



Joint CBRN Combat Developer

***U.S. Army CBRN School
COL (P) Les Smith***

***Briefing for JCBRN Conference
25 June 2009***



Agenda

- **Mission**
- **Authority**
- **Joint CBRN Combat Developer**
 - **Joint Experimentation and Analysis**
 - **Joint Threat Support**
- **Doctrine Support**
- **Training Support**
- **International Update**
- **Operational Update**
- **Summary**



Criticality of Our Mission

“The Commission believes that unless the world community acts decisively and with great urgency, it is more likely than not that a weapon of mass destruction will be used in a terrorist attack somewhere in the world by the end of 2013. The Commission further believes that terrorists are more likely to be able to obtain and use a biological weapon than a nuclear weapon.”

**Senator Bob Graham, Commission Chair
The Report of the Commission on the Prevention
of WMD Proliferation and Terrorism,
December 2008**



JCD Mission

Conduct realistic experiments for the Department of Defense Chemical and Biological Defense Program by systematically exploring new and innovative combinations of medical and non-medical Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, and Facilities (DOTMLPF) capabilities.

to reduce risk and cost in materiel development

JEAD Mission

Coordinate and oversee execution of Joint and Multi-Service experiments used to validate the Joint Integrating Concept for CBRN Defense



Joint Experimentation and Analysis





JEAD Completed Experiments Since last JCBRN Conference

- **Joint Concept for CBRN Contamination Mitigation**
 - Final report dated October 08
- **Sensitive Site Exploitation/Assessment Linkage**
 - Final report dated October 08
- **Mass Casualty Decontamination**
 - Final report dated May 09
- **Modular Mobile Laboratory**
 - Final report dated June 09





JEAD On-Going Experiments



- **Air Crew Duration**
 - Projected for 4Q FY09 completion
- **CBRN Intelligence Fusion**
 - Projected for 4Q FY09 completion
- **Unmanned CB Vehicle CONOPS**
 - Projected for 4Q FY09 completion





JEAD On-Going Experiments



- **CBRN Hazardous Awareness and Understanding**
 - Projected for a 4QFY09 completion
- **Joint Forces in a Contaminated Environment**
 - Projected for 1QFY14 completion





JEAD Future Experiments

- **Automation/Robotic Decontamination**
- **Impacts of Alternate IPE to Squad & Teams**
- **Operational Level Decontamination Assessment**
- **18 Joint Experiment Nominations received by the JRO for FY 2010-2011**





Joint Threat Support





JTSB Foundation

Mission: Develop and coordinate intelligence and threat support products as required by CBRND acquisition programs and experimentation.

Key Accomplishments:

- Completed 2 Joint Test Threat Support Packages (JNBCRS, JCAD, and 1 STAR)
- JCAD, JBPDS, JBTDS, pending (Working on vignettes for the JCAD JTTSP)
- Working on 5 STARs 2 year updates.



