

Science and Technology Directorate Standards Portfolio

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Challenges, Needs and Priorities in
Homeland Security

ANSI

October 1, 2003



Homeland
Security

Directive for Developing Standards from the OHS National Strategy for Homeland Security (July 2002)

“Set standards for homeland security technology.

...build mechanisms for analyzing, validating, and setting standards for homeland security equipment...

...develop comprehensive protocols for certification of compliance with these standards...”



Department of Homeland Security - Organization

**Secretary
&
Deputy Secretary**

- Coast Guard
- Secret Service
- Citizenship & Immigration & Ombudsman
- Civil Rights and Civil Liberties
- Legislative Affairs
- General Counsel
- Inspector General
- State & Local Coordination
- Private Sector Coordination
- International Affairs
- National Capital Region Coordination
- Counter-narcotics
- Small and Disadvantaged Business
- Privacy Officer
- Chief of Staff

**Information
Analysis &
Infrastructure
Protection**

**Science &
Technology**

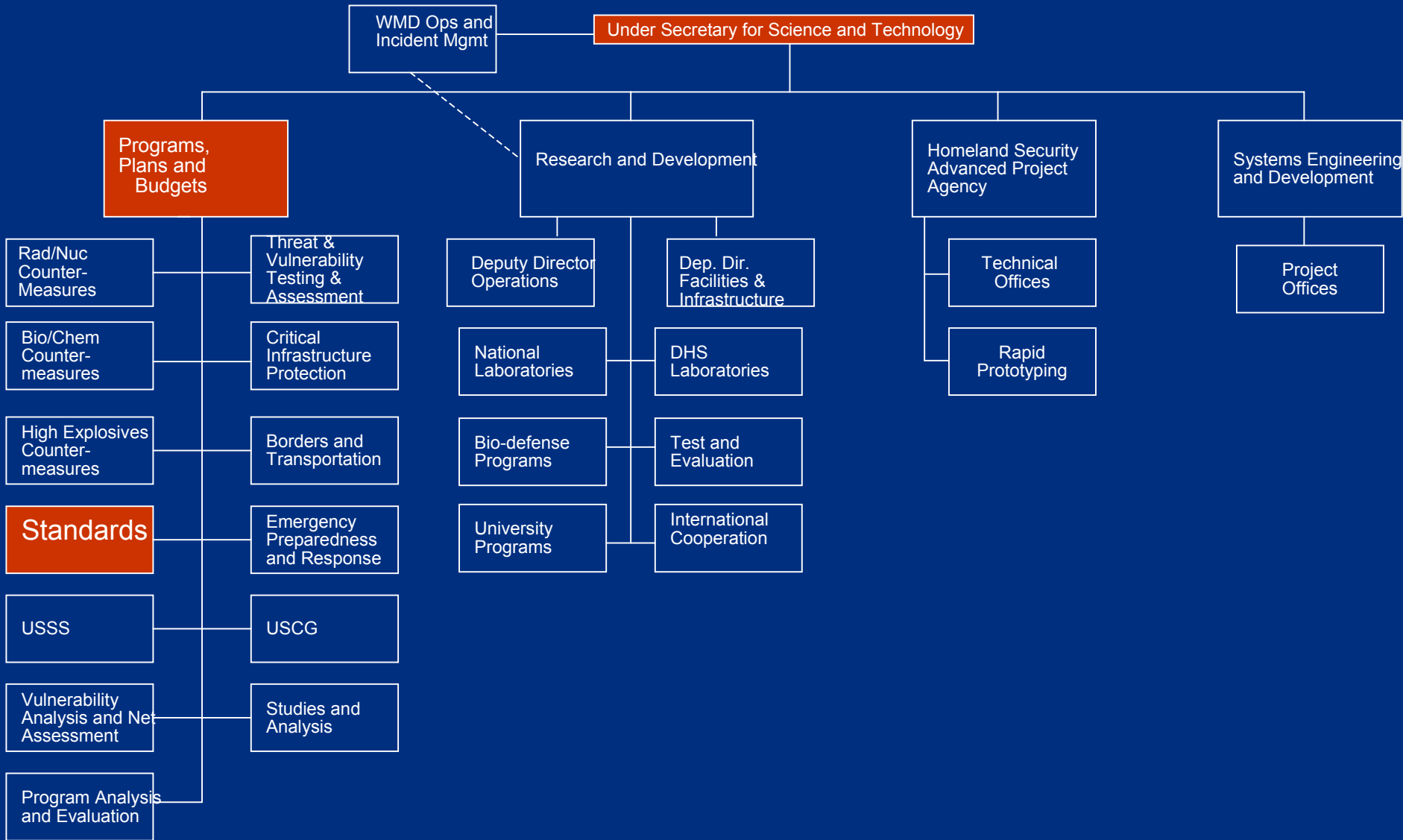
**Border &
Transportation
Security**

**Emergency
Preparedness
& Emergency
Response**

Management



**Homeland
Security**



Objective for DHS S&T Standards Program

Ensure effectiveness of all components of systems employed to provide homeland security.



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Objective for DHS S&T Standards Program *- con't*

- Effectiveness encompasses:
 - Basic Functionality
 - Adequacy for task
 - Interoperability
 - Efficiency
 - Sustainability

Objective for DHS S&T Standards Program *- con't*

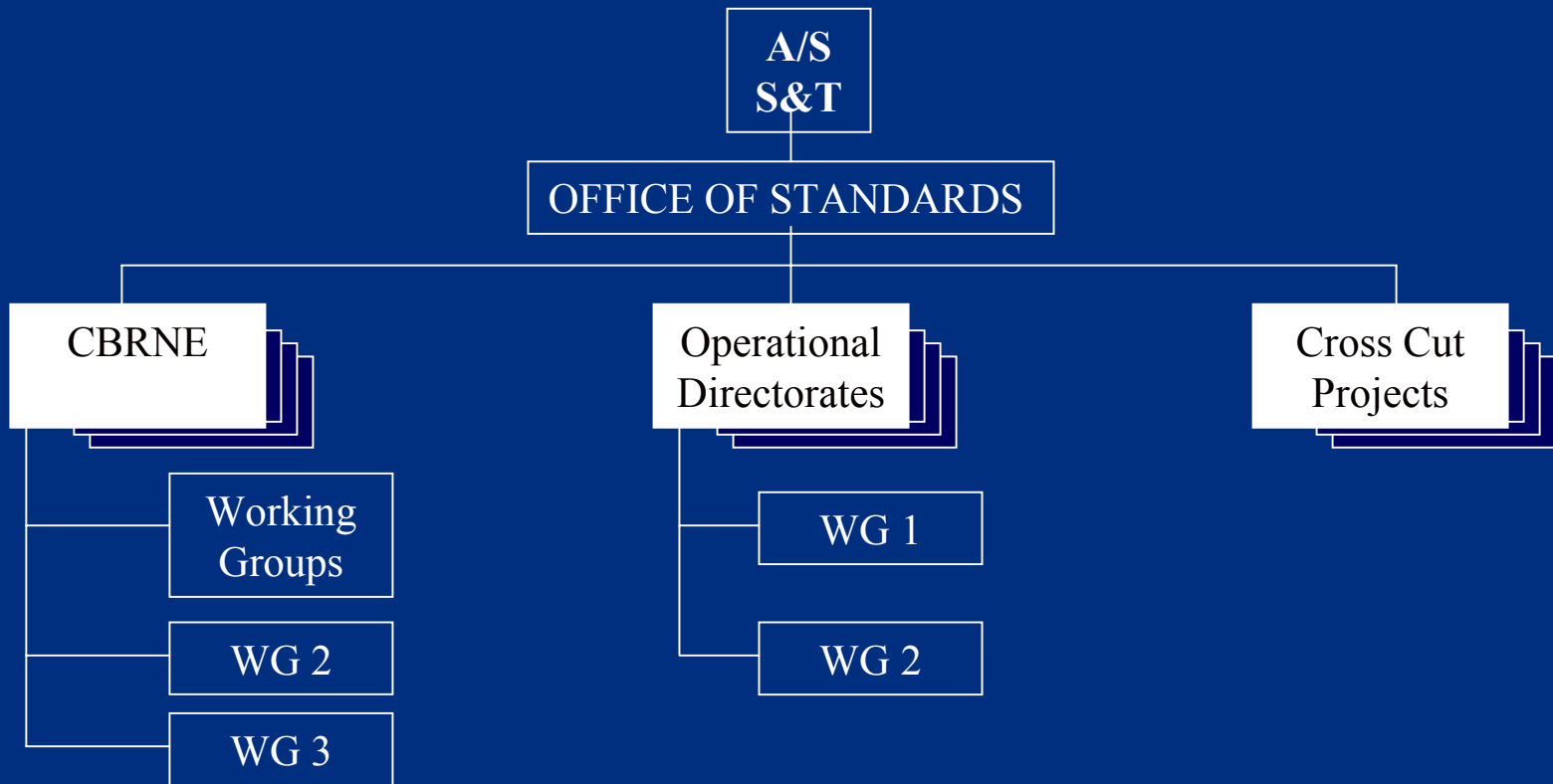
- Systems include:
 - Instruments and instrument systems
 - Operators
 - Software and computational models and analyses
 - Information and data



