

FY19 Activity Summary

DOT&E activity for FY19 involved oversight of 235 programs, including 13 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.

Our review of test planning activities for FY19 included approval of 32 Test and Evaluation Master Plans (TEMPs), 77 Operational Test Plans, and 6 LFT&E Strategies/Management Plans (not included in a TEMP). DOT&E also disapproved the following TEMP:

- AN/SPY-6(V)1 Air and Missile Defense Radar (AMDR) TEMP

In FY19, DOT&E prepared 23 reports for Congress and SECDEF: 1 Combined IOT&E/LFT&E report, 2 Cybersecurity reports, 3 Early Fielding reports, 2 FOT&E reports, 9 IOT&E reports, 1 LFT&E report, 2 Multi-Service OT&E reports, 1 OT&E report, 1 special report, and the Ballistic Missile Defense System Annual Report. Additionally, DOT&E prepared 24 non-Congressional reports for DOD stakeholders: 8 Cybersecurity reports, 1 Early Fielding report, 1 Early

Operational Assessment report, 4 FOT&E reports, 2 Limited User Test (LUT) reports, 2 Operational Assessment (OA) reports, 2 OT&E reports, 1 Operational Utility report, and 3 special reports. Some of these non-Congressional reports were submitted to Defense Acquisition Board (DAB) principals for consideration in DAB deliberations.

During FY19, 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(R&E), USD(A&S), 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 FY19, DOT&E's experts joined test-related activities on 231 local trips within the National Capital Region and 1,027 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 (LF STRATEGIES MARKED WITH *)

40 mm XM1176 High Explosive Dual Purpose – Air burst (HEDP-AB) Cartridge TEMP*

Abrams M1A2 System Enhancement Package Version 3 (SEPV3) TEMP*

Advanced Anti-Radiation Guided Missile Extended Range TEMP

Aerosol and Vapor Chemical Agent Detector (AVCAD) TEMP

Amphibious Combat Vehicle (ACV) 1.1 Milestone C Update TEMP*

Armored Multi-Purpose Vehicle (AMPV) Milestone C TEMP*

Army Integrated Air and Missile Defense (AIAMD) Milestone C TEMP

B61-12 Milestone C TEMP

Bradley A4 Engineering Change Proposal (ECP) (Mobility) Program for M2A4/M7A4 Corrosion Test Change TEMP Change Pages

Command Post Computing Environment (CPCE) TEMP

Common Remotely Operated Weapon Station – Javelin (CROWS-J) TEMP Annex

E-2D Advanced Hawkeye Delta System Software Configuration Three 1654 Revision E TEMP

F/A-18E/F System Configuration Set (SCS) H14 TEMP

F-15 Eagle Passive Active Warning Survivability System Acquisition Strategy Update for the Milestone C TEMP

F-22 Tactical Link 16 and Tactical Mandates Modification Programs Milestone B TEMP

Global Combat Support System – Army (GCSS-Army) Increment 2 TEMP

Global Command and Control System – Joint (GCCS-J) TEMP Update

Joint Light Tactical Vehicle (JLTV) TEMP Update, Annex E*

Joint Precision Approach and Landing System (JPALS) Milestone C Revision D TEMP

Lower Tier Air and Missile Defense Sensor (LTAMDS) Program Urgent Materiel Release (UMR) TEMP

M109A7 Family of Vehicles Self-Propelled Howitzer and Carrier, Ammunition, Tracked TEMP*

MK21A Reentry Vehicle TEMP*

Mobile Protected Firepower (MPF) TEMP*

Mobile User Objective System (MUOS) Operations and Support TEMP

Presidential Helicopter Replacement Program (VH-92A) Cyber Survivability Annex TEMP

Space-Based Infrared System (SBIRS) Enterprise TEMP (ETEMP) Addendum

Space Fence Increment 1 TEMP

Tomahawk Weapon System for Navigation and Communication Modernization Upgrades Approval Revision H TEMP

UH-60V Blackhawk Utility Helicopter Fleet Milestone C TEMP

Unmanned Influence Sweep System (UISS) TEMP

VC-25B TEMP*

Virginia (SSN 774) Class Submarine Revision H TEMP*

FY19 DOT&E ACTIVITY AND OVERSIGHT

OPERATIONAL TEST PLANS APPROVED

Abrams M1A2 SEPv3 Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan

Abrams M1A2 System Enhancement Program v3 (SEPv3) FOT&E Operational Test Plan

Aegis Weapon System Advanced Capability Build-16 (ACB-16) IOT&E Cyber Survivability Test Plan (Baseline 9.2A2 Adversarial Assessment)