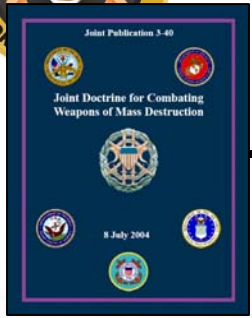


Doctrine Support to the Joint CBRN Force





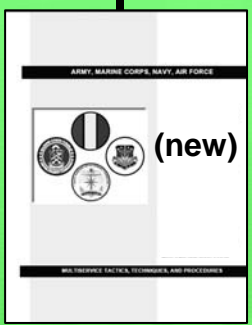
Joint CBRN Doctrine



Joint Doctrine
Combating WMD



NBC Defense
↓
CBRN Operations

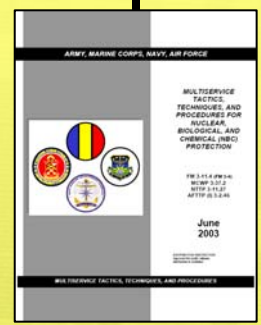


WMD Elimination



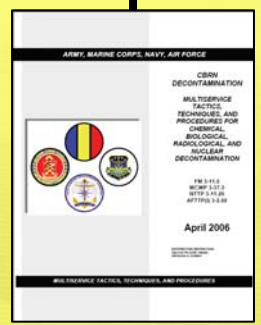
CBRN Contamination Avoidance

SENSE



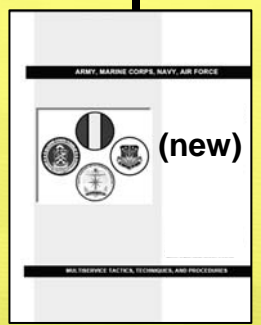
CBRN Protection

SHIELD



CBRN Decontamination

SUSTAIN



CBRN C2

SHAPE



CBRN Consequence Management

No longer just **PASSIVE DEFENSE**

Stability Operations

Major Combat Operations

Civil Support

Across the Entire Range of Military Operations...



Training Support to Joint CBRN Force





Training



Professional Courses

- Developing adaptive Soldiers and Leaders operating with all services
- “How to think”

***All our courses are open to all Services**

Functional Courses:

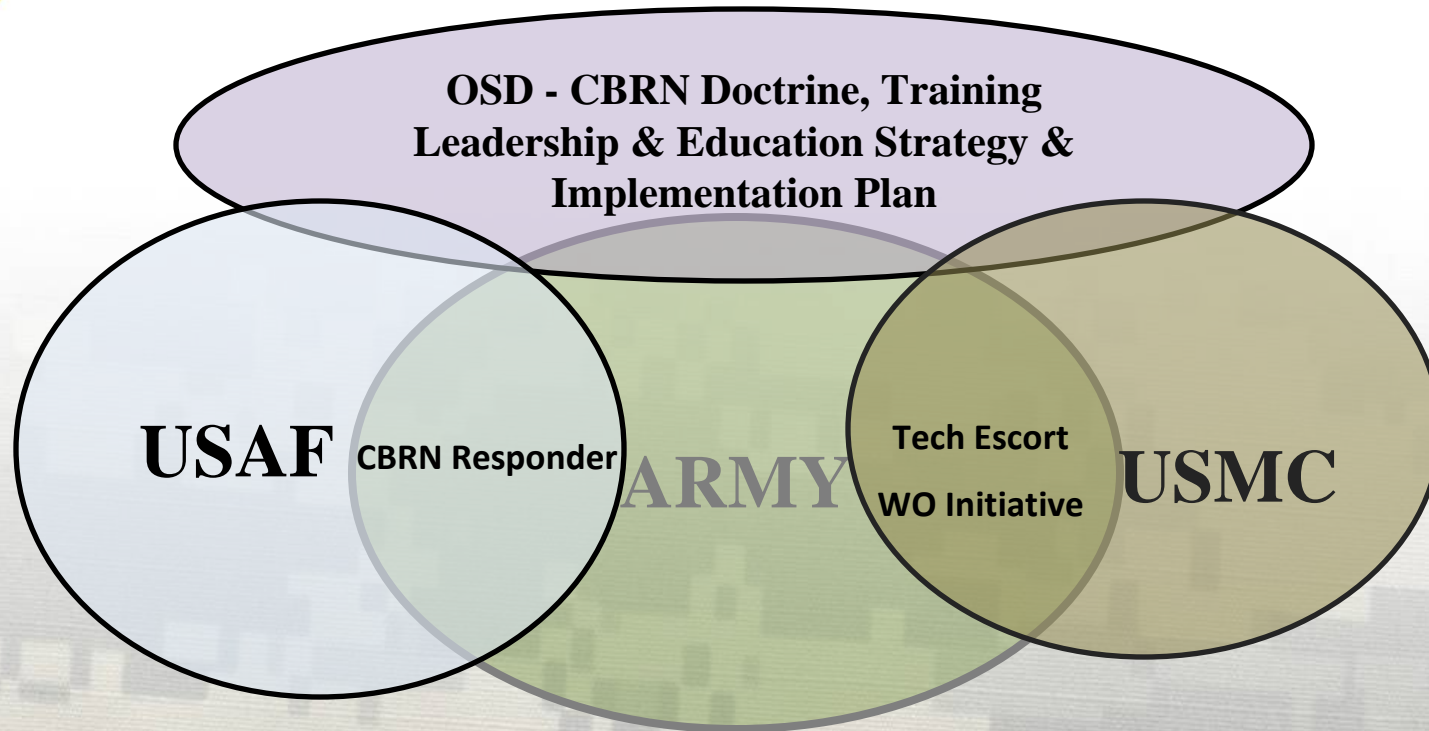
- Civil Support Skills Course
- Mass Casualty Decon
- Technical Escort
- FOX (L5) / Stryker (L6)
- Radiation Safety

