

JPEO-CBD



**Joint Program Guardian
Advanced Planning Briefing to Industry**

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**COL Camille Nichols
JPM GUARDIAN
Joint Program Executive Office
for Chemical and Biological Defense
camille.nichols@jpeocbd.osd.mil**

Mission



- **Provide 200 DoD Installations with an Integrated CBRN Protection and Response Capability to Protect Personnel, Maintain Critical Military Operations, and Restore Critical Operations as Quickly as Possible**
- **Serves as the Centralized Manager for Equipping Army Installation Support Teams, Army Reserve Recon/Decon Teams and the National Guard Civil Support Teams**



- **Force Protection:**
 - **Combating Terrorism**
 - **Anti-Terrorism Activities**
 - **Terrorism Consequence Management**
 - **Active Defense Against CBRN Threats**
 - **Critical Infrastructure Protection**
 - **Consequence/Incident Management**

- **Civil Support Teams:**
 - **Individual Protection**
 - **Analytical Capability**
 - **C² Capability**

**“In the New World We Have Entered, the Only Path to Peace
And Security Is the Path of Action.”**

President Bush, September 2002



CBRN Installation Protection Includes:

- **Detection**
- **Identification**
- **Warning and Reporting**
- **Information Management**
- **Individual Protection**
- **Collective Protection**
- **Medical Protection, Surveillance and Response**
- **Restoration**

Standard Capability Tailored for Each Installation



Detection

- **Government Off the Shelf (GOTS)**
 - Automatic Chemical Agent Detection and Alarm (ACADA) 24/7 (Chem/ Toxic Industrial Chemicals (TIC) Detection)
 - Improved Chemical Agent Monitor (ICAM) (Chem Survey Tool)
 - ACADA (Chem Detection)
 - Dry Filter Unit (BIO Collector)
 - AN/PDR-77 (Rad Survey Tool)
 - AN/UDR-14 (Rad Dosimeter)
- **Commercial Off the Shelf (COTS)**
 - Toxic Industrial Chemical ID
 - Vehicle Radiological Detection
 - Handheld Radiological Identification
 - Electronic TIC Detectors (Classification Device)



Individual Protective Equipment

- **Government Off the Shelf (GOTS)**
 - M40A1 (Protective Mask)*
 - MCU-2A/P (Protective Mask)*
 - Joint Service Lightweight Integrated Suit Technology (JSLIST)*
 - Footwear – Black Vinyl Overboot
 - Gloves - 7, 14, 25 mil

- **Commercial Off the Shelf (COTS)**
 - SCBA – Self Contained Breathing Apparatus
 - Level A – Protective Overgarment (ex. Trelchem TLU)
 - Level B – Protective Overgarment (ex. Tyvek F)
 - Level C - Protective Overgarment (ex. Hammer/Saratoga)
 - Footwear/HAZMAT
 - PAPR – Powered Air Purifying Respirator
 - Escape Hood (ex. QuickMask 2000)

*Military Use Only



Collective Protection

- **Government Off the Shelf (GOTS)**
 - CBRN Filtration System (Filters and Hardware)
 - HVAC System Modifications
 - Entry/Exit Vestibules
 - Limited Building Modifications

Medical

- **Government Off the Shelf (GOTS)**
 - Surveillance/ESSENSE IV
 - Pharmaceuticals (Self)
 - Pharmaceuticals (Patients)

Warning

- **Government Off the Shelf (GOTS)**
 - Current On-Base Mass Warning/Notification System
- **Commercial Off the Shelf (COTS)**
 - Leverage Existing Local Area Networks
 - Telecommunications (Cell Phones, Pagers, PDAs)



Decontamination

- **Government Off the Shelf (GOTS)**
 - Lightweight Decon System
 - M295 Personal Equipment Decon Kit
 - M291 Skin Decon Kit
 - M100 Sorbent Decon System
- **Commercial Off the Shelf (COTS)**
 - Decon Tents

Information Systems

- **Commercial Off the Shelf (COTS)**
 - Sensors are Integrated and Networked
 - Integrated Hardware and Software Solutions to Support Decision Making and Response Processes

Technical Challenges



- **Minimizing IPP Footprint on the Installation**
- **Technology Refreshment Insertion**
- **Reduction of Sustainment and Operating Costs**
- **Integration of IPP C4I System into each Installation's Network**
- **Modeling FoS Capability – Measuring System Performance**



- **LSI Contract Award April** **FY04**
- **Commercial Sensors and Equipment – LSI** **FY04-09**
Procures via Manufacturers at Least Annually
- **Government Sensors and Equipment – JPMG** **FY04-09**
Procures via Commodity JPMs and RIA at Least Annually
- **Possible LSI Re compete** **FY07**



