

## FY16 Activity Summary

DOT&E activity for FY16 involved oversight of 316 programs, including 30 Major Automated Information Systems. Oversight activity begins with the early acquisition milestones, continues through approval for full-rate production, and, in some instances, during full production until removed from the DOT&E oversight list.

Our review of test planning activities for FY16 included approval of 37 Test and Evaluation Master Plans (TEMPs), 89 Operational Test Plans, and 1 LFT&E Strategy (not included in a TEMP).

DOT&E also rescinded approval for the AGM-88E Advanced Anti-Radiation Guided Missile (AARGM) FOT&E Test Plan and disapproved the following two TEMPs and one Test Plan:

- T-AO(X) Fleet Replenishment Oiler TEMP
- AH-64E Version 6 Capability Apache Helicopter TEMP
- Defense Enterprise Accounting Management System (DEAMS) Verification of Fixes Test Plan

In FY16, DOT&E prepared 23 reports for Congress and SECDEF: 1 Cybersecurity report, 5 Early Fielding reports, 3 FOT&E reports, 1 Information Assurance and Interoperability report, 5 IOT&E reports, 2 LFT&E reports, 1 Operational Assessment (OA) report, 2 OT&E reports, 2 special reports, and the Ballistic Missile Defense System Annual Report. Additionally, DOT&E prepared 51 non-Congressional reports for DOD stakeholders: 10 Cybersecurity reports, 1 Early

Operational Assessment report, 8 FOT&E reports, 2 Force Development Evaluation reports, 3 IOT&E reports, 1 Lead Site Verification Test report, 2 Limited User Test reports, 11 OA reports, 2 OT&E reports, 2 Operational Utility Evaluation reports, 1 Quick Reaction Assessment report, and 8 special reports. Some of these non-Congressional reports were submitted to Defense Acquisition Board (DAB) principals for consideration in DAB deliberations.

During FY16, DOT&E met with Service operational test agencies, program officials, private sector organizations, and academia; monitored test activities; and provided information to Congress, SECDEF, the Deputy Secretary of Defense, Service Secretaries, USD(AT&L), DAB principals, and the DAB committees. DOT&E evaluations are informed in large part through active on-site participation in, and observation of, tests and test-related activities. In FY16, DOT&E's experts joined test-related activities on 222 local trips within the National Capital Region and 827 temporary duty assignment trips in support of the DOT&E mission.

Security considerations preclude identifying classified programs in this report. The objective, however, is to ensure operational effectiveness and suitability do not suffer due to extraordinary security constraints imposed on those programs.

### TEST AND EVALUATION MASTER PLANS / STRATEGIES APPROVED (\*INCLUDES LIVE FIRE STRATEGY)

AC-130J Milestone C TEMP Version 6

Advanced Multi-Purpose (AMP) Cartridge, 120 mm: High Explosive Multi-Purpose with Tracer (HEMP-T), XM1147 TEMP\*

Airborne Warning and Control System (AWACS) Block 40/45 Upgrade TEMP

Amphibious Combat Vehicle (ACV) 1.1 TEMP\*

AN/BLQ-10 Submarine Electronic Warfare TEMP

B-2A Defensive Management System-Modernization (DMS-M) Milestone B TEMP

Bradley Engineering Change Proposal TEMP

CH-47F Cargo Helicopter TEMP

Defense Agencies Initiative (DAI) Increment 2 Release 3 TEMP

Defense Medical Information Exchange (DMIX) TEMP (Revised)

DOD Automated Biometric Identification System (ABIS) v1.2 TEMP

E-2D TEMP Revision D Change 1

F-22 Increment 3.2B Milestone TEMP

Global Broadcast Service TEMP Update

Ground Based Strategic Deterrent (GBSD) TEMP

Ground/Air Task Oriented Radar (G/ATOR) Milestone C TEMP

Guided Multiple Launch Rocket System (GMLRS) Alternative Warhead (AW) Rocket TEMP\*

