Test and Evaluation
The Key to Successful Acquisition Outcomes

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DHS Test & Evaluation Year in Review

- FEMA Logistics Supply Chain Mgmt System FOT&E
- USCG Polar Icebreaker Model Testing
- CBP TECS Modernization IOT&E
- USCG NSC FOT&E

- TSA Automated Screening Lanes UON Operational Utility Assessment
- USCG MH-65 OA
- CBP Wall Prototype Testing
- USCG 47’ Motor Lifeboat
• End-to-end supply chain management for critical disaster assets and commodities.
• LSCMS provides situational awareness and in-transit visibility into the entire supply chain, request for assets and commodities, orders to FEMA and partners, transportation, inventory management
• Conducting FOT&E Feb – June 2018
The United States has vital national interests in the polar regions.
- defense readiness in Arctic and Antarctic regions;
- provide logistical support, including vessel escort, to facilitate movement of goods and personnel necessary to support scientific research, commerce, national security activities and maritime safety.

US Coast Guard Heavy Icebreaker Polar Star
- Commissioned 1976.
- Only active heavy icebreaker in the fleet.

Polar Star has completed five Operation Deep Freeze deployments to resupply McMurdo Station in Antarctica.
Coast Guard expects Polar Star to remain in service through approximately 2020 to 2023.
In Fall 2017, program completed tow-tank testing at NSWC Carderock.
CBP TECS Modernization

- Primary traveler screening tool at 329 Ports of Entry (POE) in the U.S. and 15 preclearance offices outside the U.S.
- OT&E occurred in operationally active land, sea, and air ports of entry over 7 months

Dallas-Fort Worth, TX Air POE
San Ysidro, CA Land POE
Fort Lauderdale, FL Sea POE
USCG National Security Cutter

- Centerpiece of the Coast Guard fleet; replaces the 378-foot high endurance cutters, which have been in service since the 1960s
- FOT&E November-December 2017
- Cybersecurity CVPA February – March 2018
- Cybersecurity Adversarial Assessment August 2018
TSA Automated Screening Lanes

- TSA Urgent Operational Need (UON) for Automated Screening Lanes (ASL) to speed throughput at aviation security checkpoints.
- ASL system consists of
  - currently fielded Advanced Technology (AT) carry-on baggage screening system
  - multiple divestment stations
  - updated Primary and Alternate Viewing Station user interface
  - data reporting system
  - automated tray-handling
  - bin return system
  - automated bin diverter
- Conducted *Operational Utility Assessment* in April 2017
**USCG MH-65**

- MH-65 Dolphin is a short range recovery helicopter that conducts search and rescue and law enforcement missions.
- Final segment of upgrades to modernize the automatic flight control system, digital display cockpit, and new electro optical and infrared sensors.
- Completed OA February 2018
The Wall

- Impede and deny adversaries freedom of movement as a function of border security.
- Influence and control the border environment and initiate a timely response to detected illicit activity.
- Prototype testing conducted Jan 2018
USCG 47’ Motor Lifeboat

- Primary search and rescue platform in surf and heavy weather conditions.
- Fleet of more than 100 MLBs is approaching end of its planned 25-year service life.
- SLEP will extend the useful life of the MLB by 20 years.

47’ MLB in Rough Seas

47’ MLB Self-Righting Test
Workforce Development

• Operational Test Director Course
• New T&E Career Field Track: T&E for Information Technologies
• Inaugural DHS T&E Managers Symposium
• Cybersecurity T&E Continuous Learning Module
• Scientific Test and Analysis Techniques Workshop
• IEF Workshop
• Reliability Workshop

Key to success: highly skilled Test and Evaluation workforce
If you want to know your system works, you have to test it. If you want to know with confidence, you have to plan, resource, and conduct T&E accordingly.

Homeland Security Operators are counting on us to get it right.
47’ MLB in Rough Seas
47’ MLB Self-Righting Test