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Joint Project Manager, Protection (JPM P)



Joint Program Executive Office for Chemical and Biological Defense

Major Defense Acquisition Program (MDAP) Trail Boss Overview and Joint Strike Fighter Decontamination Shelter System

Stephen Beaudoin
Platform Manager for Aircraft & Transportable Platform
CBRN Survivability
508-233-5136
stephen.beaudoin@us.army.mil

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JPM Protection/MDAP Trail Boss Overview

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JPEO-CBD New Organizational Structure Implemented FY11



Nine (9)
Joint Project Managers

Seven (7)
Joint Project Managers

3 JAN 11

Joint Project Manager Collective Protection
(MDAP Trail Boss)

Joint Project Manager
Individual Protection

Joint Project Manager
Decontamination



Integrates three JPMs
and Trail Boss Initiative:

- Individual Protection
- Collective Protection
- Decontamination
- MDAP Trail Boss

Joint Project Manager Chemical Biological Medical Systems
(Biosurveillance Trail Boss)

Joint Project Manager
Transformational Medical Technology

Joint Project Manager Contamination Avoidance
(Non-Traditional Agent Trail Boss)

Joint Project Manager
Biological Defense

Joint Project Manager Guardian
(Integrated Base Defense Trail Boss)

Joint Project Manager Information Systems
(Information Mgt/Technology Trail Boss)

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Joint Project Manager
Biological Defense

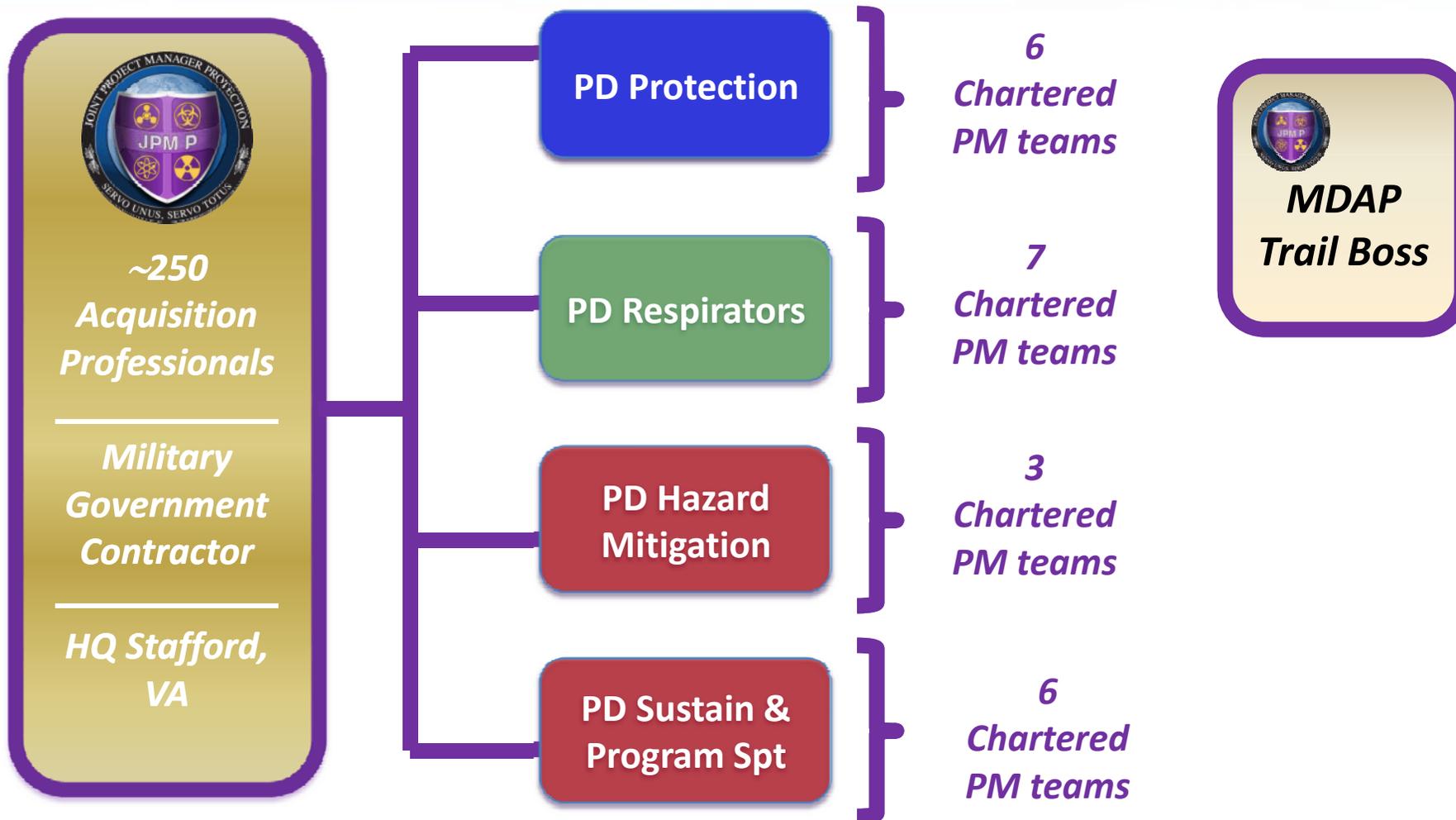
Joint Project Manager Guardian
(Integrated Base Defense Trail Boss)

