

# DoD CBRN Defense (CBRND) T&E Standards Process



## ANSI-Homeland Security Standards Panel CBRNE Standards Workshop

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# Strategic Guidance for T&E Standards



“It is essential for the Nation to have reliable CBRNE equipment that can be used with confidence for the protection of life, health, property, and commerce. The United States Government will, together with commercial and end-user communities, facilitate the development and implementation of national consensus standards, and *develop an enduring capability to coordinate, prioritize, and implement CBRNE standards.*”

*“A National Strategy for CBRNE Standards”  
National S&T Council, Subcommittee on Standards  
Signed by President’s Science Advisor 17 May 11*



# DoD CBRND T&E Standards



- **Army T&E Executive “dual-hatted” as the CBRND T&E Executive for DoD**
  - Responsible for *adequacy of test to include establishment of DoD CBRND T&E Standards*
- **CBRND T&E Standards implemented through Test and Evaluation Capabilities and Methodologies Integrated Process Team (TECMIPT)**
  - Made up of subject matter experts from DoD Joint CBRND Enterprise, academia, and other federal agencies
  - Coordinated with International partners
  - Aligned with White House NSTC SoS CBRNE Working Group goals
- **TECMIPT has evolved to support National CBRNE Strategy**
  - 2005 - Joint Service TECMIPT established to identify CB Defense T&E capability/infrastructure gaps to inform annual budgeting process and T&E strategies
  - 2009 - TECMIPT role expanded to include development of CB T&E Standards across six capability areas
  - 2010 - **TECMIPT began Whole of Government approach** with 13 DoD organizations and 14 non-DoD agencies actively involved in collaborative CBRND T&E Standards development
  - 2011 - Three new capability areas added; Bio-Surveillance, Rad/Nuc, Advanced Threats

**CBRND T&E Executive establishes T&E Standards through the TECMIPT**



# T&E Standards Documents Developed/Reviewed by CAPATs



## T&E Infrastructure REQUIREMENTS

### T&E Capability Needs (TECN):

- T&E Strategy (How will data be used?)
- Prioritized requirements

*Develop/provide concurrence on requirements documents for T&E infrastructure*

## T&E Infrastructure VERIFICATION/VALIDATION

### T&E Infrastructure Verification & Validation Plan

Validate TECN requirements are met

### Verification & Validation Data

### T&E Infrastructure Verification & Validation Report

*Review V&V plan, data, provide final report input/concurrence*

## T&E METHODOLOGIES

### Test Operating Procedure (TOP)

*Develop/review/ provide concurrence on T&E methodologies*

**Three pronged approach to establish Pedigree of Data**

# CBRND Interagency TECMIPT



**NIST**





# Status of Current Efforts



- **26 T&E Standards Documents approved, including two interagency Test Operations Procedures (Rad/Nuc Detection, Dosimetry)**
  - 46 in process across 8 CAPATs
- **Commercial Off The Shelf (COTS) Standardized Test Programs being developed for Rad/Nuc Detectors**
  - DoD, DHS/DNDO, DOE collaborative effort
  - GRaDER Program being adjusted to meet DoD/DOE needs for system performance characterization
    - Allows for “fit for purpose” procurement across federal government
- **Working with NIST to:**
  - Provide SES level concurrence on TECMIPT interagency standards
  - Provide guidance for ISO certification/accreditation of chemical labs at West Desert Test Center (Dugway Proving Ground)
  - Design a COTS Standardized Test Program for chemical detectors



# QUESTIONS?