

## FY17 Activity Summary

DOT&E activity for FY17 involved oversight of 302 programs, including 28 Major Automated Information Systems (MAIS). 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.

DOT&E review of test planning activities for FY17 included approval of 31 Test and Evaluation Master Plans (TEMPS), 95 Operational Test Plans, and 3 LFT&E Strategies/Management Plans (not included in a TEMP). DOT&E also disapproved the following TEMP and Test Plan:

- Air Force Distributed Common Ground System (DCGS) Capstone TEMP
- Geosynchronous Space Situational Awareness System (GSSAP) Follow-on Operational Test and Evaluation (FOT&E) Test Plan

In FY17, DOT&E prepared 17 reports for Congress and SECDEF: 1 Cybersecurity report, 5 Early Fielding reports, 4 FOT&E reports, 1 IOT&E report, 2 LFT&E reports, 1 Operational Assessment (OA) report, 1 special report, 1 Limited User Test (LUT) report, and the Ballistic Missile Defense System Annual Report. Additionally, DOT&E

prepared 24 non-Congressional reports for DOD stakeholders: 7 Cybersecurity reports, 1 Early Operational Assessment report, 2 FOT&E reports, 1 LFT&E report, 4 Limited User Test reports, 6 OA reports, 1 OT&E report, and 2 special reports. Some of these non-Congressional reports were submitted to Defense Acquisition Board (DAB) principals for consideration in DAB deliberations.

During FY17, 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 FY17, DOT&E's experts joined test-related activities on 237 local trips within the National Capital Region and 913 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 (LIVE FIRE STRATEGIES MARKED WITH \*)

AH-64E Version 6 Capability Apache Helicopter TEMP\*

Air Force Mission Planning System Increment 5 (MPS-5) MAIS TEMP

AN/BQQ-10 Sonar System Advanced Processing Build 2013 TEMP

APR-39D(V)2 TEMP

B-2 Extremely High Frequency Satellite Communications (EHF SATCOM) Milestone A TEMP

Cartridge, 7.62 Millimeter Advanced Armor Piercing XM1158 / Tracer XM1159 TEMP\*

Coastal Battlefield Reconnaissance and Analysis (COBRA) Block I TEMP Revision 1, Change 3

DAI Increment 2 Release 4 TEMP Addendum

Deliberate and Crisis Action Planning and Execution Segments (DCAPES) Increment 2B Milestone B TEMP

Distributed Common Ground System – Army (DCGS-A) Milestone B TEMP

Distributed Common Ground System – Navy (DCGS-N) Increment 2 TEMP

F/A-18 E/F and EA-18G H12 TEMP 1787

Indirect Fire Protection Capability Increment 2 - Intercept (IFPC Inc 2-I) Block 1 Milestone B Pre-MDAP TEMP \*

KC-46A Milestone C TEMP\*

Maintenance, Repair, and Overhaul initiative (MROI) Milestone B TEMP

Manpack (MP) Radio Full and Open Competition (FOC) TEMP

MQ-1C Extended Range (ER) TEMP

MQ-1C Extended Range (ER) Increment I TEMP

MQ-4C Triton Unmanned Air System TEMP No.1721 Rev D

MQ-8 Fire Scout Unmanned Aircraft System (UAS) Acquisition Category (ACAT) IC TEMP

Next Generation Diagnostic System (NGDS) TEMP

Ohio Replacement (OR) Class SSBN Program Milestone B TEMP\*

Patriot System TEMP Change Pages

Soldier Protection System (SPS) Integrated Head Protection System (IHPS) TEMP\*

Soldier Protection System (SPS) Torso and Extremity Protection (TEP) TEMP\*

Spider M7E1, Dispensing Set, Munition, Network Command Increment 1A for Milestone C and Low-Rate Initial Production (LRIP) Phase TEMP