Joint Project Manager Information Systems
(Information Mgt/Technology Trail Boss)





JPM Protection Organization



JPM Protection: A diverse and accomplished workforce drawn from Stafford HQ, NSWC Dahlgren, ECBC and Natick (NSRDEC)



MDAP Trail Boss Mission and Vision



Mission

Facilitate the research, development, testing, procurement, operations and sustainment, and delivery of CBRN Survivability and Force Protection systems in support of DoD programs designated as CBRN Mission Critical and those requiring CBRN capabilities

Vision

Develop, demonstrate, and provide CBRN Survivability and Force Protection solutions that are integrated into DoD acquisition program architectures and schedules in order to provide capabilities that allow missions to be successfully performed in CBRN threat environments



MDAP Trail Boss Concept



Component Expertise

IM/IT Trail Boss

JPM IS



Early Warning and Reporting
Transport and Diffusion Modeling
Decision Support

CBRN Architecture

IBD Trail Boss

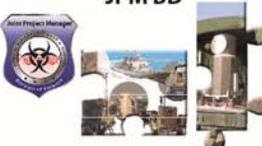
JPM Guardian



COTS IPP

Synchronization/Integration of Force Protection Capabilities

JPM BD



Point Biological Detection
Stand-off Biological Detection
Tactical Biological Detection

Biosurveillance Trail Boss

JPM CBMS



Therapeutics
Vaccines
Biological Identification

Global Surveillance of Bio Activities

JPM TMT



Advanced Therapeutics

MDAP Trail Boss

JPM P



IPE
ColPro
Decon

Integrating CBRN Survivability into Platforms

NTA Trail Boss

JPM CA



Radiological Detection
Stand-off Chemical Detection
Point Chemical Detection

Combating Emerging Threats

MDAP "Trail Boss"

CBRN Capability Sets

Platform Specific Systems



Maximize DoD Return on Investment by Leveraging JPEO-CBRN Expertise and Product Portfolio to Provide Programs with CBRN Survivability Capabilities