- **NGB Civil Support Teams (CSTs)**
 - Responsible for the Development, Procurement and Fielding of the Analytical Laboratory System (ALS) and the Unified Command Suite (UCS)
 - Provide Personnel Protective Equipment, Decontamination and Detection/Identification Equipment to CSTs
 - Program Supports 32 CSTs now
 - 12 Teams Congressional Add in FY04
 - OSD Funded Additional Teams FY05- FY07

- **Reserve Recon/Decon Teams**
 - Program Supports 9 Decon Units and 75 Recon Units now
 - Provide Personnel Protective Equipment
 - Provide Decontamination Shelters
 - Roles and Functions Review may Change Equipment

Analytical Laboratory System (ALS) Block O



Mission:

Provide the National Guard Civil Support Teams (CST's) an Improved Mobility Capability to Conduct Presumptive Detection and Identification Analysis of Unknown or Potential Chemical and Biological Warfare (CBW) Agents and Toxic Industrial Materials/Chemicals (TIMs/TICs) at an Incident Site and Transmit that Information Electronically via the Unified Command Suite (UCS) in Support of the First Responder Incident Commander



Status:

- **Fielded to 32 National Guard Weapons of Mass Destruction- Civil Support Team (CSTs)**
- **Fielding to 12 Additional CSTs in FY04**
- **Developing and Executing ALS Block I for FY04 to FY 07**
- **Developing Strategy for ALS Block II for FY 07 to FY10**

Capabilities:

- **State-of-the-Art Engineering Controls Protecting Operators and Environment**
- **Provides Results from Screening of TIC/TIM/CW Samples within 45 Minutes**
- **Provides Results from Screening of BW Samples within 30 Minutes**
- **Presumptive ID with Biological Hand Held Assays (HHAs)**
- **C-130 Air Transportable**

Unified Command Suite (UCS) Block O



Mission:

The UCS Provides the Reach-back Communications for Connectivity for the Analytical Laboratory System (ALS) with Higher Authority and Technical Support Agencies, Allowing the Civil Support Team (CST) Commanders the Ability to Assess the Incident Scene, Advise Response, and Facilitate Access to DoD Information in Support to the First Responder Incident Commander



Status:

- Fielded to 32 National Guard Weapons of Mass Destruction- Civil Support Team (CSTs)
- Fielding to 12 Additional CSTs in FY04
- Supporting the Approval Process of the Capabilities Production Document Expected Complete FY04
- Developing and Executing Increment I FY04 to FY 06

Capabilities:

- A Self-contained, Stand-alone C-130 Air Mobile Communications Platform
- Digital Voice and Data over Satellite Network
- NIPRNET, SIPRNET
- Radio Remote and Intercom with Cross Banding
- Over the Horizon Communication
- Interoperable Interface with State Emergency Management and Other Military Units

Commercial Off the Shelf (COTS)/ Government Off the Shelf (GOTS)



Mission:

- To Provide Type Classified and Non-Type Classified Commercial-Off-The-Shelf (COTS) Chemical Biological Radiological Nuclear (CBRN) Life-support Equipment that Directly Protects Individuals from the Effects of CBRN Contamination
- This Entails Personal Protective Equipment (PPE), CBRN Decontamination, or Detection/Identification Equipment



User:

- The 32 National Guard Weapons of Mass Destruction- Civil Support Team (CSTs)
- Fielding to 12 Additional CSTs in FY04
- The 9 Decon Units and 75 Recon Units
- Equipping the Standing up of a Company in FY04
- Equipping the Standing up of Company's in FY07
- Supporting the Development of Capabilities Documents for COTS Equipment

Capabilities:

- Man-portable
- TIC/TIM, CWA Detection
- BWA Detection
- Radiological Detection
- Personal Protection
- Decontamination

Technical Challenges



- **Automation of Analytical Laboratory System**
- **Improved Sensitivity and Specificity of Chemical and Biological Identification Systems**
- **Improved Biological Agent Identification Time**
- **Improved C4I Communications and Interoperability with State Emergency Management**
- **Spiral Upgrade of C2 Systems to stay Relevant**



- **10 Additional CSTs Stand up** **FY05 - 07**
- **ALS Block I Upgrade Primary Analytical Equipment Purchases** **FY06**
- **UCS Spiral 1 Upgrade** **FY06**
- **ALS and UCS Vehicle Replacements** **FY10***
- **ALS Block II Primarily Focused on Providing Advanced Protection for CST** **FY10***

*Not yet funded

Summary



- **Most Guardian Activities are Focused on Procuring Readily Available Commodities**
- **Need Industry to focus on Commercializing Existing GOTS CBR Sensors**
- **Opportunities Exist for CST and IPP Efforts**

Protect the Force

Points of Contact



Mr. Don Buley, Deputy JPM-Guardian (703) 681- 0614

don.buley@jpeocbd.osd.mil

Mr. Jim Frank, Deputy PM-WMD-CSS

(410) 436-2980

jim.frank@sbccom.apgea.army.mil