GOAL:

- Training reflects full range of CBRN threats, WMD-E and Consequence Management missions
- Expanding chemistry, biology and radiological sciences (i.e., explosive chemistry)
- Institutionalization of COTS protection and detection equipment
- Joint/Inter-agency focus
- Full suite of automated Warning/Reporting/Analysis systems
- Supports critical Homeland Security Skills (CST, CCMRF and CERFP)



CBRN Joint/Multiservice Training



New/Ongoing Efforts:

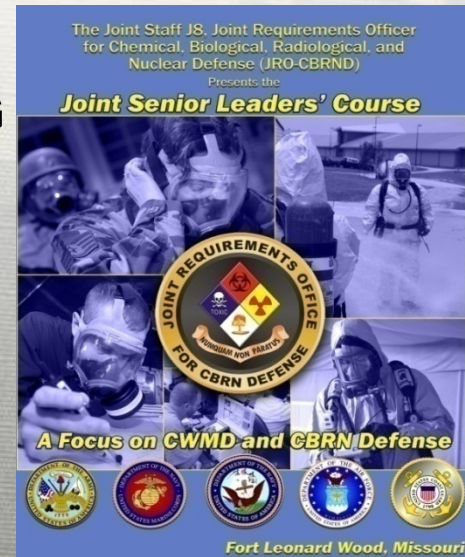
- Participation in DoD DTL&E Strategy and Implementation Planning
- USAF began training 3E9 Emergency Management in the CBRN Responder Course
- USMC trains in and shares instructor responsibilities for Tech Escort training
- Evaluating USMC participation in 74D10 AIT and CBRN Responder training
- Evaluating Army CBRN Warrant Training in USMC Warrant Officer Course



Joint Senior Leaders' Course



- JRO sponsored, USCBRNS hosted, 3 times a year
- Target audience is O-4 and above/civilian equivalent/E9
- Operational to strategic level focus on DoD's Combating WMD efforts
- Toxic agent training in the Chemical Defense Training Facility (CDTF)
- Interagency participation: DNI, DOS, DHS, FBI, USCG
- Coalition partner participation: UK, Canada
- Course dates:
 - 10 - 13 December 2009
 - 15 - 18 April 2010
 - 22 - 25 July 2010
- Point of contact is Terry Johnson, JRO-CBRND FLW, at (573) 563-6090 or terry.johnson28@conus.army.mil





Facilities





International Initiatives





Key International Interactions

- **CBRN International Commander's and Commandant 's Conference**
- **CBRN NATO Training Work Group**
- **NATO Joint Combat Developer Work Group**
- **NATO CBRN Operations Work Group**
- **NATO Allied Joint Publication 3.8, CBRN Doctrine for NATO Forces**
- **NATO Allied Tactical Publication/Allied Engineering Publication -45, CBRN Warning and Reporting**
- **ABCA Project Teams- Developed a Standard for SSE**
- **Attendance at International Trade Conferences**
- **BI Lateral Agreements working with OSD and Joint Staff**
 - **Czech Republic** **Japan**
 - **Korea** **Singapore**
 - **Poland**



