



# ***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**



# Authority



## 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***



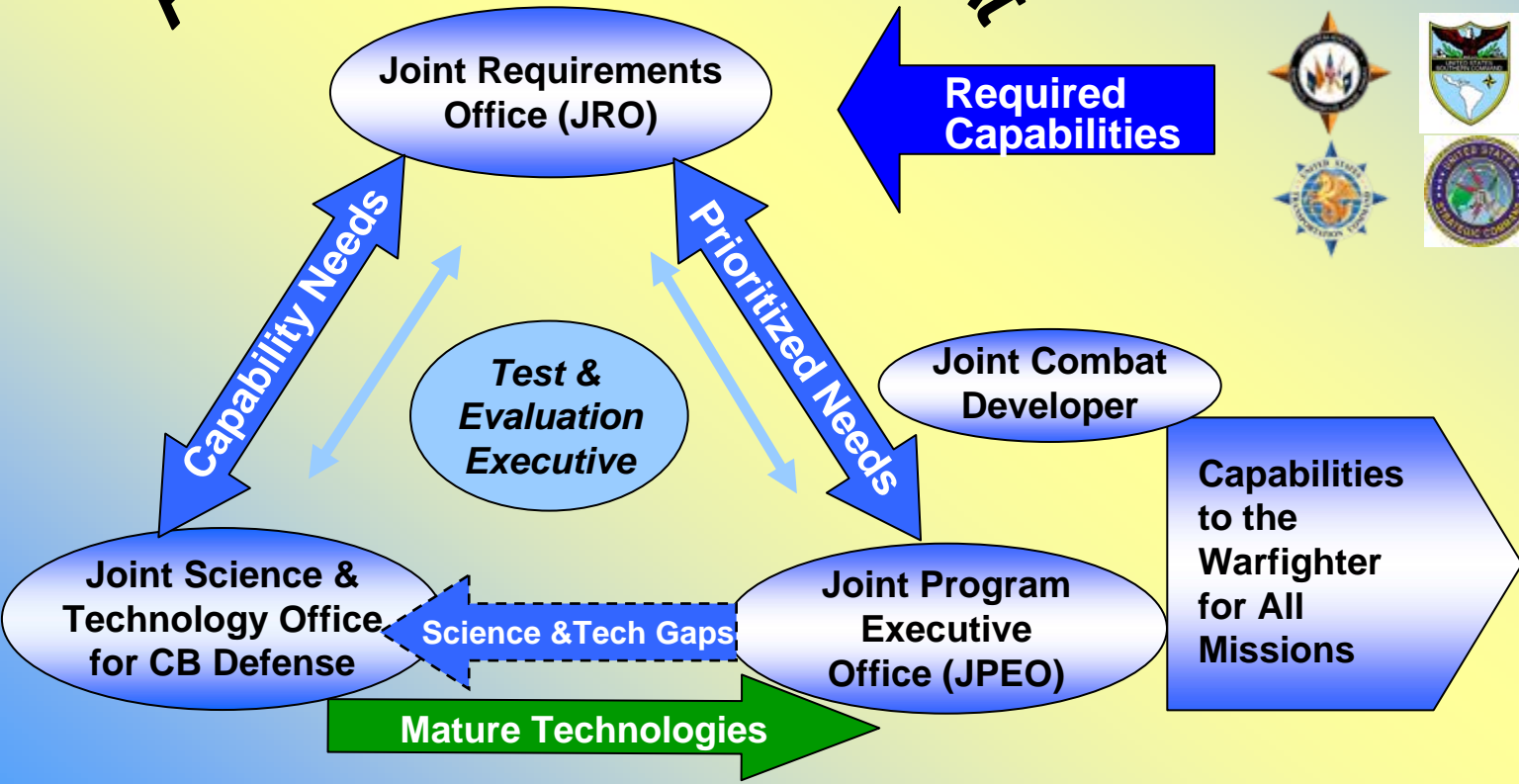
# CBDP Process



- Combatant Commanders
- Services



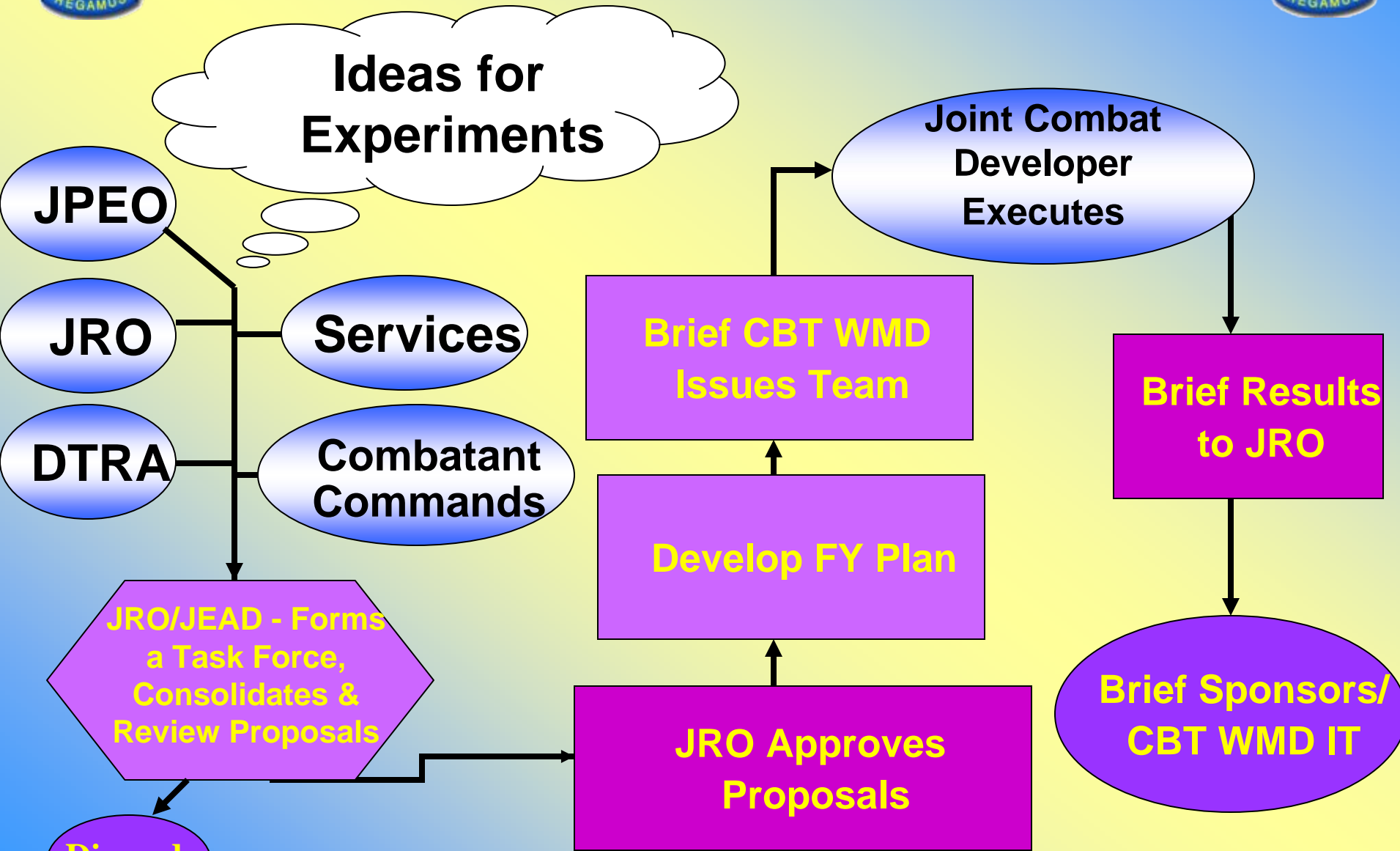
## ATSD(NCB) Oversight



**Process based on managing total program risk**



# Experimentation Process





# ***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 CBRN 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





# Mortuary Affairs Human Remains Decontamination



- **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***

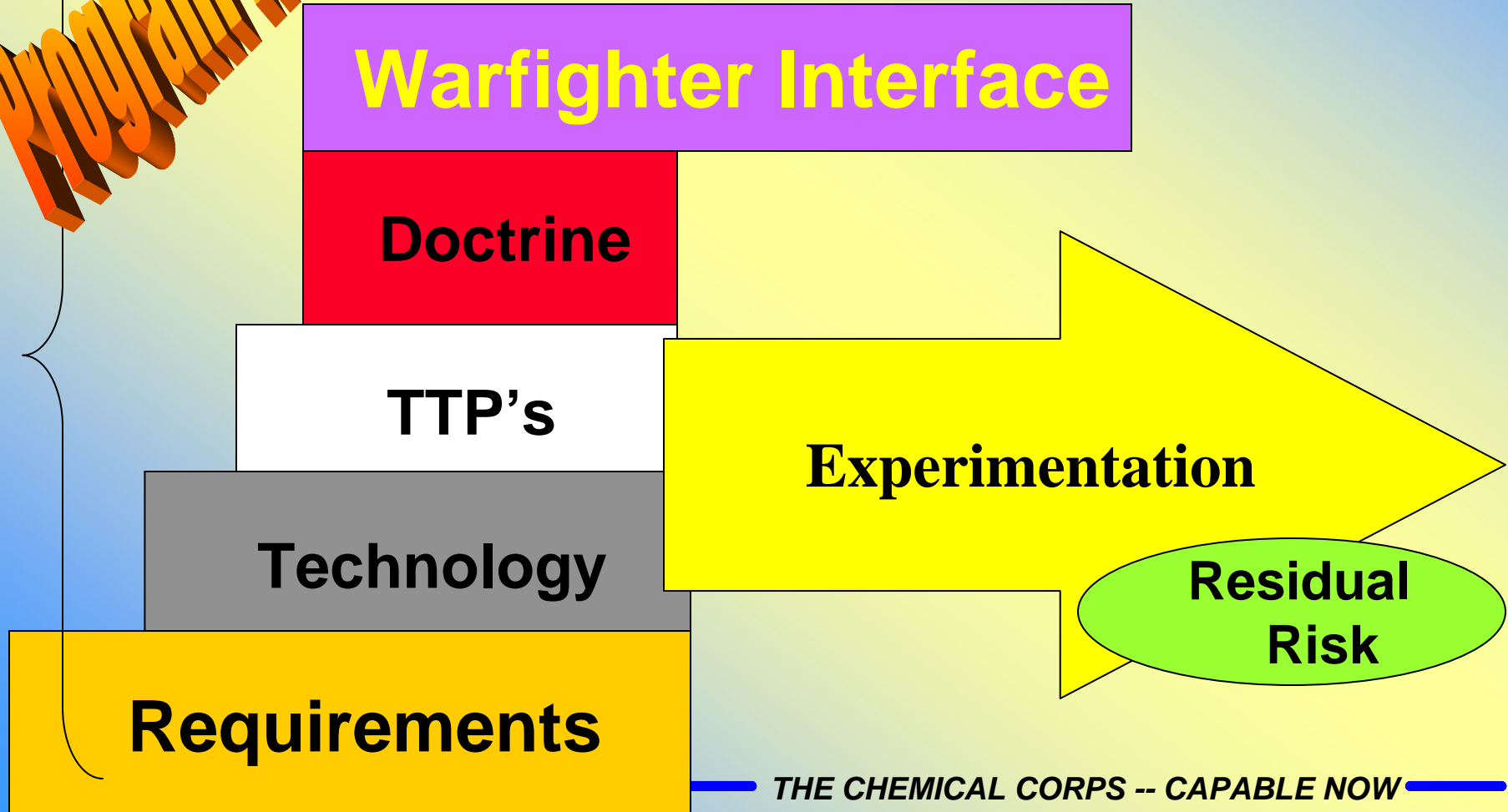


- **Sensitive Site Exploitation** – Develop & validate Concept of Operations
- **Standoff Chemical Agent Detection** – Validate CONOPS (USMC nominated)