Standard Missile-6 (SM-6) TEMP TEIN 1675 Revision A Annex\*

T-AO 205 (formerly T-AO(X)) Fleet Replenishment Oiler Program TEMP No. 1835\*

U.S. Marine Corps CH-53K Heavy Lift Replacement Program TEMP\*

Warfighter Information Network-Tactical (WIN-T) Increment 2 (Inc2) TEMP

XM17 Modular Handgun System (MHS) TEMP\*

# FY17 DOT&E ACTIVITY AND OVERSIGHT

## OPERATIONAL TEST PLANS APPROVED

AC-130J Block 20 Cybersecurity (Adversarial Assessment (AA)) Test Plan  
AC-130J Block 20 Cybersecurity (Cooperative Vulnerability and Penetration Assessment (CVPA))  
Test Plan  
AC-130J Block 20 Precision Strike Package Test Plan  
Aegis Destroyer Baseline 9.C1 Verification of Correction of Deficiencies Test Plan  
Aegis Weapon System (AWS) Baseline 9C (BL 9C) Air Defense Destroyer IOT&E Plan Change 2  
Aegis Weapon System (AWS) Baseline 9C (BL 9C) Air Defense Destroyer IOT&E Plan Change 3  
AH-64E V6 Live Fire Operational Test Agency (OTA) Test Plan  
Air Warfare/Ship Self Defense (AW/SSD) Enterprise (ET15) supporting the Amphibious Assault Ship Replacement (LHA(R)) Flight 0 IOT&E, Ship Self Defense (SSDS) MK 2 Mod 4B FOT&E, and Rolling Airframe Missile (RAM) Block 2 IOT&E Operational Test Plan  
Amphibious Assault Ship Replacement (LHA (R) Flight 0) IOT&E Test Plan  
Amphibious Assault Ship Replacement (LHA (R)) IOT&E and Ship Self-Defense System (SSDS) MK 2 FOT&E Test Plan  
Amphibious Assault Vehicle Survivability Upgrade (AAV-SU) Operational Assessment Test Plan (OATP)  
Amphibious Combat Vehicle (ACV) 1.1 Engineering and Manufacturing Development (EMD) Phase System-Level and Exploitation Testing Detailed Test Plan (DTP)  
Amphibious Combat Vehicle Phase 1, Increment 1 (ACV 1.1) Armors from BAE Systems (BAE) and from Science Applications International Corporation (SAIC) Behind-Armor Debris (BAD) Testing Detailed Test Plans (DTPs)  
AN/APR-39D FOT&E Operational Test Agency (OTA) Test Plan (TP)  
AN/BQQ-10 Sonar System Advanced Processing Build 2013 Test Plan Change 1  
AN/SSQ-89A(V)15 Surface Ship Undersea Warfare (USW) Combat System Program Cybersecurity Test Plan  
AN-BQQ-10 Sonar Systems Advanced Processing Build 2013 Test Plan  
Apache Helicopter-64 Echo (AH-64E) v6 Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan  
APR-39 (V)2 Operational Assessment Test Plan (OA) Test Plan  
Army Tactical Missile System (ATACMS) Modification (Mod) Program System Qualification Test (SQT)-7 User Demo Test Plan  
Army/Navy Transportable Radar Surveillance – Forward-based Mode [AN/TPY-2 (FBM)] Superdome Radar and the System of Systems CVPA Test Plan for the Command, Control, Battle Management, and Communications (C2BMC) Spiral 8.2, the Ballistic Missile Defense System (BMDS) Overhead Infrared (OPIR) Architecture (BOA) 5.1, and the AN/TPY-2 (FBM) Superdome Radar Element-Level Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan  
Ballistic Missile Defense System (BMDS) Integrated Master Test Plan (IMTP) v18.0  
Ballistic Missile Defense System (BMDS) Integrated Master Test Plan (IMTP) v18.1  
Amphibious Combat Vehicle (ACV) 1.1 Engineering and Manufacturing Development (EMD) Phase Ballistic Testing of Armor Coupons Detailed Test Plan (DTP)  
Battle Control System-Fixed (BCS-F) Release 3.2.4 (R3.2.4) Force Development Evaluation (FDE) Plan  
C-130J Block Upgrade 8.1 Cybersecurity Test Plan  
Coastal Battlefield Reconnaissance and Analysis (COBRA) IOT&E Test Plan  
Columbia Class Submarine Early Operational Assessment Test Plan  
Common Analytical Laboratory System (CALIS) Man-Portable Subsystem Development/Operational (DT/OT) Test Plan  
Common Infrared Countermeasure (CIRCM) System Operational Assessment Test Plan  
Countermeasure Anti-Torpedo (CAT)/Torpedo Warning System (TWS) Quick Reaction (QRA) #3 Test Plan  
Defense Agency Initiative (DAI) IOT&E Test Plan  
Defense Enterprise and Accounting Management System (DEAMS) Increment 1 Operational Utility Evaluation (OUE) Test Plan  
Defense Medical Information Exchange (DMIX) Release 5 (R5) Cybersecurity Test Plan  
Department of Defense (DOD) Healthcare Management System Modernization (DHMSM) Operational Assessment (OA) Plan  
Department of the Navy Large Aircraft Infrared Countermeasures (DON LAIRCM) Advanced Threat Warning (ATW) System as Installed on the MV-22B Quick Reaction Assessment Test Plan  
Department of Defense (DOD) Healthcare Management System Modernization (DHMSM) IOT&E Plan  
Enhanced Polar System (EPS) Cooperative Vulnerability and Penetration Assessment (CVPA) Plan  
Enhanced Small Arms Protective Insert (ESAPI) First Article Test (FAT) Detailed Test Plan  
F-22A Increment 3.2B IOT&E Plan Approval  
F-35 Joint Strike Fighter (JSF) Air Vehicle (AV) Software Data Load (SDL) Cybersecurity Operational Test Plan  
F-35 JSF IOT&E Low Observable Stability Over Time (LOSOT) Test Design  
F-35 JSF Autonomous Logistics Information System (ALIS) 2.0.2 Cybersecurity Operational Test Plan  
F-35A LOSOT Force Development Evaluation (FDE) Test Plan  
Geosynchronous Space Situational Awareness Program (GSSAP) FOT&E Plan  
Ground/Air Task Oriented Radar (G/ATOR) Block 1 Operational Assessment Test Plan  
Ground/Air Task Oriented Radar (G/ATOR) Developmental Test 1C Integrated Test Plan  
Integrated Head Protection System (IHPS) First Article Test (FAT) Detailed Test Plan  
Ground/ Air Task Oriented Radar (G/ATOR) Integrated Test Event for OT&E Test Plan  
Joint Light Tactical Vehicle (JLTV) Full-Up System-Level (FUSL) Operational Test Agency Test Plan (OTA TP)