Handheld, Manpack and Small form fit (HMS) Rifleman Radio TEMP

Improved Turbine Engine Program (ITEP) TEMP

Joint Assault Bridge (JAB) TEMP\*

Joint Light Tactical Vehicle (JLTV) Milestone C TEMP\*

Joint Precision Aided Landing System (JPALS) Increment 1A Milestone B TEMP

Joint Surveillance Target Attack Radar System (JSTARS) Recapitalization Milestone A TEMP

Joint Warning and Reporting Network (JWARN) Increment 2 TEMP

Littoral Combat Ship (LCS) TEMP Change Pages

Logistics Modernization Program (LMP) Increment 2 Milestone C TEMP

Long Range Precision Fires (LRPF) Missile Milestone A TEMP (Pre-Decisional)\*

Long Range Standoff (LRSO) Milestone A TEMP

Maneuver Control System (MCS) TEMP Annex for Command Web

Mid-tier Networking Vehicular Radio (MNVR) TEMP

MQ-4 Triton Unmanned Aircraft System (UAS) Milestone C TEMP

# FY16 DOT&E ACTIVITY AND OVERSIGHT

Multifunctional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) with Concurrent Multinetting/Concurrent Contention Receive (CMN/CCR) TEMP Annex K Revision A Change 1 Transmittal Proposal  
Next Generation Jammer (NGJ) Increment 1 Milestone B TEMP

Public Key Infrastructure (PKI) Increment 2 Spiral 3 TEMP Addendum  
RQ-4B Global Hawk Capstone TEMP  
Teleport, Generation 3 (G3P3) TEMP Update  
Third Generation Forward Looking Infrared (3GEN FLIR) B-Kit TEMP

## OPERATIONAL TEST PLANS APPROVED

AC-130J Block 10 Operational Utility Evaluation Test Plan  
Aegis (Ashore) Ballistic Missile Defense (ABMD) 5.0 Capability Upgrade Baseline 9B Cybersecurity IOT&E Test Plan  
Aegis Weapon System (AWS) Baseline 9C Air Defense Destroyer IOT&E Plan Change 1  
Airborne Warning and Control System (AWACS) Block 40/45 FOT&E Cyberspace Vulnerability Assessment Plan  
AN/APR-39D(V)2 Radar Signal Detecting Set Anechoic Chamber Test Using the Joint Preflight Integration of Munitions and Electronic Systems (JPRIMES) Test Facility Test Support Plan  
AN/APR-39D(V)2 Radar Signal Detecting Set Developmental Test 2 Operational Assessment Detailed Test Plan  
AN/BLQ-10A Submarine Electronic Warfare Support System with Technical Insertion 10 Advanced Processor Build (APB)-11 and AN/BSD-3 Multifunction Modular Mast FOT&E Test Plan  
AN/BQQ-10(V) Acoustic Rapid Commercial Off-The-Shelf Insertion (A-RCI) APB-13 Integrated Testing Data Collection Plan  
AN/BYG-1(V) Combat Control System and AN/BQQ-10(V) Sonar System APB-13 Integrated Evaluation Framework  
AN/BYG-1(V) Combat Control System, AN/BQQ-10 A-RCI System, and AN/BY-1 Common Submarine Imaging System APB-13 Cybersecurity FOT&E Test Plan  
AN/SQQ-89A(V)15 Surface Ship Undersea Warfare (USW) Combat System IOT&E Test Plan Change 3  
Army Integrated Air and Missile Defense (AIAMD) Phases I and II Limited User Test (LUT) Test Plan  
Army Integrated Air and Missile Defense (AIAMD) Phase III LUT Test Plan Change  
Assault Amphibious Vehicle Survivability Upgrade, Engineering and Manufacturing Development Phase Detailed Live Fire Test Plan  
Ballistic Missile Defense System (BMDS) Integrated Master Test Plan  
Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) Test Concept Plan  
Bradley A4 LFT&E Bradley Reactive Armor Tile Test Phase Combined Operational Test Agency Test Plan and Detailed Test Plan (DTP)  
C-130J Block Upgrade 8.1 OA Test Plan  
CH-53K OA (OT-B1) Test Plan  
Combat Rescue Helicopter OA 1 Test Plan  
Command Web LUT Test Plan  
Common Analytical Laboratory System (CALs) Man Portable System DT/OT Plan  
Common Analytical Laboratory System (CALs) User Demonstration Phase 1 Test Plan

