## Department of Defense Fiscal Year (FY) 2016 President's Budget Submission

February 2015



## **Chemical and Biological Defense Program**

Defense Wide Justification Book of

Procurement, Defense-Wide

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Chemical and Biological Defense Program • President's Budget Submission FY 2016 • Procurement

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## **Chemical Biological Defense Program Overview**

Chemical, biological, radiological, and nuclear (CBRN) threats are dynamic and ever-changing. The rapid advancement and global proliferation of chemical and biological (CB) capabilities greatly extends the spectrum of plausible actors, agents, concepts of use, and targets. These advancements enable our nation's state and non-state adversaries to develop unique CBRN threats with the intent of circumventing our current defenses. To ensure an effective response to these threats, the Department of Defense (DoD) Chemical and Biological Defense Program (CBDP) continuously and actively develops CBRN defensive capabilities to stay ahead of evolving threats. This 2016 budget request includes \$1.3 billion to provide a framework for the allocation of fiscal resources against valid capability requirements to achieve a strategy-driven balance of risk in accordance with National Defense Strategies, Department-level objectives, and Service force development priorities.

The CBDP published a new strategy in 2012 to address current defense policy set by public law, National strategies, Departmental Directives and Instructions, and senior leadership guidance. This strategy outlined the CBDP vision and mission of a DoD that addresses CBRN threats and minimizes their effects, and its mission is to enable the Warfighter to deter, prevent, protect, mitigate, respond, and recover from CBRN threats and effects as part of a layered, integrated defense. To support the vision and mission, the CBDP has four enduring strategic goals that define the desired strategic end-states and associated lines of action for the program and its Enterprise Components. These are:

- 1. Equip the force to successfully conduct military operations to prevent, protect, and respond to CBRN threats and effects.
- 2. Prevent surprise by anticipating CBRN threats and developing new capabilities for the Warfighter to counter emerging threats.
- 3. Maintain infrastructure to meet and adapt current and future needs for personnel, equipment, and facilities within funding constraints.
- 4. Lead the Enterprise to integrate and align activities to fulfill the CBDP mission.

Throughout FY2013 and going forward, the following strategic program objectives guide efforts to accomplish the *CBDP Strategic Plan* goals:

- Establish a robust MCM pipeline from requirements definition, through Research, Development, Test, and Evaluation (RDT&E) and U.S. Food and Drug Administration (FDA) approval, to manufacturing and distribution. This pipeline shall focus on mitigating current CBRN threats using platform technologies capable of expediting responses to validated known and emerging threats.
- Develop synergistic, technologically advanced environmental surveillance and point-of-need diagnostic capabilities against CBRN threats to enable rapid force protection decisions.

- Provide CBRN defense capabilities to support biosurveillance efforts and enable the Warfighter to achieve information dominance in the CBRN domain.
- Integrate NTA defense capabilities into future CB defense systems, as appropriate.
- Develop and field suitable, effective, and affordable broad-spectrum CB detection capabilities to detect current and emerging CB hazards.
- Maintain critical capabilities and competencies, aligned with RDA priorities, to rapidly develop, test, and field CBRN defensive capabilities to the Warfighter.
- Implement risk-based planning and decision-making processes within the Enterprise.

Focused efforts within this budget are captured in a number of emphasis areas that are a collection of mutually-supporting S&T efforts, systems acquisition programs, and T&E capabilities aimed at delivering comprehensive CBR defense capabilities to the warfighter. Emphasis areas are derived from National Strategies, senior leader guidance, and CBDP community priorities. The four key emphasis areas are: medical countermeasures (MCMs), diagnostics, biosurveillance, and non-traditional agent (NTA) defenses.

#### **Medical Countermeasures**

The *National Strategy for Countering Biological Threats* emphasized the importance of developing MCMs to reduce impacts of outbreaks of infectious disease whether of natural, accidental, or deliberate origin. Homeland Security Presidential Directive (HSPD)-10, "Biodefense for the 21<sup>st</sup> Century," and HSPD-18, "MCMs Against Weapons of Mass Destruction," directed U.S. government agencies to "conduct joint development and procurement of medical countermeasures" throughout the Interagency and with international partner nations. HSPD-18 also stated that the Secretary of Defense shall retain exclusive responsibility for research, development, acquisition, and deployment of medical countermeasures to prevent or mitigate the health effects of WMD threats and naturally occurring threats to the Armed Forces and shall continue to direct strategic planning for and oversight of programs to support medical countermeasures development and acquisition for our Armed Forces personnel. MCMs include capabilities to protect the warfighter against CBR threats and mitigate illness, suffering, and death. MCMs will provide end-to-end countermeasures against emerging infectious diseases, genetically engineered threats, naturally occurring biological phenomena, novel chemical agents, and radiological threats. Program efforts include core medical efforts aimed at developing and delivering pretreatments/prophylaxes and therapeutics to the warfighter. MCMs in development by the CBDP traditionally fall into one of two categories: 1) pretreatments/prophylaxes such as a plague vaccine and 2) post-exposure, pre/post-symptomatic therapeutics such as the Hemorrhagic Fever Virus therapeutic (for example, Ebola).

## **Diagnostics**

Diagnostic and analytic-related efforts are a centerpiece of the CBDP's comprehensive capability to counter CBR threats and characterize CBR attacks or events by diagnosing causative agents of disease and providing situational awareness of threat agents in the environment. The CBDP has resourced a robust portfolio that includes S&T of CBR diagnostics, systems development and procurement of point-of-need/point-of-care diagnostic equipment, and continuous assay development and procurement to support fielded and developmental diagnostic or analytic platforms.

#### **Biosurveillance**

The CBDP is a key contributor to the Department's efforts in support of the *National Biosurveillance Strategy* and its goal "to achieve a well-integrated national biosurveillance enterprise that saves lives by providing essential information for better decision-making at all levels." The CBDP focus and support are aligned with the four enabling capabilities outlined in the National Biosurveillance Strategy. These are: integrate capabilities, build capacity, foster innovation, and strengthen partnerships. Key CBDP efforts include; focusing on the ability to strengthen and integrate capabilities that provide awareness of endemic pathogens in the environment along with warning and characterization of biological attacks or events (analysis and diagnostics) for decision-making; improving the ability to find, track, interdict, and eliminate biological weapons and threats directed against our warfighters and citizens; and enabling the Department's ability to conduct forensics and attribution and to prevent re-attack. The CBDP capabilities in development will provide pre-event (early warning and indications) and post-event (effective consequence management and persistent surveillance for re-emergence) capabilities necessary to improve early warning and characterization of man-made (i.e., genetically engineered/synthetic biological agents) and naturally occurring (i.e., emerging infectious diseases and the re-emergence of pathogens from zoonotic reservoirs) disease outbreaks in near real-time. The CBDP is integrating/leveraging various capabilities being developed in other areas across the DoD, Internationally, and within the Interagency in order to provide an enhanced biosurveillance capability.

## Non Traditional Agent (NTA) Defense

The 2010 QDR directed the DoD to increase resources for R&D of countermeasures and defenses to NTAs in concert with interagency partners. DoD efforts supporting NTA defense are a key part of an integrated National effort supporting Research, Development, and Acquisition of defensive capabilities. The CBDP works to:

- Develop technologies that address existing and emerging NTAs in the near-, mid-, and far-term, including the ability to address multiple capability gaps and provide multi-layered and integrated defenses to NTAs
- Strengthen and integrate capabilities that provide warning of attack, barrier protection, and both pretreatments/prophylaxes and post-exposure treatments

- Field faster, more flexible consequence management capabilities on the battlefield and in the homeland
- Develop capabilities, policies, and plans that enable us to act swiftly to save lives and restore the effectiveness of contaminated areas.

### **Summary**

The CBDP continues to effectively meet today's highest priority needs for DoD CBRN defense solutions while shifting to establish the agility and flexibility necessary to rapidly adapt to the evolving strategic landscape. This ongoing transformation ensures that currently available technologies are produced, procured, and provided swiftly and that cutting-edge technologies are harnessed to provide improved capabilities in the future. The DoD CBDP continued to enhance CBRN readiness to counter known and emerging threats and collaborated with other Government agencies to foster exchange of knowledge and coordination of CB defense-related activities. This budget request supports the CBDP as a Joint Force enabler fulfilling the needs of the Warfighters to ensure that they are trained, equipped, and resourced to complete missions in CBRN environments now and in the future, preserving the security and freedom of our nation.

#### Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority

(Dollars in Thousands)

Appropriation	FY 2014 (Base & OCO)	FY 2015 Base Enacted	FY 2015 OCO Enacted	FY 2015 Total Enacted
Procurement, Defense-Wide	269,513	334,129	17,000	351,129
Total Defense-Wide	269,513	334,129	17,000	351,129

## Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement, Defense-Wide	278,710		278,710
Total Defense-Wide	278,710		278,710

# Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

Organization: Procurement, Defense-Wide	FY 2014 (Base & OCO)	FY 2015 Base Enacted	FY 2015 OCO Enacted	FY 2015 Total Enacted
Chemical and Biological Defense Program, CBDP	269,513	334,129	17,000	351,129
Total	269,513	334,129	17,000	351,129

# Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

Organization: Procurement, Defense-Wide	FY 2016 Base	FY 2016 OCO	FY 2016 Total
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Chemical and Biological Defense Program, CBDP	278,710		278,710
Total	278,710		278,710

## Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

ational Authority 08 Jan 2015 in Thousands)

Appropriation: Procurement, Defense-Wide

Budget Activity	FY 2014 (Base & OCO)	FY 2015 Base Enacted	FY 2015 OCO Enacted	FY 2015 Total Enacted
03. Chemical/Biological Defense	269,513	334,129	17,000	351,129
Total Procurement, Defense-Wide	269,513	334,129	17,000	351,129

## Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

08 Jan 2015

Appropriation: Procurement, Defense-Wide

Budget Activity	FY 2016 Base	FY 2016 OCO	FY 2016 Total
03. Chemical/Biological Defense	278,710		278,710
Total Procurement, Defense-Wide	278,710		278,710

## Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

08 Jan 2015

Appropriation: 0300D Procurement, Defense-Wide

	<b>=</b> 3	FY 2014	FY 2015	FY 2015	FY 2015	S
Line	Ident	(Base & OCO)	Base Enacted	OCO Enacted		e
No Item Nomenclature	Code	Quantity Cost	Quantity Cost	Quantity Cost	Quantity Cost	C -
Budget Activity 03: Chemical/Biological Defense						
CBDP						
69 Installation Force Protection	A	13,866				U
70 Individual Protection	A	101,528				U
71 Joint Bio Defense Program (Medical)	A	2,635				U
72 Collective Protection	А	13,596				U
73 Contamination Avoidance	Α	137,888				U
74 Chemical Biological Situational Awareness	A		183,737	10,762	194,499	U
75 CB Protection & Hazard Mitigation	Α		150,392	6,238	156,630	U-
Total Chemical/Biological Defense		269,513	334,129	17,000	351,129	
Total Procurement, Defense-Wide		269,513	334,129	17,000	351,129	

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 8, 2015 at 09:15:05

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## Defense-Wide FY 2016 President's Budget Exhibit P-1 FY 2016 President's Budget Total Obligational Authority (Dollars in Thousands)