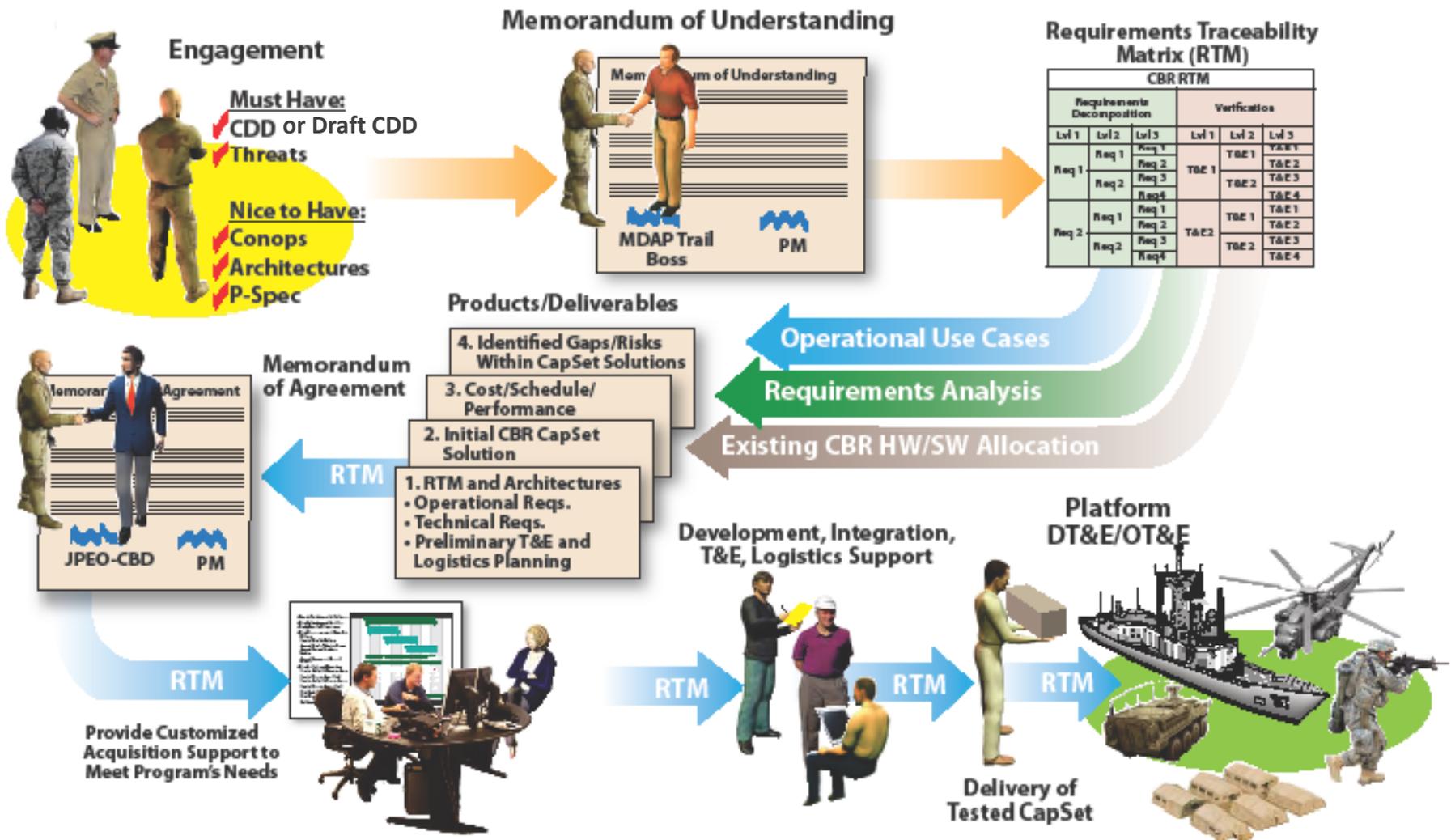
CBRN Survivability Support and Services



- Acquisition Strategy Development Support
- Systems Engineering of CBRN systems
- CBRN Assessment Support
- Technical Requirements Analysis, Development, and Management
- Customized, comprehensive CBRN defense solution for each weapon system program
- Development/Integration of CBRN equipment (as needed)
- Test & Evaluation (T&E) Support
- Logistics Support
- Modeling & Simulation (M&S) Support
- Documentation
- Technical Review Support
- IPT Support
- CBRN Subject Matter Expertise