Common Aviation Command and Control System (CAC2S) Cooperative Vulnerability Assessment Plan  
Common Aviation Command and Control System (CAC2S) Increment 1 Phase 2 Operational Test Plan  
Cooperative Engagement Capability (CEC) OT-D1C FOT&E Test Plan  
Defense Agencies Initiative (DAI) OA Test Plan  
Defense Medical Information Exchange (DMIX) Release 3 Operational Test Plan  
Defense Medical Information Exchange/Joint Legacy Viewer (DMIX/JLV) Release 2 Verification of Corrected Deficiencies Event Test Plan  
Department of the Navy Large Aircraft Infrared Countermeasure (DoN LAIRCM) V-22 Urgent Universal Need Statement Developmental Test Data Collection Plan  
Department of the Navy Large Aircraft Infrared Countermeasure with Advanced Threat Warning (DoN LAIRCM ATW) AH-64, CH-47, and H-60 Integration Test Plan  
Department of the Navy Large Aircraft Infrared Countermeasure with Advanced Threat Warning (DoN LAIRCM ATW) KC-130J Data Collection Plan  
E-2D Advanced Hawkeye FOT&E Test Plan  
E-2D OT-D2 Cybersecurity Test Plan  
Expeditionary Mobile Base (ESB) IOT&E Test Plan  
F/A-18E/F Infrared Search and Track System (IRST) Block I OA II Test Plan  
F-35 Joint Strike Fighter (JSF) Air Vehicle Cybersecurity Cooperative Vulnerability and Penetration Assessment Plan  
F-35 Joint Strike Fighter (JSF) Cybersecurity Operational Test Plan  
Global Broadcast System FOT&E-1 Test Plan  
Global Command and Control System – Joint (GCCS-J) Version 4.3 Cybersecurity Test Plan  
Global Lightning 16 Assessment Plan  
Global Thunder 16 Assessment Plan  
Heavy Equipment Transporter (HET) Urban Survivability Kit (HUSK) Operational Test Agency Test Plan and Detailed Test Plan Revision  
Heavy Equipment Transporter (HET) Urban Survivability Kit (HUSK) Operational Test Agency Test Plan  
Integrated Master Test Plan (IMTP) v17.0  
Jackal Stone (U.S. European Command) Assessment Plan  
Jackal Stone (U.S. Special Operations Command) Assessment Plan  
Joint Warning and Reporting Network (JWARN) IOT&E Test Plan  
LHA(R) Amphibious Assault Ship Replacement (LHA(R) FLT 0) Cybersecurity IOT&E / Ship Self Defense System (SSDS) MK 2 MOD 4 Cybersecurity FOT&E Test Plan

# FY16 DOT&E ACTIVITY AND OVERSIGHT

LHA(R) Amphibious Assault Ship Replacement (LHA(R) FLT 0) IOT&E Test Plan

Littoral Combat Ship (LCS) 4 Total Ship Survivability Trial Plan

Littoral Combat Ship (LCS) 4 with Surface Warfare (SUW) Mission Package Increment 2 Cybersecurity IOT&E Test Plan

Littoral Combat Ship (LCS) 5 Shock Trial Plan

Littoral Combat Ship (LCS) 6 Full Ship Survivability Trial Plan

Littoral Combat Ship (LCS) *Independence*-Variant ET-11B Phase 1 Air Warfare Data Collection Plan

M109 Family of Vehicles, M109A7 Self-Propelled Howitzer (SPH) and M992A3 Carrier, Ammunition, Tracked (CAT) Full-Up System-Level Test Operational Test Agency Test Plan and Detailed Test Plan

M109 Family of Vehicles IOT&E Test Plan

M1A2 Abrams System Enhancement Package Version 3 (SEPV3) Engineering Change Proposal 1a Turret Half-Bustle Ammunition Vulnerability Test Phase I LFT&E Test Plan