# FY17 DOT&E ACTIVITY AND OVERSIGHT

Joint Light Tactical Vehicle (JLTV) Production and Deployment Phase Full-up System-Level (FUSL) Live Fire Test Detailed Test Plan (DTP)

Joint Precision Aided Landing System (JPALS) IOT&E Phase I Test Plan

Joint Regional Security Stack (JRSS) v1.5 Operational Assessment Plan

KC-130J with Harvest Hercules Airborne Weapons Kit IT-IIIIE Live Fire Test Plan Deviation

Key Management Infrastructure (KMI) Spiral 2 Spin 2 Limited User Test (LUT) Plan

Littoral Combat Ship (LCS) Independence Variant with Increment 2 SUW (MP) IOT&E (OT-C4A) Test Plan Change Pages

Low-Rate Initial Production (LRIP) Autonomic Logistics Operating Unit (ALOU) Release 2.0 Cybersecurity Cooperative Vulnerability and Penetration Assessment (CVPA) and Adversarial Assessment (AA) Test Plan

Mission Planning Systems (MPS) Increment 5 C-17 IOT&E Plan

Mission Planning Systems (MPS) Increment 5 Mobility Air Forces Automated Flight Planning System (MAFPS IOT&E Plan

Modular Handgun System (MHS) IOT&E Operational Test Agency Test Plan (OTA TP)

MQ-1C Gray Eagle Cooperative Vulnerability Identification (CVI)/ Cooperative Vulnerability and Penetration Assessment (CVPA)

MV-22B FOT&E Test Plan

Next Generation Chemical Detector Early Operational Assessment Operational Test Agency Test Plan (NGCD EOA OTA TP)

Next Generation Diagnostic System (NGDS) Increment 1 Adversarial Assessment Test Plan

Next Generation Diagnostic System (NGDS) Increment 1 IOT&E Test Plan

Next Generation Diagnostics System (NGDS) Sentinel Panel Developmental Test (DT)/Operational Test (OT) Test Plan

Offensive Anti-Surface Warfare (OASuW) Increment (Inc) 1 Long Range Anti-Ship Missile (LRASM) Quick Reaction Assessment (QRA) Test Plan

*Ohio* Replacement (OR) Class SSBN Live Fire Test and Evaluation (LFT&E) Management Plan

Operational Utility Evaluation (OUE) Test Plan for Joint Space Operations Center (JSpOC) Mission System (JMS) Increment 2 Service Pack 9

P-8A Poseidon Multimission Maritime Aircraft FOT&E Test Plan

Patriot Post-Deployment Build-8 (PDB-8) Cooperative Vulnerability and Penetration Assessment (CVPA) Plan

