

Department of Homeland Security Testing and Evaluation

Serving the Warfighter



Homeland Security

Science and Technology

March 15, 2011

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Approved by OCC (CCD)

Agenda

- DHS Warfighters

- Department of Defense and Department of Homeland Security Testing & Evaluation
 - Similarities
 - Differences

- Conclusion



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United States Coast Guard

USCG safeguards our Nation's maritime interests in the heartland, in the ports, at sea, and around the globe. They protect the maritime economy and the environment, they defend our maritime borders, and they save those in peril.



MH-65 Helicopter
U.S. Coast Guard photo by Petty Officer 3rd Class Sabrina Elgammal

HH-60 Helicopter
U.S. Coast Guard photo by Petty Officer 3rd Class David Weydert



Response Boat
U.S. Coast Guard photo by Petty Officer 3rd Class Erik Swanson



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Transportation Security Administration

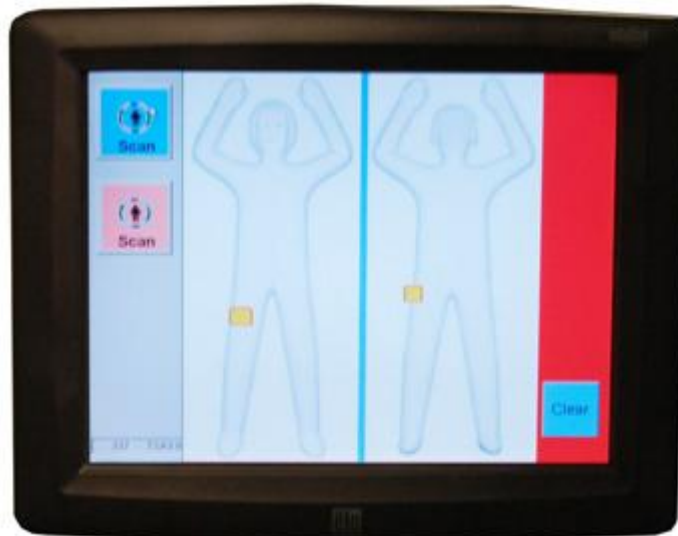
TSA protects the Nation's transportation systems to ensure freedom of movement for people and commerce.



Backscatter X-Ray Technology
TSA Photo



Millimeter Wave detection Technology
TSA Photo

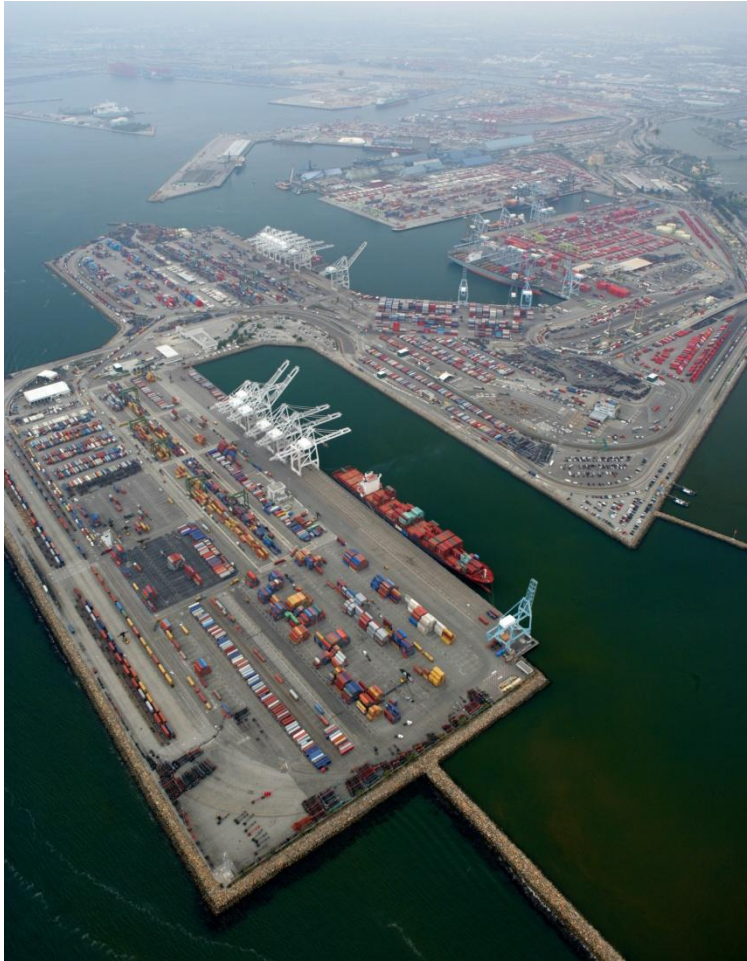


Advanced Imaging Technology
TSA Photo



Customs and Border Protection

CBP protects America's way of life while collecting revenue, enforcing intellectual property and other laws at the border, and facilitating legitimate commerce and travel.



