responsibilities. In accordance with reference (b), the program sponsor is responsible for OT&E planning and execution. The IDS sponsor will:

a. Provide permanently assigned USCG personnel to COMOPTEVFOR. Personnel to be assigned include: Deepwater OTC, patrol boat and cutter boat operational test director (OTD), maritime security cutter medium and maritime security cutter large OTD, aviation domain OTD, C⁴ISR OTD, IDS logistics OTD, and an OT analyst.

b. Coordinate with G-D to provide necessary acquisition, construction and improvement (AC&I) funding to conduct IDS OT&E to include travel, contracted support, and administrative costs related to testing.

c. Provide USCG subject matter experts (SME) to participate in test events conducted by COMOPTEVFOR.

d. Provide access to USCG assets, facilities, and other government agencies (OGA) as required to conduct OT&E.

e. Provide draft operational requirements documents (ORD) to OPTEVFOR to review requirements for testability.

f. Provide ORDs, P-Specs, and other applicable documents to guide OT development.

g. Initiate the necessary operational orders to applicable USCG commands to conduct operational testing on the IDS.

h. Provide any recurrent operating expense (OE) funds necessary to support the USCG personnel assigned to COMOPTEVFOR and the IDS OT&E effort.

6. Coast Guard PEO Deepwater (G-D) Responsibilities. In accordance with reference (b), the PEO is responsible for coordinating the overall T&E program. As the PEO, G-D will:

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a. Provide designated COMOPTEVFOR personnel direct access to the IDS integrated product data environment (IPDE).

b. Provide access for OPTEVFOR personnel to attend Deepwater events as needed to conduct IDS OT&E to include such events as technical interchange meetings, design reviews, test readiness reviews, DTs, program conferences, and T&E working groups.

c. Assist in providing necessary contractor and subcontractor cooperation and participation in OT events such as access to computer models, mock-ups, layouts, drawings, technical documentation, and design and construction facilities.

d. Coordinate with G-O to provide necessary AC&I funding to conduct IDS OT&E to include travel, contract support, and administrative costs related to testing.

7. COMOPTEVFOR Responsibilities. COMOPTEVFOR will be responsible for conducting OT&E of the USCG IDS. Using the COMOPTEVFOR OT&E procedures documented in reference (c), COMOPTEVFOR will:

a. Review IDS system and asset ORDs for testability of requirements.

b. Prepare IDS TEMP sections D and E. Prepare applicable OT&E sections of the Domain/Asset Test Management Master Plans (TMMP).

c. Review and endorse by signature the IDS TEMP and Domain/Asset TMMPs.

d. Attend IDS Quarterly Program Management Reviews.

e. Prepare and approve OT plans.

f. Collect all OT data and coordinate data collection efforts when DT assist or combined DT/OT is implemented.

g. Provide letter of observation reports after completing DT assists.

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h. Provide final evaluation reports after each phase of operational test.

i. Submit quarterly funding status reports to G-O Deepwater sponsors representative (G-OCD) for OE funding, and G-D project manager (G-DPM) and G-D resource manager (G-DRM) for AC&I funding.

8. Communications. Detailed OT&E test planning will be submitted to G-OCD under separate cover in the form of COMOPTEVFOR OT&E input to the IDS TEMP and individual TMMPs. COMOPTEVFOR updates to the IDS TEMP will be provided annually and TMMPs as required. TEMP and TMMP reviews will be submitted to G-OCD via a comment letter. All test reports, quick look messages, and letters of concern will be addressed to the Agency Acquisition Executive (G-CV) with copies to G-D, G-O, and in accordance with the applicable distribution lists. Letters of observation will be sent to G-DPM. Semi-annual or as-needed, G-O, USCG Director of Operations Capability (G-OC), G-D, and COMOPTEVFOR will meet to discuss Deepwater Program OT&E, alternating the location between Washington, DC, and Norfolk, VA.

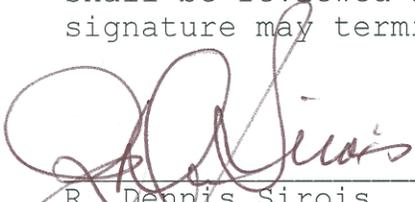
9. Funding and Resources. Specific test funding requirements per fiscal year will be established and included in the IDS TEMP and associated TMMPs. OT&E funds will be managed via G-OCD resource manager in coordination with G-DPM and G-DRM. A majority of the OT&E expenses will result from travel of USCG personnel; retaining these funds within the USCG will facilitate smooth execution. Purchase orders, military interdepartmental purchase requests (MIPR) and other contract vehicles for support, services, and supplies required in the conduct of IDS OT&E will be executed through G-OCD. Any funding for OT&E required by the IDS SI will be administered through the Deepwater Program Office and the applicable contracting officer. A MIPR will be established to fund USN OPTEVFOR travel in support of Deepwater OT&E. COMOPTEVFOR will provide Coast Guard personnel working at OPTEVFOR access to the USCG data network (CGDN+) via remote access and facilities support consistent with COMOPTEVFOR policy. Remote access to CGDN+ will be evaluated annually to determine if any additional USCG funds are necessary to continue this support.