Air Intercept Missile 9X Block II FOT&E Test Plan

Air Intercept Missile 9X Block II, Air Intercept Missile 120C-7, and Air Intercept Missile 120D Cyber Survivability Test Plan

Amphibious Combat Vehicle 1.1 Cold Weather Test Plan

Amphibious Combat Vehicle Automatic Fire Extinguishing System Testing for the Production and Deployment Phase Detailed Test Plan

Amphibious Combat Vehicle Full-Up System-Level Detailed Test Plan

AN/AAQ-45 Distributed Aperture Infrared Countermeasures Quick Reaction Assessment Test Plan

AN/AAQ-45 Distributed Aperture Infrared Countermeasures Quick Reaction Assessment Test Plan for the AH-1Z and UH-1Y Platforms

AN/SQQ-89A(V)15 Advanced Capability Build (ACB 13) FOT&E Test Plan

Apache AH-64E Follow-on Operational Test 2 and the Joint Air-to-Ground Missile (JAGM) Initial Operational Test Operational Test Plan

Armored Multi-Purpose Vehicle System (AMPV) Live Fire System-Level Phase II Test Plan

B-21 Program Live Fire Alternate Test Plan

B61-12 Tail Kit Assembly IOT&E Plan

Ballistic Missile Defense System (BMDS) Flight Test Integrated-03 (FTI-03) Test Plan

Ballistic Missile Defense System (BMDS) Integrated Master Test Plan (IMTP) version 20.1

Ballistic Missile Defense System (BMDS) Integrated Master Test Plan (IMTP) version 21.0 Revision 8

Ballistic Missile Defense System (BMDS) Flight Test, Ground-Based Interceptor-11 Test Plan

Bradley A4 Engineering Change Proposal (Mobility) Automatic Fire Extinguishing System Test Operational Test Agency Test Plan

BYG-1 Combat Control System and BQQ-10 Sonar System for Acoustic Rapid Commercial Off-the-Shelf Insertion (A-RCI) (AN/BQQ-10) Advanced Processing Build (APB-15) Cyber Survivability Test Plan

C-130J Block Upgrade 8.1 Adversarial Assessment Test Plan

Command Post Computing Environment (CPCE) Version 3 Initial Operational Test Operational Test Plan

Common Infrared Countermeasure and the Limited Interim Missile (CIRCM) Warning System Free Flight Missile Test Detailed Test Plan

Common Infrared Countermeasure System Cybersecurity Cooperation Vulnerability and Penetration Assessment Test Plan

Common Infrared Countermeasure System Initial Operational Test Plan

Cooperative Engagement Capability (CEC) FOT&E Test Plan

Defense Agencies Initiative (DAI) Increment 3 Release 1 Operational Assessment Test Plan

Defense Agencies Initiative Increment 3 Release 1 Cyber Survivability Annex Operational Assessment (OA) Test Plan

Distributed Common Ground System – Army (DCGS-A) Capability Drop 1 (CD 1) Limited User Test (LUT) Phase 2 Operational Test Agency Test Plan

E-2D Advanced Hawkeye Delta System Software Configuration Three FOT&E Plan

Electronic Warfare Planning and Management Tool (EWPMT) Cooperative Vulnerability and Penetration Assessment (CVPA) Plan

F/A-18E/F Infrared Search and Track (IRST) Block I AV6+ Configuration Test Plan

F-35 IOT&E Test Plan Approval of Changes

Family of Beyond Line-of-Site Terminals (FAB-T) and IOT&E Test Plan

Family of Beyond Line-of-Site Terminals (FAB-T) CVPA Test Plan

Family of Medium Tactical Vehicles A2 Full-Up System-Level Live Fire Test Design Plan

Ground/Air Task Oriented Radar Block 2 (GB2) Operational Test Plan

Integrated Personnel and Pay System – Army (IPPS-A) Increment II Release 2 Limited User Test 2 (LUT2) Test Plan

Joint Assault Bridge (JAB) Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan

Joint Assault Bridge (JAB) Initial Operational Test Operational Test Plan

Joint Assault Bridge (JAB) Initial Operational Test Operational Test Plan Revision

Joint Light Tactical Vehicle (JLTV) Operational Test Plan, Revision 1

Joint Regional Security Stack Version 1.5 Operational Assessment Plan

KC-46A IOT&E Test Plan

Light Attack Aircraft (LAA) Live Fire Alternative Test Plan

MC-8C Fire Scout Unmanned Aircraft System (UAS) Endurance Baseline Change Transmittal 1 to IOT&E for TEIN 1593

