Chemical and Biological Protective Shelter (CBPS)

A Program for Our Times

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Agenda

• CBPS System Overview
• Evolutionary Capability
• Up-Armor Initiative
• A Single Design?
• So Why a Partnership Success
• Closing Thought
Mobile system that can be operationally deployed in 20 minutes (40 minutes in C/B environment) to provide medical user with a C/B protected and environmentally controlled medical space to execute the mission without the encumbrance of individual protective clothing and equipment.
Evolutionary Capability

• Integrated Product Team recommendation: incorporate electric-based solution
  – 64 hydraulic CBPS-M1 systems deployed showed reliability issues

• DRS Sustainment Systems, Inc. (DRS)
  – Electric CBPS on un-armored HMMWV platform
  – “Retrofit” existing hydraulic CBPS-M1 fleet to electric design

• Smiths Detection, Incorporated (SD)
  – Contract award for new electric variant on un-armored HMMWV platform
Up-Armor Initiative

- Army up-armor capability became a priority during the DRS and SD electric design efforts
- CBPS program conducted *Up-Armor Trade Study* analysis
  - Recommended Medium Tactical Vehicle (MTV)
- JPEO-CBD approved
- Armored Data Interchange System Summit approved
Two Designs...Two Bills

- DRS and SD to produce separate designs
  - On same up-armored MTV platform…but with two configurations
- No commonality of major CBPS components
  - Two sets of operator configurations
  - Two sets of logistics/supply chains

Illustrative Program Life-Cycle

Is a single design partnership possible?
Partnership

• DRS and SD approached about “single design”

• Recognized benefits to the Government…but does it benefit each company?

• Initially cautious…but continual progress
  – Required changed worldview from both sides
  – Unprecedented data exchanges

• Government involvement minimal
Partnership

• Partnership formation objectives
  – Provide best value system to the Government
  – Equitable work / revenue share
  – Maintain existing contractual arrangements

• Intense discussions over several months

• Outcome: DRS and SD agree to joint CBPS-M4A teaming arrangement

An Acquisition Success Story
Flexibility and innovation to benefit the Warfighter… while strengthening the Industrial Base
CBPS-M4A Single Design

- Environmental Control Unit
- Lift Crane
- Dual 25kW Generators
- Medical & System Equipment
- GPFU
- Small Enclosure (includes control panel & medical equipment)
- 400-ft² Air Beam Shelter

M1085A1 MTV (including LTAS armor)

Proprietary Information to DRS and to the DRS/Smiths Team
So Why a Partnership Success

Base-Pair Change Model

- Culture
- Leadership
- Trust
- Communication
So Why a Partnership Success

DRS

SD

Base Pairs

Backbone

JPM-CP
Summary

• “Out of the box” acquisition approaches are encouraged
  – Recognized that one size does not fit all

• CBPS-M4A an example of what’s possible
  – Not the easy solution…but most beneficial

• Adhering to “base-pair traits” will enhance probability of success
“As our case is new, so we must think anew, and act anew.”

*President Abraham Lincoln, 1862*
Questions?