08 Jan 2015

Appropriation: 0300D Procurement, Defense-Wide

Line	Tdont	FY 2016 Ident Base		FY 20			FY 2016 Total		
No Item Nomenclature	Code	Quantity	Cost	Quantity	Cost	Quantity	Cost	e C	
		~~~~~						-	
Budget Activity 03: Chemical/Biological Defense									
CBDP									
69 Installation Force Protection	A							U	
70 Individual Protection	А							U	
71 Joint Bio Defense Program (Medical)	A							U	
72 Collective Protection	A							U	
73 Contamination Avoidance	A							U	
74 Chemical Biological Situational Awareness	A	1	L41,223			, 1	141,223	U	
75 CB Protection & Hazard Mitigation	A	1	L37,487			1	L37,487	U	
Total Chemical/Biological Defense		2	278,710			2	278,710		
Total Procurement, Defense-Wide		2	278,710	****		2	278,710		

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 8, 2015 at 09:15:05

Chemical and Biological Defense Program • President's Budget Submission FY 2016 • Procurement

## **Line Item Table of Contents (by Appropriation then Line Number)**

## Appropriation 0300D: Procurement, Defense-Wide

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
69	03	01	JS1000	INSTALLATION FORCE PROTECTION	1
70	03	01	GP1000	INDIVIDUAL PROTECTION	11
71	03	01	MA0800	JOINT BIO DEFENSE PROGRAM (MEDICAL)	31
72	03	01	PA1600	COLLECTIVE PROTECTION	37
73	03	01	GP2000	CONTAMINATION AVOIDANCE	63
74	03	01	SA0001	SITUATIONAL AWARENESS	103
75	03	01	PHM001	CB PROTECTION AND HAZARD MITIGATION	161

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## Line Item Table of Contents (Alphabetically by Line Item Title)

BSA Page	ВА	Line #	Line Item Number	Line Item Title
01 161	03	75	PHM001	CB PROTECTION AND HAZARD MITIGATION
01 37	03	72	PA1600	COLLECTIVE PROTECTION
01 63	03	73	GP2000	CONTAMINATION AVOIDANCE
01 11	03	70	GP1000	INDIVIDUAL PROTECTION
01 1	03	69	JS1000	INSTALLATION FORCE PROTECTION
01 31	03	71	MA0800	JOINT BIO DEFENSE PROGRAM (MEDICAL)
01 103	03	74	SA0001	SITUATIONAL AWARENESS

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: JS1000 / INSTALLATION FORCE PROTECTION CBDP

ID Code (A=Service Ready, B=Not Service Ready) :			Program Ele	ments for Co	de B Items:			Other Related Program Elements:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	225.888	13.866	-	-	-	-	-	-	-	-	-	239.754	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P1) (\$ in Millions)	225.888	13.866	-	-	-	-	-	-	-	-	-	239.754	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	225.888	13.866	-	-	-	-	-	-	-	-	-	239.754	
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are document	ed elsewhere.)	Ÿ				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	

#### **Description:**

Beginning in FY 2015, programs in this line item are consolidated into budget line item (BLIN) SA0001 - SITUATIONAL AWARENESS.

This Budget Line (BLIN) supports the acquisition and delivery of (1) an integrated chemical, biological, nuclear and explosive (CBRNE) rapid response capability for the National Guard Bureaus (NGB) Weapons of Mass Destruction - Combat Support Teams (WMD-CST).

The Integrated CBRNE rapid response capability packages are required for NGB's WMD-CST and Special Purpose Units - Chemical Biological Equipment (SPU-CBE) which consists of the CBRNE Enhanced Response Force Package (CERFP), the United States Marine Corps Chemical Biological Incident Response Force (CBIRF), the USAR Chemical Recon Platoons, Decon Platoons and Defense Support of Civil Authority CBRN Response Force (DCRF), and the 20th Support Command Nuclear Disablement (NDT) and CBRNE Teams. The purpose of this program is to address legacy requirements gaps/deficiencies for WMD-CST's and SPU-CBE's where they exist through the streamlined acquisition of COTS/government-off-the-shelf (GOTS) capability upgrades that incorporate proven advancements in technology to satisfy mission performance standards. Chemical, Biological, Radiological, Nuclear (CBRN) and High-Yield Explosive (CBRNE) protection is required for CONUS/OCONUS DoD installation physical structures as well as military personnel and others within the perimeter of the military reservation.

P-1 Line #69

Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: JS1000 / INSTALLATION FORCE PROTECTION CBDP

ID Code (A=Service Ready, B=Not Service Ready):	Pr	ogran	n Elements for Code	B Items:	Ot	her Related Program	Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cos (Each) I (\$ M)
JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)	P-5, P-5a, P-21		- / 225.888	- / 13.866	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 225.888	- / 13.866	- 1 -	- 1 -	- 1 -	- 1 -
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total

Title*	Exhibits	CD	Quantity / Total Cost (Each) / (\$ M)					
JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / 239.754
Total Gross/Weapon System Cost			- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 239.754

<sup>\*</sup>Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

#### Justification:

Installation Force Protections primary objective is to strengthen efforts for improving DoD installations against Chemical and Biological (CB) threats. WMD-CST allows for the equipping of Reserve Component units to provide enhanced response capabilities and to provide for additional support against the threat of terrorist CB attacks to American cities and communities in emergency and disaster situations. Also, this effort allows selected National Guard and other reserve component units to respond to and contain the effects of CB incidents in this country. Advanced chemical defensive equipment is required to enhance US capability to detect and identify threat agents in the battle space and the homeland.

Date: February 2015 Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 0300D / 03 / 1 JS1000 / INSTALLATION FORCE PROTECTION JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)

ID Code (A=Service Ready, B=Not Service Ready)	:					MDAP/MA	IS Code:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	225.888	13.866	-	-	-	-	-	-	-	-	-	239.754
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	225.888	13.866	-	-	-	-	-	-	-	-	-	239.754
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	225.888	13.866	-	-	-	-	-	-	-	-	-	239.754
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	·	-(		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	_

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	P	rior Years	;	FY 2014				FY 2015		F۱	′ 2016 Ba	se	FY	/ 2016 OC	0	FY 2016 Total		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Hardware Cost					,													
Recurring Cost																		
Prior/Future combined efforts	-	-	211.915	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPU CBE Personal Protective Equipment - Class 1 <sup>(†)</sup>	-	-	0.000	0.967	61	0.059	-	-	-	-	-	-	-	-	-	-	-	-
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>	-	-	0.000	1.722	1,956	3.368	-	-	-	-	-	-	-	-	-	-	-	
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>	-	-	0.000	0.556	4,059	2.257	-	-	-	-	-	-	-	-	-	-	-	
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>	0.909	11,000	10.000	0.071	6,227	0.442	-	-	-	-	-	-	-	-	-	-	-	
SPU CBE Personal Protective Equipment - Filter Canister <sup>(†)</sup>	-	-	2.184	0.048	13,535	0.650	-	-	-	-	-	-	-	-	-	-	-	
WMD CST Lightweight Inflatable Decontamination																		
System <sup>(†)</sup>	-	-	0.000	110.000	55	6.050	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

JS1000 / INSTALLATION FORCE PROTECTION

Item Number / Title [DODIC]:

JS0004 / WMD - CIVIL SUPPORT

TEAMS (WMD CST)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Note: Subtotals of Totals i	THE EXHIBIT	o may no	- DO CAGOL C	, ada, duc t	o rounding.								,					
	F	Prior Years	s		FY 2014		FY 2015			F	1 2016 Ba	se	F	/ 2016 OC	0	F	Y 2016 Tot	:al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Recurring Cost	-	-	224.099	-	-	12.826	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	224.099	-	-	12.826	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost																		
SPU CBE - Government Program Management	-	-	0.690	-	-	0.741	-	-	-	-	-	-	-	-	-	-	-	-
WMD CST - Government Program Management	-	-	1.099	-	-	0.299	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	1.789	-	-	1.040	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	225.888	-	-	13.866	-	-	-	-	-	-	-	=	-	-	-	-

		FY 2017			FY 2018			FY 2019			FY 2020		To	Complet	te		Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost						,												,
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	211.9
SPU CBE Personal Protective Equipment - Class 1 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.2
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	10.
SPU CBE Personal Protective Equipment - Filter Canister <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.
WMD CST Lightweight Inflatable Decontamination																		
System <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

P-1 Line Item Number / Title:

JS1000 / INSTALLATION FORCE PROTECTION

Item Number / Title [DODIC]: JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)

MDAD/MAIC Code

ID Code (A=Service Read	ly, B=Not Servi	ce Ready) :							IVI	DAP/IVIAIS	Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		To	Comple	te	-	Total Cos	t
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	236.925
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	236.925
Support Cost																		
SPU CBE - Government Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.431
WMD CST - Government Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.398
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.829
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	239.754

#### Remarks:

Beginning in FY 2015, the WMD - CIVIL SUPPORT TEAMS (WMD CST) program has been consolidated into CBDP line item (BLIN) SA0001 - SITUATIONAL AWARENESS

This program supports the acquisition and delivery of an integrated chemical, biological, radiological, nuclear and explosive (CBRNE) rapid response capability for National Guard Bureau's (NGB) Weapons of Mass Destruction Civil Support Teams (WMD-CST) and Special Purpose Units - Chemical Biological Equipment (SPU-CBE) which consists of the CBRNE Enhanced Response Force Package (CERFP), the United States Marine Corps Chemical Biological Incident Response Force (CBIRF) the United States Army Reserve (USARC) Chemical Recon Platoons, Decon Platoons, Defense Support of Civil Authority CBRN Response Force (DCRF), and the 20th Support Command Nuclear Disablement (NDT) and CBRNE Teams. Key activities of this program include ongoing life cycle assessments for the portfolio of fielded commercial-off-the-shelf (COTS) CBRNE equipment, identification and evaluation of emerging technologies, prioritization and fielding of improved capabilities to meet established requirements, and the establishment of institutionalized training. The overall capability package includes hand held detection, protection, decontamination, situational awareness software assessment and sampling tools. The purpose of this program is to address legacy requirements gaps/deficiencies for WMD-CST's and SPU-CBE's where they exist through the streamlined acquisition of COTS/government-off-the-shelf (GOTS) capability upgrades that incorporate proven advancements in technology to satisfy mission performance standards.

(†) indicates the presence of a P-5a

5

Exhibit P-5a, Procurement History and Planning: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

JS1000 / INSTALLATION FORCE PROTECTION

JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
SPU CBE Personal Protective Equipment - Class 1 <sup>(†)</sup>		2014	General Services Administration / Boston, MA	C / FFP	Boston, MA	May 2014	Aug 2014	61	0.967	Y		
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>		2014	General Services Administration / Boston, MA	C / FFP	Boston, MA	May 2014	Aug 2014	1,956	1.722	Y		
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>		2014	General Services Administration / Boston, MA	C / FFP	Boston, MA	May 2014	Aug 2014	4,059	0.556	Y		
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>		2013	General Services Administration / Boston, MA	C / FFP	Boston, MA	Feb 2013	Apr 2013	11,000	0.455	Y		
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>		2014	General Services Administration / Boston, MA	C/FP	Boston, MA	May 2014 <sup>(1)</sup>	Aug 2014	6,227	0.071	Y		
SPU CBE Personal Protective Equipment - Filter Canister <sup>(†)</sup>		2014	General Services Administration / Boston, MA	C/FP	Boston, MA	May 2014 <sup>(2)</sup>	Aug 2014	13,535	0.048	Y		
WMD CST Lightweight Inflatable Decontamination System <sup>(†)</sup>		2014	General Services Administration / Boston, MA	C/FP	Boston, MA	Jul 2014 <sup>(3)</sup>	Oct 2014	55	110.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

<sup>(1)</sup> - IDIQ

<sup>(2)</sup> - IDIQ

<sup>(3)</sup> - IDIQ

6

												• • • •			ILD														
<b>Exhibit</b>	P-21, Pr	oducti	on Sc	hedul	e: PE	3 201	6 Che	emica	l and	Biolog	gical E	efens	se Pro	ogram								Date	e: Feb	oruary	/ 2015	5			
<b>Approp</b> 0300D /	<b>riation</b> / 03 / 1	Budge	et Acti	vity /	Budg	get Sı	ub Ac	tivity	<b>'</b> :			Item INST				CE P	ROTI	ECTIO	ON			JS00	004 <i>l</i>	WMD	Title - CI\ CST)	/ĪL SU	DIC]: JPPOI	RT	
,		Elements Thousands	)							Fiscal Y	ear 2013						,					Fiscal Y	ear 2014						
		ĺ	ACCEPT									Ca	alendar `	Year 2013	3								Caler	ndar Yea	r 2014				
M O F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	B A L
	ersonal Protect				-	_ v	C	N	ь	K	K	1	N		G	г		V	٠	N		K	K	ı	N		G	Г	
1 2014		.061	-	.061																				Α -		-	.010	.010	.04
Secondary Distribution	ARMY	.061		.061																				Α -	-	-	.010	.010	.04
	ersonal Protect																												
2 2014		1.956	-	1.956																				Α -	-	-	.245	.245	1.46
Secondary Distribution	ARMY	1.956	_	1.956																				Α -	-	-	.245	.245	1.46
	ersonal Protect		nent - Clas																						1		1		