- **Automation/Robotic Decontamination** – Develop & validate Concept of Operations and Tactics, Techniques and Procedures
- **Near and Long Term User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



# Value Added of the Joint Experimentation and Analysis Division

**Program Risks**





# ***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 1<sup>st</sup> anniversary review pending signature.

## Scope:

- Joint Chemical Biological Defense acquisition programs and experimentation
- Highest Priority: Director Operational Test & Evaluation Oversight Programs





# JTSB FY07 Production & Status

Program	Product	Event Supported	Status
Joint Chemical Agent Detector	System Threat Assessment Report (STAR)	Milestone Decision Review (MDR) C	Approved
Joint Service Lightweight Nuclear Biological Chemical Reconnaissance System	Joint Threat Test Support Package (JTTSP)	Multi-service Operational Test & Evaluation (MOT&E)	Approved
Joint Chemical Biological Defense Program (JCBPD) Information Systems (Battle Management	STAR	Joint Warning Network (JWARN), Joint Effects Model (JEM) & Joint Operational Effects Federation (JOEF) MDRs	Approved
Joint Chemical Agent Detector	JTTSP	Operational Analysis & MOT&E	Approved
Joint Chemical Biological Radiological Agent Water Monitor (JCBRAWM)	STAR	MDR	Service Comment Adjudication Review
Joint Expeditionary Collective Protection	STAR	MDR	Service Commend Adjudication Review



# JTSB FY07 Production & Status (Cont'd)



Program	Product	Event Supported	Status
JCBDP Decontamination Systems	STAR	MDRs	Pending Service Review & Comment