Full Range of Acquisition Support

MDAP Trail Boss Support Process



Tailored to Meet the Customer's Needs



MDAP Support Status Snapshot



Product Area	System	Support Status	Agreements
Fixed Site	US Strategic Command (USSTRATCOM)	Actively Supporting	MOU Approved
	Missile Defense Agency (MDA)	Actively Supporting	MOA Being Staffed
Ships	DDG-51 FLT III	Actively Supporting	MOU Approved
	USCG Off-shore Patrol Cutter (OPC)	Actively Supporting	IAA In process
	Ship to Shore Connector (SSC)	Actively Supporting	MOU Being Staffed
Ground Mobile	Brigade Combat Team Modernization (BCTM) <i>(Only Supporting MULE and SUGV Systems)</i>	Actively Supporting	MOA Approved (Being Updated)
	Joint Lightweight Tactical Vehicle (JLTV)	In Discussions to Support	—
	Ground Combat Vehicle (GCV)	In Discussions to Support	MOA In Process
	Stryker Armored Fighting Vehicle	In Discussions to Support	—
Aircraft	Joint Strike Fighter (JSF)	Actively Supporting	MOA Approved
	KC-46A Tanker	In Discussions to Support	MOU In Process
	Integrated Aircrew Ensemble (IAE)	Actively Supporting	MOA Approved
Transportable	Mounted Soldier System (MSS)	Actively Supporting	—
	Air Soldier System (AirSS)	In Discussions to Support	MOA In Process

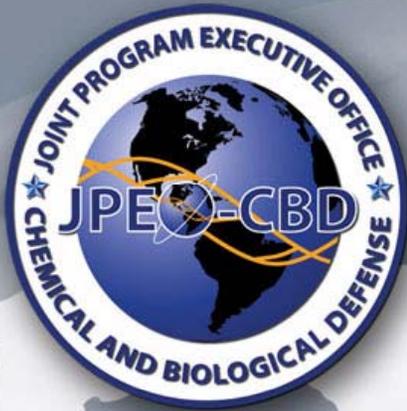
Actively Supporting All Services, Joint Organizations, and U.S. Coast Guard



Summary



- **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 programs with CBRN Survivability capabilities**
 - Reduce risk to CBRN solution development and integration
 - Maximize affordability
 - Provide single access point to the full spectrum of CBRN expertise
 - Tailored services to support programs’ cost, schedule, and performance requirements
- **Ability to provide full range of acquisition support**
- **Weapon system programs get maximum benefit when MDAP Trail Boss Team engages early in the acquisition lifecycle**
 - Pre-CDD is the optimal time



Joint Strike Fighter (JSF) Decontamination Shelter System



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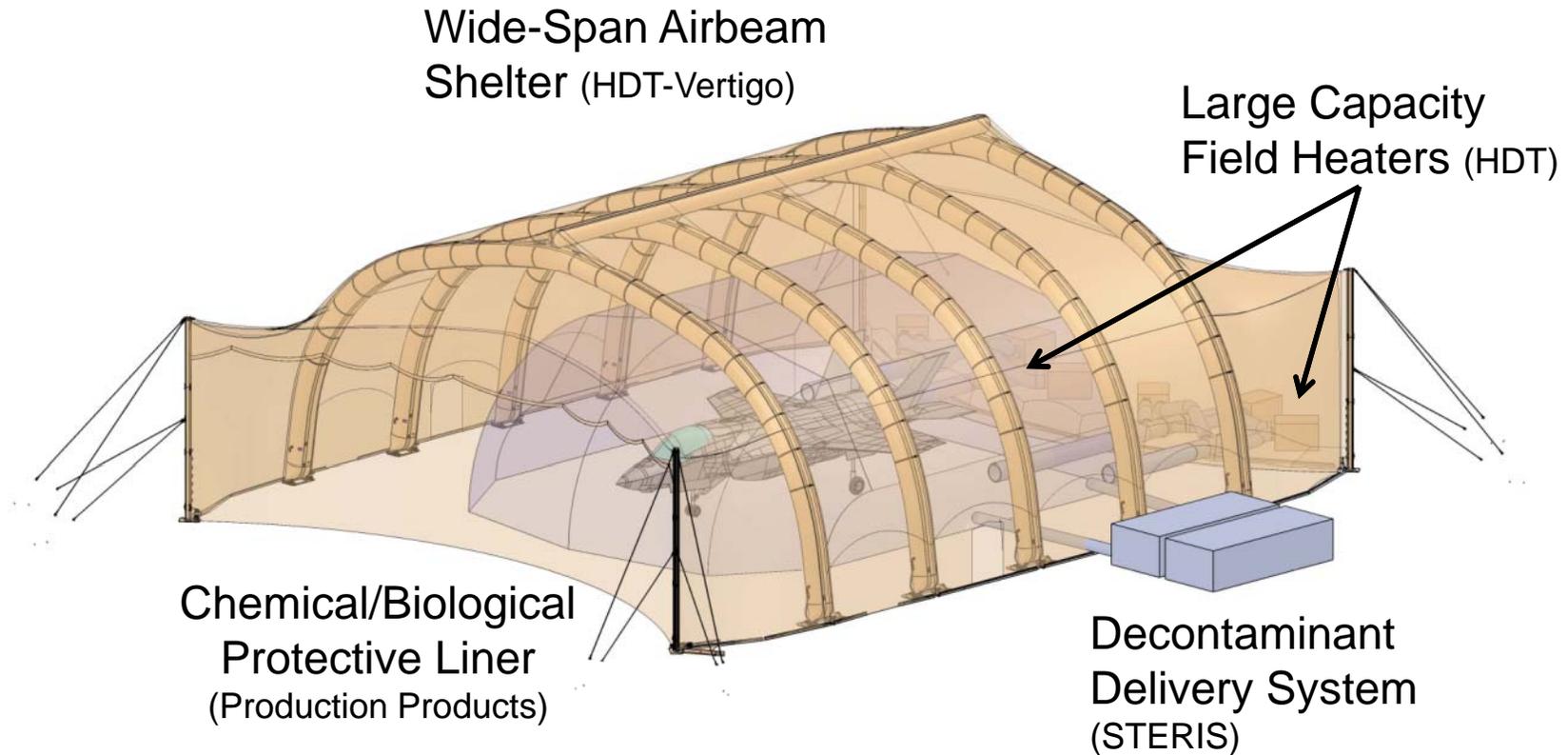
JSF CBRN Survivability