3 2014		4.059	-	4.059																				Α -	-	-	.454	.454	3.15
Secondary Distribution	ARMY	4.059	-	4.059																				Α -	-	-	.454	.454	3.15
SPU CBE P	ersonal Protect	tive Equipm	nent - HAZI	MAT Boot	s				1		ı						l.		-			l .							
4 2013	CBDP	11.000	-	11.000					Α -	-	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.000										-
Secondary Distribution	ARMY	11.000	-	11.000					Α -	-	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.000										-
4 2014	CBDP	6.227	-	6.227																				Α -	-	-	.622	.622	4.98
Secondary Distribution	ARMY	6.227	-	6.227																				A -	-	-	.622	.622	4.98
SPU CBE P	ersonal Protect	tive Equipm	ent - Filter	Canister											·		,											,	
5 2014	CBDP	13.535	-	13.535																				Α -	-	-	2.253	2.253	9.029
Secondary Distribution	ARMY	13.535	-	13.535																				A -	-	-	2.253	2.253	9.029
WMD CST L	ightweight Infla	atable Deco	ontaminatio	on System	1																								
6 2014		.055	-	.055																						Α -	-	-	.055
Secondary Distribution	ARMY	.055		.055																						A -	-	-	.05
Distribution					0	N O	D E	J A	F E	M A	A P	M A	Ŋ	Ŋ	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J	Ŋ	A U	S E	B A

<b>App</b> 0300	ropr	iation / 03 / 1									P-1																	DIC1·		
0300 0 M 0 F c R		03 / 1	Budge	et Acti	vity /	Budg	et Su	b Ac	tivity			Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  Date: February 2015  Appropriation / Budget Activity / Budget Sub Activity:  P-1 Line Item Number / Title:  Item Number / Title [DODIC]:															$\overline{}$			
O F C R		Cost E									JS1	000 /	INST	ALLA			CE P	ROT	ECTIO	NC			JS00	004 /	WMD	CST)	/ĪL SL		RT	
O F C R	1	(Units in	lements Thousands	.)							iscal Ye	ear 2015											Fiscal Ye	ar 2016						$\Box$
O F C R		(0////0////	Troubarrab,	ACCEPT						•	10001 10	Jul 2010	Ca	alendar '	Year 201	5				_			11000111		ndar Yea	r 2016			•	+-
O #		SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
		sonal Protect				•	•		.,			.,	-		_		•	•												
1	2014	CBDP	.061	.020		.010	.010	.010	.011																					-
Second		ARMY	.061	.020	.041	.010	.010	.010	.011																					_
SPU (	CBE Per	sonal Protect	ive Equipn	nent - Class	s 2				l		-					-														
2	2014	CBDP	1.956	.490	1.466	.245	.245	.245	.245	.245	.241																			-
Second Distribu		ARMY	1.956	.490	1.466	.245	.245	.245	.245	.245	.241																			-
SPU C	CBE Per	sonal Protect	ive Equipn	nent - Class	3																									
3	2014	CBDP	4.059	.908	3.151	.454	.454	.454	.454	.454	.454	.427																		-
Second Distribu		ARMY	4.059	.908	3.151	.454	.454	.454	.454	.454	.454	.427																		_
	1	sonal Protect			MAT Boot	s																							-	
4		CBDP	11.000	11.000	-																									-
Second Distribu		ARMY	11.000	11.000	-	_																								-
4	2014	CBDP	6.227	1.244	4.983	.622	.622	.622	.622	.622	.622	.622	.629																	-
Second Distribu		ARMY	6.227	1.244	4.983	.622	.622	.622	.622	.622	.622	.622	.629																-	_
		sonal Protect																												
- $ -$	2014	CBDP	13.535	4.506	9.029	2.253	2.253	2.253	2.270																					-
Second Distribu	ution	ARMY	13.535	4.506		2.253	2.253	2.253	2.270																					_
		htweight Infla	1																										_	
Second		CBDP ARMY	.055	-	.055	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005														-
Distribu	ution		.055	-	.055	0	N	D	J	F	м	Α	М		.J	Α	s	0	N	D	J	F	М	^	м	J	J	Α	s	В
						C T	0 V	E C	A N	E B	A R	P R	A Y	N N	U L	U G	E P	C T	O V	E	A N	E B	A R	A P R	A Y	U	U L	U G	E P	A

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 03 / 1

P-1 Line Item Number / Title:

JS1000 / INSTALLATION FORCE PROTECTION

Item Number / Title [DODIC]: JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)

	Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR					Ini	tial			Reo	rder	
Ref # MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1 General Services Administration - Boston, MA	4	2,500	3,000	-	4	7	11	-	4	3	7
2 General Services Administration - Boston, MA	4	2,500	3,000	-	4	7	11	-	4	3	7
3 General Services Administration - Boston, MA	4	2,500	3,000	-	4	7	11	-	4	3	7
4 General Services Administration - Boston, MA	4	2,500	3,000	-	4	7	11	-	4	3	7
5 General Services Administration - Boston, MA	4	2,500	3,000	-	4	7	11	-	4	3	7
6 General Services Administration - Boston, MA	4	2,500	3,000	-	4	7	11	-	4	3	7

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: GP1000 / INDIVIDUAL PROTECTION CBDP

ID Code (A=Service Ready, B=Not Service Ready) :			Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	465.744	101.528	-	-	-	-	-	-	-	-	-	567.272
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	465.744	101.528	-	-	-	-	-	-	-	-	-	567.272
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	465.744	101.528	-	-	-	-	-	-	-	-	-	567.272
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are document	ed elsewhere.)		į.		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### Description:

Beginning in FY 2015, programs in this line item are consolidated into budget line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION.

This Budget Line (BLIN) provides for protective masks, respiratory systems, and protective clothing. (1) The Uniform Integrated Protection Ensemble (UIPE) is a supplemental CBRN protective system with the capability that enables selection of a tailored material solution based on the expected threat level for any given mission or platform. This ability to tailor the type and level of the protective system will result in optimized protection with minimal burden on the Warfighter and lowest impact on the mission. These expanded options offer protection to the Force across the expanding operational landscape, commensurate with the varying security-challenge environments and specific adversary threats (nature, degree and maturity of that threat) likely to be encountered. (2) The Joint Service General Purpose Mask (JSGPM) is a lightweight, protective Nuclear, Biological and Chemical (NBC) mask system. It incorporates state-of-the-art technology to protect the Joint Forces from anticipated threats. The JSGPM will provide abovethe-neck, head/eve/respiratory protection against Chemical and Biological (CB) agents, radioactive particles, and Toxic Industrial Materials (TIMs). The JSGPM mask system will replace the M40/M42 series (Army and Marine Corps), the MCU-2/P series (Air Force and Navy), and the M45 mask in the Land Warrior program. (3) The Joint Service Aircrew Mask (JSAM) system is a lightweight Chemical. Biological, Radiological and Nuclear (CBRN) protective mask consisting of mask, filter, blower, and accessories incorporating state-of-the-art technology to protect U.S. Forces from anticipated threats. The mask is optimized to minimize impact on the wearer's performance, maximize its ability to interface with aircrew protective clothing, and provide improved field of view when compared to current protective masks.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: GP1000 / INDIVIDUAL PROTECTION

**CBDP** 

ID Code (A=Service Ready, B=Not Service Ready) :	P	rogran	Elements for Code	B Items:	c	Other Related Program	Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)
MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)	P-5, P-5a, P-2	21	- / 10.376	- / 15.772	- / -	- / -	- / -	- / -
JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)	P-5, P-5a, P-2	21	- /413.890	- / 85.343	- / -	- / -	- / -	- / -
JI0002 / JS AIRCREW MASK (JSAM)	P-5	В	- / 41.478	- / 0.413	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 465.744	- / 101.528	- 1 -	- 1 -	- 1 -	- 1 -
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)			
MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)	P-5, P-5a, P-2	21	- / -	- / -	- / -	- / -	- / -	- / 26.148
JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)	P-5, P-5a, P-2	21	- / -	- / -	- / -	- / -	- / -	- / 499.233
JI0002 / JS AIRCREW MASK (JSAM)	P-5	В	- / -	- / -	- / -	- / -	- / -	- /41.891
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- 1 -	- / 567,272

Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

#### Justification:

Operational forces across the continuum of global, contingency, special operations/low intensity conflict, counternarcotics, and other high-risk missions have an immediate need to survive and sustain operations in a CB threat environment. Individual protection is provided by means of masks, protective clothing, and aircrew respiratory systems and ensembles. The Joint NBC Defense program includes individual protection equipment that both improves current protection levels and reduces the physiological and logistical burden on the individual soldier, sailor, airman or marine. The goal is to procure equipment that will allow for the individual to operate in a contaminated CB environment with minimal degradation in his/her performance.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding

	Δnalvei						• • • • • • • • • • • • • • • • • • • •	· · · · ·	21LIEI									
Appropriation / B	Allulyon	s: PB 20	16 Chem	ical and E	Biologica	l Defer	nse Progra	am						Date: Fe	ebruary 2	015		
0300D / 03 / 1						P-1 L	Line Item 000 / IND	Numbe						MA0401	mber / T / CBRN RATED P BLE (UIF	UNIFOF ROTECT	RM -	
ID Code (A=Service Read	ly, B=Not Servi	ce Ready) :							М	DAP/MAI	S Code:							
Resource S	ummary		Prior Years	FY 201	4 FY 2	2015	FY 2016 Base	FY 20	- 1	Y 2016 Total	FY 2017	FY 2	018 F	Y 2019	FY 202	Tomp		Total
Procurement Quantity (Unit	ts in Each)		-		-	-	-		-	-	-		-	-	-		-	-
Gross/Weapon System Co	ost (\$ in Million	s)	10.376	15.7	772	-	-		-	-	-		-	-	-		-	26.14
Less PY Advance Procure	ment (\$ in Mil	lions)	-		-	-	-		-	-	-		-	-	-		-	-
Net Procurement (P1) (\$ in	Millions)		10.376	15.	772	-	-		-	-	-		-	-	-		-	26.14
Plus CY Advance Procurer	ment (\$ in Mil	lions)	-		-	-	-		-	-	-		-	-			-	-
Total Obligation Authorit	y (\$ in Millions	;)	10.376	15.	772	-	-		-	-	-		-	-			-	26.14
	(The	following R	esource Sun	nmary rows a	re for inform	ational pu	rposes only. T	he corresp	onding bud	lget requests	are document	ed elsewl	nere.)				,	
Initial Spares (\$ in Millions)			-		-	-	-		-	-	-		-	-	-		-	-
Gross/Weapon System Un	nit Cost (\$ in 7	Thousands)	-		-	-	-		-	-	-		-	-	-		-	-
Note: Subtotals or Totals ir	n this Exhibit	P-5 may no	ot be exact or	add, due to r	ounding.		-	<del></del>							-			
	F	Prior Years	5	F	Y 2014			FY 2015		F	Y 2016 Base	)	F	Y 2016 OC	ю	F	Y 2016 To	otal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost	(, )	( /	(, )	(, )	( /	(, )	(,,	( /	(, )	1 (, )	( /	(, )	(, )	1 ( )	(, )	(, )	( )	(, )
Recurring Cost																		
UIPE 1 Protective Garment <sup>(†)</sup>	0.515	44.550	7.500	0.497	00.070	0.077	_	_	_			_			_		_	
Subtotal: Recurring Cost	0.515	14,552	7.500	- 0.497	20,072	9.977		-		-	-		-	-	-	-		-
Subtotal: Hardware Cost	-	-	7.500	-	-	9.977		-	-	-	-		-	-	-	-	-	
Support Cost										1			1	1				
Production Lot Testing	-	-	0.437	-	-	0.195	-	-	-	-	-	-	-	-	-	-	-	-
Program Management	-	-	1.582	-	-	2.350	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	0.857	-	-	1.250	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	0.000	-	_	2.000	_	-	_	_	-	_	_	_	-	-	_	-
Operational Performance Testing		-	2.876	-	-	5.795	-	-	-	-	-	-	-	-	-	-	-	-
	-														+			

LI GP1000 - INDIVIDUAL PROTECTION Chemical and Biological Defense Program UNCLASSIFIED
Page 3 of 19

P-1 Line #70

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP1000 / INDIVIDUAL PROTECTION

BY MA0401 / CBRN UNIFORM INTEGRATED PROTECTION

ENSEMBLE (UIPE)

ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :							M	DAP/MAIS	S Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		T	o Comple	te		Total Cos	Ł
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost											,						,	
Recurring Cost	_																	
UIPE 1 Protective Garment <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.47
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.47
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.47
Support Cost											,				,		,	
Production Lot Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63
Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.93
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
Operational Performance Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.67
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.14

#### Remarks:

Beginning in FY 2015, the CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE) program has been consolidated into CBDP line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION

The Uniform Integrated Protection Ensemble (UIPE) is a Chemical, Biological, Radiological, Nuclear (CBRN) protective system offering the capability to select a tailored material solution based on the expected threat level commensurate with operational mission requirements. Where appropriate, a family of systems approach that meets the scope of UIPE individual protection capability needs will be utilized. The objective of UIPE is to fully integrate CBRN and toxic industrial material (TIM) protections into an ensemble, identical in fit and form to the combat uniform (including mask - helmet integration and protective boots and gloves), thus negating the need for separate protective ensemble components. This integrated protection approach will result in increased warfighter operational performance in a CBRN environment. The UIPE program will develop, integrate, test, procure and field incremental capability solutions that are modular in function and offer improvements in form and fit over current systems; the program will explore trade-space in areas such as protection level, heat stress, durability, antimicrobial properties, flame resistance, launderability, self-detoxification, and protection time in order to provide capabilities that afford maximum utility to the warfighter. Where appropriate modeling and simulation tools will be used to lower UIPE program risks, reduce costs, and ensure a high confidence in selected technologies. UIPE is aimed specifically at providing enhanced individual protection capabilities to the warfighter through reduction of physiological and psychological effects associated with CBRN protective garment thermal burden, weight, and bulk. The UIPE program will consider modernization in order to ensure that the warfighter retains access to state of the art capability to support future operational mission requirements.

