

FY20 Activity Summary

DOT&E activity for FY20 involved oversight of 228 programs, including 14 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 FY20 included approval of 26 Test and Evaluation Master Plans (TEMPs), 1 Test and Evaluation Strategy, 52 Operational Test Plans, and 4 LFT&E Strategies/Management Plans (not included in a TEMP). DOT&E also disapproved the proposed LFT&E Alternate Plan for the Guided Missile Frigate (FFG(X)). After changes were made, the plan was subsequently approved.

In FY20, DOT&E prepared 20 reports for Congress and SECDEF: 1 Cybersecurity report, 3 Early Fielding reports, 4 FOT&E reports, 5 IOT&E reports, 1 Operational Assessment (OA) report, 5 special reports, and the Ballistic Missile Defense System Annual Report. Additionally, DOT&E prepared 17 non-Congressional reports for DOD stakeholders: 3 Cybersecurity reports, 1 Early Fielding report, 1 FOT&E report, 1 Limited User Test (LUT) report, 1 Multi-Service OT&E report,

8 OA reports, 1 OT&E report, and 1 Quick Reaction Assessment report. Some of these non-Congressional reports were submitted to Defense Acquisition Board (DAB) principals for consideration in DAB deliberations.

During FY20, 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 FY20, DOT&E's experts joined test-related activities on 129 local trips within the National Capital Region and 456 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 *)

AIM-9X - Air-to-Air Missile Upgrade Block II TEMP*	Javelin Antitank Weapon System TEMP
Armored Multi-Purpose Vehicle (AMPV) Change 1 TEMP*	Joint Air-to-Ground Missile System (JAGM) TEMP
B-52 Commercial Engine Replacement Program (CERP) TEMP	Joint Assault Bridge (JAB) TEMP Addendum
Bradley Engineering Change Proposal (ECP) 2 TEMP	Key Management Infrastructure (KMI) Increment 3 TEMP
Cannon Delivered Area Effects Munitions (C-DAEM) Armor Increment 1 Projectile Milestone A TEMP*	Manpack (MP) Radio Generation (GEN) 2 TEMP
Carrier Based Unmanned Aerial System MQ-25 TEMP	MK 54 Mod 1 Lightweight Torpedo (LWT) (Increment 1) TEMP
CMV-22B TEMP*	Patriot System TEMP*
Combat Rescue Helicopter (CRH) Milestone C TEMP*	Protected Anti-jam Tactical Satellite System (PATS) Phase 1 Test and Evaluation Strategy
Command Post Computing Environment (CPCE) Post IOT&E TEMP Update	RQ-7Bv2 Block III Shadow Tactical Unmanned Aircraft System (TUAS) TEMP
Extended Range (ER) Guided Multiple Launch Rocket System (GMLRS) TEMP, Annex E*	Stryker Anti-Tank Guided Missile (ATGM) Engineering Change Proposal (ECP) TEMP Annex
F-35 Block 4 TEMP and Annexes*	T-AO 205 Fleet Replenishment Oiler Program TEMP
Guided Missile Frigate FFG(X) TEMP*	XM1158 Advanced Armor Piercing (ADVAP) TEMP*
Handheld, Manpack, and Small Form Fit (HMS) Leader Radio (LR) TEMP	
Heavy Dump Truck (HDT) TEMP*	

