

# CONTENTS

Introduction	i
Mission	1
Executive Summary	3
Test and Evaluation Resources	15
DOD Programs	31
Department of the Army Programs	69
Department of the Navy Programs	141
Department of the Air Force Programs	239
Missile Defense System	299
DOT&E-Managed Activities	311
Appendix	363

# CONTENTS

Introduction . . . . .	i
Mission . . . . .	1
Executive Summary . . . . .	3
Test and Evaluation Resources . . . . .	15
DOD Programs . . . . .	31
Aerosol and Vapor Chemical Agent Detector (AVCAD) . . . . .	33
Digital Modernization Strategy (DMS) - Related Enterprise Information Technology Initiatives . . . . .	36
F-35 Joint Strike Fighter (JSF) . . . . .	41
Global Command & Control System - Joint (GCCS-J) . . . . .	52
Joint Biological Tactical Detection System (JBTDTS) . . . . .	55
Joint Cyber Warfighting Architecture (JCWA) . . . . .	58
Key Management Infrastructure (KMI) . . . . .	60
National Background Investigation Services (NBIS) . . . . .	62
Public Key Infrastructure (PKI) Increment 2 . . . . .	65
Department of the Army Programs . . . . .	69
120mm Advanced Multi-Purpose (AMP) Cartridge, High Explosive Multi-Purpose with Tracer, M1147 . . . . .	71
Abrams M1A2 System Enhancement Package version 4 (SEPV4) Tank . . . . .	73
Active Protection System (APS) for Abrams and Bradley . . . . .	75
Armored Multi-Purpose Vehicle (AMPV) . . . . .	78
Army Integrated Air & Missile Defense (AIAMD) . . . . .	80
CH-47F Block II Chinook . . . . .	83
Command Post Computing Environment (CPCE) . . . . .	86
Dismounted Assured, Positioning, Navigation, and Timing System (DAPS) . . . . .	89
Distributed Common Ground System – Army (DCGS-A) Capability Drop 2 (CD2) . . . . .	92

Electronic Warfare Planning and Management Tool (EWPMT) . . . . .	95
Future Long Range Assault Aircraft (FLRAA) . . . . .	98
Handheld Manpack and Small-Form Fit (HMS) Programs – Leader Radio and Manpack . . .	100
Infantry Squad Vehicle (ISV) . . . . .	103
Integrated Personnel and Pay System – Army (IPPS-A) Increment 2 . . . . .	105
Integrated Visual Augmentation System (IVAS). . . . .	108
Javelin Antitank Missile System – Medium . . . . .	111
Joint Air-to-Ground Missile (JAGM) . . . . .	114
Joint Assault Bridge (JAB). . . . .	117
Limited Interim Missile Warning System (LIMWS). . . . .	119
Mobile Protected Firepower (MPF) . . . . .	122
Mounted Assured, Positioning, Navigation, and Timing System (MAPS) . . . . .	125
Soldier Protection System (SPS). . . . .	127
Stryker Family of Vehicles (FoV) . . . . .	130
Stryker Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Sensor Suite Upgrade (SSU) . . . . .	132
Terrain Shaping Obstacles (TSO). . . . .	135
UH-60V Black Hawk Digital Cockpit . . . . .	138

## Department of the Navy Programs . . . . . 141

Acoustic Rapid Commercial-off-the-Shelf Insertion (A-RCI). . . . .	143
Advanced Anti-Radiation Guided Missile – Extended Range (AARGM-ER) . . . . .	146
Aegis Modernization Program . . . . .	148
Air Warfare (AW) Ship Self-Defense Enterprise . . . . .	151
Amphibious Combat Vehicle – Command and Control Variant (ACV-C) . . . . .	154
CH-53K King Stallion . . . . .	156
CMV-22B Joint Services Advanced Vertical Lift Aircraft – Osprey – Carrier Onboard Delivery . . . . .	160
Conventional Prompt Strike . . . . .	163
CVN 78 <i>Gerald R. Ford</i> -Class Nuclear Aircraft Carrier . . . . .	166
DDG 1000 – <i>Zumwalt</i> -Class Destroyer . . . . .	172
E-2D Advanced Hawkeye . . . . .	175