The UIPE Increment 1 (UIPE 1) protective system offers the capability to select a tailored material solution based on the expected threat level commensurate with operational mission requirements. This ability to tailor the type and level of the protective system will result in optimized protection, thereby minimizing physiological and psychological burdens associated with the weight, bulk, thermal strain, and encumbrance of wearing CBRN protective equipment on the Warfighter and affording the lowest impact on the operational mission. UIPE 1 will be designed to permit efficient communications, be compatible with current and developmental CBRN protective component systems, and retain CBRN protection capability after exposure to petroleum, oils, lubricants, and other environmental contaminants. UIPE 1 may include hooded and non-hooded variants and will be compatible with current clothing and equipment, including load-bearing equipment, helmets, headwear, footwear, body cooling systems, and protective masks of the respective Service and Special Operational Forces.

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological	Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]: MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

Justification:

RDT&E Code B Item: 0603884BP/Proj IP4; 0604384BP/Proj IP5

IP4/UIPE: RDT&E; FY15 - 2.852M; FY16 - 4.217M; FY17 - 0.400M

IP5/UIPE: RDT&E FY14 and Prior - 6.751M; FY17 - 3.835M; FY18 - 4.197M; FY19 - 6.329M; FY20 - 1.799M; FY21 - 4.459M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

UIPE - Integrated DT/OT (Mar 2012 to Dec 2012)

UIPE - Milestone C / LRIP: Jun 2013

UIPE - Approved CPD: Jul 2013

UIPE - Operational Test & Evaluation (Sep 2013 to Dec 2013)

UIPE - Full Rate Production: Jan 2014

UIPE - SOCOM IOC: Mar 2016

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 201	6 Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]:  MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
UIPE 1 Protective Garment <sup>(†)</sup>		2013	Tennessee Apparel Corporation / Tullahoma, TN	C/FFP	RDECOM, Natick, MA	Jul 2013	Feb 2014	14,552	0.515	Y		Feb 2011
UIPE 1 Protective Garment <sup>(†)</sup>		2014	Tennessee Apparel Corporation / Tullahoma, TN	C/FFP	RDECOM, Natick, MA	Mar 2014 <sup>(1)</sup>	Jan 2015	20,072	0.497	Y	Feb 2011	

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

<sup>(1)</sup> Opt 1

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<b>Exhibit F</b>	P-21, Pro	oducti	on Sc	hedu	le: Pi	3 201	6 Che	emica	and	Biolo	gical [	Defen	se Pr	ogran	า							Date	: Feb	ruary	2015	j			
<b>Appropr</b> 0300D / 0		Budge	et Acti	vity /	Bud	get Sı	ıb Ac	tivity	:	1				<b>ber</b> / JAL P		ECTIC	ON					MA0 INTE	Num 401 / GRA EMBI	CBRI TED	N UN PRO	ĪFOR	M		
	Cost E (Units in 7	lements Thousands	)							Fiscal Y	ear 2013)											Fiscal Ye	ear 2014						
M			ACCEPT PRIOR	BAL			1			1		(	Calendar	Year 201	3			1	1				Calen	dar Year	2014				1
O F C R O # FY	SERVICE	PROC QTY	TO 1 OCT 2012	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	J U L	A U G	S E P	B A L
UIPE 1 Protec	tive Garment	-					-					-				-													
1 2013	CBDP	14.552	-	14.552										A -	-	-	-	-	-	-	.750	.500	1.000	1.000	1.000	1.300	1.500	1.813	5.68
Secondary Distribution	SOCOM	14.552	-	14.552										A -	-	-	-	-	-	-	.750	.500	1.000	1.000	1.000	1.300	1.500	1.813	5.68
1 2014	CBDP	20.072	-	20.072																		Α -	-	-	-	-	-	-	20.072
Secondary Distribution	SOCOM	20.072	-	20.072																		A -	-	-	-	-	-	-	20.07
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

E	xhibit	P-21, Pro	oducti	on Sc	hedul	le: PE	201	6 Che	mical	and I	Biolog	gical D	efens	se Pro	ogran	1							Date	e: Fel	oruary	2015	5			
_		riation / 03 / 1	Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:	1 -	<b>Line</b> 1000 <i>i</i>					ECTIC	N					MAC	0401 <i>I</i> EGRA	nber / / CBR ATED LE (U	N UN PRO	ĪFOR	M		
		Cost E (Units in 1	lements housands	)					,		Fiscal Y	ear 2015											Fiscal Y	ear 2016	)					
				ACCEPT									C	alendar	Year 201	5								Cale	ndar Yea	r 2016				
0 C 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N J	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	B A L
UI	PE 1 Prof	ective Garment		l																	I	<u> </u>				<u> </u>	ļ			
	1 201	3 CBDP	14.552	8.863	5.689	1.813	1.813	2.063																						
	condary tribution	SOCOM	14.552	8.863	5.689	1.813	1.813	2.063																						
	1 201	4 CBDP	20.072	-	20.072	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.072												-
	condary tribution	SOCOM	20.072	-	20.072	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.072												_
						0 C	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	) J	A U G	S E	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A	J J	Ŋ	A U G	S E P	B A

Exhibit P-21, Production Schedule: PB 2016 Chemical and B	iological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]: MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)

		Produc	tion Rates (Each /	Month)				Pı	rocurement Lea	dtime (Months)			
MFR						Initi	al				Reor	der	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT		Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
	Tennessee Apparel Corporation - Tullahoma, TN	1,700	3,000	5,000	-	9		7	16	-	3	3	6

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Date: February 2015 Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 0300D / 03 / 1 GP1000 / INDIVIDUAL PROTECTION JI0003 / JOINT SERVICE GENERAL

PURPOSE MASK (JSGPM) ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code:

12 CC CC (1 CC 1100 1100 I)	, .											
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	413.890	85.343	-	-	-	-	-	-	-	-	-	499.233
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	413.890	85.343	-	-	-	-	-	-	-	-	-	499.233
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	413.890	85.343	-	-	-	-	-	-	-	-	-	499.233
(The followin	g Resource Sum	mary rows are fo	or informational	ourposes only. T	he corresponding	g budget reques	ts are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	_	-	_	-	_	_	-	_	-	_	-	-

Gross/Weapon System Unit Cost (\$ in Thousands)

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	F	Prior Years	3		FY 2014			FY 2015		FY	/ 2016 Ba	se	F	/ 2016 OC	0	FY	/ 2016 Tot	:al
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)												
Hardware Cost						,			,						,			
Recurring Cost																		
Prior/Future combined efforts	-	-	222.684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JSGPM - SOCOM (M53) <sup>(†)</sup>	0.817	2,949	2.410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JSGPM - Ground/Ship (M50) <sup>(†)</sup>	1.159	102,776	119.121	0.259	230,226	59.564	-	-	-	-	-	-	-	-	-	-	-	-
JSGPM - Combat Vehicle (M51) <sup>(†)</sup>	-	-	6.516	0.397	24,750	9.832	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	350.731	-	-	69.396	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	350.731	-	-	69.396	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost																		
Engineering Support	-	-	12.086	-	-	1.413	-	-	-	-	-	-	-	-	-	-	-	-
System Fielding Support (Total Package Fielding (TPF), First Destination Transportation (FDT) & N	-	-	8.449	-	-	1.537	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	21.755	-	-	10.073	-	-	-	-	-	-	-	-	-	-	-	-
Gov't Program Management	-	-	16.597	-	-	2.324	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
0300D / 03 / 1

P-1 Line Item Number / Title:
GP1000 / INDIVIDUAL PROTECTION

Item Number / Title [DODIC]:
JI0003 / JOINT SERVICE GENERAL

0300D / 03 / 1 GP1000 / INDIVIDUAL PROTECTION JI0003 / JOINT SERVICE GIPURPOSE MASK (JSGPM)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

Note: Subtotals or Totals	in this Exhibit	t P-5 may no	ot be exact o	or add, due to	rounding.													
	F	Prior Year	s		FY 2014			FY 2015		FY	/ 2016 Ba	se	F	Y 2016 OC	0	F	Y 2016 To	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Production Acceptance Test	-	-	4.272	-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	63.159	-	-	15.947	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	_	-	413.890	_	_	85.343	_	_	_	_	_	_	_	_	_	_	_	_

		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	te	-	Total Cost	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Hardware Cost									Į.									
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222.68
JSGPM - SOCOM (M53) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4
JSGPM - Ground/Ship (M50) <sup>(†)</sup>	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178.6
JSGPM - Combat Vehicle (M51) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	420.1
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	420.1
Support Cost									Į.									
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.49
System Fielding Support (Total Package Fielding (TPF), First Destination Transportation (FDT) & N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.98
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.82
Gov't Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.92
Production Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.8
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79.10
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	_	_	-	-	_	-	499.23

LI GP1000 - INDIVIDUAL PROTECTION Chemical and Biological Defense Program UNCLASSIFIED
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	UNCLASSIFIED	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]: J10003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Remarks: Beginning in FY 2015, the JOINT SERVICE GENERAL PURPOSE MASK ( The Joint Service General Purpose Mask (JSGPM) is a lightweight, protecti anticipated threats. The JSGPM provides above-the-neck, head/eye/respiratesign is optimized to minimize impact on the wearer's performance, and to replaces the M40/M42 series of masks for Army and Marine ground and correplaces the M45 mask in the Land Warrior program. This can significantly version of the JSGPM. The M51 is the combat vehicle crewman version of	JSGPM) program has been consolidated into CBDP line item (BLIN ve Nuclear Biological Chemical (NBC) mask system. It incorporates atory protection against Chemical and Biological (CB) agents, radios maximize its ability to interface with fielded and future Joint Service mbat vehicle operations and the MCU-2/P series for Air Force and N reduce the number of masks that will have to be logistically support	s state-of-the-art technology to protect the U.S. Joint Forces from active particles, and Toxic Industrial Materials (TIMs). The mask equipment and protective clothing. The JSGPM mask system lavy ground and shipboard applications. In addition, the JSGPM and by the Department of Defense. The M50 is the ground/ship

LI GP1000 - INDIVIDUAL PROTECTION Chemical and Biological Defense Program

Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]: JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
JSGPM - SOCOM (M53) <sup>(†)</sup>		2013	AVON Protection Systems Inc. / Cadillac, MI	Reqn	TACOM, MMC, Warren, MI	Jul 2013	Dec 2013	2,949	0.817	Y		
JSGPM - Ground/Ship (M50) <sup>(†)</sup>		2013	AVON Protection Systems Inc. / Cadillac, MI	C / FPIF	RDECOM, APG, MD	Jan 2013 <sup>(2)</sup>	Apr 2013	102,776	0.308	Y		
JSGPM - Ground/Ship (M50) <sup>(†)</sup>		2014	AVON Protection Systems Inc. / Cadillac, MI	C / FPIF	RDECOM, APG, MD	Jan 2014 <sup>(3)</sup>	Mar 2014	230,226	0.259	Y		
JSGPM - Combat Vehicle (M51) <sup>(†)</sup>		2014	AVON Protection Systems Inc. / Cadillac, MI	C / FPIF	RDECOM, APG, MD	Jul 2014 <sup>(4)</sup>	Jan 2015	24,750	0.397	Y		

<sup>(†)</sup> indicates the presence of a P-21

### Footnotes:

<sup>(2)</sup> Opt 3

<sup>&</sup>lt;sup>(3)</sup> Opt 4

<sup>&</sup>lt;sup>(4)</sup> Opt 4

Ext	ibit P	P-21, Pr	oducti	on Sc	hedul	e: Pl	3 2016	6 Che	emical	and	Biolo	gical [	Defen	se Pr	ogran	1							Date	: Feb	oruary	2015	,			
	oropri 0D / 0	i <b>ation</b> / 03 / 1	Budge	t Acti	vity /	Bud	get Su	ıb Ac	ctivity	:		<b>Line</b> 1000						ON					JIOO	03 <i>I</i> J	OINT	Title SER' SK (J	VICE	GĒN	ΞRAL	-
			<b>lements</b> Thousands)	)							Fiscal Y	ear 2013											Fiscal Ye	ar 2014						
0 F				ACCEPT PRIOR TO 1	BAL DUE	0	N	D	J	F	м	A	м	alendar	Year 201 J	3 A	s	О	N	D	J	F	м	Calen	dar Yea M	r 2014 J	J	A	s	В
C R		SERVICE	PROC QTY	OCT 2012	AS OF 1 OCT	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	A L
JSGF	M - SOC	OM (M53)													,			,	,		,				,					
1	2013	CBDP	2.949	-	2.949										Α -	-	-	-	-	1.000	1.000	.949								-
Secor Distrib		SOCOM	2.949	-	2.949										A -	-	-	-	-	1.000	1.000	.949								-
JSGF	M - Grou	ınd/Ship (M5	0)																											
2	2013	CBDP	102.776	-	102.776				Α -	-	-	10.282	10.281	10.282	10.281	10.282	10.281	10.282	10.281	10.281	10.243									-
Secor Distrib		ARMY	102.776		102.776				Α -	-	-	10.282	10.281	10.282	10.281	10.282	10.281	10.282	10.281	10.281	10.243									_
2	2014	CBDP	230.226	-	230.226																A -	-	19.185	19.185	19.185	19.185	19.185	19.185	19.185	95.93
Secor Distrib		ARMY	230.226		230.226																A -	-	19.185	19.185	19.185	19.185	19.185	19.185	19.185	95.93
JSGF	M - Com	bat Vehicle (	(M51)																											
3	2014	CBDP	24.750	-	24.750																						A -	-	-	24.7
Secor Distrib		ARMY	24.750	-	24.750																						A -	-	-	24.75
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  Date: February 2015																														