Marine Corps Forces Central Command (MARCENT) Forward Site Assessment

MK 48 MOD 7 Common Broadband Advanced Sonar System (CBASS) Torpedo with APB-5 Software Integrated Evaluation Framework Revision 1 (Change One)

MK 54 MOD 1 Lightweight Torpedo (LWT) Increment 1 LFT&E Test Plan

Mobile Landing Platform (MLP) Total Ship Survivability Trial Plan

Mobile User Objective System (MUOS) MOT&E Test Plan

MQ-8C System OA Test Plan

MQ-9 FOT&E Test Plan

Navy Multiband Terminal (NMT) FOT&E Test Plan

Next Generation Diagnostic System (NGDS) Increment 1 OA Test Plan

Offensive Anti-Surface Warfare (OASuW) Increment 1 Long Range Anti-Ship Missile (LRASM) Master Test Strategy

Pacific Sentry 16 Assessment Plan

PANAMAX 2016 Final Assessment Plan

Patriot Post-Deployment Build-8 (PFB-8) IOT&E Test Plan

Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) Test Evaluation Plan

Ship Self-Defense System (SSDS) MK 2 FOT&E Test Plan

Small Arms Protective Insert (SAPI) Foreign Military Sales Lot Acceptance Test Detailed Test Plan

Small Diameter Bomb II (SDB-II) LFT&E Hybrid Testing Plan

Small Diameter Bomb, Increment II (SDB II) Live Fire Flight Tests (LF 07 – LF 10) LFT&E Test Plan

Soldier Protection System (SPS) Torso and Extremity Protection (TEP) Expanded Developmental Test Detailed Test Plan

Soldier Protection System (SPS) Vital Torso Protection (VTP) Enhanced Small Arms Protective Insert (ESAPI) First Article Test Detailed Test Plan

Space-Based Infrared System (SBIRS) Block 10 Operational Utility Evaluation Test Plan

Spider M7E1 Increment 1A (SI1A), LUT Test Plan

SSN 774 *Virginia* Class Block III Submarines Cybersecurity Test Plan

Stryker Family of Vehicles Engineering Change Proposal Operational Test Agency Test Plan and Detailed Test Plan

Stryker Family of Vehicles World Wide Fielding Detailed Live Fire Test Plan Deviation

Stryker Family of Vehicles World Wide Fielding Operational Test Agency Test Plan and Detailed Test Plan

Surface Electronic Warfare Improvement Program (SEWIP) Block 2 IOT&E Test Plan Change Transmittal 3

Surface Electronic Warfare Improvement Program (SEWIP) Block 2 TECHEVAL Phase B Test Plan

Theater Medical Information Program – Joint (TMIP-J) Increment 2 Release 3 MOT&E Test Plan – Navy Annex