- **MOA between JPEO-CBD and PEO-JSF signed Jan 2010**
- **Deliverables**
 - **Joint Service Aircrew Mask-JSF Variant**
 - **Aircraft Decontamination System**
- **Live Fire Test & Evaluation 4QFY15**
- **Decontamination Processes**
 - **Chemical Agent: Hot Air - Dry**
 - **Biological Agent: Hot Air - Humid**



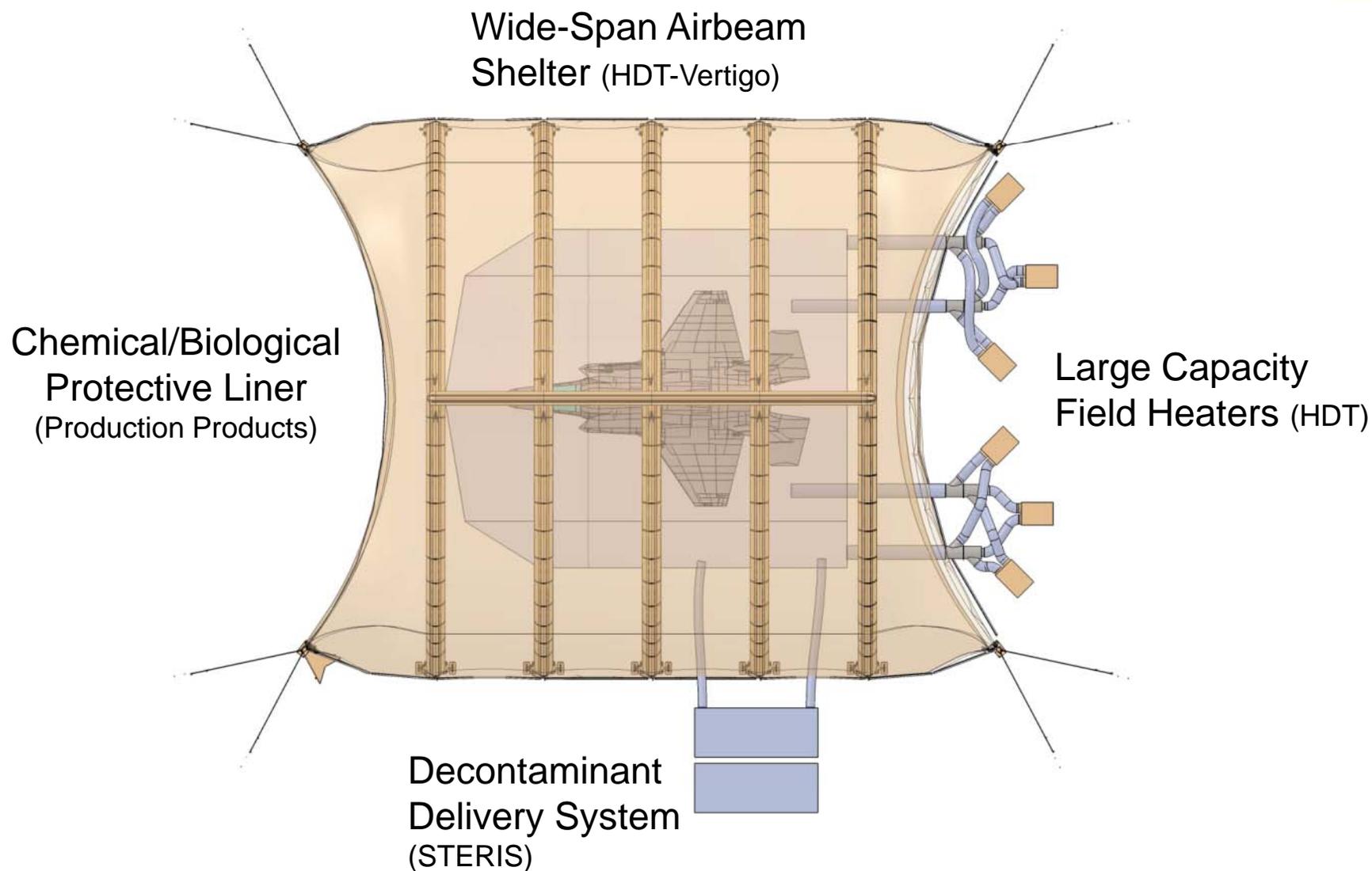
JSF Decontamination Shelter System