FY20 DOT&E ACTIVITY AND OVERSIGHT

OPERATIONAL TEST PLANS APPROVED

AC-130J Block 30 Configuration Phase One of the Force Development Evaluation Test Plan	High Altitude Anti-submarine warfare Weapon Component (HAAWC) Cyber Test Plan
Advanced Multi-Purpose (AMP) Cartridge, 120 mm; High Explosive Multi-Purpose with Tracer (HEMP-T), XM1147; Ammunition Vulnerability Test (AVT) Test Design Plan	High Mobility Artillery Rocker System (HIMARS) Increased Crew Protection (ICP) Re-Start Live Fire Test Design Plan
Advanced Multi-Purpose (AMP) Limited User Test (LUT) Operational Test Plan (OTP)	Initial Maneuver Short Range Air Defense (IM-SHORAD) Cooperative Vulnerability Penetration Assessment (CVPA) Test Plan
Advanced Multi-Purpose (AMP) Hard Target Detailed Test Plan	Integrated Tactical Network (ITN) Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan
Advanced Multi-Purpose (AMP) Ammunition Vulnerability Test Plan	Joint Assault Bridge (JAB) IOT&E 2 Operational Test Plan
Aegis Weapon System Baseline 5.4 Phase 1 Operational Test Plan	Limited Interim Missile Warning System Cybersecurity Cooperative Vulnerability and Penetration Assessment Test Plan
Aerosol and Vapor Chemical Agent Detector (AVCAD) Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan	Littoral Combat Ship (LCS) Independence Variant Surface Warfare Mission Package Increment 3 Initial Operational Test and Evaluation Test Plan
Aerosol and Vapor Chemical Agent Detector (AVCAD) Engineering Manufacturing Development Chemical Chamber Test Plan	M270A2 Improved Armored Cab (IAC) Live Fire Test Design Plan
Amphibious Assault Ship Replacement (LHA(R)) Flight 1 Operational Assessment Test Plan	M917A3 Heavy Dump Truck (HDT) Live Fire (LF) Test and Evaluation Change to the Test Design Plan
Amphibious Combat Vehicle (ACV) Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan	Military Health System (MHS) GENESIS Follow-On Operational Test and Evaluation (FOT&E) Plan
Amphibious Combat Vehicle (ACV) Initial Operational Test Plan	MK 54 Mod 1 Lightweight Torpedo Test Plan
Army Integrated Air and Missile Defense (AIAMD) Limited User Test and Adversarial Assessment Test Plan	Next Generation Jammer MID-Band AN/ALQ-249(V) Integrated Test, Data Collection Plan and Milestone C Report Test Plan
Ballistic Missile Defense System (BMDS) Integrated Master Test Plan (IMTP) version 21.1	Over the Horizon Weapon System (OTH-WS) Initial Operational Test and Evaluation (IOT&E) Test Plan
Blue Grass Chemical Agent Destruction Pilot Plant (BGCAPP) Test Evaluation Plan (TEP) for Operational Testing	RQ-4B Block Multi-Spectral Intelligence Operational Utility Evaluation Plan Deviation
Bradley M2A4/M7A4 Engineering Change Proposal 2a Follow-On Operational Test Operational Test Plan	RQ-7Bv2 Block III Shadow Tactical Unmanned Aircraft System Follow-On Operational Test Operational Test Plan
Defense Enterprise Accounting Management System (DEAMS) Oracle R12 Software Upgrade, Increment 1 Follow-On Test and Evaluation Plan	RQ-7Bv2 Tactical Unmanned Aircraft System (TUAS) Cooperative Vulnerability and Penetration Assessment Test Plan
Electronic Warfare Planning and Management Tool (EWPMT) Cooperative Vulnerability and Penetration Assessment (CVPA)	Soldier Protection System Vital Torso Protection Generation III X Small Arms Protective Insert First Article Test Plan
Extended Range Guided Multiple Launch Rocket System Rocket Test Design Plan	Stryker Anti-tank Guided Missile (ATGM) Engineering Change Proposal (ECP) Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan
F-22 Release 1 Force Development Evaluation (FDE) Test Plan	Stryker Anti-Tank Guided Missile (ATGM) Engineering Change Proposal Follow-on Operational Test Operational Test Plan
F-35 Initial Operational Test and Evaluation (IOT&E) Test Plan Change Request for Electronic Attack Test Events	Tomahawk Modernization OT-D-12 Test Plan
F-35 Modernization Block 4 Suitability Test Plan	TRIDENT II D5 Life Extension (D5LE) Demonstration and Shakedown Operations - 30 (DASO-30) Flight Test Support Plan for Operational Test and Evaluation
FFG(X) Guided Missile Frigate Live Fire Test and Evaluation Alternate Plan	VH-92A Cyber Test Plan and Classified Annex
Global Command and Control System - Joint (GCCS-J) Version (v) 6.0.1.x Cyber Survivability Test Plan Annex	VH-92A Initial Operational Test and Evaluation Test Plan
Global Positioning System III Space Vehicle/Contingency Operations (GPS III SV/COps) Operational Utility Evaluation (OUE) Test Plan	Wide Area Surveillance (WAS) Initial Operational Test and Evaluation (IOTE) Plan
Handheld, Manpack, and Small Form Fit (HMS) Cooperative Vulnerability and Penetration Assessment (CVPA) Test Plan	XM1147 Advanced Multi-Purpose (AMP) Armor Characterization Test Plan
High Altitude Anti-Submarine Warfare Weapon Capability (HAAWC) Test Plan	XM1158 Advanced Armor Piercing (ADVAP) Test Plan