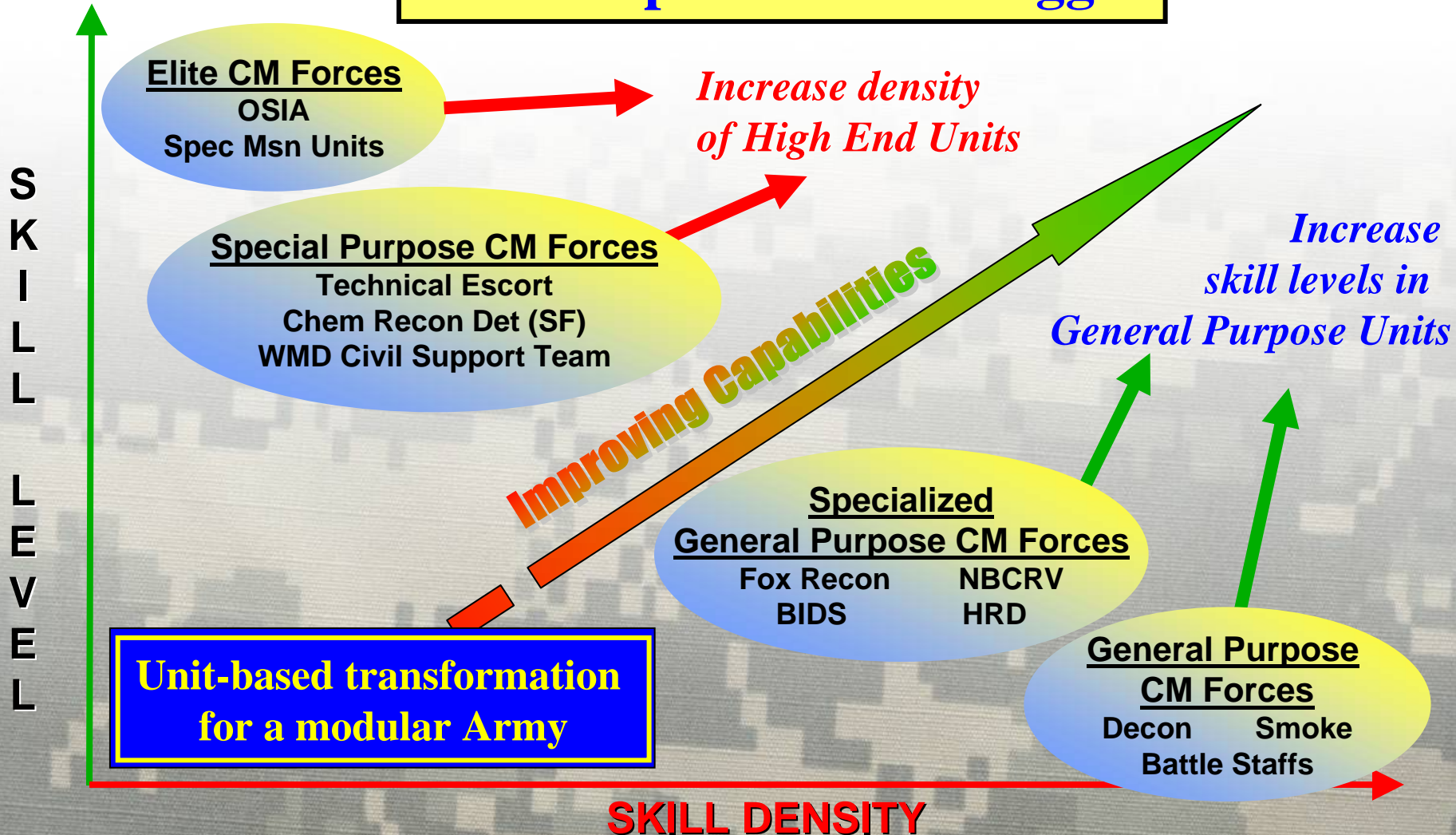
Transformation





Transformation Strategy

More Capable ... Not Bigger





Summary

- **CBRN Threats to the Nation will continue**
- **Transforming CBRN doctrine to meet these challenges**
- **Need Joint, Interagency, Intergovernmental, and Multi-national solutions**
- **Realistic experimentation reduces the risk and cost of material solutions**
- **Transforming the CBRN community to meet these challenges**



Questions?



