Joint CBRN Combat Developer
U.S. Army Chemical School
BG Tom Spoehr

Briefing for JCBRN Conference
26 June 2007
Agenda

• Mission
• Authority
• Process
• Joint CBRN Combat Developer
  – Joint Experimentation and Analysis
  – Joint Threat Support
• Doctrine Support
• Training Support
• Operational Update
• Transformation
Mission

Conduct experiments for the Department of Defense’s 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 in materiel development
Implementation Plan for the Management of the Joint Chemical Biological Defense Program
dated: 22 April 2003

“Para 3.4.8 -Through the JRO, serve as the Joint Combat Developer for the CBDP”
Process
CBDP Process

ATSD(NCB) Oversight

Joint Requirements Office (JRO)

Required Capabilities

Joint Combat
Developer

Capabilities
to the
Warfighter for All Missions

Process based on managing total program risk

- Combatant Commanders
- Services

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Experimentation Process

Ideas for Experiments

JRO Approves Proposals

JRO/JEAD - Forms a Task Force, Consolidates & Review Proposals

Discard

Services

Joint Combat Developer Executes

Develop FY Plan

Brief CBT WMD Issues Team

Brief Results to JRO

Brief Sponsors/ CBT WMD IT
Joint Experimentation and Analysis
JEAD Completed Experiments

- **Sensitive Equipment Decon** - Validate Concept of Operations & Key Performance Parameters (Completed FY05, Final Report dated 31 Oct 05)
- **Split MOPP** – Validate USAF Concept of Operations for Fixed Sites (Completed FY05, Final Report dated 9 Dec 05)
- **Aerial CBRN Sensing** – Develop & validate Concept of Operations (DTRA Funded, Final Report dated Jul 06)
- **Cold Weather Decon** – Validate cold weather tactics, techniques and procedures for WMD-CSTs (NGB Funded, Final Report dated June 07)
JEAD On-Going Experiments

- **WMD-CST LOE** – Validate CST TDA (HLS funded, draft report in staffing)
- **Air Crew Duration** – Validate TTPs and safety requirements (JRO/JPEO funding, TRANSCOM nominated)
- **Joint CBRN Dismountable Recon System** – Validate organization & equipment for CPD (JPEO Experiment, Live Sea Phase May 07, draft ground phase report in staffing)
- **Joint Expeditionary Collective Protection** – Develop/validate Ingress/Egress TTPs (JPEO experiment, draft report in staffing)
- **Mortuary Affairs/Human Remains Decon System Rock Drill** – Develop CONOPS (JPEO/JPM Decon Funded, CASCOM supported, draft report dated May 07)
- **CBRN Recon Experiment** – TIC/PDE Load-Out Experiment (HS Funded, Live Experiment May 07)
Joint CBRN Dismountable Recon System

- **Objective:** Examine whether the JCDRS demonstrates an improved capability to conduct CBR dismounted reconnaissance missions, has the capability to detect and identify hazardous material, if TTPs are adequate and effective, and whether existing organizational assets are sufficient.

- **JPEO** Funded, JPM-CA, JPM-IP supported

- **Location:** Aberdeen MD, Norfolk, VA

- **Recommendations:** DOTMLPF recommendations are identified in the report.

- **Result:** JCDRS offers new capability to detect and identify more substances during dismounted recon and SSA missions. Services demonstrated they could accomplish missions with their planned organization.
Joint Expeditionary Collective Protection

- **Objective:** Investigate the capability of warfighters to follow TTPs for entry/exit, potential throughput, capability of SOF non-powered shelters, and utilization of a CCA outside the airlock.
- **JPEO Funded**
- **Location:** Eglin Air Force Base, FL
- **Recommendations:** Changes to Doctrine, Organization level at which shelters will be used should be examined, Attendants are needed to support ingress/egress, Training on conducting TTPs is simple, Materiel changes may be required.
- **Result:** Processing into JECP requires three distinct functions, Throughput is limited by the time takes for the functions, TTP’s were modified and are now adequate.
Objective: Define the end-to-end Mortuary Affairs process for handling chemically contaminated remains from point of death to CONUS. ID organizational roles, C2, capabilities, processes and procedures necessary, and ID issues for resolution at a higher level.

JPEO, JPM Decon Funded, CASCOM Supported

Location: Fort Lee, VA

Recommendations: DOTMLPF recommendations are identified in the report.