Patriot Post-Deployment Build-8 (PDB-8) IOT&E Adversarial Assessment Test Plan

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

Public Key Infrastructure (PKI) Increment 2, Spiral 3 FOT&E Plan

Soldier Protection System (SPS) Expanded Developmental Testing (DT) Test Deviation

Soldier Protection System (SPS) Live Fire Test and Evaluation Expanded Developmental Testing of Vital Torso Protection (VTP) Plates and Legacy Plates with Modular Scalable Vest (MSV) Shootpacks

Soldier Protection System (SPS) Live Fire Test Torso and Extremity Protection (TEP) Full-Up System-Level (FUSL) Detailed Test Plan

Soldier Protection System (SPS) Torso and Extremity Protection (TEP) Detailed Test Plan for the Lot Acceptance Test (LAT)

Soldier Protection System (SPS) Torso and Extremity Protection (TEP) Operational Test Agency (OTA) Test Plan (TP)

Soldier Protection System (Vital Torso Protection (VTP) Subsystem Live-Fire Testing OTA Test Plan

Standard Missile-6 Block IA (SM-6 Blk IA) OT-D4 FOT&E Test Plan

Standard Missile-6 (SM-6) IOT&E Deficiency Verification of Correction of Deficiencies Detailed Test Plan

Standard Missile-6 Block I (SM-6 BLK I) FOT&E OT-D2 Test Plan Modeling and Simulation Runs for the Record (RFR)

Stryker Infantry Carrier Vehicle – Dragoon (ICVD) Operational Test Agency Test Plan (OTA TP) and Detailed Test Plan (DTP) for Full-Up System-Level (FUSL) Live Fire Testing

Stryker Infantry Carrier Vehicle Dragoon (ICVD) 30-mm Lethality Upgrade Operational Cybersecurity Test Plan

Submarine Torpedo Defense System (Sub TDS) Increment 1 Integrated Evaluation Framework (IEF)

U.S. Pacific Command, Pacific Sentry 2017-3 (PS 17-3) Capstone Event Plan

USAFRICOM Exercise Judicious Response 2017 Assessment Plan

USS *America* (LHA 6) Total Ship Survivability Trial (TSST) Plan

*Virginia* Class Submarine Block III Test Plan

*Virginia* Class Submarine Block III Strike Warfare Test Plan

Warfighter Information Network – Tactical (WIN-T) Increment 2 (INC2) Network Operations Security Center – Lite (NOSC-L) Tactical Communications Node – Lite (TCN-L) FOT&E Operational Test Agency Test Plan (OTA TP)

## LIVE FIRE TEST AND EVALUATION STRATEGIES / MANAGEMENT PLANS

Army Tactical Missile System (ATACMS) Modification (Mod) Live Fire Test and Evaluation (LFT&E) Strategy and Operational Test Agency Test Plan (OTA TP)

*Ohio* Replacement (OR) Class SSBN Live Fire Test and Evaluation (LFT&E) Management Plan

T-AO 205 (formerly T-AO(X)) Fleet Replenishment Oiler Program Live Fire Test & Evaluation (LFT&E) Management Plan