JCBDP Individual Protective Equipment	STAR	MDRs	Pending Service Review & Comment
Joint Biological Point Detection System (JBPDS) & Joint Biological Standoff Detection System (JBSDS)	STAR	MDRs	Post-Threat Working Group (TWG) Edits
JBPDS	JTTSP	MOT&E Phase VI	Post-TWG Edits
JCBRAWM	JTTSP	Program Test & Evaluation Cycle	Post-TWG Edits
JCBDP Information Systems (Battle Management)	JTTSP	MOT&E	Pending T&E Threat Requirement Determination



# *Value Added of the JTSB*



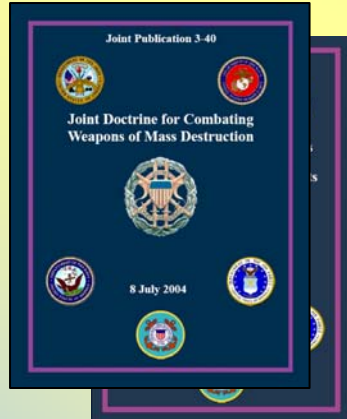
- One-stop-shop for JCBDP threat analysis.
- Acquisition lifecycle threat intelligence support, from requirements determination to fielding.
- Standardized threat support to counter disparities in service policies & procedures.
- Adapted procedures for support to all programs, exceeding the requirements of the JTSB Charter.



