



Joint CBRND Requirements



2015 NDIA CBRN Defense Conference & Exhibition

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- **Mission / Functions**
- **Non-Materiel Efforts**
- **Requirements Development Trends**
- **Development Opportunities**
- **Questions & Discussion**

JRO Functions & Mission

- **Lead joint CBRN defense equipment (CDE) and medical CDE capabilities development**
- **Develop and maintain the CBRN defense Overarching Operational Concept**
- **Represent the Services and Combatant Commanders in JCIDS and act as their proponent for coordinating and integrating CBRND operational capabilities**
- **Lead development of DOD CBD POM**
- **Develop the CBRND Modernization Plan**
- **Conduct CBRN Operational Risk Assessment**
- **Facilitate development of joint CBRN defense doctrine, training, senior leader education, and sponsor development of multi-service doctrine**
- **Oversee, manage, and sponsor concept experimentation**

CJCS focal point for CBRN defense concepts, requirements, and chem-bio defense programming to advance Joint Force capability to counter WMD.

Non-Materiel Efforts



- **Bio-Surveillance Architecture submittal – 31 JUL**
- **Joint Concept Development**
 - **Prevent the Use or Transfer of WMD – 31 JUL OPSDEPS**
 - **Operations in CBRN Environments – Prospectus submit Aug 15**
- **Bio and NTA CONOPS Revision**
- **Quick Look Studies:**
 - **Completed: Toxins; Encapsulation; NTA 3A & 3B; Anti-materiel Agents**
 - **In progress: Emerging Infectious Diseases; Synergistic Agents; Enhanced Viruses; Enhanced Bacteria**
- **Chemical Challenge Level Study – 1st chapter due in Aug**
- **Risk Assessments**
 - **CASSANDRA Homeland: 26-27 AUG**

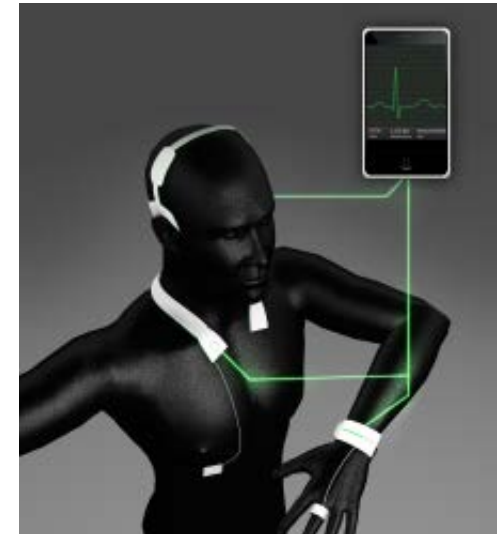
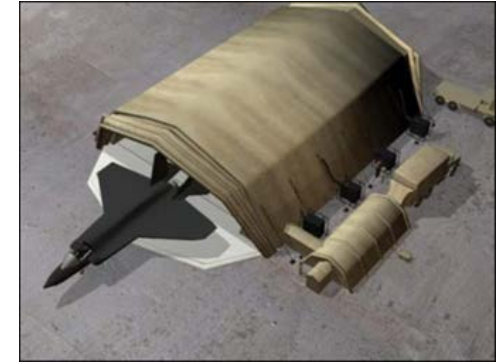
Requirements Development Trends

- Increasing focus on:
 - System survivability to include cyber
"the system must be able to survive and operate in a cyber-contested environment"
 - Life cycle costs
 - Power sources / requirements
 - Upgradability
- Reduce vaccine program risk through specificity
 - Encephalitis
 - Filovirus
- Cost - Performance "trade space" identification
- Evolving thinking on Capability Development and Risk Mitigation
 - Capability Sets
 - Early Warning ≠ Standoff Detection
 - "Health Map" example



Development Opportunities

- **Aircraft Contamination Survivability**
 - Decontamination
 - Patient/Remains Transportation
- **Uniform Integrated Protective Ensemble**
- **Mass Casualty Decon**
- **Coatings**
- **Wearable sensors**
- **Almost anything addressing NTA threats**



Questions & Discussion



Matériel Efforts: CBRND Core Capabilities Areas

SENSE

- Chemical Detection
- Biological Detection
- Radiological Detection
- Expeditionary Analytics
- Medical Diagnostics

SHAPE

- CBRN Warning and Reporting
- Decision Analysis & Management

SHIELD

- Respiratory and Ocular Protection
- Percutaneous Protection
- Chemical Prophylaxis
- Biological Prophylaxis
- Radiological Prophylaxis
- Expeditionary Collective Protection

SUSTAIN

- Personnel Contamination Mitigation
- Materiel Contamination Mitigation
- Chemical Therapeutics
- Biological Therapeutics
- Radiological Therapeutics

Materiel Efforts

SENSE

- Dismounted Recon Sets, Kits, & Outfits
- Common Analytical Laboratory Sys
- Joint Biological Tactical Detection Sys
- Next Generation Diagnostic System

SHAPE

- Joint Warning and Reporting System
- Joint Effects Model

SHIELD

- Botulism
- Plague
- Filovirus
- Western Eastern Venezuelan Equine Encephalitis

SUSTAIN

- Contaminated Human Remains Pouch
- Joint Biological Agent Decon System
- Joint General Purpose Decontaminant
- Joint Service Equipment Wipes
- Emerging Infectious Diseases – TX
- Filovirus