Customer Driven Program Planning

- Stakeholders include
 - Portfolio managers who identify CBRNE threats
 - Three operational directorates (BTS, EPR/FEMA, IAIP)
 - Other DHS components (CIO, Coast Guard)
 - Emergency responder communities
 - Fire protection
 - Law enforcement
 - Emergency medical services





Threats (CBRNE)

- Radiological/Nuclear
- Biological
- High Explosives
- Chemical

Operational Directorates

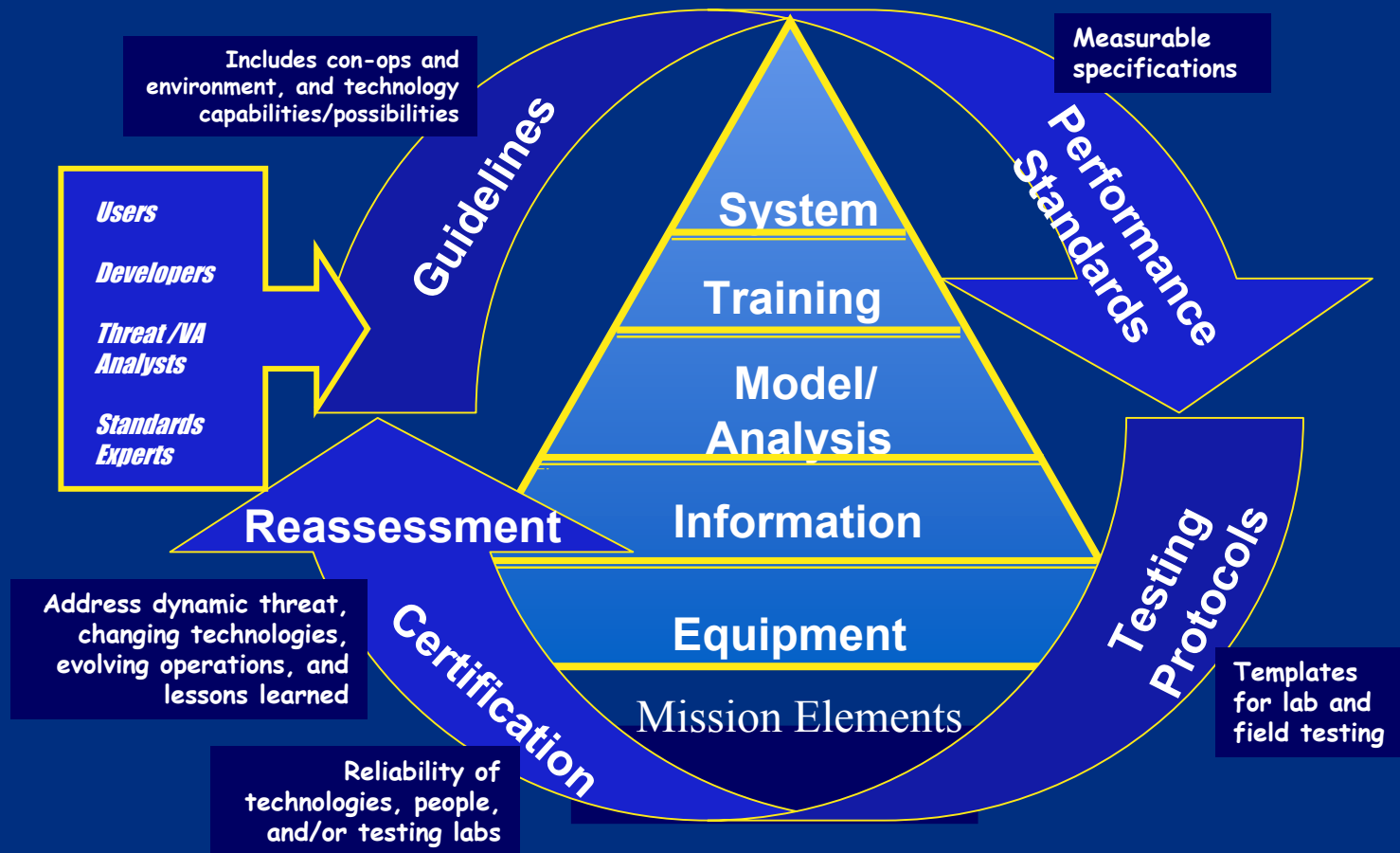
- BTS (biometrics)
- EP&R (decon)
- IAIP (CIP and Cyber)
- Coast Guard (UAVs)