U.S. Marine Corps Large Scale Exercise Assessment Plan

Valiant Shield 16 Assessment Plan

---

## LIVE FIRE TEST AND EVALUATION STRATEGY APPROVED

Soldier Protection System (SPS) Live Fire Strategy

# FY16 DOT&E ACTIVITY AND OVERSIGHT

TABLE 1. FY16 REPORTS TO CONGRESS	
PROGRAM	DATE
<b>Cybersecurity Report</b>	
Department of Defense (DOD) Cybersecurity During Fiscal Year 2014 and Early Fiscal Year 2015	November 2015
<b>Early Fielding Reports</b>	
Aegis Baseline 9C Cruiser	November 2015
SLQ-32(V)6 Surface Electronic Warfare Improvement Program (SEWIP) Block 2 Upgrade	December 2015
Rolling Airframe Missile (RAM) Block 2	March 2016
Littoral Combat Ship (LCS) 2 with Mine Countermeasures (MCM) Mission Package (MP) Increment 2	June 2016
Massive Ordnance Penetrator (MOP) Enhanced Threat Response (ETR) Phase 3	September 2016
<b>Follow-on Operational Test and Evaluation Reports</b>	
Advanced Processing Build 2011 (APB-11) Acoustic Rapid Commercial Off-the-Shelf (A-RCI) Insertion	November 2015
Multi-static Active Coherent (MAC) System in P-8A Poseidon	December 2015
Distributed Common Ground System – Army (DCGS-A) Increment 1 Release 2 with classified cyber annex	January 2016
<b>Information Assurance and Interoperability Report</b>	
Defensive Cyberspace Operations (DCO) Report on Observations from FY13-15	July 2016
<b>Initial Operational Test and Evaluation Reports</b>	
AN/TPQ-53 (Q-53) Radar (with classified annex)	October 2015
Surveillance Towed-Array Sensor System (SURTASS) with the Compact Low-Frequency Active (CLFA) System	January 2016
Precision Guidance Kit (PGK)	March 2016
Common Aviation Command and Control System (CAC2S), Increment 1, Phase 2	August 2016
Surface Electronic Warfare Improvement Program (SEWIP) Block 2	September 2016
<b>Live Fire Test and Evaluation Reports</b>	
Multiple Launch Rocket (MLRS) M270A1 Launcher Improved Armored Cab (IAC)	June 2016
Soldier Protection System (SPS) Torso and Extremities Protection (TEP)	September 2016
<b>Operational Assessment Report</b>	
Ballistic Missile Defense Systems (BMDS) European Phased Adaptive Approach (EPAA) Phase 2 Assessment Report	March 2016
<b>Operational Test and Evaluation Reports</b>	
M829A4 120 mm Armor-Piercing, Fin-Stabilized, Discarding Sabot - Tracer (APFSDS-T)	December 2015
Mobile User Objective System (MUOS) Multi-Service Operational Test and Evaluation 2 Report with Classified Annex	June 2016
<b>Special Reports</b>	
DOT&E classified and redacted/unclassified inputs for the report required by Section 123 the National Defense Authorization Act for Fiscal Year 2016 (Public Law 114-92) (Update from FY14 and FY15 Inputs)	January 2016
Market Survey of Active Protection Systems (APS) for Ground Combat and Tactical Wheeled Vehicles	June 2016
<b>Ballistic Missile Defense System Report</b>	
FY15 Assessment of the Ballistic Missile Defense System (includes unclassified Executive Summary)	April 2016

# FY16 DOT&E ACTIVITY AND OVERSIGHT

TABLE 2. FY16 NON-CONGRESSIONAL REPORTS	
PROGRAM	DATE
<b>Cybersecurity Reports</b>	
Global Lightning 2014 (GL14) and GL15 Cybersecurity Assessment	October 2015
Austere Challenge 15 Cybersecurity Assessment	November 2015
Turbo Challenge 15 Cybersecurity Assessment	November 2015
Pacific Sentry 2015-3 Cybersecurity Assessment	February 2016
Cybersecurity Assessment of Special Operations Command Pacific (SOCAPAC) Tempest Wind 2015 Exercise	March 2016
Marine Forces Central Command (MARCENT) Forward (FWD) Cybersecurity Assessment	May 2016
Global Thunder 16 Cybersecurity Assessment	May 2016
USS <i>Harry S. Truman</i> Carrier Strike Group (HSTCSG) Composite Unit Training Exercise 2015	June 2016
Global Command and Control System – Joint (GCCS-J) Operational Cybersecurity Testing	August 2016
Cybersecurity Assessment of U.S. Africa Command (USAFRICOM) During Epic Guardian Exercise	September 2016
<b>Early Operational Assessment Report</b>	
Next Generation Jammer (NGJ)	February 2016
<b>Follow-on Operational Test and Evaluation Reports</b>	
Integrated Personnel and Pay System – Army (IPPS-A) Increment 1 Cybersecurity Evaluation	October 2015
M30A1 Guided Multiple Launch Rocket System Alternative Warhead (GMLRS-AW)	November 2015
Joint Warning and Reporting Network (JWARN) Increment 1 FOT&E-3 with classified annex	December 2015
Gray Eagle One System Remote Video Terminal (OSRVT) with classified annex	January 2016
Distributed Common Ground System – Navy (DCGS-N) Increment 1 Block 2 with classified Annex	May 2016
E-2D Advanced Hawkeye (AHE)	May 2016
OT-IIIIC of Upgrades to Marine Corps AH-1Z Attack and UH-1Y Utility Helicopters (H-1 Upgrades)	May 2016
Department of the Navy Large Aircraft Infrared Countermeasures (DoN LAIRCM) Advanced Threat Warning (ATW) System	June 2016
<b>Force Development Evaluation Reports</b>	
Assessment of the Air Operations Center – Weapon System (AOC-WS) 10.1 Recurring Event 13	October 2015
Air Force Distributed Common Ground System (AF DCGS) Geospatial Intelligence (GEOINT) Baseline 4.1	November 2015
<b>Initial Operational Test and Evaluation Reports</b>	
Logistics Modernization Program (LMP) Increment 2 Wave 3 with classified Annex	April 2016
Defense Readiness Reporting System-Strategic (DRRS-S) with classified Annex	April 2016
RQ-4B Global Hawk Block 40	August 2016
<b>Lead Site Verification Test Report</b>	
Global Combat Support System – Army (GCSS-A)	November 2015
<b>Limited User Test Reports</b>	
Key Management Infrastructure (KMI) Spiral 2 Spin 1 Limited User Test Retest	October 2015
Mid-Tier Networking Radio (MNVR)	November 2015