Port of Long Beach, the largest and busiest port in the US, is one location where OT is planned for CBP **Advanced Spectroscopic Portal** radiological/nuclear detection equipment.

Photos Courtesy CBP



Immigration and Customs Enforcement

ICE promotes homeland security and public safety through the criminal and civil enforcement of federal laws governing border control, customs, trade, and immigration.





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United States Secret Service

Dual mission “to safeguard the nation's financial infrastructure and payment systems to preserve the integrity of the economy, and to protect national leaders, visiting heads of state and government, designated sites and National Special Security Events.”

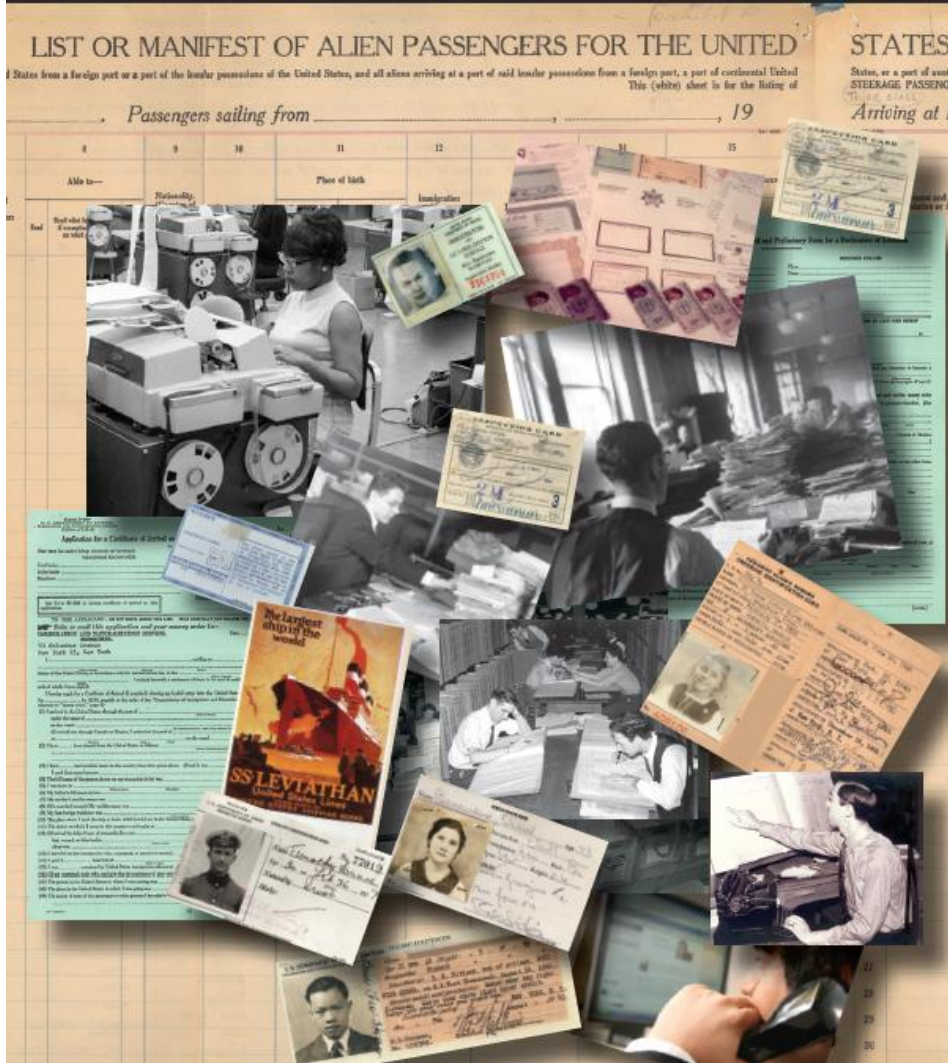




Homeland U.S. Citizens and Immigration Services Security

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USCIS provides accurate and useful information, grants immigration and citizenship benefits, promotes an awareness and understanding of citizenship, and ensures the integrity of our immigration system.