Αp	oropr	riation / 03 / 1									P-1	Line	Item / INDI	Num	ber /	Title:	CTIC	ON					Item JI00	<b>Nun</b> 03 / J	nber / OINT	Title SER SK (J	[DOI	GĒN	ERAL	L
			lements Thousands	)							Fiscal Y	ear 2015											Fiscal Year 2016							T
O F C F O #	:	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	Year 201 J U L	5 A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	Caler A P R	M A Y	J U N	J U L	A U G	S E P	E
		COM (M53)	<b></b>			•	•						•	••			•	•		_	.,			•••	-		_			
1	2013	CBDP	2.949	2.949	-																								-	
Seco		SOCOM	2.949	2.949	_																									
		und/Ship (M5		2.545	_																									
	2013		102.776	102.776	-																									Π.
Seco		ARMY	102.776	102.776	-																									
2	2014	CBDP	230.226	134.295	95.931	19.185	19.185	19.185	19.185	19.191																				-
Seco Distri		ARMY	230.226	134.295	95.931	19.185	19.185	19.185	19.185	19.191																				
	_	mbat Vehicle (	· · ·																											
	2014		24.750	-	24.750	-	-	-	2.062	2.062	2.062	2.062	2.062	2.062	2.062		2.062		2.062	2.068										-
Secoi Distrii		ARMY	24.750	-	24.750	-	-	-	2.062	2.062	2.062	2.062	2.062	2.062	2.062		2.062		2.062	2.068					ı		ı	1		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N J	n N	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	n n	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP1000 / INDIVIDUAL PROTECTION

Budget Activity / Budget Sub Activity:

GP1000 / INDIVIDUAL PROTECTION

Budget Activity / Budget Sub Activity:

GP1000 / INDIVIDUAL PROTECTION

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Budget Activity / Budget Sub Activity:

GP1000 / INDIVIDUAL PROTECTION

GP1000 / INDIVIDUAL PROTECTION

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFR						Initia	ıl			Reor	rder	
Ref #	1	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	AVON Protection Systems Inc Cadillac, MI	500	1,000	1,000	-	3	10	13	-	3	5	8
2	AVON Protection Systems Inc Cadillac, MI	8,333	17,000	21,554	-	3	10	13	-	2	3	5
3	AVON Protection Systems Inc Cadillac, MI	500	1,000	2,100	-	4	2	6	-	2	3	5

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

							UI	NCLAS	SIFIE	ט								
Exhibit P-5, Cost	Analysi	s: PB 20	)16 Chen	nical and	l Biolo	ogical Defer	nse Progr	am						Date: F	ebruary 2	015		
<b>Appropriation / E</b> 0300D / 03 / 1						P-1 I	Line Item	Numbe		e: ΓΕCTION	]				imber / T			SAM)
ID Code (A=Service Rear	dy, B=Not Serv	vice Ready) : <b>[</b>	В						N	IDAP/MA	IS Code:							
Resource S	Summary	,	Prior Years	FY 20	014	FY 2015	FY 2016 Base	FY 20		Y 2016 Total	FY 2017	7 FY 2	2018	FY 2019	FY 202	T 0 Com	_	Total
Procurement Quantity (Un		<u>'</u>			-	-		"	_	-		_	_				-	
Gross/Weapon System C		ns)	41.47	8	0.413	-			-	-	_		-	_			-	41.891
Less PY Advance Procure					-	-	-		-	-	_		-	-			-	-
Net Procurement (P1) (\$ ii	· · · · · · · · · · · · · · · · · · ·		41.47	8	0.413	-	-		-	-	-		-	-			-	41.891
Plus CY Advance Procure		illions)	-		-	-	-		-	-	_		-	_			-	_
Total Obligation Authori	ty (\$ in Million	ıs)	41.47	8	0.413	-	-		-	-	-		-	-			-	41.891
	(The	e following F	Resource Sui	mmary rows	are for	informational pu	rposes only.	The corresp	onding bu	dget request	s are docume	nted elsew	here.)					
Initial Spares (\$ in Millions)	•		-		-	-	-		- 1	-	-		- 1	-			-	-
Gross/Weapon System U	nit Cost (\$ in	Thousands)	-		-	-	-		-	-	-		-	-	-		-	-
Note: Subtotals or Totals	in this Exhibi	t P-5 may n	ot be exact o	r add, due t	o roundi	ing.			1				1		1			
	I	Prior Year	s		FY 20	)14		FY 2015		F	Y 2016 Ba	se		FY 2016 O	0	F`	Y 2016 To	otal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each		Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cos	st Qty	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Support Cost	(+ - 7	(====)	(+)	(+ - 9	(====	., (+)	(+ : 7	(====,)	(+)	(++)	(=====)	(+)	(+ - 9	(====)	(+)	(+ - 7	(====)	(+)
Prior/Future combined efforts	-	-	41.478	-			-	-	-	-	-	-	-	-	-	-	-	-
JSAM RW MPU-5 - Program Management	-	-	0.000	-		- 0.413		-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	41.478	-		- 0.413	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	41.478	-		- 0.413	-	-	-	-	-	-	-	-	-	-	-	-
		FY 2017			FY 20	)18		FY 2019			FY 2020			To Comple	te		Total Cos	et
0 - 4 51	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cos	st Qty	Total Cost	Unit Cost	Qty	Total Cost
Cost Elements	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each	h) (\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)
Support Cost Prior/Future combined													1					1
efforts	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	41.478
JSAM RW MPU-5 - Program Management	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	0.413
Subtotal: Support Cost	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	41.891
Gross/Weapon System Cost	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	41.891
Remarks:																		

LI GP1000 - INDIVIDUAL PROTECTION Chemical and Biological Defense Program **UNCLASSIFIED** Page 17 of 19

P-1 Line #70

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:  0300D / 03 / 1  P-1 Line Item Number / Title:  GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]: J10002 / JS AIRCREW MASK (JSAM)

ID Code (A=Service Ready, B=Not Service Ready) : B

MDAP/MAIS Code:

Beginning in FY 2015, the JS AIRCREW MASK (JSAM) program has been consolidated into CBDP line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION

The Joint Service Aircrew Mask (JSAM) system is a lightweight Chemical, Biological, Radiological and Nuclear (CBRN) protective mask consisting of mask, filter, blower, and accessories incorporating state-of-the-art technology to protect U.S. Forces from anticipated threats. The JSAM systems will be developed to support multiple aircraft platforms which will integrate with aircraft subsystems: Aircrew Life Support Equipment (ALSE), seating, portable aircrew systems, restraint systems, night vision goggles (NVGs), and communications systems. The mask is optimized to minimize impact on the wearer's performance, maximize its ability to interface with aircrew protective clothing, and provide improved field of view when compared to current protective masks.

The JSAM Rotary Wing (RW) Mask Protective Unit 5 (MPU-5(V)/P) will provide head, eye, respiratory, and CB protection and "don in flight" capability for general purpose, rotary wing aircrew in all four Services and the US Coast Guard.

The JSAM Apache (MPU-6(V)/P) aircrew mask provides head, eye, respiratory and Chemical-Biological (CB) protection for U.S. Army AH-64A/D Apache aircrew as part of the JSAM Family of Systems. JSAM MPU-6(V)/P replaces the legacy M-43 and M-48. It is compatible with the Joint Protective Aircrew Ensemble (JPACE) and the Apache Integrated Helmet and Display Sighting System (IHADSS). It provides flame and thermal protection, and reduces heat stress imposed by existing CB protective masks. The system is capable of being donned and doffed while in flight.

The JSAM for Tactical Aircraft (JSAM TA) will provide CB pressure breathing for altitude and anti-G protection. The JSAM for Strategic Aircraft (JSAM SA) will provide CB protection for aircrew positions that only need pressure breathing for altitude. Both the JSAM TA and JSAM SA will provide flame resistance, JSAM TA will provide demist/emergency demist.

#### Justification:

RDT&E Code B Item: 0604384BP/Proj IP5

#### DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

- JSAM FW JSAM TA AP22P(A) ECP Integration (Apr 2013 to Sep 2015)
- JSAM FW JSAM TA AP22P(A) Safe to Fly Certification (Jun 2014 to Sep 2015)
- JSAM FW JSAM TA AP22P(A) USAF Variant Purchase: Oct 2014
- JSAM RW USA/USAF Airworthiness Testing (Oct 2012 to Sep 2015)
- JSAM RW USN/USMC Airworthiness Testing (Oct 2012 to Sep 2016)
- JSAM RW MS C/ Low Rate Initial Production (LRIP) (Dec 2014 to Sep 2017)
- JSAM RW Multi Service Operational Test and Evaluation (MOT&E) USA/USAF (Feb 2015 to May 2015)
- JSAM RW Multi Service Operational Test and Evaluation (MOT&E) USN/USMC (Oct 2015 to Mar 2017)
- JSAM RW USA IOC: Dec 2016
- JSAM RW USAF IOC: Jul 2016
- JSAM RW USN/USMC IOC: Sep 2018
- JSAM RW Full Rate Production (FRP) (Sep 2017 to Jan 2024)
- JSAM RW USAF FOC: Sep 2016
- JSAM RW USA/USN/USMC FOC: Jan 2024
- JSAM SA MS C / Low Rate Initial Production (Jul 2016 to Jun 2019)
- JSAM SA Operational Testing (Sep 2016 to Mar 2017)
- JSAM SA LRIP 1 (Sep 2016 to Mar 2017)
- JSAM SA LRIP 2 (Sep 2017 to Dec 2017)
- JSAM SA LRIP 3 (Jun 2018 to Sep 2018)
- JSAM SA LRIP 4 (Mar 2019 to Jun 2019)

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P-1 Line #70

	UNCLASSII ILD	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologica	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP1000 / INDIVIDUAL PROTECTION	Item Number / Title [DODIC]: J10002 / JS AIRCREW MASK (JSAM)
D Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	,
JSAM SA - MS C / Full Rate Production (Jun 2019 to Jun 2022) JSAM TA - Full and Open Comparative Gate Testing (Jun 2015 to Mar 2016 JSAM TA - Aircraft Platform Integration/Operational Testing (Mar 2016 to Ju JSAM TA - Full Operational Capability: Mar 2022 JSAM TA - MS C - Low Rate Initial Production (LRIP) (Jan 2016 to Jun 2015 JSAM TA - Initial Operational Capability: Sep 2018 JSAM TA - Full Rate Production (FRP) (Jun 2019 to Sep 2022)	s) n 2019)	

LI GP1000 - INDIVIDUAL PROTECTION Chemical and Biological Defense Program UNCLASSIFIED
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P-1 Line #70

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: MA0800 / JOINT BIO DEFENSE PROGRAM (MEDICAL) CBDP

ID Code (A=Service Ready, B=Not Service Ready) : E	3		Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	2.635	-	-	-	-	-	-	-	-	-	2.635
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	2.635	-	-	-	-	-	-	-	-	-	2.635
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	2.635	-	-	-	-	-	-	-	-	-	2.635
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Ti	he corresponding	g budget request	s are document	ed elsewhere.)	Ť	į.		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

Beginning in FY 2015, medical countermeasure related programs in this line item are consolidated into budget line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION and biosurveillance/ diagnostics related programs in this line item are consolidated into budget line item (BLIN) SA0001 - SITUATIONAL AWARENESS.

This Budget Line (BLIN) provides for the following: (1) the Advanced Anticonvulsant System (AAS) consists of the drug midazolam in an auto-injector to be used as treatment for nerve agent induced seizures and will be a replacement for the currently fielded Convulsant Antidote for Nerve Agent (CANA) auto-injector, which uses diazepam. (2) the Next Generation Diagnostic System (NGDS) program is a DoD effort to develop and field a common medical test equipment and diagnostic platform among all Military Services. A multi-incremental configuration, evolutionary development and fielding approach is proposed which will provide expanded capability for an early warning tool of health threats, early detection of health events, and overall situational awareness. NGDS will identify both BW agents and pathogens of operational concern (Increment 1). (3) the DoD Biological Vaccines Procurement acquisition components of the Joint Biological Defense Program are focused on a prime (systems) contract approach in which the prime contractor will manage biological defense medical products. (4) the Critical Reagents Program (CRP) integrates and consolidates all DoD reagents/antibodies/DNA biological detection requirements. (5) Biosurveillance (BSV) requirements address medical and physical CBRN mission needs for the Joint Biosurveillance Common Framework (JBCF), which will provide a single enterprise environment that supports collaboration, data sharing and coordination between multiple BSV stakeholders.

Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: MA0800 / JOINT BIO DEFENSE PROGRAM (MEDICAL) **CBDP** 

ID Code (A=Service Ready, B=Not Service Ready) : B	Pr	ogran	Elements for Code	B Items:	Oth	er Related Program I	Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
JX0300 / BIOSURVEILLANCE (BSV)	P-5		- / -	- / 2.450	- / -	- / -	- / -	- / -
JX0005 / DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES)	P-5	В	- / -	- / 0.185	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 0.000	- / 2.635	- / -	- / -	- / -	- 1 -

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

#### Justification:

Continues support of the current national military strategy, specifically, a worldwide force projection capability that requires BW detection in order to protect the Force against potential threats. Operational forces, contingency, special operations/low intensity conflict, counter narcotics, and other high-risk missions, have the immediate need to survive and sustain operations in a biological agent threat environment. Operating forces have a critical need for defense from worldwide proliferation of BW capabilities and medical treatment of BW related casualties. The Joint Biological Defense Program will provide a tiered strategy for detection and warning comprised of complementary detection/identification systems to provide theater protection against a large area and point attacks. The other biological defense mission requirement is to provide US Forces with enhanced survivability and force protection through the introduction of Food and Drug Administration (FDA) approved vaccines to protect against current and emerging threats, which could be deployed against maneuver units, or stationary facilities in the theater of operations.

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JX0300 / BIOSURVEILLANCE (BSV) 0300D / 03 / 1 MA0800 / JOINT BIO DEFENSE PROGRAM (MEDICAL)