# ***Doctrine Support to the Joint CBRN Force***

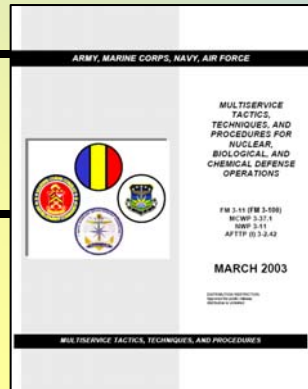


# Doctrine (1 of 3)

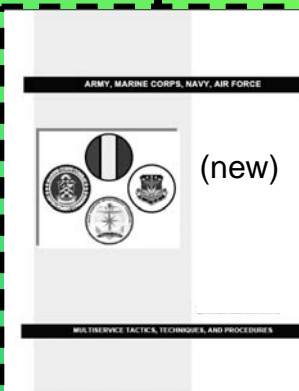


Combating  
WMD (JP 3-40)

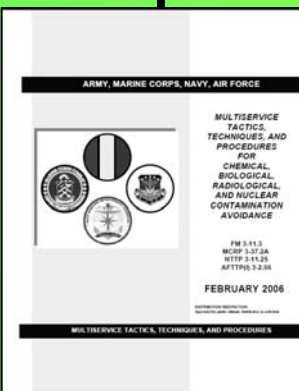
Operations in  
CBRN Environments  
(JP 3-11)



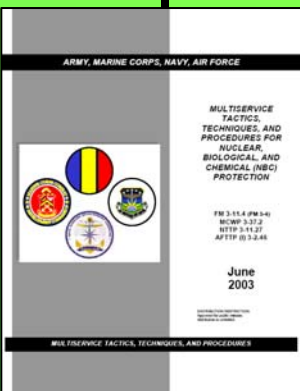
## CBRN Operations (capstone manual)



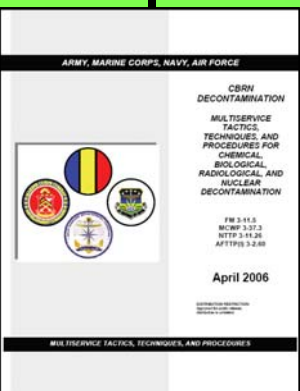
**WMD  
Elimination**



**CBRN  
Contamination  
Avoidance  
(Sense)**



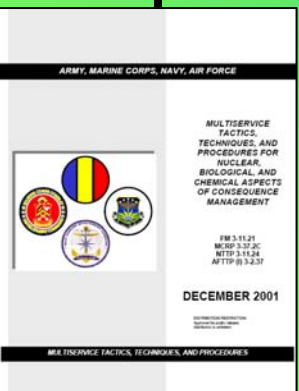
**CBRN  
Protection  
(Shield)**



**CBRN  
Decontamination  
(Sustain)**



**CBRN  
Command  
& Control  
(Shape)**



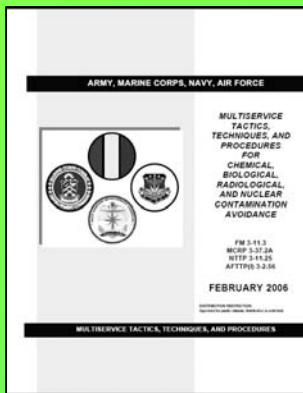
**CBRN  
Consequence  
Management**



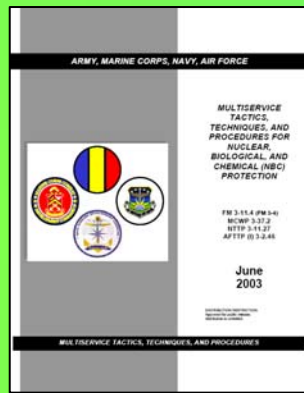
# Doctrine (2 of 3)