Cross Cut Projects

- Certification
- Communications
- PPE
- Training



Process for Managing DHS Standards for All Elements of the Mission



The absence of standards is creating confusion for the users



Does this work?



Does this solve the right problem?



How do I test this?

NOW AVAILABLE!

Radiation/Multi-Toxin Detection Meter

\$299.99*

- Advanced Radiation and Bio-Chemical Agent Protection!
- Industry Leading Working Duration
- Completely Self-Contained
- Compact and Innovative Design

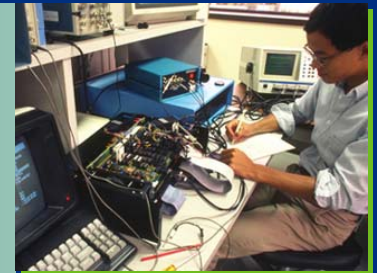


* Special GSA rates on request

How do I use this?



Will this work with my other devices?



Should I buy this?
How do I comparison shop?



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Activities Ongoing in the DHS S&T Standards Portfolio

- Radiation detectors – IEEE ANSI N42
- Biological detectors – AOAC International
- Certification & Accreditation – NIST
- Standards Database – ANSI
- SAFETY Act coordination (update)

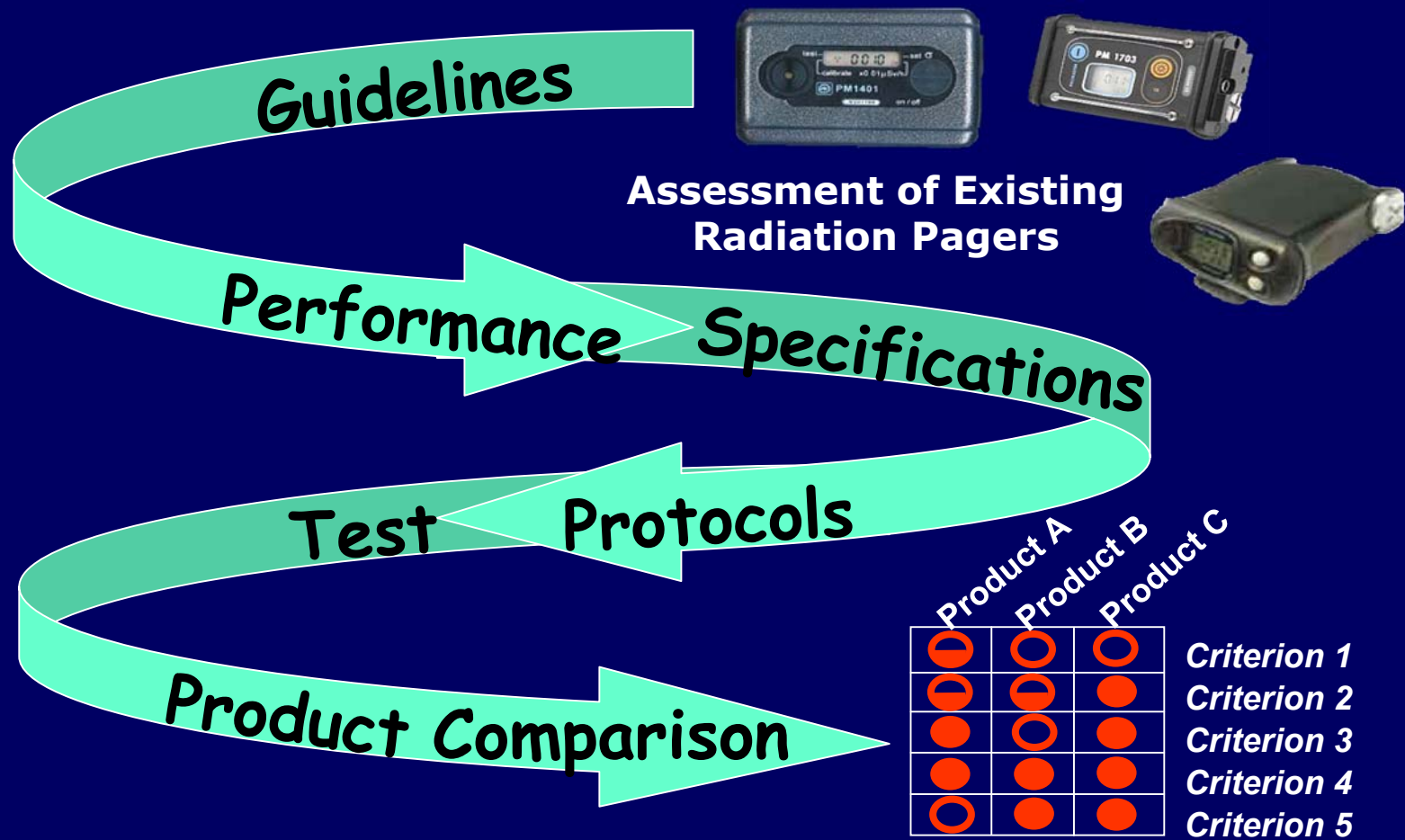


Activities Ongoing in the DHS S&T Standards Portfolio

- Radiation detection
 - ANSI Draft Standards balloted in September 2003:
 - ANSI N42.32 Performance Criteria for Alarming Personal Detectors
 - ANSI N42.33 Radiation Detection Instrumentation for Homeland Security
 - ANSI N42.34 Hand-Held Instruments for the Detection and Identification of Radioactive Isotopes
 - ANSI N42.35 Detection Portal Monitors for Use in Homeland Security