Prototype to demonstrate Decon capability at the JSF Live Fire T&E 4QFY15



JSF Decontamination Shelter System





JSF Decon Shelter



- HDT Expeditionary Systems, Inc. Lake Elsinore, CA
- 5-beam version of the Aviation Inflatable Maintenance Shelter (AIMS)
- 112'L x 85'W x 39'H

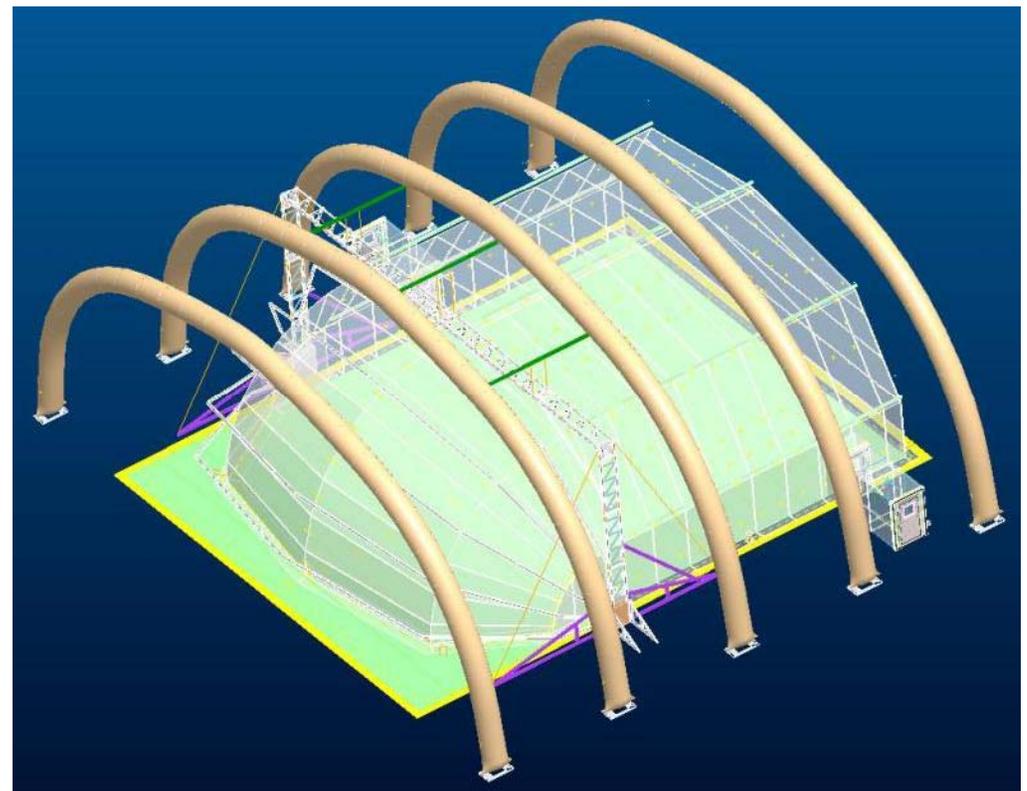
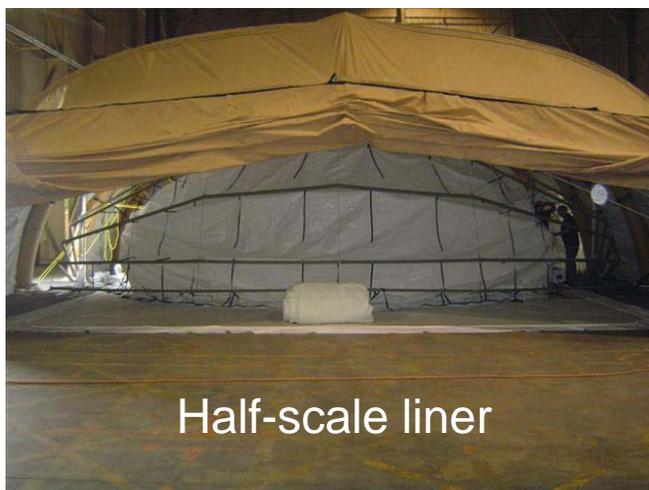