# FY16 DOT&E ACTIVITY AND OVERSIGHT

TABLE 2. FY16 NON-CONGRESSIONAL REPORTS (CONTINUED)	
PROGRAM	DATE
<b>Operational Assessment Reports</b>	
Defense Medical Information Exchange (DMIX) Release 2 Classified Appendix (Cybersecurity Assessment)	November 2015
MaxxPro Long Wheel Base Ambulance (LWB) with classified Live Fire Report	December 2015
DOD Teleport Generation 3, Phase 3 with classified Annex	December 2015
Defense Agency Initiative (DAI) Operational Assessment	February 2016
MQ-4C Triton Operational Assessment	May 2016
MQ-8C Fire Scout Operational Assessment	June 2016
Mid-Tier Network and Mid-tier Networking Vehicular Radio (MNVR) Milestone C Operational Assessment	July 2016
F-22A Increment 3.2B Operational Assessment and Readiness for Milestone C Findings and Observations	July 2016
Defense Agency Initiative (DAI) Operational Assessment Report with classified Annex	August 2016
KC-46A Operational Assessment #2 with classified Annex	August 2016
Warfighter Information Network - Tactical (WIN-T) Increment 3 Operational Assessment with classified annex	September 2016
<b>Operational Test and Evaluation Reports</b>	
Theater Medical Information Program – Joint (TMIP-J) Multi-Service Operational Test and Evaluation (MOT&E) Report with classified Annex	March 2016
Defense Medical Information Exchange (DMIX) Release 3 (R3) Multi-Service Operational Test and Evaluation (MOT&E)	July 2016
<b>Operational Utility Evaluation Reports</b>	
Operational Utility Evaluation of Block 10 AC-130J Gunship	June 2016
Air Force Distributed Common Ground System (AF DCGS) System Release 3.0 (SR 3.0)	July 2016
<b>Quick Reaction Assessment Report</b>	
MQ-8B Fire Scout Radar	March 2016
<b>Special Reports</b>	
Littoral Combat Ship (LCS) and Mine Countermeasures (MCM) Mission Package Increment 1 Performance (Interim Assessment)	November 2015
Defense Medical Information Exchange (DMIX) Release 2 Verification of Corrected Deficiencies (VCD) Report	February 2016
Defense Enterprise Accounting Management System (DEAMS) Verification of Fixes (VoF) Test	February 2016
DOD Enterprise Cyber Range Environment (DECRE) Report	March 2016
P-8A Multi-mission Maritime Aircraft Data Storage Architecture Upgrade (DSAU) and Verification of Correction of Deficiencies (VCD)	May 2016
5.56x45 mm Cartridge Ammunition Study	August 2016
RQ-21A Blackjack Small Tactical Unmanned Aircraft System (STUAS) Initial Operational Test and Evaluation (IOT&E) Report Addendum	August 2016
Approval of Military Combat Helmet Test Protocol Standard for Ballistic Testing for the Enhanced Combat Helmet (ECH) (Updated)	September 2016