Joint Chemical Ensemble (JCE)

(Caveat: This is a JPM IP Concept Brief. What JCE is or is not requires additional coordination with all involved DoD agencies)

Joint Project Manager – Individual Protection

CB Individual Protection Conference

March 2006
Agenda

• Capabilities Documentation
• Program Influences
• Program Description
• MOSA Concept
• Warfighting Mission Areas
• Notional System Relationships
• Proposed RDT&E Contract Concept
• Proposed Production Contract Concept
• Funding
Capabilities Documentation

- Initial Capability Document (ICD) not yet established

Program Influences

• Market Surveys

• Performance Based Logistics (PBL)

• PD TESS Efforts. Validate improved range of agent protection; reduce heat stress through using absolute protection values that allows trade offs. Ties into JPM IP Modeling strategy.

• Advanced Technology Demonstration of a Modular Chemical/Biological Protective System.

• JPM IP Ongoing Programs
Program Description

• **Family of Systems. Capabilities across mission spectrum.**
  – Warfighter Mission Areas
  – Counterproliferation
  – Consequence Management

• **Dual Use Capabilities.**
  – Federal Departments (DoD, DHS, DOJ)
  – State and Local Authorities
A system – is a collection of interacting...

...subsystems – which are collections of interacting...

...components – either hardware, software, or human, ...

...that are connected by interfaces – to support the interchange of information, activity, or material essential to the functioning of the system.
## Warfighter Mission Areas

### GROUND
- Amphibious Ops
- Reconnaissance
- Ground Fires
- Heavy Mech.
- Light Mech
- Air Defense
- Combat Engineering
- MOOTW

### AVIATION
- Maintenance
- Supply
- Health Services
- AT/FP
- Transportation
- Deliberate Engineering
- Services

### LAND-BASED & SHIPBOARD C2
- Strike/Interdiction
- Air-to-Air
- Close Air Support
- Maritime Patrol
- Air Reconnaissance
- Airborne Early Warning (AEW)
- Electronic Warfare (EW)
- Anti-Surface Warfare (ASU)
- Anti-Submarine (ASW)
- Search and Rescue (SAR)

### FIXED WING + ROTARY WING
- Transport
- Medical Evac
- Assault Support
## Notional System Relationships

### FOS

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<th>MIX &amp; MATCH</th>
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### MISSIONS AREA SYSTEMS

- **SPECIAL MISSION**
- **RW AVIATION**
- **GROUND**
- **SHIPBOARD**
- **FW AVIATION**

### SYSTEM COMPONENTS

- **SUIT**
- **HANDWEAR**
- **FOOTWEAR**
- **MASK**

The diagram illustrates the relationships between different areas and components, highlighting how systems and equipment can be mixed and matched modularly.
Proposed RDT&E Contract

• Initial concept: hybrid type contract
  – Firm Fixed Price
  – Cost Plus Fixed Fee
  – Time and Material

• Competitive Acquisition
  – FAR Part 15
  – Cost and Pricing Data

• A defined unsolicited proposal process will be in place
Proposed RDT&E Contract (continued)

• Best Value Procurement
  – Technical Proposal
  – Past Performance
  – Price

• Indefinite Technical Services
  – Team Approach (polymers, textiles, membranes, nano-technology)
  – Concept Refinement/Design Development
  – Prototyping
  – Technical Data Packages, Specifications, Training Products
  – Packaging/TAV
Proposed RDT&E Contract (continued)
Tentative Timeline

- Request for Information    January 07
- Sources Sought Synopsis    March 07
- Industry Day (Pre-proposal conf)  April 07
- Draft Request for Proposal  June 07
- Final RFP                   August 07
- Proposals Due              October 07
- Contract Award             January 08
Production Contract

• 2011?

• Performance Based Logistics

• Product Support Integrator
  – Supply Chain Management
  – Warehouse Management
  – Distribution and Direct Vendor Delivery
  – Total Asset Visibility
  – Total Life Cycle Management

• Incorporates All JPM-IP Legacy Items
## JCE Funding

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Questions