JSF Decon Shelter Liner



- Production Products, St. Louis, MO
- Decon Liner, Insulation, Clam Shell Door, Shelter Attachment, Non-Destructive Anchoring, Airlocks



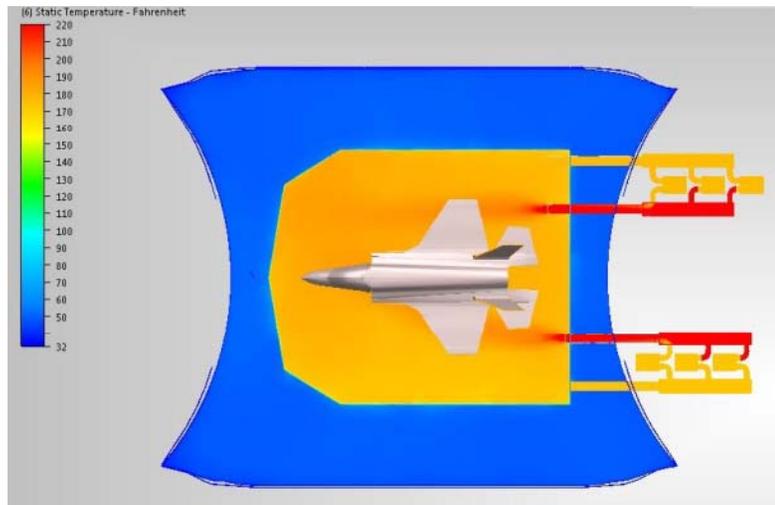
Full-size liner



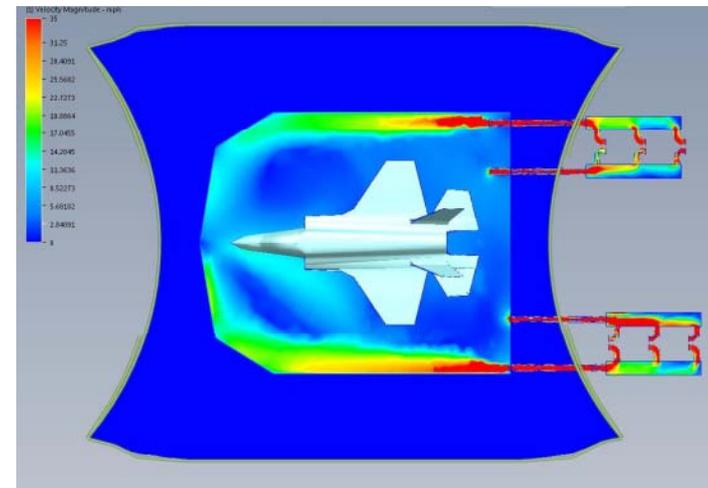
JSF Decon System Thermal/Airflow Analysis