Result: Developed a proposed end-to-end process, Defined requirement for intra-theater contaminated remains container, Identified organizational roles and issues for resolution at a higher level.
JEAD Future Experiments

- **Sensitive Site Exploitation** – Develop & validate Concept of Operations
- **Standoff Chemical Agent Detection** – Validate CONOPS (USMC nominated)
- **Automation/Robotic Decontamination** – Develop & validate Concept of Operations and Tactics, Techniques and Procedures
- **Near and Long Term User Needs Development for Improving CBRN Contamination Assessment, and Decontamination** – Concept of Operations/Requirements Needs
Value Added of the Joint Experimentation and Analysis Division

- Technology
- TTP’s
- Requirements
- Doctrine
- Warfighter Interface

- Experimentation
- Residual Risk

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Joint Threat Support
JTSB Foundation

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

**Authority:** JTSB chartered under the Joint Combat Developer-Chemical Biological Radiological Nuclear Defense (JCD-CBRND) October 2005.

- In support of Commandant USACMLS as Joint Combat Developer
- Charter 1st anniversary review pending signature.

**Scope:**

- Joint Chemical Biological Defense acquisition programs and experimentation
- Highest Priority: Director Operational Test & Evaluation Oversight Programs
<table>
<thead>
<tr>
<th>Program</th>
<th>Product</th>
<th>Event Supported</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joint Chemical Agent Detector</td>
<td>System Threat Assessment Report (STAR)</td>
<td>Milestone Decision Review (MDR) C</td>
<td>Approved</td>
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<tr>
<td>Joint Service Lightweight Nuclear Biological Chemical Reconnaissance System</td>
<td>Joint Threat Test Support Package (JTTSP)</td>
<td>Multi-service Operational Test &amp; Evaluation (MOT&amp;E)</td>
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<td>Joint Chemical Biological Defense Program (JCBPD) Information Systems (Battle Management)</td>
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<td>Joint Warning Network (JWARN), Joint Effects Model (JEM) &amp; Joint Operational Effects Federation (JOEF) MDRs</td>
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<tr>
<td>Joint Chemical Agent Detector</td>
<td>JTTSP</td>
<td>Operational Analysis &amp; MOT&amp;E</td>
<td>Approved</td>
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<tr>
<td>Joint Chemical Biological Radiological Agent Water Monitor (JCBRAWM)</td>
<td>STAR</td>
<td>MDR</td>
<td>Service Comment Adjudication Review</td>
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<tr>
<td>Joint Expeditionary Collective Protection</td>
<td>STAR</td>
<td>MDR</td>
<td>Service Comment Adjudication Review</td>
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<tr>
<td>JCBDP Decontamination Systems</td>
<td>STAR</td>
<td>MDRs</td>
<td>Pending Service Review &amp; Comment</td>
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<tr>
<td>JCBDP Individual Protective Equipment</td>
<td>STAR</td>
<td>MDRs</td>
<td>Pending Service Review &amp; Comment</td>
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<td>Joint Biological Point Detection System (JBPDS) &amp; Joint Biological Standoff Detection System (JBSDS)</td>
<td>STAR</td>
<td>MDRs</td>
<td>Post-Threat Working Group (TWG) Edits</td>
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<tr>
<td>JBPDS</td>
<td>JTTSP</td>
<td>MOT&amp;E Phase VI</td>
<td>Post-TWG Edits</td>
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<td>JCBRAWM</td>
<td>JTTSP</td>
<td>Program Test &amp; Evaluation Cycle</td>
<td>Post-TWG Edits</td>
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<tr>
<td>JCBDP Information Systems (Battle Management)</td>
<td>JTTSP</td>
<td>MOT&amp;E</td>
<td>Pending T&amp;E Threat Requirement Determination</td>
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Value Added of the JTSB

• One-stop-shop for JCBDP threat analysis.

• Acquisition lifecycle threat intelligence support, from requirements determination to fielding.

• Standardized threat support to counter disparities in service policies & procedures.