ID Code (A=Service Ready, B=Not Service Ready) :		N	IDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	2.45	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	2.45	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	2.45	-	-	-	-
(The following Resource Summary rows are for informati	ional purposes only. The cor	responding budget reque	sts are documented elsewhe	ere.)		-
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	-	Prior Years	 S		FY 2014			FY 2015		F	/ 2016 Ba	se	F	/ 2016 OC	:0	F	Y 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Support Cost						,										,		
Purchase BICS Commercial Off the Shelf	_	-	_	-	-	2.450	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	-	-	-	2.450	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	_	-	_	_	-	2.450	_	-	-	_	-	-	_	-	-	-	-	-

#### Remarks:

Biosurveillance (BSV) will support the Joint United States Forces Korea (USFK) Portal and Integrated Threat Recognition (JUPITR) Advanced Technology Demonstration (ATD) which will find, demonstrate, transition, and transfer the best operational concepts and technology solutions in support of a holistic approach to countering biological threats from laboratory to operational use. Depending on the maturity, outputs will focus on providing component, CONOPS, augmentation of existing identification capabilities and subsystem transition into programs of record (PORs) and/or integration into existing PORs. The JUPITR ATD will use a four leg approach to demonstrate equipment, information systems, and processed that address the capability gaps and provide risk reduction for follow-on acquisition efforts.

#### Justification:

RDT&E Code B Item: 0603884BP/Proj MB4; 0604384BP/Proj MB5; 0607384BP/Proj MB7

MB4/BSV: RDT&E FY14 and Prior - 68.577M: FY15 - 22.744M

MB5/BSV: RDT&E FY14 and Prior - 9.114M

MB7/BSV: RDT&E

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

BSV - Competitive Prototyping Contract Award: Mar 2013

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: MA0800 / JOINT BIO DEFENSE PROGRAM (MEDICAL)	Item Number / Title [DODIC]: JX0300 / BIOSURVEILLANCE (BSV)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
BSV - JUPITR ATD (Dec 2013 to Sep 2017) BSV - MDA IPR: Aug 2013 BSV - MS C - ATD Portal: Jun 2017		

LI MA0800 - JOINT BIO DEFENSE PROGRAM (MEDICAL) Chemical and Biological Defense Program UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JX0005 / DOD BIOLOGICAL VACCINE MA0800 / JOINT BIO DEFENSE PROGRAM (MEDICAL) 0300D / 03 / 1 PROCUREMENT (VACCINES)

ID Code (A=Service Ready, B=Not Service Ready) : B		M	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.185	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	0.185	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.185	-	-	-	-
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding

	F	Prior Years	S		FY 2014			FY 2015		FY	/ 2016 Ba	se	F۱	2016 OC	0	F۱	2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Package Fielding Cost															,			
Recurring Cost																		
Vaccinia Immune Globulin-Support Costs	-	-	-	-	-	0.185	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	0.185	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Package Fielding Cost	-	-	-	-	-	0.185	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	0.185	-	-	-	-	-	-	-	-	-	-	-	-

#### Remarks:

Beginning in FY 2015, the DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES) program has been consolidated into CBDP line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION

The biological vaccine procurement program is critical for national defense. These products directly support the Secretary of Defense program to maintain a DoD capability to acquire and stockpile adequate quantities of all Biological Warfare (BW) vaccines to protect the programmed force against validated BW agents. Items currently in the stockpile are the FDA licensed Anthrax Vaccine Adsorbed (AVA), Smallpox vaccine, and Vaccinia Immune Globulin Intravenous (VIGIV). Funding supports vaccine and licensed biologic production, quality assurance and control, equipment validation, process change management, documentation control, and all FDA license maintenance and post-approval commitments (Phase 4 clinical trials). The annual vaccination program for the Services is funded by the Defense Health Program.

Justification:

RDT&E Code B Item: 0603884BP/Proj MB4; 0604384BP/Proj MB5

35

P-1 Line #71

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: MA0800 / JOINT BIO DEFENSE PROGRAM (MEDICAL)	Item Number / Title [DODIC]: JX0005 / DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES)
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
MB4/VAC BOT: RDT&E FY14 and Prior - 106.426M; FY21 - 14.084M MB4/VACCINES: RDT&E FY14 and Prior - 59.662M MB5/VAC BOT: RDT&E FY14 and Prior - 236.825M; FY15 - 52.562M; FY16 MB5/VAC PLG: RDT&E FY14 and Prior - 313.677M; FY15 - 36.214M; FY16 MB5/VACCINES: RDT&E FY14 and Prior - 74.717M	6 - 16.774M; FY17 - 13.607M; FY18 - 37.625M; FY19 - 49.633M; FY20 - 46.732 6 - 17.498M; FY17 - 47.298M; FY18 - 43.739M; FY19 - 10.324M; FY20 - 9.659M	M

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Page 6 of 6

Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: PA1600 / COLLECTIVE PROTECTION CBDP

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready) :			Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	489.708	13.596	-	-	-	-	-	-	-	-	-	503.304
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	489.708	13.596	-	-	-	-	-	-	-	-	-	503.304
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	489.708	13.596	-	-	-	-	-	-	-	-	-	503.304
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Ti	he corresponding	g budget request	s are document	ed elsewhere.)	Ť			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	_
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

Beginning in FY 2015, programs in this line item are consolidated into budget line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION.

This Budget Line (BLIN) provides life-sustaining and continued operational capabilities to the Warfighter and their equipment in support of military missions and operations as a seamless, integrated sub-system to all manner of platform, which utilizes state-of-the-art chemical, biological, radiological and nuclear (CBRN) protective technologies. The CB Collective Protection systems will be smaller, lighter, less costly, and more easily supported logistically at the crew, unit, ship, and aircraft level. Collective protection platforms include shelters, vehicles, ships, aircraft, buildings, and hospitals. (1) The Collective Protection System (CPS) Backfit Program installs CPS in mission critical medical and command and control spaces on the Navy's Landing Helicopter Dock (LHD) amphibious ship class. (2) The Collective Protected Field Hospitals (CPFH) provides Joint Service medical personnel CBRN collective protection to their medical treatment facilities. The Army's Collectively Protected Deployable Medical System (CP DEPMEDS); the Air Force's Collectively Protected Expeditionary Medical Support (CP EMEDS); and the Navy's Chemically Hardened Expeditionary Medical Facility (CH EMF) converts the service's field hospitals into a fully operational, environmentally controlled, and collectively protected medical treatment facility. The requirement is to sustain medical operations in a CB contaminated environment for 72 hours. (3) The Joint Expeditionary Collective Protection (JECP) provides the joint expeditionary forces a collective protection (CP) capability which is lightweight, compact, modular, and affordable. The JECP family of systems allows the application of CP to transportable soft-sided shelters, enclosed spaces of opportunity, and in remote austere locations as a standalone resource. JECP will be capable of protecting personnel groups of varying size, unencumbered by individual protective equipment (IPE), from effects of chemical and biological (CB) agents, toxic industrial materials (TIMs), radiological (R) particles, heat, dust, and sand. (4) The Chemical Biological Protective Shelter (CBPS) provides a contamination free, environmentally controlled working area for medical, combat service, and combat service support personnel to obtain relief from the continuous need to wear CB protective clothing for greater than 72 hours of operation.

Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Other Beleted Brogram Flaments:

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: PA1600 / COLLECTIVE PROTECTION

**CBDP** ID Code (A-Conside Boody R-Not Service Ready) Brogram Flamente for Code B Itoma

ID Code (A=Service Ready, B=Not Service Ready) :	Pro	gram	Elements for Code	B items:	Oth	ier Related Program	Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)				
R12301 / CB PROTECTIVE SHELTER (CBPS)	P-5, P-5a, P-21		- / 297.581	- / 5.385	- / -	- / -	- / -	- / -
JN0014 / Collective Protection System Amphibious Backfit (Force Protection)	P-3a		- / 154.679	- / 3.355	- / -	- / -	- / -	- / -
JP0911 / CP FIELD HOSPITALS (CPFH)	P-5, P-5a, P-21		- / 37.448	- / 0.856	- / -	- / -	- / -	- / -
JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)	P-5, P-5a, P-21		- / 0.000	- /4.000	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 489.708	- / 13.596	- 1 -	- 1 -	- 1 -	- 1 -
Exhibits Schedule	_		FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total

Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)
R12301 / CB PROTECTIVE SHELTER (CBPS)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / 302.966
JN0014 / Collective Protection System Amphibious Backfit (Force Protection)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 158.034
JP0911 / CP FIELD HOSPITALS (CPFH)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / 38.304
JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- /4.000
Total Gross/Weapon System Cost			- 1 -	- / -	- 1 -	- 1 -	- 1 -	- / 503.304

<sup>\*</sup>Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:

Operational forces across the continuum of global, contingency, special operations/low intensity conflict, counternarcotics, and other high-risk missions have immediate needs to safely operate, survive and sustain operations in a nuclear, biological and chemical (NBC) agent threat environment. Operating forces have a critical need for defense against worldwide proliferation of NBC warfare capabilities and for medical treatment facilities.

UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: R12301 / CB PROTECTIVE SHELTER 0300D / 03 / 1 PA1600 / COLLECTIVE PROTECTION (CBPS) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior** FY 2016 **FY 2016** FY 2016 To **Resource Summary FY 2014** FY 2015 000Total **FY 2017 FY 2018 FY 2019** FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 297.581 5.385 302.966 Less PY Advance Procurement (\$ in Millions) \_ \_ \_ \_ \_ 297.581 Net Procurement (P1) (\$ in Millions) 5.385 302.966 \_ Plus CY Advance Procurement (\$ in Millions) \_ Total Obligation Authority (\$ in Millions) 297.581 5.385 302.966 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total Qty **Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Hardware Cost Recurring Cost Prior/Future combined 250.742 efforts CBPS UP-ARMORED(†) 289.889 36 10.436 1,038.000 2.076 Government Furnished Material 0.000 0.219 Subtotal: Recurring Cost 261.178 2.295 ---Subtotal: Hardware Cost 261.178 2.295 Support Cost Care of Supplies in Storage 0.000 1.200 **Engineering Support** 19.018 0.122 -Integrated Logistics 4.976 Support 0.671 Management Support 2.651 1.022 Total Package Fielding (spares) 9.758 0.075 Subtotal: Support Cost 36.403 3.090 \_

LI PA1600 - COLLECTIVE PROTECTION Chemical and Biological Defense Program

297.581

Gross/Weapon System

**UNCLASSIFIED** 

5.385

P-1 Line #72

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

PA1600 / COLLECTIVE PROTECTION

Date: February 2015

Item Number / Title [DODIC]:

R12301 / CB PROTECTIVE SHELTER

(CBPS)

ID Code (A=Service Ready, B=Not Service Ready) :

0300D / 03 / 1

	MD	AP	/MAIS	Code:
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ID OUGE (A=Service Read	uy, D-Not Servi	ice (teauy) .							141		oouc.							
		FY 2017			FY 2018			FY 2019			FY 2020		To	Complet	e	1	Total Cost	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost				,												'		
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250.74
CBPS UP- ARMORED <sup>(†)</sup>	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.51
Government Furnished Material	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	263.47
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	263.47
Support Cost			•			•			•									
Care of Supplies in Storage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.14
Integrated Logistics Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.64
Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.67
Total Package Fielding (spares)	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.83
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.49
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	=	=	=	-	-	302.96

#### Remarks:

Beginning in FY 2015, the CB PROTECTIVE SHELTER (CBPS) program has been consolidated into CBDP line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION

The Services need a highly mobile, self-contained collective protection system which can provide a contamination free working area for Echelon I and II medical treatment facilities and other selected units. The Chemical and Biological Protective Shelter (CBPS) satisfies this need and replaces the M51 Chemical Protective Shelter. The system consists of a Collectively Protected (CP) shelter modularized and integrated into a service selected prime-mover. The system is completely self contained, self powered, mobile, and adaptable to a variety of missions. CBPS relieves medical, combat service, and combat service support personnel from wearing chemical and biological protective clothing. The system is capable of operating continuously for 72 hours providing a contamination free environmentally controlled working area.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PA1600 / COLLECTIVE PROTECTION	Item Number / Title [DODIC]: R12301 / CB PROTECTIVE SHELTER (CBPS)

