



Joint Program Executive Office for Chemical and Biological Defense

Joint Program Executive Office for Chemical and Biological Defense

Meeting Major Defense Acquisition Programs (MDAP)
Chemical, Biological, Radiological and Nuclear (CBRND)
Survivability Requirements

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Agenda



- Background
- MDAP Support Concept
- MDAP Support Process
- MDAP Assistance
- MDAP Efforts



Background



- April 2003: USD AT&L in accordance with Public Law 103-160, Sect. 1703 (50 USC 1522) established the Program Executive Office for Chemical and Biological Defense (JPEO-CBD) as the materiel developer for Chemical, Biological and Radiological (CBR) capability
- June 2006: USD AT&L directed the JPEO-CBD to assist with the development and acquisition of Chemical & Biological Defense (CBD) subsystems in support of non-CBD platforms
- October 2009: JPEO-CBD established the MDAP Trail Boss to maximize return on investment by leveraging JPEO-CBD expertise and product portfolios to provide non-CBD programs with CBRN Survivability and Force Protection capabilities
- April 2015: DoDI 3150.09 directed that CBRN mission-critical systems be CBRN survivable and requirements addressed in JCIDS documents



JPEO-CBD MDAP Support Concept















JPEO-CBD MDAP SUPPORT CONCEPT

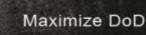
SURVIVABILITY REQUIREMENTS

CAPABILITY NEEDS

> SURVIVABILITY ASSESMENT

SURVIVABILITY INTEGRATION

GBRN MDAP TRAIL BOSS



Return on Investment

by Leveraging the JPEO-CBD's

Expertise and Product Portfolio to Provide

Programs with CBRN Survivability Capabilities



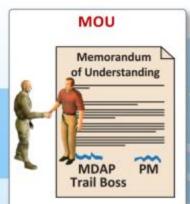
JPEO-CBD MDAP Support Process







Understanding of Weapon System Program's CBRN Survivability Support Needs



Source: CBRN Survivability Handbook, Rev 3, May 2015

CBRN Defense Requirements Development

Survey of Existing CBRN Defense Solutions



Agreed to Set of CBRN Survivability Solutions

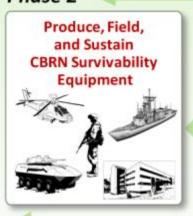
Preliminary T&E and Logistics Planning

CBRN SME Support

IPT and Technical Review Support



Phase 1
Phase 2



Platform-Level T&E Support Deliver CBRN Survivability Equipment for Platform-Level Testing



Design, Fabricate, Test, and Integrate CBRN Defense Solutions

CBRN Assessment Support (Milestones B and C)

Logistics Planning Support

CBRN SME Support

IPT and Technical Review Support

MDAP Support Process, Tailored to Meet the Program's Needs



MDAP Trail Boss Assistance



- Develop MOU's/MOA's
- Coordinate CBRN SME support
- Perform systems engineering analyses to develop CBRN-specific operational and technical requirements, and/or develop recommended CBRN-specific requirements for inclusion in the program's CDD/CPD
- Perform systems engineering analyses to identify existing CBRN materiel solutions to best meet documented requirements
- Identify performance gaps between existing materiel and technical requirements
- Help address DODI 3150.09 mandates

- Develop cost and schedule estimates to remedy identified CBRN gaps
- Help develop equipment purchase plans
- Help develop TTPs to address identified CBRN gaps
- Identify, assess, and track CBRN risks
- Conduct preliminary CBRN T&E and logistics planning
- Develop CBRN defense architectures products
- Perform trade space analyses to optimize CBRN survivability capabilities within cost and schedule constraints

Provide support to non-CBD Program Managers by facilitating and coordinating pathways through CBRN requirements