10. Administration of USCG Personnel Attached to COMOPTEVFOR. All responsibilities, including liability for pay and benefits, and liability for health, safety, and welfare, shall remain the responsibility of the respective services. Administrative (personal data records) and medical support will be provided to

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the USCG personnel by the USCG's Integrated Support Command (ISC) in Portsmouth, VA. All USCG personnel will be evaluated in accordance with the USCG personnel system. The Deepwater OTC will act as supervisor and marking official for enlisted OTDs and the supervisor for officer OTDs. OPTEVFOR ACOS for Surface Warfare will act as reporting officer for officer OTDs and supervisor for the OTC. The OPTEVFOR Deputy and Chief of Staff will act as the marking official for the OTC. G-OCD will act as approving official for enlisted evaluations and reviewing official for officer OTDs. G-OC will act as the reviewing official for the OTC. Leave and liberty will be administered via the OPTEVFOR chain of command. Authority over USCG personnel under Article 15 of the Uniform Code of Military Justice, Commanding Officer's Non-Judicial Punishment, shall reside under COMOPTEVFOR.

11. Effective Date, Periodic Review, and Termination. This MOA is effective upon approval signature by all parties and shall remain in effect unless revised by mutual agreement. This MOA shall be reviewed annually and updated as required. Any signature may terminate this MOA with 6-month written notice.



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Rear Admiral, USCG
Assistant Commandant
for Operations



Patrick. M. Stillman
Rear Admiral, USCG
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- 1. Combined Developmental Testing/Operational Testing (DT/OT).** A test phase in which DT and OT testers share the data and in which the events meet both DT and OT requirements. An example of this would be a test in which both DT and OT testers collect data from every event or flight.
- 2. Developmental Test (DT) Assist.** DT assist is that DT&E conducted to provide an informal observation of operational performance in preparation for OT&E. DT assist data that meets independent operational criteria may be combined with subsequent OT&E data to support resolution of operational effectiveness and operational suitability critical operational issues (COI).
- 3. Follow-On Operational Test and Evaluation (FOT&E).** FOT&E is that IDS and asset OT&E conducted after OPEVAL to test fixes to be incorporated in production systems, complete deferred or incomplete OT&E, assess operational availability, continue tactics development, or validate the operational effectiveness and operational suitability of production assets.
- 4. Operational Assessment Analysis (OAA).** Assessments that focus on detailed design to assess operational effectiveness and operational suitability, and evaluate areas of risk and COIs. The results of the OAA will be employed to develop test data matrices and identify risk areas and critical operational issues to be investigated during operational assessments (OA).
- 5. OA.** OAs are assessments of operational effectiveness and suitability based on available assets, and the results of DT&E, and OAAs. The IDS and asset OAs shall use threat or threat-representative forces, targets, and threat countermeasures. Typical users shall operate and maintain the IDS and assets while simulating minimal, expected, and surge conditions. Goals of the OA include: promotion of user familiarity with the IDS and assets, identification and assessment of high risk and COIs, assessment of the IDS and assets under operational multimission scenarios, and development of operational tactics. It will test and evaluate all hardware and software alterations that materially change system performance.
- 6. Operational Effectiveness.** The overall degree of mission accomplishment of a system when used by representative personnel in the environment planned or expected (e.g., natural, electronic, threat, etc.) for operational employment of the system considering organization, doctrine, tactics, survivability, vulnerability, and threat (including countermeasures, initial nuclear weapons effects, nuclear, biological, and chemical contamination (NBCC) threats).

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7. Operational Evaluation (OPEVAL). OPEVAL is the last phase of initial OT&E; the point at which COIs are resolved and a determination is made on operational effectiveness and operational suitability.

8. Operational Suitability. The degree to which a system can be placed satisfactorily in field use with consideration given to reliability, maintainability, availability, logistic supportability, compatibility, interoperability, training, human factors, safety, documentation, transportability, wartime usage rates, manning requirements, and natural and environmental effects and impacts.

9. OT&E. OT&E is IDS, asset, system, equipment, and component T&E conducted to evaluate: operational effectiveness and suitability focusing on mission performance; desirability and operational benefits or burdens; the need for further development to correct performance deficiencies; and the adequacy of doctrine, organization, operating techniques, tactics, training, facilities, logistic support, and performance in the operational environment. OT&E is conducted with threat-representative forces and employs realistic tactics utilizing typical users (fleet personnel) to operate and maintain the system as designed simulating stress and peacetime conditions. OT&E consists of OAA, OA, OPEVAL and FOT&E performed on the IDS and individual assets.

10. OT Quick Look. An OT quick look message is a preliminary assessment or evaluation prepared after an OT event at the request of the program manager to support an acquisition decision.

11. Test Management Master Plan (TMMP). A TMMP is an asset-level TEMP found as an annex to the overall IDS TEMP.