Military Health System (MHS) GENESIS FOT&E Cyber Survivability Test Plan Annex

MK 48 Mod 7 Common Broadband Advanced Sonar System (CBASS) Advanced Processor Build (APB) 5 Heavy Weight Torpedo (HWT) and MK 54 Mod 1 Light Weight Torpedo (LWT) Cyber Survivability Test Plan

Mobile User Objective System (MUOS) Multi-Service Operational Test and Evaluation (MOT&E) Test Plan

Mobile User Objective System (MUOS) Operational Test Agency (OTA) Cyber Survivability Test Plan

Mounted Computing Environment Customer Test (MCE CT) Operational Test Plan

Multi-functional Information Distribution System (MIDS) Joint Tactical Radio System (JTRS) Tactical Targeting Network Technology Operational Assessment Plan

Offensive Anti-Surface Warfare (OASuW) Increment 1 Long Range Anti-Ship Missile (LRASM) IOT&E Plan

Over-the-Horizon Weapon System (OTH WS) Quick Reaction Assessment (QRA) Test Plan

P-8A Advanced Airborne Sensor Cyber Test Plan

Patriot Post Deployment Build-8 Adversarial Assessment 2 Operational Test Plan

RQ-21A Blackjack FOT&E OT-D1 Test Plan

FY19 DOT&E ACTIVITY AND OVERSIGHT

Space-Based Infrared System (SBIRS) IOT&E Plan	TRIDENT II D5 Strategic Weapons Systems (SWS) Test and Evaluation Plan Change 1
Space Fence Increment 1 Cybersecurity Annex Test and Evaluation Plan	Trophy Active Protection System (APS) Operational Assessment Operational Test Plan
Space Fence Increment 1 Test Plan	Trophy Active Protection System Phase II Ballistic Survivability Test and Evaluation for Urgent Materiel Release Operational Test Agency Test Plan
Standard Missile-6 (SM-6) Block IA FOT&E Test Plan	U.S. European Command (EUCOM) Exercise Austere Challenge 2019 Phase 2 (AC19-2) Capstone Event Plan
Static Detonation Chamber at the Blue Grass Chemical Agent-Destruction Pilot Plant Combined Developmental Test and Evaluation Plan	U.S. North American Aerospace Defense Command and U.S. Northern Command Vigilant Shield 2019 (VS19) Final Capstone Event Plan
Stryker Common Remotely Operated Weapon Station – Javelin (CROWS-J) Operational Assessment Test Plan	UH-60V Cybersecurity Adversarial Assessment (AA) Test Plan
Surface Mine Countermeasures (SMCM) Unmanned Undersea Vehicle (UUV) (aka Knifefish) Operational Assessment (OT-B1) Test Plan, Revision 2	UH-60V Initial Operational Test Operational Test Plan
Surface Ship Undersea Warfare (USW) Combat System Program AN/SQQ-89A (V) 15 Advanced Capability Build 11 (ACB-11) Cyber Survivability Test Plan	USS <i>Abraham Lincoln</i> Carrier Strike Group (ABESG) Composite Training Unit Exercise (C2X) Cybersecurity Assessment Plan
TRIDENT II D5 Life Extension (LE) Commander Evaluation Test-2 (CET-2) OT&E Flight Test Support Plan	VH-92A Cyber Survivability Test Plan
TRIDENT II D5 Life Extension (LE) Demonstration and Shakedown Operations-29 (DASO-29) OT&E Flight Test Support Plan	

LIVE FIRE TEST AND EVALUATION STRATEGIES/MANAGEMENT PLANS

B-21 Long Range Strike Bomber Alternate Live Fire Test Plan	MDA Kinetic Kill Vehicle Live Fire Strategy
Family of Medium Tactical Vehicles (FMTV) A1P2	Trophy Active Protection System (APS) Operational Test Agency Test Plan for Phase II Ballistic Survivability
Family of Medium Tactical Vehicles (FMTV) A2	
Light Attack Aircraft Alternative Live Fire Test Plan	