 - Compilation of USG and other test data underway
 - Draft Test and Evaluation protocols are under development at National Laboratories



Process to Develop User Guidance on Existing Technologies



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Activities Ongoing in the DHS S&T Standards Portfolio

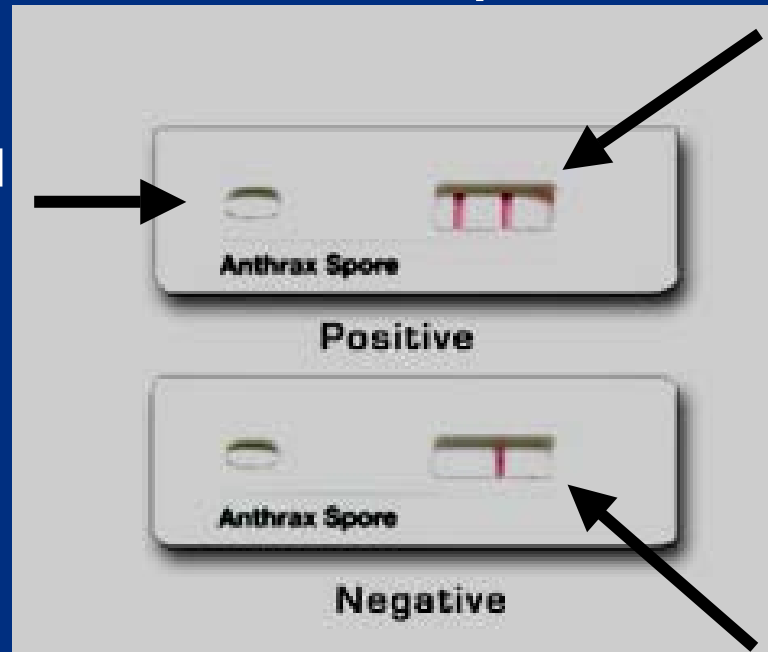
- Biological Detection
 - Contract with AOAC International to develop standards for anthrax immunoassay kits – partnering with DoD
 - Task Force formed federal, state and local stakeholders + private sector and universities
 - Reference laboratory selected – Dugway Proving Grounds
 - Six commercial hand-held immunoassays undergoing reference laboratory testing



Basic Hand-Held Assay: Lateral flow immunoassay device

Samples with Anthrax will
produce two colored lines

Samples are deposited
in the well here



Samples with no Anthrax will
produce one colored line



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Activities Ongoing in the DHS S&T Standards Portfolio

- Contract with NIST Standard Services Division to develop models for product and services certification
- Contract with ANSI to develop multi-dimensional data base of standards related to homeland security
- Standards Development Organizations ongoing (ANSI HSSP)
- Participation in US Government – InterAgency Committee on Standards Policy (ICSP)



What about SAFETY Act?