OMB No. 1615-0008; Expires 06/30/2011

G-325, Biographic Information

Birth
yyyy)

Citizenship/Nationality

File Number

OMB No.1615-0037; Expires 01/31/12

I-730, Refugee/Asylee Relative Petition

USCIS OFFICE ONLY

OMB 1615-0096; Expires 04/30/2012

G-1041A, Genealogy Records Request



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Federal Emergency Management Agency

FEMA supports the citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards.



Natural Disaster requiring intensive FEMA planning and coordination aided by **integrated IT systems**

FEMA photo by Bob McMillan



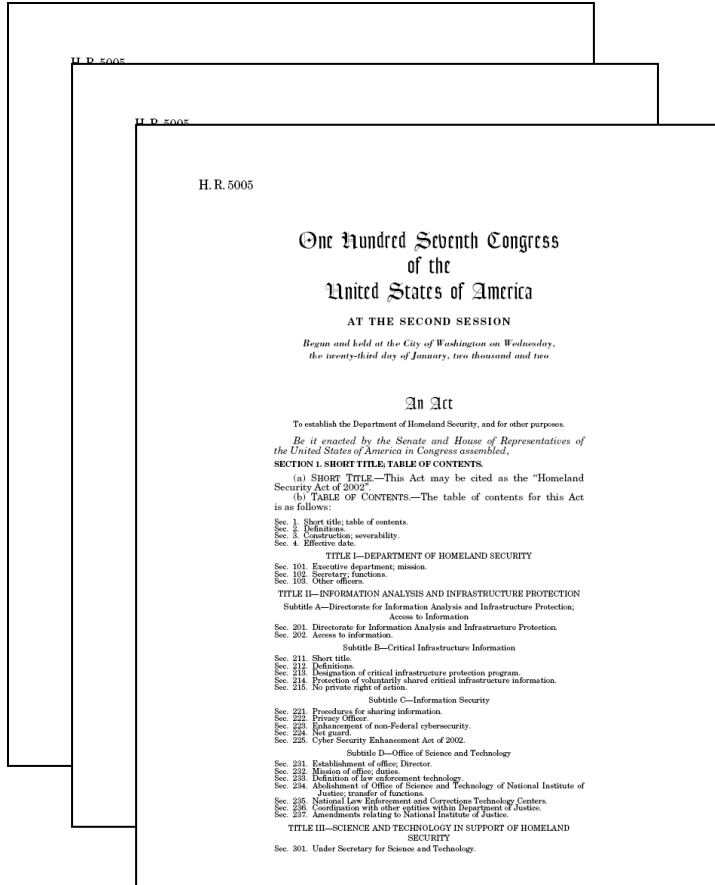
FEMA photo by Aaron Skolnik



FEMA photo by Bill Koplitz



- Acquisition Policy
 - DoD Directive 5000
 - DHS Directive 102
- Acquisition Framework
 - Both Phase/Gate Processes with Acquisition Decisions
- Acquisition Categories
 - DoD based on RDT&E Cost
 - DHS based on Lifecycle Cost
- Acquisition Certification
 - DoD Defense Acquisition University
 - DHS developing Certification Processes and Courses
- Require Operational Test and Evaluation
 - DoD by law - Title X
 - DHS by policy - Directive 026 Test and Evaluation
- Have a DOT&E
 - DoD by law - Title X
 - DHS by delegation – Delegation 10003



Sec. 302 (12) S&T responsible for “...coordinating and integrating all research, development, demonstration, testing, and evaluation activities of the Department ...”



No DHS Operational Test Agency

- Component internal test organization
- DoD OTAs
- Non-system contractors



*Systems Under Test often Interface
Directly with the Public*

- Systems must not only detect, but cannot hold up commerce
- Cannot invade “privacy”
- Public opinions often in the news



Operational Testing Conducted in Actual Environment

- Must continue to do mission
- Cannot interfere with daily operations
- Test may encounter actual threat
 - Explosives
 - Undocumented aliens
- Tests very realistic but Tester loses some control
- Must follow SOPs in place even if they don't make sense



DHS and DoD Test & Evaluation Differences

*Systems Under Test may be Tested but not
Acquired by DHS*

- Qualified Product List
 - OT multiple vendors
 - Additional vendors may require OT later

Some DHS Warfighters are Local First Responders

- System Assessment or Validation of Emergency Responder (SAVER) equipment
 - Conducts impartial, practitioner-relevant, operationally oriented assessments and validations of commercial off-the-shelf equipment that falls within the categories listed in the DHS Authorized Equipment List (AEL).
- Standards/Conformity Assessment
 - GRaDER- Graduated Rad/Nuc Detector Evaluation and Reporting





Conclusion

Although DHS and DoD T&E have unique challenges, both support the “Warfighter”



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