Backup



Joint Aircrew Duration in Protective Ensemble (JADPE)



- **Problem:**
 - Determine the crew duty day of aircrews while wearing Individual Protective Ensemble (IPE)
- **Funding:** JRO
- **Location:**
 - C-130 trials at Little Rock AFB, AR
 - C17 trials at Travis AFB, CA
- **Recommendations:**
 - Identified how long aircrews can safely fly while wearing IPE
- **Result:**
 - Validated crew duty day required to shuttle contaminated aircraft from forward locations to decon and/or weathering areas or to shuttle between contaminated Air Port of Debarkation and Exchange Zone





CBRN Intelligence Fusion

- **Problem:**

- Joint forces require effective mechanisms for CBRN intelligence fusion
 - Tactical, operational, and strategic levels
 - Facilitate unified coordination, planning, and execution for combating weapons of mass destruction

- **Funding:** JRO

- **Location:**

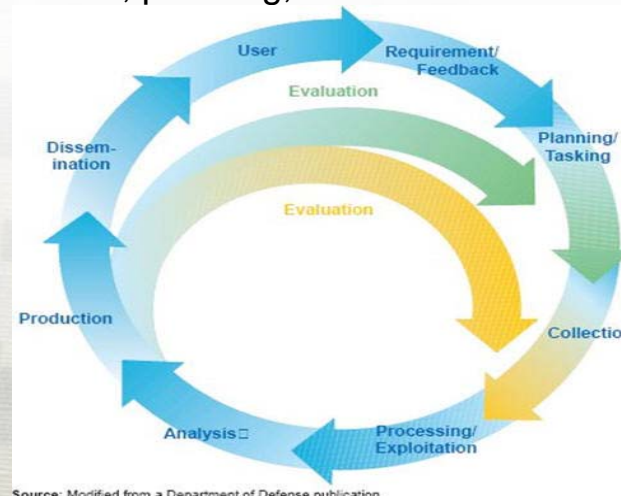
- Republic of Korea
- JFCOM J9, Suffolk, VA

- **Recommendations:**

- All CBRN Warfighters possess the appropriate security clearances
- Tiered access to CBRNE related intelligence thru the MASINT Portal
- CBRN site information be maintained with the similar fidelity as Target Folders
 - Called Elimination Folders

- **Result:**

- Greater knowledge and interaction between Joint CBRN Community and the Intelligence Community





Unmanned Chemical, Biological, and Radiological Systems (UCBRS)

- **Problem:**

- Current operational concepts do not account for ground, sea and air unmanned systems
 - Employing CBR sensor or collector packages
 - Interoperable with and expand on the manned reconnaissance and surveillance systems across the Cbt WMD mission areas



- **Funding:** JRO

- **Location:** Arlington, VA

- **Recommendations:**

- Training should include how to operate in a Joint environment integrating air, ground and sea UCBRS for a unified employment approach
- As technology becomes available capabilities development documents will need to stress modular payloads and plug and play systems that are reliable and capable of detection, sampling, transmitting data, and interoperability with other than CBR sensor suites

- **Result:**

- A broad operational concept will be developed as part of the experiment final report



CBRN Hazardous Awareness and Understanding

• Problem:

- There is no written future joint concept for CBRN hazard awareness and understanding
- Joint force capabilities may not provide the Joint Force Commander with CBRN hazard awareness and understanding throughout his operational area
 - 2016-2028 time frame

• Funding: JRO

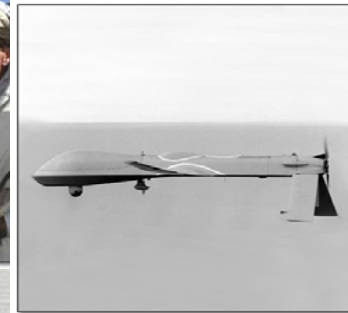
• Location: Arlington, VA

• Recommendations:

- Develop concept to describe how the Joint Force Commander will achieve CBRN hazard awareness and understanding
 - Must support the four basic types of military activity: combat, security, engagement, and relief/reconstruction
 - In the year 2028

• Result:

- A broad operational concept will be developed as part of the experiment final report





CBRNC3 Technical/Common Course Map



- Transition to Seminar Formats
- Focus on JIIM
- Increased Integration-Maneuver Support
- Visiting Instructors (ECBC, DTRA, WDTA, UMR)