# FY17 DOT&E ACTIVITY AND OVERSIGHT

TABLE 1. FY17 REPORTS TO CONGRESS	
PROGRAM	DATE
<b>Cybersecurity Report</b>	
Defensive Cyberspace Operations: Findings from Department of Defense (DOD) Operational Tests and Assessments in Fiscal Year 2014 through Fiscal Year 2016	April 2017
<b>Early Fielding Reports</b>	
Littoral Combat Ship with Increment 2 Surface Warfare (SUW) Mission Package (MP)	November 2016
AN/VRC 118 Mid-Tier Networking Vehicular Radio and Joint Enterprise Network Manager	January 2017
AH-64E Installation of Department of the Navy Large Aircraft Infrared Countermeasure (DON LAIRCM) Advanced Threat Warning System (Army Response to U.S. Special Operations Command Joint Urgent Operational Need) Limited Fielding Report	January 2017
SeaRAM System on the <i>Arleigh Burke</i> Class Destroyers	January 2017
Next Generation Diagnostic System (NGDS) Increment 1 with classified Annex	June 2017
<b>Follow-on Operational Test and Evaluation Reports</b>	
Joint Standoff Weapon (JSOW) Block III	January 2017
MQ-9 Reaper Unmanned Aircraft System with the Block 5 Aircraft and Block 30 Ground Control Station	January 2017
AN/BLQ-10 (BLQ-10) Submarine Electronic Warfare Support System with the Technical Insertion 2010 Upgrade and the AN/BSD-3 Multifunction Modular Mast	August 2017
AGM-88E Advanced Anti-Radiation Guided Missile	September 2017
<b>Initial Operational Test and Evaluation Report</b>	
Defense Agency Initiative (DAI) with classified Annex	September 2017
<b>Live Fire Test and Evaluation Reports</b>	
Modernized Expanded Capacity Vehicle (MECV) – Survivability	November 2016
M1070A1 Heavy Equipment Transporter (HET) Urban Survivability Kit (HUSK)	June 2017
<b>Operational Assessment Report</b>	
M109 Family of Vehicles Paladin Integrated Management with classified Annex	January 2017
<b>Limited User Test Report</b>	
Army Integrated Air and Missiles Defense (AIAMD) System Increment II	January 2017
<b>Special Report</b>	
Mine Resistant Ambush Protected (MRAP) Cougar Category I A1 Block 1 Upgrades and Category II A1 Seat Survivability Upgrade Report	May 2017
<b>Ballistic Missile Defense System Report</b>	
FY16 Assessment of the Ballistic Missile Defense System (includes unclassified Executive Summary)	April 2017

# FY17 DOT&E ACTIVITY AND OVERSIGHT

<b>TABLE 2. OTHER FY17 REPORTS (NOT SENT TO CONGRESS)</b>	
<b>PROGRAM</b>	<b>DATE</b>
<b>Cybersecurity Reports</b>	
Global Lightning 2016 Cybersecurity Assessment	December 2016
Theater Medical Improvement Program Joint Increment 2 Release 3 Cybersecurity Assessment	January 2017
Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) Cybersecurity Assessment	February 2017
Observations During Special Operations Command Europe (SOCEUR) Exercise Jackal Stone 2016	February 2017
Cybersecurity Test and Evaluation of the Aegis Weapons System (AWS) Baseline 9.B1 Installed at the Aegis Ashore Missile Defense System (AAMDS) in Deveselu, Romania	February 2017
Cybersecurity Assessment of U.S. Africa Command Exercise JUDICIOUS RESPONSE 2017	May 2017
U.S. Pacific Fleet Exercise Valiant Shield 2016	July 2017
<b>Early Operational Assessment Report</b>	
Next Generation Chemical Detector (NGCD) Increment 1 Detector Alarm	March 2017
<b>Follow-on Operational Test and Evaluation Reports</b>	
Global Broadcast Service FOT&E-1 with classified Annex	November 2016
Consolidated Afloat Networks and Enterprise Services (CANES)	September 2017
<b>Live Fire Test and Evaluation Report</b>	
Littoral Combat Ship 4 (LCS 4) Total Ship Survivability Trial (TSST)	September 2017
<b>LUT Reports</b>	
Public Key Infrastructure, Increment 2, Spiral 3	November 2016
Spider Increment 1A with Classified Annex	January 2017
Command Web with classified Annex	January 2017
Key Management Infrastructure (KMI) Spiral 2 Spin 2	September 2017
<b>Operational Assessment Reports</b>	
Key Management Infrastructure (KMI) Spiral 2 Spin 2 with classified Annex	April 2017
AN/APR-39D(V)2 Radar Signal Detection Set (RSDS) on the Army AH-64D/E Aircraft	April 2017
Common Analytical Laboratory System (CALS) Field Confirmatory Analytical Capability Sets (FC-ACS)	May 2017
Integrated Defensive Electronic Counter Measure (IDECM) Block 4 Software Improvement Program (SWIP)	June 2017
Department of Defense (DOD) Healthcare Management System Modernization (DHMSM)	July 2017
<b>Operational Test and Evaluation Report</b>	
Battle Control System-Fixed (BCS-F) Release 3.2.3	May 2017
<b>Combined Operational Test and Live Fire Test and Evaluation Reports</b>	
CH-53K Heavy Lift Replacement Program with classified Annex	February 2017
<b>Special Reports</b>	
Large Scale Data Analytics Reveal Stealthy Adversarial Actions Report	December 2016
Assault Amphibious Vehicle - Survivability Upgrade (AAV-SU) Preliminary Report with classified Annex	August 2017

**FY17 DOT&E ACTIVITY AND OVERSIGHT**