Ground Mobile Systems CBRN Integration







Ship Systems CBRN Integration

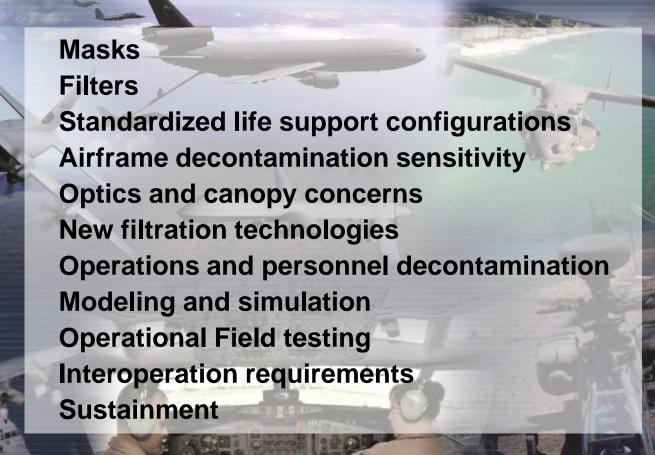






Aircraft Systems CBRN Integration







Fixed Site Systems CBRN Integration

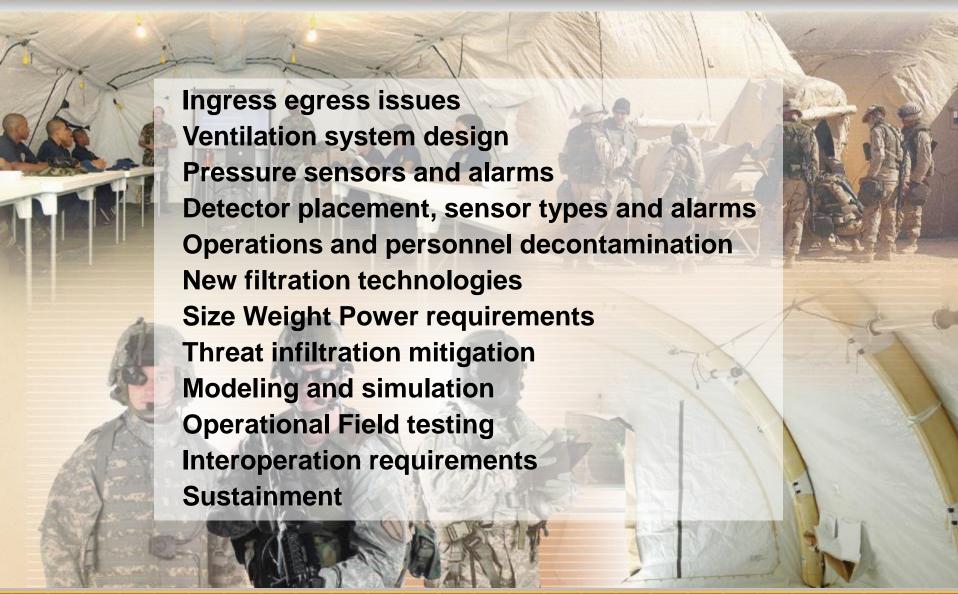






Transportable CBRN Integration







Conclusion



- MDAP Trail Boss is the "Go-To" resource for assisting CBRN Mission Critical programs in meeting their CBRN requirements
- Maximize DoD return on investment by leveraging JPEO-CBD expertise and product portfolio to provide non-CBD programs/organizations with CBRN Survivability capabilities
 - Provide single access point to the full spectrum of CBRN expertise
 - Tailored services to support programs' cost, schedule, and performance requirements
 - Promotes consistency of CBRN defense capabilities and systems' architectures across Services
 - Reduce risk to CBRN solution development and integration
 - Maximize affordability
- Weapon system programs get maximum benefit when MDAP Trail Boss Team engages early in the acquisition lifecycle
 - Pre-CDD is the optimal time



MDAP Point of Contact



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REFERENCES:

- USD(AT&L) Memo, Chemical and Biological Defense (CBD) Program Support for Non-CBD Acquisition Programs dated 6 June 2006
- DODI 3150.09 Chemical Biological, Radiological, Nuclear (CBRN) Survivability Policy dated 8 April 2015