FY19 DOT&E ACTIVITY AND OVERSIGHT

TABLE 1. FY19 REPORTS TO CONGRESS	
PROGRAM	DATE
Combined Initial Operational Test and Evaluation and Live Fire Test and Evaluation Report	
USS America (LHA 6)	April 2019
Cybersecurity Report	
Defensive Cyberspace Operations – Observations from Department of Defense Activities	December 2018
Military Health System (MHS) GENESIS	January 2019
Early Fielding Reports	
Stryker Infantry Carrier Vehicle – Dragoon (ICV-D)	November 2018
Stryker Common Remotely Operated Weapon Station – Javelin (CROWS-J)	January 2019
Mod 7 Common Broadband Advanced Sonar System (CBASS) Torpedo Advanced Processor Build (APB) 5	September 2019
Follow-on Operational Test and Evaluation Reports	
Stryker Double-V Hull A1 (DVH A1) Family of Vehicles (FoV)	May 2019
Block III Variant of the Virginia-Class Submarine	July 2019
Initial Operational Test and Evaluation Report	
Military Health System (MHS) GENESIS	November 2018
Advanced Capability Build 2011 (ACB-11) Version of the AN/SQQ-89A(V)15 Surface Ship Undersea Warfare Combat System	December 2018
Integrated Strategic Planning and Analysis Network (ISPAN) Increment 4: Mission Planning and Analysis System (MPAS)	January 2019
XM17/XM18 Modular Handgun System (MHS)	January 2019
AN/TPS-80 Ground/Air Task Oriented Radar (G/ATOR) Block 1 and Block 2	May 2019
Coastal Battlefield Reconnaissance and Analysis (COBRA) Block 1	May 2019
Command Post Computing Environment (CPCE)	June 2019
Spider Increment 1A M7E1 Network Command Munition	August 2019
MQ-8C Fire Scout Unmanned Aircraft System (UAS) Endurance Baseline	September 2019
Live Fire Test and Evaluation Reports	
Javelin Spiral 2 Missile	February 2019
Multi-Service Operational Test and Evaluation Reports	
Joint Light Tactical Vehicle (JLTV)	October 2018
Enhanced Polar System (EPS)	September 2019
Operational Test and Evaluation Report	
Aegis Weapon System (AWS) Advanced Capability Build 2012 (ACB-12) Baseline 9 and Cooperative Engagement Capability (CEC)	June 2019
Special Report	
Integrated Visual Augmentation System (IVAS)	July 2019
Ballistic Missile Defense System Report	
FY18 Assessment of the Ballistic Missile Defense System	February 2019

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TABLE 2. OTHER FY19 REPORTS (NOT SENT TO CONGRESS)	
PROGRAM	DATE
Cybersecurity Reports	
Defense Medical Information Exchange (DMIX)	October 2018
Joint Operation Planning and Execution System	October 2018
2018 Cybersecurity Assessment of U.S. Africa Command	November 2018
Global Positioning System (GPS) Next Generation Operational Control System	April 2019
Fiscal Year 2019 Navy Cybersecurity Assessment	May 2019
2018 Cybersecurity Assessment of U.S. Indo-Pacific Command	June 2019
U.S. European Command Cyber Readiness Campaign	July 2019
Fiscal Year 2018-2019 Cybersecurity Assessment of U.S. Strategic Command	August 2019
Early Fielding Report	
Distributed Aperture Infrared Countermeasures (DAIRCM) System	February 2019
Early Operational Assessment Report	
Columbia-Class Submarine	March 2019
Follow-On Operational Test and Evaluation Reports	
Defense Agencies Initiative (DAI) Increment 2	November 2018
APR-39D(V)2 Radar Warning Receiver	November 2018
MQ-1C Extended Range Gray Eagle Unmanned Aircraft System (UAS)	January 2019
Key Management Infrastructure (KMI) Capability Increment 2	September 2019
Limited User Test Reports	
UH-60V Milestone C	December 2018
Armored Multi-Purpose Vehicle (AMPV)	June 2019
Operational Assessment Reports	
AN/TPS-80 Ground/Air Task Oriented Radar (G/ATOR) Block 2	November 2018
VH-92A Presidential Helicopter Replacement Program	May 2019
Operational Test and Evaluation	
Global Command and Control System – Joint (GCCS-J)	May 2019
Distributed Common Ground System – Navy (DCGS-N) Increment 2 Fleet Capability Release 1 (FCR-1)	August 2019
Operational Utility Evaluation Report	
Joint Space Operations Center (JSpOC) Mission System (JMS) Increment 2 Service Pack 9 (SP-9)	December 2018
Special Reports	
Interim Assessment of Air Operations Center – Weapon System (AOC-WS) Increment 10.1 Release 10.1.15	October 2018
Air Operations Center – Weapon System (AOC-WS) Release 10.1	May 2019
Long Range Anti-Ship Missile (LRASM) on the F/A-18E/F	September 2019

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