LIVE FIRE TEST AND EVALUATION STRATEGIES/MANAGEMENT PLANS

FFG(X) Guided Missile Frigate Live Fire Test and Evaluation Strategy	Maritime Strike Tomahawk (MST) Live Fire Test and Evaluation Strategy
Initial Maneuver Short Range Air Defense (IM-SHORAD) Live Fire Test and Evaluation Strategy and Test Design Plan (TDP)	UH-1N Replacement Program Alternative Live Fire Test and Evaluation Strategy

FY20 DOT&E ACTIVITY AND OVERSIGHT

TABLE 1. FY20 REPORTS TO CONGRESS	
PROGRAM	DATE
Cybersecurity Reports	
Cyber Red Team Operations Classified Observations from Department of Defense Activities	September 2020
Early Fielding Reports	
Abrams M1A2 System Enhancement Package Version 2 (SEPV2) with Trophy Active Protection System (APS)	June 2020
Aegis Weapon System Advanced Capability Build (ACB) 16 Phase 0/Baseline 9A2A	March 2020
Over-the-Horizon Weapon System (OTH-WS)	February 2020
Follow-On Operational Test and Evaluation Reports	
Multi-static Active Coherent (MAC) System	September 2020
Military Health System (MHS) GENESIS	July 2020
Mobile User Objective System (MUOS)	October 2019
Version 6 of the AH-64E Apache Attack Helicopter II	October 2019
Initial Operational Test and Evaluation Reports	
Common Infrared Countermeasures (CIRCM)	September 2020
B61 Mod 12 Life Extension Program Tail Kit Assembly	September 2020
Littoral Combat Ship (LCS) with Increment 3 Surface Warfare (SUW) Mission Package	July 2020
Space-Based Infrared System (SBIRS) Block 20	July 2020
Space Fence Increment I	June 2020
Operational Assessment Report	
Integrated Visual Augmentation System (IVAS) Capability Set 2	May 2020
Special Reports	
Defense Enterprise Accounting and Management System Oracle Release 12 Software Upgrade	July 2020
Advanced Capability Build 2011 (ACB-11) Version of the AN/SQQ-89A(V)15 Surface Ship Undersea Warfare Combat System Cybersecurity Update to the December 2018 IOTE Report	March 2020
Hypersonic and Ballistic Tracking Space Sensor (HBTSS) Assessment of Test Strategy	March 2020
Assessment of Rapid Prototyping and Rapid Fielding Programs Test Strategies	February 2020
DOT&E Certification and Risk Assessment of Test Strategies for Navy Accelerated Acquisition Board of Directors (AA BoD) and Middle Tier Acquisition (804) Programs	January 2020
Ballistic Missile Defense System Report	
Fiscal Year 2019 Assessment of the Ballistic Missile Defense System (BMDS)	February 2020

FY20 DOT&E ACTIVITY AND OVERSIGHT

TABLE 2. OTHER FY20 REPORTS (NOT SENT TO CONGRESS)	
PROGRAM	DATE
Cybersecurity Reports	
US INDO-PACIFIC COMMAND Cybersecurity Assessment	February 2020
U.S. European Command Cyber Readiness Campaign 2019 Green Team Summary	December 2019
2017-2019 Cybersecurity Assessment of Special Operations Command (USSOCOM)	December 2019
Early Fielding Report	
Distributed Aperture Infrared Countermeasures (DAIRCM) System	February 2020
Follow-on Operational Test and Evaluation Report	
E-2D Advanced Hawkeye (AHE) Delta System Software Configuration, Build 3 (DSSC-3) and Aerial Refueling	July 2020
Limited User Test Reports	
Public Key Infrastructure Increment 2	December 2019
Multi-Service Operational Test and Evaluation Report	
Small Diameter Bomb II (SDB II) Phase 1	July 2020
Operational Assessment Reports	
UH-60V Black Hawk	September 2020
Joint Air-to-Ground Missile (JAGM)	August 2020
Infantry Squad Vehicle (ISV)	June 2020
Joint Light Tactical Vehicle (JLTV) Family of Vehicles (FoV)	February 2020
Surface Mine Countermeasure Unmanned Undersea Vehicle (SMCM UUV) Program Knifefish OT-B1	January 2020
MQ-4C Triton OT-C1	December 2019
Defense Agencies Initiative (DAI) Increment 3 Release 1	November 2019
Global Command and Control System - Joint (GCCS-J) Operations Version 6.0.1.2	November 2019
Operational Test and Evaluation Reports	
Distributed Common Ground System – Army Capability Drop 1	April 2020
Quick Reaction Assessment Report	
Offensive Anti-Surface Warfare (OASuW) Increment 1 Long Range Anti-Ship Missile (LRASM)	March 2020