



Joint Expeditionary Collective Protection

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Program Objective

Design, develop, integrate, test, procure and field a Family of Systems that will provide a collective protection capability to the Joint Expeditionary Forces





Increment 1 Program Overview

- **Includes the entire Family of Systems**
 - Tent kit
 - Structure kit
 - Standalone configurations
 - Man-portable
 - Small
 - Medium
 - Large
- **Supports Command & Control (C2), Medical, & Rest and Relief (R2) missions**
- **Focus for increment 1 is:**
 - Full range of protection against traditional CB agents & select TIMs
 - Easily transportable
 - Quick erect and strike
 - Minimal logistics footprint



Family of Systems (FoS)

- **CP Tent Kit**
 - A lightweight, easily maintained, assembled and disassembled CP capability added to selected fielded tents
- **CP Structure Kit**
 - One or more approaches to render an enclosed space of opportunity collectively protected
- **Standalone Shelter System**
 - Collectively Protected shelter system which is self contained, lightweight, easily transported, erected, and struck.



Key Performance Parameters

- **KPP1 – CB Protection**
 - CB Warfare agents in vapor, aerosol and particulate form
 - Minimum protection time varies by configuration
- **KPP2 – Weight/Cube**
 - Transportability
- **KPP3 – Individual Lift**
 - Number of personnel required (Portability)
- **KPP4 – Sustainment**
 - Materiel Availability



Design Goals

- **ColPro should be as transparent as possible to users**
- **Minimize or eliminate the need for Military Handling Equipment**
- **FoS component & subsystem commonality and interface standardization to the greatest extent possible**
- **Minimize application unique designs**
- **Modularity, flexibility, affordability, supportability**
- **Backward compatibility with selected existing ColPro applications**



Program Milestone Events

- **MS-A Decision** **Completed**
- **Issue Draft RFP** **Completed**
- **Issue Formal RFP** **1Q08**
- **CDD Approved** **2Q08**
- **MS-B Decision** **2Q08**
- **SDD Contract Award** **2Q08**
- **CPD** **2Q10**
- **MS-C Decision** **3Q10**



Technology Demonstrations

- **Whole CP System characterization and user evaluation**
 - Weight reduction greater than 31%
 - Cube reduction greater than 15%
 - Set-up and strike time reductions greater than 50%



Technology Demonstrations

- **Demonstrate quick erect technologies applied to airlocks**
 - Single person set-up and strike time reduction greater than 50%
 - Multi-person set-up and strike time reduction greater than 40%



Technology Demonstrations

- **Demonstrate a quick erect liner for use in multiple tents**
 - Demonstrated in CPSSS and TEMPER
 - Set-up and strike time reduction greater than 75%



Technology Demonstrations

- **User evaluation of passive CBRN protective tents**
 - Provided acceptable protection
 - Better than average rating from participating warfighters





Test and Evaluation

- **Parallels the systems engineering process**
 - Anomalies and Deficiencies identified early and resolved prior to LRIP
- **Integrated Test and Evaluation**
 - Integrated Test Team Charter
 - Coordination of all Gov't DT and OT through a comprehensive Design of Experiment
 - Integrated Test Team: Program Office, Contractor, DT & OT Representatives
 - Common data collection, analysis and reporting
- **Test data will feed a system performance model**
- **No Live Fire Testing anticipated**
- **System level testing with simulants only**



Integrated Logistics Support

- **Maintainability, Transportability and ease of Erect / Strike early primary considerations**
- **Joint Service Supportability WIPT**
 - Program Office, Contractor and User membership
- **Joint Supportability Strategy (JSS)**
 - Level of repair analysis will determine maintenance philosophy (2 level vs 3 level)
- **Performance Based Logistics and Contractor Logistics Support will be assessed through Business Case Analysis**