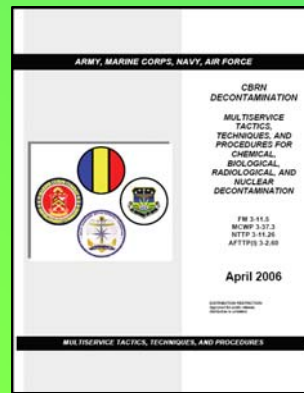
**WMD  
Elimination**



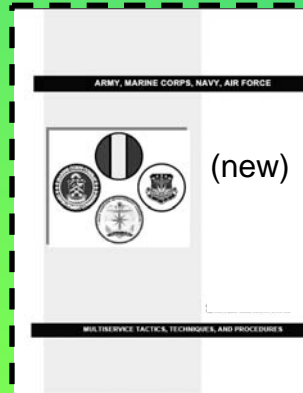
**CBRN  
Contamination  
Avoidance  
(Sense)**



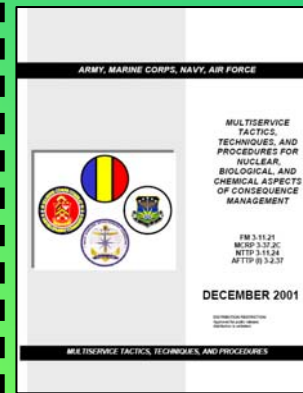
**CBRN  
Protection  
(Shield)**



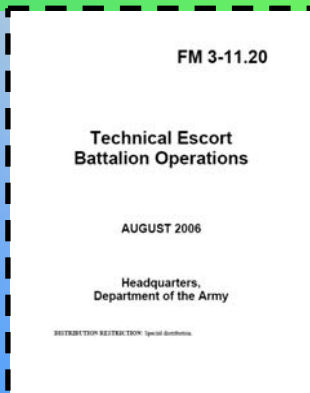
**CBRN  
Decontamination  
(Sustain)**



**CBRN  
Command  
& Control  
(Shape)**



**CBRN  
Consequence  
Management**



**Technical  
Escort  
Operations**



**CBRN Recon  
&  
Bio Surveillance**



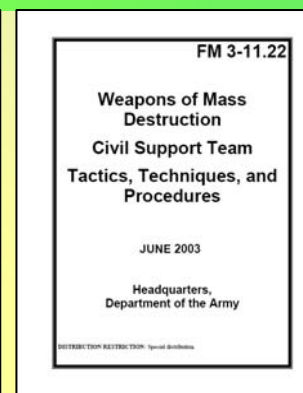
**Installation  
CBRN Defense**



**Vulnerability  
Assessment**



**CB Agents  
and Compounds**

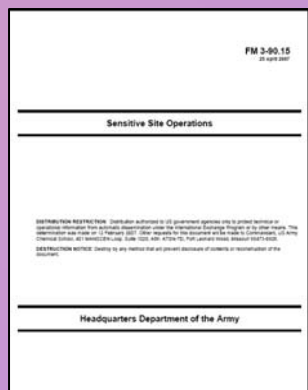


**WMD-CST  
Operations**

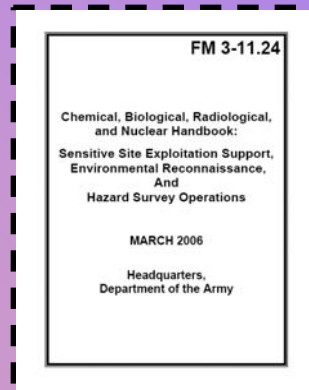


# Doctrine (3 of 3)

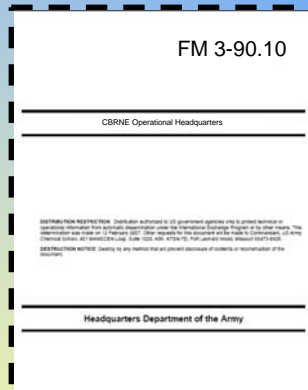
**Becoming  
Joint**



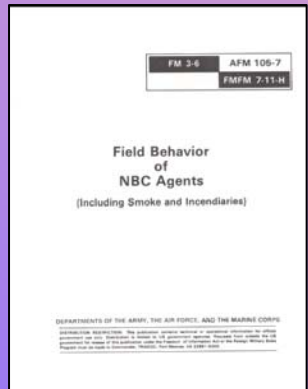
**SSE**



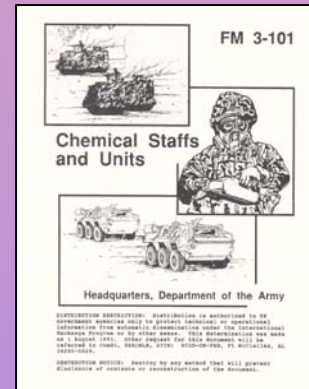
**CBRN Site Assessment**



**CBRNE Operational Headquarters**



**Field Behavior**



**Chemical Staffs and Units**



**Smoke Operations**





# 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

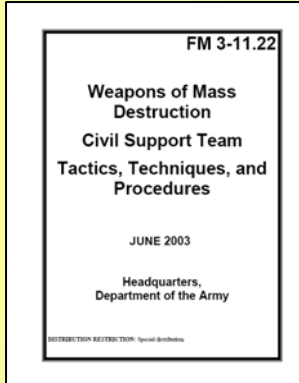


# WMD CIVIL SUPPORT TEAMS

## 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

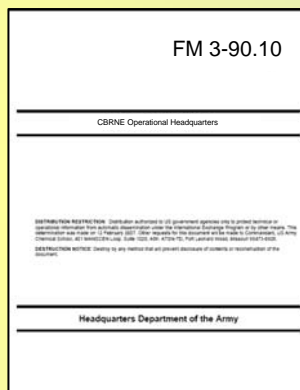


# 20<sup>TH</sup> SUPCOM (CBRNE)

## PUBLICATION

### FMI 3-90.10

*“CBRNE Operational Headquarters”*



## STATUS:

- Initial Draft complete Apr 07
- Staffing in progress (Army wide)
- Key stakeholder staffing (Joint)

## WAY AHEAD:

- Use draft doctrine for JOCEX (Jul 07)
- Validate during UFL (Aug 07)
- Validation input complete (Sep 07)