<p>Leadership / Foundations</p> <ul style="list-style-type: none"> • No major change • TRADOC mandated 	<p>Operational Foundations</p> <ul style="list-style-type: none"> • DofCS Classes • JIIM • MCS-L/JEM/JWARN • Opn Protection 	<p>Non-Proliferation</p> <ul style="list-style-type: none"> • WMD Strategy • ECBC • Policy • WMD Technology 	<p>Counter-Proliferation</p> <ul style="list-style-type: none"> • Policy/WMD-E • DTRA • Interdiction / Offensive Ops 	<p>Chemical Block</p> <ul style="list-style-type: none"> • Masters Level • TIC / traditional • Chemistry of Explosives 	<p>Biological Block</p> <ul style="list-style-type: none"> • Masters Level • Research Project • Production • CKN/JKO/DKO
<p>Radiological / Nuclear Block</p> <ul style="list-style-type: none"> • OPRAD focus • RDD • Response • Digital Tac Rad 	<p>Active/Passive Defense</p> <ul style="list-style-type: none"> • VA • JEM Exercises • IED Defeat TCOIC • Mass Casualty 	<p>HAZMAT AWS/OPS</p> <ul style="list-style-type: none"> • 3 weeks (TIC/PDE) • Sampling • SSE / TSE • Detector Tech Ex 	<p>•ICS •NRP/NIMS</p> <ul style="list-style-type: none"> • Incident Command Certification • HLD Integration • CSMRF 	<p>•Consequence •Management</p> <ul style="list-style-type: none"> • DoD in CM and FCM • Legal aspects • 3 day exercise •ECBC 	<p>STX</p> <ul style="list-style-type: none"> • CM Capstone • TSE / SSA • Terry Facility • Response Planning
<p>•Ozark Fury</p> <ul style="list-style-type: none"> • WFX III Scenario 	<p>•Warfighter III</p> <ul style="list-style-type: none"> •Change to CTL •Updated scenario 	<p>Company Command</p> <ul style="list-style-type: none"> • Scenario Driven • Rear – D • Casualty Ops • WTU 	<p>• No Growth</p> <ul style="list-style-type: none"> • 5.3 weeks Common Core • 14 weeks Technical Block 		

Technical Block
 Common Core

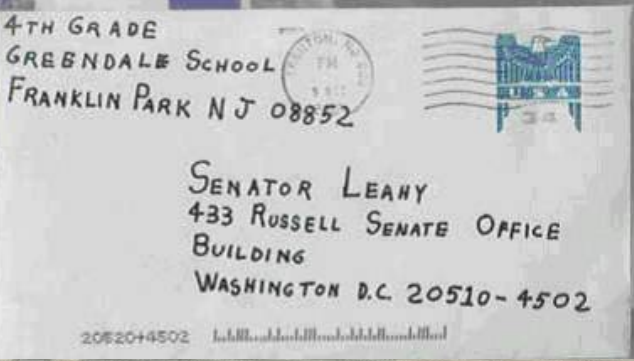


Operational Update





Threats





Operational Update

As of: 17 Jun 09

Iraq/ MNC-I/MNDs

I Corps 1 CD
25 ID 34 ID

CBRN Units Assigned:

Co/22nd CM Bn (Tech Escort)
1/1 CD Recon Plt (FOX)
2/1 CD Recon Plt (FOX)
3/1 CD Recon Plt (FOX)
4/1 AD Recon Plt (FOX)
2/1 ID Recon Plt (FOX)
2/4 ID Recon Plt (FOX)
172 IN Recon Plt (FOX)
1/25th ID Recon Plt (SNBCRV)
3/25th ID Recon Plt (SNBCRV)
6/28th ID Recon Plt (SNBCRV)
4/59 CM Co (HAZMAT Plt)
3/82 ABN Recon Plt



Afghanistan/CJTF
82nd ABN Div

CBRN Units Assigned:
21 CM Co (-)*

Kuwait/ARCENT
3rd Army
CBRN Units Assigned

61st CM Co (Recon Plt)

Scheduled for Deployment

3 ID (repl. 25ID)
HHD, 490th CM Bn*
320th CM Co*
357th CM Co*
HHC, 479th CM Bn*

1 AD (repl. 1CD)
411th CM Co*
HHD, 472nd CM Bn*
314th CM Co(-) *

* Performing non-CBRN mission