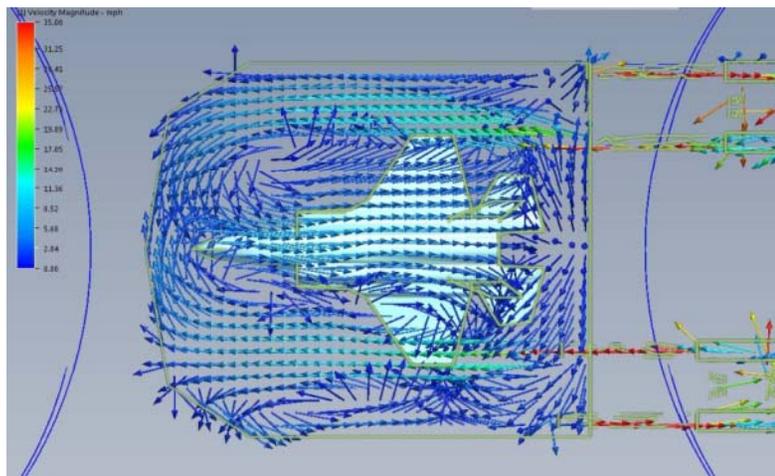
HDT Engineering Services, Inc., Fredericksburg, VA



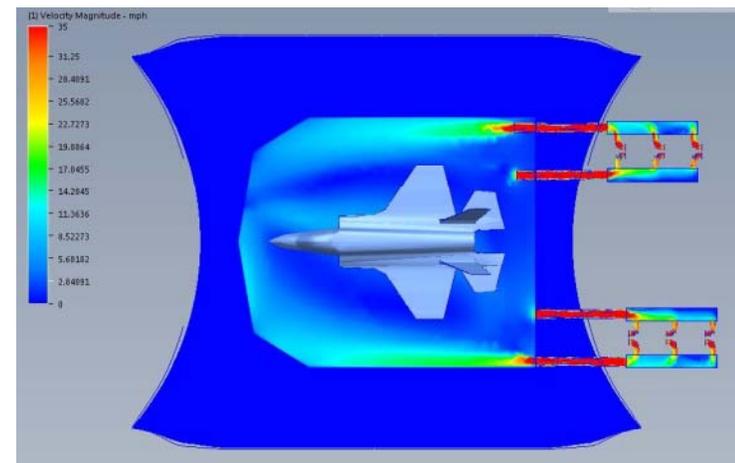
Air Temperature



Air Velocity w/16" ducts



Air Velocity Vectors



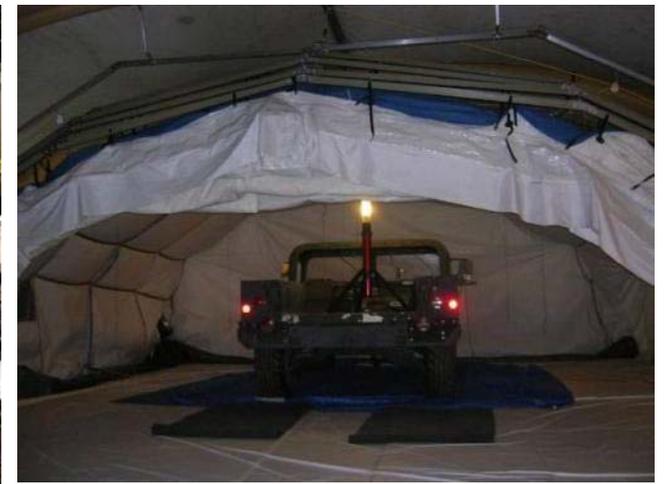
Air Velocity w/24" ducts



JSF Half-Scale Liner



- Erect/Strike Time
- Form/Fit/Function
- Heater Tests
- Negative Pressure Evaluation
- MeS Challenge/HAD Cycle





JSF Decontamination System



- Shelter/Liner/Heater integration and demonstration – Jan 2012
- Complete System Integration/Demonstration – 2QFY14
- Live Fire T&E – 4QFY15



Questions??