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost		Date Revision Available	RFP Issue Date
CBPS UP-ARMORED <sup>(†)</sup>		2009	Smiths Detection / Edgewood, MD	C / FFP	Natick, MA	Jan 2009	Sep 2013	20	359.862	Y		
CBPS UP-ARMORED <sup>(†)</sup>		2010	Smiths Detection / Edgewood, MD	C / FFP	Natick, MA	Feb 2010	Sep 2014	9	359.862	Y		
CBPS UP-ARMORED <sup>(†)</sup>		2011	Smiths Detection / Edgewood, MD	C / FFP	Natick, MA	Sep 2014	Nov 2014	7	1,038.000	Y		
CBPS UP-ARMORED <sup>(†)</sup>		2014	Smiths Detection / Edgewood, MD	C/FFP	Natick, MA	Jul 2014	Mar 2016	2	1,038.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

Exhibit	P-21, Pr	oduct	ion Sc	hedul	le: Pl	B 201	6 Che	emica	l and	Biolog	gical [	Defen	se Pr	ogran	า							Date	: Feb	ruary	2015	5			
<b>Approp</b> 0300D <i>i</i>	riation / 03 / 1	Budg	et Acti	vity /	Bud	get Sı	ub Ac	tivity	<b>'</b> :		_	<b>Item</b> / COL	-				ION						301 <i>I</i>	nber / CB P			<b>DIC]:</b> /E SH	ELTE	ER
		lements in Each)								Fiscal Y	ear 2009											Fiscal Y	ear 2010						
M			ACCEPT PRIOR	BAL			_					С	alendar	Year 200	9				1			1	Calen	dar Year	2010				
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CBPS UP-A	RMORED												,									,		,		,			
1 200	9 CBDP	20	-	20				Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
Secondary Distribution	ARMY	20	-	20				Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
1 201	CBDP	9	-	9																	Α -	-	-	-	-	-	-	-	9
Secondary Distribution	ARMY	9	-	9																	Α -	-	-	-	-	-	-	-	9
1 201	1 CBDP	7	-	7																									7
Secondary Distribution	ARMY	7	-	7																									-
1 201	4 CBDP	2	-	2																									2
Secondary Distribution	ARMY	2	-	2																									:
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7																								7
2																								2
2																								1
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Exhibit F	P-21, Pr	oducti	on Sc	hedul	le: PE	3 201	6 Che	emical	and	Biolog	gical [	Defen	se Pr	ogran	1							Date	: Feb	ruary	2015	5			
<b>Appropr</b> 0300D / 0		Budge	t Acti	vity /	Budç	get Sı	ub Ac	tivity	:		<b>Line</b> 1600					ECTI	ON						301 <i>I</i>	n <b>ber /</b> CB Pl				HELTE	∃R
		lements in Each)								Fiscal Y	ear 2013	,					,					Fiscal Ye	ar 2014						
			ACCEPT				_					C	alendar	Year 201	3								Calen	dar Year	2014				
M C R C # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CBPS UP-AR	MORED																									ı			
1 2009	CBDP	20	-	20	-	-	-	-	-	-	-	-	-	-	-	2	6	5	3	4									
Secondary Distribution	ARMY	20	-	20	-	-	-	-	-	-	-	-	-	-	-	2	6	5	3	4									-
1 2010	CBDP	9	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
Secondary Distribution	ARMY	9	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
1 2011	CBDP	7	-	7																								A -	
Secondary Distribution	ARMY	7	-	7																								A -	
1 2014	CBDP	2	-	2																						A -	-	-	:
Secondary Distribution	ARMY	2	-	2																						A -	-	-	:
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Exhibit	P-21, Pr	oducti	on Sc	hedul	le: PE	2016	6 Che	mical	and I	Biolog	gical [	Defen	se Pr	ograr	n							Date	: Feb	ruary	2015	5			
<b>Approp</b> 0300D /	<b>riation</b> / 03 / 1	Budge	et Acti	vity /	Budg	jet Su	ıb Ac	tivity	:					iber / TIVE		ΓΕCTΙ	ON						301 <i>1</i>			<b>IDOI</b> CTIV	<b>DIC]:</b> /E SH	ELTE	ΞR
		Elements in Each)								Fiscal Y	ear 2015	i										Fiscal Ye	ar 2016						
O F			ACCEPT PRIOR TO 1	BAL DUE	0	N	D	J	F	М	Α	M	Calendar	Year 20		s	0	N	D	J	F	м		dar Year M	r 2016 J	J	А	s	Е
C R O # FY	SERVICE	PROC QTY	OCT 2014	AS OF 1 OCT	O C T	N O V	E C	A N	E B	A R	A P R	A	Ü	Ü	U G	S E P	O C T	O V	E C	A N	E B	A R	A P R	A Y	Ü	Ü	Ü	Ē P	Ā
CBPS UP-A		QII	2014	1001	•	•		14		K	K	' '			G	_ F	'			N		K	K		14		G		
	CBDP	20	20	-																									
Secondary Distribution	ARMY	20	20	_																									
1 201	CBDP	9			5	2																							
Secondary	ARMY				5	2																							
Distribution	I CBDP	9		7		2	4																						-
1 201 Secondary	ARMY	/	-	/	-	3	4																						-
Distribution		7		7			,					1		1															_
1 201		2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2							<u> </u>
Secondary Distribution	ARMY	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2							-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J J	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	N T	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PA1600 / COLLECTIVE PROTECTION

R12301 / CB PROTECTIVE SHELTER
(CBPS)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref					ALT	ALT		Total	ALT	ALT		Total
#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
	Smiths Detection - Edgewood, MD	1	5	17	12	3	47	50	_	2	11	13
	Eagewood, MD	<u>'</u>		17	12	3	71	50				10

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-3a, Individual Modification: PB 2016 Chemical and Biological Defense Program **Date:** February 2015 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: **Modification Number / Title:** PA1600 / COLLECTIVE PROTECTION JN0014 / Collective Protection System 0300D / 03 / 1 Amphibious Backfit

									7	.ouo Buoi	•	
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	154.679	3.355	-	-	-	-	-	-	-	-	-	158.034
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	154.679	3.355	-	-	-	-	-	-	-	-	-	158.034
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	154.679	3.355	-	-	-	-	-	-	-	-	-	158.034
(The following	Resource Sumi	mary rows are fo	r informational p	ourposes only. T	he corresponding	g budget request	ts are documente	ed elsewhere.)	•		<u>'</u>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

The Collective Protection System (CPS) will be installed on LHD class ships (1-8) in the Combat Information Center (CIC), two medical spaces, and a casualty decontamination area. CPS Backfit efforts will include ship surveys, engineering design analysis, detail design Shipboard Installation Drawings (SIDs), development of modular installation packages, procurement of hardware, logistic warehousing and staging, and installation via Alteration Installation Teams (AITs). Procurement of government furnished equipment (GFE) is required. The CPS Backfit installation process is designed to maximize flexibility in procuring, receiving, warehousing, and assembling the necessary material and equipment to meet the challenges associated with changing ship availabilities. Each quantity denotes a protected zone.

Development	Status/Major Development Milestones	
Date	Title	Description
Sep 2015	LHD-8 (USS MAKIN ISLAND)	

Exhibit P-3a, Individual Modification: P	B 2016 Che	mical and	Biological	Defense P	rogram				Date: Feb	ruary 2015	5	
Appropriation / Budget Activity / Budget 0300D / 03 / 1	et Sub Activ	vity:	_	Item Numb		ECTION					er / Title: Protection S	System
Models of Systems Affected: LHD class	ships	Modifi	ication Ty <sub>l</sub>	<b>pe:</b> Force F	Protection		Re	lated RDT	&E PEs:			
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)											
Procurement									,			
Modification Item 1 of 1: Collective Protection System Amphibious Backfit												
B Kits												
Recurring												
Equipment	54 / 63.048	1 / 2.055	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	55 / 65.103
Subtotal: Recurring	54 / 63.048	1 / 2.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 65.103
Subtotal: Collective Protection System Amphibious Backfit	54 / 63.048	1 / 2.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 65.103
Subtotal: Procurement, All Modification Items	54 / 63.048	1 / 2.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 65.103
Support (All Modification Items)												
Data	- / 13.200	- /1.000	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 14.200
Other	- / 13.631	- / 0.300	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / 13.931
Subtotal: Support	- /26.831	- /1.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.131
Installation												
Modification Item 1 of 1: Collective Protection System Amphibious Backfit	54 / 64.800	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- / -	- / -	- 1 -	- / -	54 / 64.800
Subtotal: Installation	54 / 64.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	54 / 64.800
Total												
Total Cost (Procurement + Support + Installation)	154.679	3.355	_	_	_	_	_	_	-	-	_	158.034

Date: February 2015 Exhibit P-3a, Individual Modification: PB 2016 Chemical and Biological Defense Program Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 0300D / 03 / 1 PA1600 / COLLECTIVE PROTECTION JN0014 / Collective Protection System Amphibious Backfit

Modification Item 1 of 1: Collective Protection System Amphibious Backfit

# Manufacturer Information

Manufacturer Name: TB	D			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months): 2			Production Leadtime (in M	fonths): 10		
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Mar 2015					

Nov 2015

### Installation Information

**Delivery Dates** 

Method of Implementation: Alteration Installation Teams (AITs).

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	54 / 64.800	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	54 / 64.800
FY 2014	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	54 / 64.800	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	54 / 64.800

### Installation Schedule

			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	2020			
	PYS	Q1	Q2	Q3	Q4	TC	Tot																								
In	28	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Out	28	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32

UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JP0911 / CP FIELD HOSPITALS (CPFH) 0300D / 03 / 1 PA1600 / COLLECTIVE PROTECTION ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code: **FY 2016 FY 2016 FY 2016 Prior** To **Resource Summary** Years **FY 2014** FY 2015 Base OCO Total FY 2017 **FY 2018 FY 2019** FY 2020 Complete Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 37.448 0.856 38.304 Less PY Advance Procurement (\$ in Millions) Net Procurement (P1) (\$ in Millions) 37.448 0.856 38.304 \_ \_ Plus CY Advance Procurement (\$ in Millions) Total Obligation Authority (\$ in Millions) 37.448 0.856 38.304 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Thousands) \_ Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost** Qty Cost Cost Elements (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) Hardware Cost Recurring Cost Prior/Future combined 28.944 efforts CP DEPMEDS MRI 40-BED AUGMENT(†) 300.000 2 0.600 Subtotal: Recurring Cost 29.544 --\_ \_ -Subtotal: Hardware Cost 29.544 Support Cost CH EMF COMMON COMPONENTS 2.273 0.752 INTEGRATED LOGISTICS SUPPORT 0.983 0.028 SYSTEMS **ENGINEERING** SUPPORT 0.545 0.029 INTEGRATED **ACQUISITION** MANAGEMENT 4.103 0.047 0.856 Subtotal: Support Cost 7.904 ----------------Gross/Weapon System 37.448 0.856 Cost

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PA1600 / COLLECTIVE PROTECTION

JP0911 / CP FIELD HOSPITALS (CPFH)

ID Code (A=Service Read	dy, B=Not Servi	ice Ready) :							М	DAP/MAIS	Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	te		Total Cos	t
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)									
Hardware Cost						,	'											
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.94
CP DEPMEDS MRI 40-BED AUGMENT <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.54
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.54
Support Cost																		,
CH EMF COMMON COMPONENTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.025
INTEGRATED LOGISTICS SUPPORT	-	_	-	-	-	-	-	-	-	-	-	-	-	_	-	-	_	1.01
SYSTEMS ENGINEERING SUPPORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.574
INTEGRATED ACQUISITION MANAGEMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.150
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.76
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.304

### Remarks:

The Collectively Protected Field Hospitals (CPFH) program provides each Service's medical personnel a Chemical, Biological, Radiological, and Nuclear (CBRN) collective protection capability for sustained medical operations in a Chemical and Biological (CB) contaminated environment. The Army's Collectively Protected Deployable Medical System (CP DEPMEDS); the Air Force's Collectively Protected Expeditionary Medical Support (CP EMEDS); and the Navy's Chemically Hardened Expeditionary Medical Facility (CH EMF) converts the service's field hospitals into a fully operational, environmentally controlled, and collectively protected medical treatment facility. Major components include barrier materials, Environmental Control Units (ECU), and air purification equipment.

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016 C	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
0300D / 03 / 1	PA1600 / COLLECTIVE PROTECTION	JP0911 / CP FIELD HOSPITALS (CPFH)

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
CP DEPMEDS MRI 40-BED AUGMENT <sup>(†)</sup>		2012	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	TACOM, Warren, MI	Jan 2012	Nov 2013	1	300.000	Υ		
CP DEPMEDS MRI 40-BED AUGMENT <sup>(†)</sup>		2013	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	TACOM, Warren, MI	Jan 2013	Nov 2014	1	300.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

Ex	hibit	P-21, Pro	oduct	ion Sc	hedu	le: P	B 201	6 Che	emica	and	Biolog	gical [	Defen	se Pr	ogran	า	_			_		_	Date	e: Fel	oruary	2015				
-		<b>riation</b> / 03 / 1	Budg	et Acti	vity /	Bud	get S	ub Ac	ctivity	:		<b>Line</b> 1600		-			ECTI	ON							nber / CP FI		-	_	S (CF	PFH)
			lements in Each)						,		Fiscal Y	ear 2012					,						Fiscal Y	ear 2013						