- Complete final draft (Nov 07)
- Publish FMI (Dec 07)

## REMARKS:

- Interim Field Manual
- Doctrine built upon approved O&O
- Implements JTF Elimination Handbook
- Develops WMD-E operational and tactical tasks
- Addresses JTF headquarters capability
- Includes a Combating WMD primer



# ***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

- CST Operations Pilot May 2007
- 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)*

## COURSES

**CBRN Responder Course (2w)**  
**Mass Casualty Decontamination Course (1w,3d)**

## STATUS

- CBRN Responder under-going 2<sup>nd</sup> validation
- Mass Casualty Decon pilot completed March 2007

## REMARKS

- Courses designed to support Defense Reform Initiative Directive 25 to improve military support for WMD incidents
- Courses designed to support reserve component 14 day active training cycle
- CBRN Responder Course includes emergency response competencies, site entry, sampling, and specialized equipment
- Can support CERFP individual training requirements





# 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
- 1<sup>st</sup> 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



## OEF LTC Fisher/SGM Velarde Chemical Units Assigned

- ✓ 23d CML BN (-)
  - HQ
  - 61st CM Co
  - 62nd Cm Co
- ✓ 4/82 ABN Recon Plt
- ✓ 3/10 MNT Recon Plt
- ✓ 26th CRD

## Kuwait/CFLCC LTC Bober/SGM McKenzie Chemical Units Assigned

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

### Chemical Staffs

Iraq / Kuwait	Afghanistan
III Corps / 3rd Army 25 <sup>th</sup> ID / 1 <sup>st</sup> CD / 3 <sup>rd</sup> ID	82 <sup>nd</sup> ABN Div