• Adapted procedures for support to all programs, exceeding the requirements of the JTSB Charter.
**Doctrine Support to the Joint CBRN Force**
Doctrine (1 of 3)

Combating WMD (JP 3-40)

Operations in CBRN Environments (JP 3-11)

CBRN Operations (capstone manual)

CBRN Contamination Avoidance (Sense)

CBRN Protection (Shield)

CBRN Decontamination (Sustain)

CBRN Command & Control (Shape)

CBRN Consequence Management
Doctrine (2 of 3)

WMD Elimination
CBRN Contamination Avoidance (Sense)
CBRN Protection (Shield)
CBRN Decontamination (Sustain)
CBRN Command & Control (Shape)
CBRN Consequence Management

Technical Escort Operations
CBRN Recon & Bio Surveillance
Installation CBRN Defense
Vulnerability Assessment
CB Agents and Compounds
WMD-CST Operations

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Doctrine (3 of 3)

Becoming Joint

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CONSEQUENCE MANAGEMENT

PUBLICATION

FM 3-11.21

“CBRN Consequence Management Operations”

STATUS:

- Current version Dec 01
- J-8 sponsored
- Under revision FY06
- Final draft complete Jun 07
- Staffing complete (all Services)

WAY AHEAD:

- Multi-Service work group May 07
- Mass casualty decontamination exercises (May-Aug 07)
- Final approval NLT Oct 07
- Electronic publishing Dec 07

REMARKS:

- Emphasis on the National Response Plan (CBRN Responders)
- Linked to the joint capabilities study for WMD Consequence Management
- Synchronized with joint doctrine for CBRNE consequence management
- Domestic reconnaissance and casualty decontamination (DRCD)
- National guard CBRNE Enhanced Response Force Package (CERFP)
- Multi-Service tactical publication

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PUBLICATION

FM 3-11.22

“WMD Civil Support Team (WMD CST) Operations”

STATUS:

• Current version Jun 03
• Under revision FY06
• Internally resourced
• Final draft complete (NGB)
• Final edit in progress

WAY AHEAD:

• Signature draft complete 2QTR FY07
• Final approval 3QTR FY07
• Electronic publishing 4QTR FY07

REMARKS:

• Revision implements lessons learned from Hurricane Katrina
• Revision incorporates WMD CST emerging capabilities for homeland security
• Partnership with the National Guard Bureau (NGB)
• Army publication
INSTALLATION DEFENSE

PUBLICATION

FM 3-11.34
“Installation CBRN Defense Operations”

STATUS:

- Current version Aug 2000
- J-8 sponsored
- Under revision FY05
- Final draft complete
- Final edit in progress

WAY AHEAD:

- Electronic publishing 3d QTR FY07

REMARKS:

- Tied to the National Response Plan with links to consequence management
- Scope expanded to include CONUS-based military installations (all Services)
- Integrated with ATSD-NCB study for CBRNE Installation Protection
- Synchronized with the Joint Program Manager (Guardian) acquisition strategy
- Multi-Service publication
<table>
<thead>
<tr>
<th>PUBLICATION</th>
<th>STATUS:</th>
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<tbody>
<tr>
<td>FMI 3-90.10</td>
<td>• Initial Draft complete Apr 07</td>
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<tr>
<td>“CBRNE Operational Headquarters”</td>
<td>• Staffing in progress (Army wide)</td>
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<tr>
<td></td>
<td>• Key stakeholder staffing (Joint)</td>
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<table>
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<tr>
<th>WAY AHEAD:</th>
<th>REMARKS:</th>
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<tbody>
<tr>
<td>• Use draft doctrine for JOCEX (Jul 07)</td>
<td>• Interim Field Manual</td>
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<tr>
<td>• Validate during UFL (Aug 07)</td>
<td>• Doctrine built upon approved O&amp;O</td>
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<tr>
<td>• Validation input complete (Sep 07)</td>
<td>• Implements JTF Elimination Handbook</td>
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<tr>
<td>• Complete final draft (Nov 07)</td>
<td>• Develops WMD-E operational and tactical tasks</td>
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<tr>
<td>• Publish FMI (Dec 07)</td>
<td>• Addresses JTF headquarters capability</td>
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<td>• Includes a Combating WMD primer</td>
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Training Support to Joint CBRN Force
## Functional Training (WMD-CST)

### COURSES
- Civil Support Skills Course (8w)
- CST Operations Course (1w)
- Analytical Laboratory System (ALS) Course (5w)
- Unified Command Suite (UCS) Course (4w)
- CST Pre-Command Course (1w)

### STATUS
- ALS course validated and is being conducted now at Bluegrass, KY
- UCS Course is anticipated to be institutionalized in FY08
- Trained over 200 Civil Support Team personnel in 2006