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Objective of SAFETY Act

- The SAFETY Act reflects the intent of Congress to ensure that the threat of liability does not deter potential Sellers of ATTs from developing and commercializing technologies that could significantly reduce the risks or mitigate the effects of large-scale acts of terrorism.
- Thus the Act creates certain liability limitations for “claims arising out of, relating to, or resulting from an act of terrorism” where qualified ATTs have been deployed.



National SAFETY Act Seminars



Dallas, TX Sept. 22

Los Angeles, CA Sept. 23

Atlanta, GA Sept. 24

Chicago, IL Sept. 26

Washington, DC Oct. 14

Science & Technology Directorate 202-205-4934



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Topics Addressed in This Presentation

- What is the SAFETY Act?
- What types of protection are offered by the SAFETY Act?
- What are the criteria that must be satisfied?
- What are the post-designation responsibilities of Sellers?
- How may SAFETY Act protections be renewed and transferred?



Key Questions about the Application Process

- What **objectives** does DHS have for the SAFETY Act application process?
- What are the **steps** in the process?
- What is DHS doing to **inform me** about the process?
- What is a “**Pre-Application**” and how does it benefit me?
- What do I need to do **to apply** for a Designation or for a Certification?
- What kind of **notifications** does DHS provide to me?
- What is DHS doing to protect my **company proprietary** information? What about **classified** information?



Application Kit

- An Application Kit is provided by DHS as a service to potential applicants.
- The kit contains all background information, forms and instructions required for:
 - Registration
 - Pre-Application
 - Designation Application
 - Certification Application



Methods for Submitting Applications

- **SAFETY Act web site** → www.safetyact.gov
 - Automatic e-mail notifications
 - No risk of translation issues during paper scanning process
 - No delay in evaluation process
- **Mail to** → **Department of Homeland Security**
ATTN: SAFETY Act
245 Murray Lane, Building 410
Washington, DC 20528
 - Hard copy (type-written paper copies only!)
 - ✓ DHS will convert to electronic format
 - Soft copy (CD-ROM only!)
 - Subject to security screening
 - ✓ will delay start of evaluation process



Accessing the SAFETY Act Website



The screenshot shows the homepage of the SAFETY Act website. At the top left is the Department of Homeland Security seal. The main header reads "Homeland Security SAFETY Act" with a navigation menu including "About", "FAQs", "Help Topics", and "Help Request". Below this is a banner with the text "SAFETY Act Support Anti-terrorism by Fostering Effective Technologies Act of 2002 (SAFETY ACT)" and an image of the Statue of Liberty. A secondary navigation bar includes "Home", "Reference Materials", "Security/Privacy Notice", "DHS.gov", and "Login". The main content area features a section titled "Homeland Security Subtitle G of Title VIII of the Homeland Security Act of 2002 The Support Anti-terrorism by Fostering Effective Technologies Act of 2002 (SAFETY Act)". This section contains introductory text about the act's purpose, a statement of intent to ensure developers are not deterred, and instructions on how to use the website. A "POPUP BLOCKERS" warning is present, stating that users must disable all popup blockers to submit an application. At the bottom of the content area is a "Security Notice" box with a warning about unauthorized attempts to upload or change information.

- www.safetyact.gov
- 128-bit SSL encryption
- COI/NDA agreements per application (pre, QATT, GCD)
- Disable popup blocker software when using SAFETY Act application
- **NO CLASSIFIED DATA!**



Getting Help



- SAFETY Act website: www.safetyact.gov
 - **FAQs**
 - Online **Help Topics**
 - **Help Request** - on-line form sent to Help Desk for response
- E-mail: helpdesk@safetyact.gov
- Toll Free Phone: **1-866-788-9318**