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

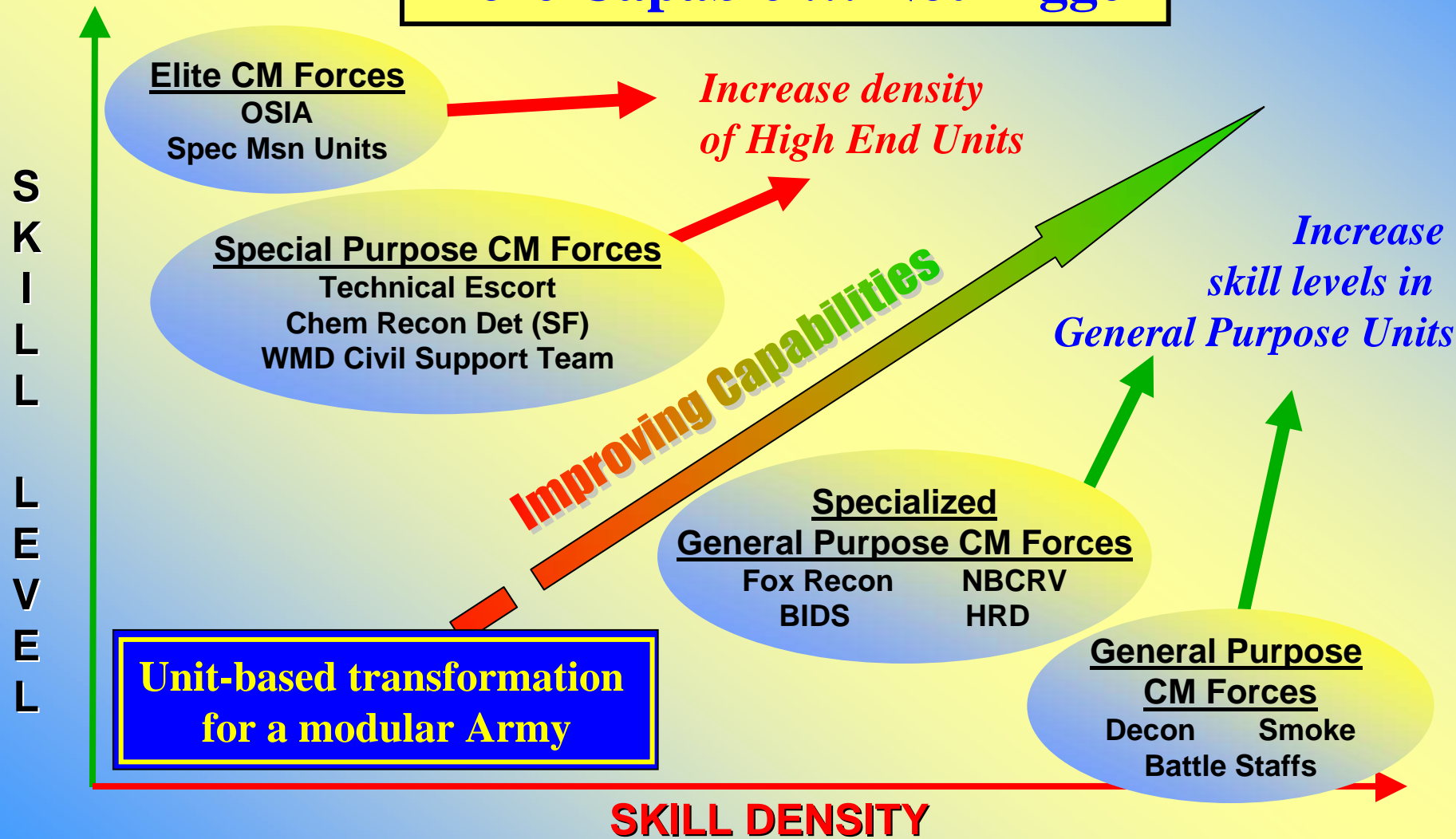


# ***Transformation***



# Transformation Strategy

**More Capable ... Not Bigger**



***Questions?***