SBCCOM
Homeland Defense Initiatives

Mr. J. H. Zarzycki
Technical Director
SBCCCOM
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<td>NDIA (National Defense Industrial Association) 211 Wilson Blvd, STE. 400 Arlington, VA 22201-3061</td>
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• This nation’s warfighters have relied on SBCCOM and its Edgewood predecessors since 1917

• The Technical Escort Unit has supported chemical operations since World War II

• Since 1996, SBCCOM has been assisting the nation’s responders prepare for WMD incidents
SBCCCOM Spectrum of Operations

U.S. Army Soldier and Biological Chemical Command

A Tailored, Flexible & Ready Force Provider

CB-RRT
Manage & Coordinate
CB Defense Technical Response Capabilities

SBCCCOM Operations Center
Linkage to DoD Experts

Edgewood CB Center
Unique CB defense SME expertise
Fly-away Lab

Technical Escort Unit
Provide CB Assessment, Sampling, Detection, Mitigation, Render Safe, Limited Decon, Packaging, Escort, and Remediation Worldwide

- Anthrax hoaxes
- State of the Union Addresses
- Papal Visit 1999
- TOPOFF exercise, NH & CO - 2000
- Winter Olympics, Salt Lake City, UT - 2002
Leveraging Warfighter RDA Mission for Homeland Defense

DoD Warfighter Needs → Research → Development → Engineering & Prototyping → Warfighter Products

- CB Incident Response
- Emergency Responder Needs
- Counterterrorism and Forensic Services
- Fixed Site/Building Protection
- National Protection Center
Support to Federal Agencies

Equipment Consultation

WMD Installation Preparedness
• Inter-Agency Agreement established with DOJ

• SBCCOM supports the Center for Domestic Preparedness, Anniston, Alabama
  ▶ Chemical agent transport and application
  ▶ Chemical surety program
  ▶ Safety/security/reliability/environmental support
  ▶ Industrial hygiene / medical surveillance
  ▶ Protective clothing / equipment testing and consultation
SBCCOM supports the Office of State and Local Domestic Preparedness Support via:

- Knowledge transfer - lessons learned
- Technical and operational assistance for the CB Domestic Preparedness HelpLine
- Improved Response Program (Civilian) - Working through SBCCOM to:
  - Update Guide Books and Planning Guides
  - Complete the Responder Asset Management System (RAMS)
**Federal Bureau of Investigation**

- MOA Established for support
- Designed, fabricated and assembled the *state-of-the-art* Fly Away Lab
  - Store, maintain and provide personnel to operate
  - Registered ISO 9000; Accredited to ISO Guide 25 / ISO STD 17025
  - Developed and validated analytical methods
  - Provide supportive forensic laboratory services
  - Can deploy within 4 hours of notification
Consequence Management (CoM) Support Team (CMST)
- Provide subject matter expertise for CoM actions resulting from WMD incidents

Building protection and analysis
- Vulnerability assessments
- Testing
- Consultation
• Initially supported EPA with environmental challenges and concerns
• Expanding assistance to homeland defense issues
  ‣ Selection criteria development for PPE
  ‣ Assisting with health and safety SOPs
  ‣ Providing technology evaluation assistance for CB detectors
  ‣ Provide monitoring and technical field support
SBCCOM
U.S. Army Soldier and Biological Chemical Command

Equipment Consultation
The National Protection Center is a joint agency, alliance-driven center of expertise that conducts research, develops and accelerates fielding of advanced protective technologies that save lives and reduce injuries to personnel (military and civilian) engaged in high-risk occupations or conducting missions in extreme environments on earth or encountered in space.
- Ballistic
- Explosives
- Fire/Thermal Flash
- Laser (to eye)
- Hazardous Materials
- Environmental Contaminants / Pollutants (e.g. pesticides, detergents, other)
- Weapons of Mass Destruction
- Hearing Protection
- Blunt Trauma
- Stabbing
- Extreme Environment/Climate Conditions
SBCCOM provides technical support to the National Institute of Standards and Technology (NIST) in developing standards

- Commercial respirators, protective suits and detectors
- Working in conjunction with NIOSH (CDC / DHHS)
- Work funded through Oklahoma City National Memorial Institute for the Prevention of Terrorism - GEN Dennis Reimer (Ret), Director
NBC Equipment Evaluation

• Test NBC equipment to determine performance (Tested over 120 items)
  ‣ Detectors
  ‣ Material swatches
  ‣ Mask / filter canister
  ‣ Protective suits

• Post test results on Web page
  ‣ Available to first responders
  ‣ Data only, no recommendations

http://www2.sbccc.army.mil/hld/index.htm
• Provide the emergency responders, decision makers and support personnel with a user-friendly, intelligent, PC-based tool to support decisions and courses of actions
• Enhance timely tactical decision making of operational responders in life-threatening hazardous incidents
WMD-Civil Support Teams (CST)

Mission

• Assess a suspected nuclear, biological, chemical or radiological (NBCR) event in support of a local incident commander.

• Advise civilian responders regarding appropriate action.

• Facilitate requests for assistance to expedite arrival of additional state and federal assets.
What is it?

• 22 Full Time personnel per team
• Army and Air National Guard Members
• Self-sustaining entity (72 hours)
• HAZMAT certified
• OSHA Level A certified
• High tech reachback capability
• Air deployable
WMD-CST Unit Locations

10 Current WMD-CST Locations

17 Additional WMD-CST Locations
Acquisition for WMD-CST

U.S. Army Soldier and Biological Chemical Command

- Personal protective equipment (PPE)
- Personnel decontamination equipment
- NBCR detection equipment
- Mobile Analytical Laboratory System
- Virtual Emergency Response Training Simulation (VERTS)
- Communication equipment
- Supplies & incidentals
Consequence Management - Program Integration
Office initiated the process
Moving towards a more structured approach
Comes under Joint RDA
PM established
WMD Installation Preparedness (IP)

- WMD IP process
- Technical Assistance focused on WMD IP
- Military Improved Response Program
• Pope/Bragg Study (1998)
  ‣ Demonstrated the impact of a CB attack on mission operations
• Pope/Bragg Pilot (1999)
  ‣ Demonstrated a 45% reduction on the deployment delay resulting from a hypothetical chemical terrorist attack

Mar 00 Fort Bragg received a “GREEN” rating from FORSCOM for WMD Preparedness - the First FORSCOM Installation
WMD Installation Preparedness
Technical Knowledge Transfer

2001 Efforts:

- CINCPACFLT
- U.S. Coast Guard
- Fort A.P. Hill
Technology Transfer - Building / Fixed Site Protection

- Vulnerability assessments
- Generate requirements based on need
- Recommend protective hardware & provide rapid customized prototypes
- Provide technical interface with A&E firms for installation
- Provide equipment certification / periodic testing
- Logistics assistance
Establish focus workgroups within DoD to identify military responder issues and coordinate IRP activities
Integrate with the Service WMD Installation Preparedness programs
Address the tough problems identified during installation planning, training, and exercise efforts
Apply solutions developed under DP IRP to military installations & responders
Conclusion

SBCCOM

• Always focused on the warfighter and demonstrated operational capability
• Possess a wealth of resident CB defense information
• Is satisfying a critical national security need by transferring / applying knowledge, technology and experience for homeland defense
"The grave threat from nuclear, biological, and chemical weapons has not gone away with the cold war... We have no higher priority than the defense of our people against a terrorist attack."

President
George W. Bush
13 February 2001