

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





- 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%



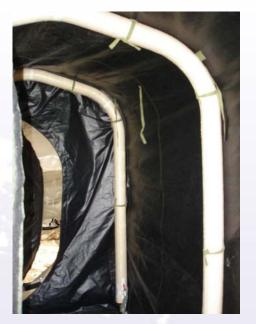




- Demonstrate quick erect technologies applied to airlocks
 - Single person set-up and strike time reduction greater than 50%
 - Multi-person set-up and strike time reduction greater than 40%











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





- 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