Evolved Sea Sparrow Missile (ESSM) Block 2 .....	178
F/A-18 Infrared Search and Track (IRST) Block II. ....	181
F/A-18E/F Super Hornet and EA-18G Growler .....	183
FFG 62 <i>Constellation</i> Class – Guided Missile Frigate .....	186
LHA 6 Flight 0 Amphibious Assault Ship. ....	189
Littoral Combat Ship (LCS). ....	192
Mk 48 Torpedo Modifications .....	195
Mk 54 Lightweight Torpedo Upgrades Including the High Altitude Anti-Submarine Warfare Weapon Capability (HAAWC) .....	198
MQ-4C Triton .....	201
MQ-8 Fire Scout .....	204
Multi-Functional Information Distribution System (MIDS) .....	206
Next Generation Jammer Mid-Band (NGJ-MB) .....	209
Offensive Anti-Surface Warfare (OASuW) Increment 1 .....	212
Over-The-Horizon Weapons System (OTH-WS) .....	215
Ship Self-Defense System (SSDS) Mk 2 Integrated Combat Systems .....	217
Ship to Shore Connector (SSC) .....	221
Standard Missile 2 (SM-2) Block IIIC. ....	224
Standard Missile-6 (SM-6) Family of Missiles .....	226
Trident II (D-5) Sea-Launched Ballistic Missile – Life Extension Program Variant .....	229
Unmanned Influence Sweep System (UISS) .....	231
USSOCOM Dry Combat Submersible (DCS) Now .....	233
VH-92A® Patriot™ Presidential Helicopter .....	235

## Department of the Air Force Programs..... 239

Advanced Pilot Training (APT). ....	241
AGM-183A Air-Launched Rapid Response Weapon (ARRW). ....	244
AIM-120 Advanced Medium-Range Air-to-Air Missile (AMRAAM) .....	247
Air Operations Center – Weapon System (AOC-WS) .....	249
B-52 Radar Modernization Program (RMP) .....	253
B-52H Commercial Engine Replacement Program (CERP) .....	255

Defense Enterprise Accounting and Management System (DEAMS) . . . . .	258
F-15 Eagle Passive Active Warning and Survivability System (EPAWSS) . . . . .	261
F-15EX Eagle II . . . . .	264
F-16 Radar Modernization Program (RMP) . . . . .	268
F-22A – Raptor Advanced Tactical Fighter Aircraft . . . . .	271
Global Positioning System (GPS) Enterprise . . . . .	274
HH-60W Jolly Green II . . . . .	278
KC-46A Pegasus . . . . .	281
Massive Ordnance Penetrator (MOP) Modification . . . . .	285
MH-139A Grey Wolf . . . . .	287
Small Diameter Bomb Increment II . . . . .	291
Space Command and Control System (Space C2) . . . . .	294
Three-Dimensional Expeditionary Long-Range Radar (3DELRR) . . . . .	297

**Missile Defense System . . . . . 299**

**DOT&E-Managed Activities . . . . . 311**

Center for Countermeasures (CCM) . . . . .	313
Cyber Assessment Program (CAP) . . . . .	318
International Test and Evaluation Program (ITEP) . . . . .	328
Joint Aircraft Survivability Program (JASP) . . . . .	338
Joint Technical Coordinating Group for Munitions Effectiveness (JTCEG/ME) Program . . . . .	343
Joint Test and Evaluation (JT&E) . . . . .	353
Test and Evaluation Threat Resource Activity (TETRA) . . . . .	358

**Appendix . . . . . 363**

Oversight List . . . . .	365
DOT&E Activities . . . . .	373
Service Secretary Comments . . . . .	383
Index of Programs . . . . .	391