### REMARKS
- Civil Support Skills Course specifically designed to support domestic mission
- Civil Support Skills Course has received overwhelming positive feedback from CST students
- Courses are designed to be Joint/multi-agency focused
### FUNCTIONAL TRAINING

**USAR Domestic Response & Casualty Decontamination (DRCD)**

<table>
<thead>
<tr>
<th>COURSES</th>
<th>STATUS</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>CBRN Responder Course (2w)</td>
<td>• CBRN Responder under-going 2\textsuperscript{nd} validation</td>
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<tr>
<td>Mass Casualty Decontamination Course (1w,3d)</td>
<td>• Mass Casualty Decon pilot completed March 2007</td>
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<td></td>
<td>• Courses designed to support Defense Reform Initiative Directive 25 to improve military support for WMD incidents</td>
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<td>• Courses designed to support reserve component 14 day active training cycle</td>
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<td>• CBRN Responder Course includes emergency response competencies, site entry, sampling, and specialized equipment</td>
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<td>• Can support CERFP individual training requirements</td>
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**Functional Training**

**COURSES**

- Radiation Safe
- OPRAD Safe
- BIDS (P3I and JBPDS)
- Technical Escort (moving to 4w 3d)
- NBCRV (Stryker L6)

**STATUS**

- Updated all legacy courses
- Updated TE course pilot (Aug07)
- Radiation courseware updated to include lessons learned from OIF
- 1st L6 Course March 08

**REMARKS**

- Courses designed to complement full spectrum operations
- All course revisions are based on feedback from the field
Operational Update
Dangerous Times
 Operational Update

OIF LTC Allen/SGM Hill
Chemical Units Assigned

✓ Tech Escort Detachment
✓ 1/329 Recon Plt
✓ 4/181 S/D Plt
✓ 1 CD 4 Recon Plts (Fox)
✓ 3/25 ID Recon Plt
✓ 4/25 ID Recon Plt
✓ 2/2 ID Recon Plt
✓ 3/2 ID Recon Plt (Fox)
✓ 4/2 ID Recon Plt (SNBCRV)
✓ 2/10 ID Recon Plt
✓ 3/82 ABN Recon Plt
✓ 1/3 ID Recon Plt
✓ 2/3 ID Recon Plt (Fox)
✓ 3/3 ID Recon Plt
✓ 4/1 ID Recon Plt
✓ 790th CM Co

Chemical Staffs

<table>
<thead>
<tr>
<th>Iraq / Kuwait</th>
<th>Afghanistan</th>
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<tbody>
<tr>
<td>III Corps / 3rd Army</td>
<td>82nd ABN Div</td>
</tr>
<tr>
<td>25&lt;sup&gt;th&lt;/sup&gt; ID / 1&lt;sup&gt;st&lt;/sup&gt; CD / 3&lt;sup&gt;rd&lt;/sup&gt; ID</td>
<td></td>
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</tbody>
</table>

OIF 06-08: HQs, III Corps / 25 ID / 1 CD / 3 ID
OIF 07-09: HQs, XVIII Corps / 3 ID / 4 ID / 1 AD
OEF 07-09: HQs, 101<sup>st</sup> AA

Kuwait/CFLCC
LTC Bober/SGM McKenzie
Chemical Units Assigned

✓ 44<sup>th</sup> Chemical Company
✓ 7<sup>th</sup> Chemical Company

OEF LTC Fisher/SGM Velarde
Chemical Units Assigned

✓ 23<sup>rd</sup> CML BN (-)
  - HQ
  - 61<sup>st</sup> CM Co
  - 62<sup>nd</sup> Cm Co
✓ 4/82 ABN Recon Plt
✓ 3/10 MNT Recon Plt
✓ 26<sup>th</sup> CRD
Transformation
Transformation Strategy

More Capable ... Not Bigger

Unit-based transformation for a modular Army

- Elite CM Forces
  - OSIA
  - Spec Msn Units

- Special Purpose CM Forces
  - Technical Escort
  - Chem Recon Det (SF)
  - WMD Civil Support Team

- Specialized General Purpose CM Forces
  - Fox Recon
  - NBCRV
  - BIDS
  - HRD

- Specialized CM Forces
  - Decon
  - Smoke
  - Battle Staffs

Increase density of High End Units

Increase skill levels in General Purpose Units

SKILL DENSITY

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Questions?