				ACCEPT									C	alendar	Year 201	2								Caler	ndar Year	2013				
0 0 0		SERVICE	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	B A L
CP	DEPME	OS MRI 40-BEI	AUGME	NT			1		1												1			Į.						
	1 2012	CBDP	1	-	1				Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	ondary ribution	ARMY	1	-	1				Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1 2013	CBDP	1	-	1																Α -	-	-	-	-	-	-	-	-	
	ondary ribution	ARMY	1	-	1																A -	-	-	-	-	-	-	-	-	1
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Exhibit	P-21, Pr	oducti	on Sc	hedul	e: PE	3 2016	3 Che	mica	and	Biolog	gical [	Defen	se Pr	ogran	า							Date	e: Fel	oruary	2015	5		
<b>Approp</b> 0300D /	riation / 03 / 1	Budge	et Acti	vity /	Budg	jet Su	ıb Ac	tivity	:			Item / COL				ECTI	ON							nber / CP FI				S (CP
		lements in Each)								Fiscal Y	ear 2014	ļ										Fiscal Y	ear 2015	i				
м			ACCEPT PRIOR									(	alendar	Year 201	4								Caler	ndar Year	2015			
O F C R O # FY	SERVICE	PROC QTY	TO 1 OCT 2013	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P
CP DEPMED	S MRI 40-BEI	AUGMEI	NT									,		'			,										,	
1 2012	CBDP	1	-	1	-	1																						
Secondary Distribution	ARMY	1	-	1	-	1																						
1 2013	CBDP	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1										
Secondary Distribution	ARMY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1										
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n n	A U G	S E P

Exhibit P-21, Production Schedule: PB 2016 Chemical and	Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
0300D / 03 / 1	PA1600 / COLLECTIVE PROTECTION	JP0911 / CP FIELD HOSPITALS (CPFH)

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
	Pine Bluff Arsenal - Pine Bluff, AR	1	1	1	-	3	23	26	-	3	23	26

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JP1111 / JOINT EXPEDITIONARY 0300D / 03 / 1 PA1600 / COLLECTIVE PROTECTION COLLECTIVE PROTECTION (JECP) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior** FY 2016 **FY 2016** FY 2016 To **Resource Summary FY 2014** FY 2015 000Total **FY 2017 FY 2018 FY 2019** FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) 0.000 4.000 4.000 Gross/Weapon System Cost (\$ in Millions) Less PY Advance Procurement (\$ in Millions) \_ \_ \_ \_ Net Procurement (P1) (\$ in Millions) 0.000 4.000 4.000 Plus CY Advance Procurement (\$ in Millions) Total Obligation Authority (\$ in Millions) 0.000 4.000 4.000 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Hardware Cost Recurring Cost Structure Kit -Improved<sup>(†)</sup> 0.000 103.667 0.622 STANDALONE SHELTER - Stand Alone - Large(†) 0.000 228.889 2.060 9 STANDALONE SHELTER - GFE Generators 0.000 29.222 0.263 TRANSPORT ISLOLATION SYSTEM - Isolation Modules<sup>(†)</sup> 0.000 141.667 0.425 TRANSPORT ISLOLATION SYSTEM - GFE 0.000 0.149 235 0.035 Zippers 0.000 0.020 Spares ----0.000 3.425 Subtotal: Recurring Cost \_ \_ \_ \_ \_ \_ Subtotal: Hardware Cost 0.000 3.425 Logistics Cost Recurring Cost

LI PA1600 - COLLECTIVE PROTECTION Chemical and Biological Defense Program **UNCLASSIFIED** Page 20 of 26

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JP1111 / JOINT EXPEDITIONARY 0300D / 03 / 1 PA1600 / COLLECTIVE PROTECTION COLLECTIVE PROTECTION (JECP) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 **FY 2015 FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost** Qty **Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Qty Cost Cost Cost Cost **Cost Elements** (\$ K) (Each) (\$ K) (Each) (\$ M) (\$ M) Technical Data 0.000 0.001 Subtotal: Recurring Cost 0.000 0.001 \_ Subtotal: Logistics Cost 0.000 0.001 Support Cost Program Management and Support 0.000 0.574 0.574 Subtotal: Support Cost 0.000 ---Gross/Weapon System 0.000 4.000 Cost **FY 2017** FY 2018 FY 2019 FY 2020 **Total Cost** To Complete Total Total Total Total Total Total **Unit Cost** Qty Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (\$ M) (\$ M) (Each) (\$ M) (\$ K) (Each) (Each) (\$ M) (Each) (\$ K) (Each) (\$ K) (\$ M) (\$ K) Hardware Cost Recurring Cost Structure Kit Improved<sup>(†)</sup> 0.622 STANDALONE SHELTER - Stand Alone - Large(†) 2.060 STANDALONE SHELTER - GFE 0.263 Generators TRANSPORT ISLOLATION SYSTEM - Isolation Modules<sup>(†)</sup> 0.425 TRANSPORT ISLOLATION SYSTEM - GFE 0.035 Zippers Spares \_ \_ \_ \_ 0.020 Subtotal: Recurring Cost 3.425 \_ --\_ ------3.425 Subtotal: Hardware Cost -Logistics Cost Recurring Cost

LI PA1600 - COLLECTIVE PROTECTION Chemical and Biological Defense Program UNCLASSIFIED
Page 21 of 26

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

P-1 Line Item Number / Title:

PA1600 / COLLECTIVE PROTECTION

Item Number / Title [DODIC]: JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)

	MD/	AP/M	AIS (	Cod	e:
--	-----	------	-------	-----	----

D Code (A=Service Read	ly, B=Not Servic	e Ready) :							IVI	DAP/MAIS	Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	е	-	Total Cos	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Technical Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Subtotal: Logistics Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
Support Cost					,				,									
Program Management and Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57
Gross/Weapon System Cost	-	-	-	-	=	-	-	=	-	-	-	-	-	-	-	-	-	4.00

#### Remarks:

Beginning in FY 2015, the JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP) program has been consolidated into CBDP line item (BLIN) PHM001 - CB PROTECTION AND HAZARD MITIGATION

Joint Expeditionary Collective Protection (JECP) provides the Joint expeditionary forces a collective protection (CP) capability which is lightweight, compact, modular, and affordable. The JECP family of systems (FoS) include tent kits, structure kits, and standalone shelters that allow the application of CP to transportable soft-side shelters, enclosed spaces of opportunity, and remote austere locations as a standalone resource. JECP is capable of protecting personnel groups of varying size, unencumbered by individual protective equipment (IPE), from effects of chemical and biological (CB) agents, radiological (R) particles, toxic industrial materials (TIMs), heat, dust, and sand.

Tent kits consist of a CB protective liner, airlock system, and a CB filtration blower system. Tent Kit-1 interfaces with the US Navy's Base-X 303 and 305 general purpose tents and all organic Base-X equipment including the environmental control unit and power systems. Tent Kit-2 interfaces with the Air Force Small Shelter System (ASSS) general purpose tents and all organic ASSS equipment including the environmental control unit and power systems.

Structure kits may include a floorless CB protective liner or a CB protective liner with a floor, an airlock system, and a CB filtration blower system. Structure Kit-Improved (SK-I) is retrofitted to structures such as office buildings, warehouses, or hangars that provide coherent walls and roofing, ventilation systems, doors and windows, and power. Structure Kit-Unimproved (SK-UI)/Standalone Shelter System-Medium (SA-M) are retrofitted to structures such as huts, sheds or other rudimentary structures (SK-UI) that do not have any available electrical power, but provide environmental and other basic elemental protection. This configuration uses a passive CP system relying on natural airflow through protective panels.

Standalone large shelter (SA-L) is an all encompassing active CP shelter for multi-service use for up to 20 people. SA-L provides a general purpose tent system, chemical and biological (CB) protective liner, an airlock system, a CB filtration blower system, an environmental control unit and all necessary power and ancillary equipment.

The Transport Isolation System (TIS) provides an aeromedical evacuation capability to transport up to 12 patients that have contagious and/or infectious diseases (e.g. Ebola) while protecting the aircrew, airframe and all other support personnel from infection. C-17 and C-130 aircraft will provide air transport of the TIS and personnel. The users of the TIS will be USTRANSCOM. TIS will be leveraged in support of future CBRN protection technologies.

Justification: FY16 procures 27 JECP systems in the following configurations: 12 tent kit 2s. 6 shelter kit-improved, and 9 standalone large shelters. The employment of JECP is a strategic deterrence against enemy use of CBR agents or TIMs, and will reduce the need for personnel and equipment decontamination.

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PA1600 / COLLECTIVE PROTECTION	Item Number / Title [DODIC]: JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)
D Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
RDT&E Code B Item: 0604384BP/Proj CO5		
CO5/JECP: RDT&E FY14 and Prior - 91.550M; FY15 - 4.617M; FY16 - 7.3	61M	
DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES		
JECP - Capability Production Document (CPD): Jan 2013 JECP - Milestone C LRIP Decision: Feb 2013 JECP - Low-Rate Initial Production Contract Option: Sep 2013 JECP - Production Verification Testing (PVT) (Apr 2014 to Apr 2015) JECP - Multi-service Operational Test and Evaluation I (Apr 2015 to May 2 JECP - Multi-service Operational Test and Evaluation II (Jan 2016 to Mar 2 JECP - Full Rate Production Decision Review: Oct 2016 JECP - Initial Operational Capability: Sep 2021 JECP - Full Operational Capability: Sep 2030	015) 2016)	
†) indicates the presence of a P-5a		

LI PA1600 - COLLECTIVE PROTECTION Chemical and Biological Defense Program UNCLASSIFIED
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Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PA1600 / COLLECTIVE PROTECTION	Item Number / Title [DODIC]: JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)

Cost Elements	0 0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
Structure Kit - Improved <sup>(†)</sup>		2014	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Apr 2015 <sup>(1)</sup>	Sep 2015	6	103.667	Y		Feb 2008
STANDALONE SHELTER - Stand Alone - Large <sup>(†)</sup>		2014	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Apr 2015 <sup>(2)</sup>	Oct 2015	9	228.889	Y		Feb 2008
TRANSPORT ISLOLATION SYSTEM - Isolation Modules <sup>(†)</sup>		2014	Production Products Inc. / St Louis, MO	SS/FFP	Natick, MA	Nov 2014	Dec 2014	3	141.667	Y		Oct 2014

<sup>(†)</sup> indicates the presence of a P-21

# Footnotes:

<sup>(1)</sup> - LRIP

<sup>(2)</sup> - LRIP

												UN	ICLA	ASSI	FIEC	)													
Exhibit	P-21, Pro	oduct	ion Sc	hedul	le: Pl	3 201	6 Che	mica	l and	Biolog	gical [	Defen	se Pr	ogran	n							Date	: Feb	oruary	/ 2015	5			
<b>Approp</b> 0300D /	riation / 1 03 / 1	Budg	et Acti	vity /	Bud	get Sı	ub Ac	tivity	<b>'</b> :		<b>Line</b> 1600					ECTION TECTION	ON					JP1	111 /	JOIN		PEDIT	DIC]: FIONA ION (J		)
		lements in Each)								Fiscal Y	ear 2015											Fiscal Y	ear 2016						
	(67.1167		ACCEPT			_							Calendar	Year 201	15									ndar Yea	r 2016				
M	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Structure Kit																													
1 2014	_	6	-	6							Α -	-	-	-	-	6													-
Secondary Distribution	ARMY	6	-	6							A -	-	-	-	-	6													-
	NE SHELTER -	Stand Al	one - Large																										
2 2014	_	9	-	9							Α -	-	-	-	-	-	5	4											-
Secondary Distribution	ARMY	9	-	9							A -	-	-	-	-	-	5	4											-
TRANSPOR	T ISLOLATION	SYSTEM	1 - Isolation	Modules																									
3 2014		3	-	3		Α -	3																						-
Secondary Distribution	AF	3	-	3		A -	3																						-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PA1600 / COLLECTIVE PROTECTION

Item Number / Title [DODIC]:
JP1111 / JOINT EXPEDITIONARY
COLLECTIVE PROTECTION (JECP)

												` ,
		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFI	2					Ini	tial			Reo	order	
Re	1	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
	1 Leidos - Abingdon, MD	5	20	45	-	6	5	11	-	1	5	6
	Leidos - Abingdon, MD	5	20	45	-	6	5	11	-	1	5	6
	Production Products Inc St Louis, MO	12	20	24	-	1	1	2	-	-	-	-

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement. Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: GP2000 / CONTAMINATION AVOIDANCE CBDP

ID Code (A=Service Ready, B=Not Service Ready) :			Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,584.467	137.888	-	-	-	-	-	-	-	-	-	1,722.355
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,584.467	137.888	-	-	-	-	-	-	-	-	-	1,722.355
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,584.467	137.888	-	-	-	-	-	-	-	-	-	1,722.355
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

Beginning in FY 2015, programs in this line item are consolidated into budget line item (BLIN) SA0001 - SITUATIONAL AWARENESS.

This Budget Line (BLIN) encompasses detection, warning and reporting, and reconnaissance systems. In the area of chemical, biological and radiological detection, the program procures point and remote (stand-off) detection systems: (1) Joint Biological Point Detection System (JBPDS) a point detection suite consisting of complementary trigger, sampler, detector, and identification technologies to detect and identify the full range of biological agents in real-time; (2) Joint Chemical Agent Detector (JCAD) an automatic, lightweight man-portable, point-sampling, chemical warfare agent vapor detection/warning system which includes simultaneous and automatic detection by class (nerve, blister, and blood), identification and quantification of hazard levels, and data communication interface and the MK26 Mod 0 Improved (chemical agent) Point Detection System (IPDS) provides automatic point detection, classification, and warning when there are chemical warfare vapors external to the ship; and IPDS is an Ion Mobility Spectroscopy (IMS) based chemical point detection system with algorithm library and embedded data processing that automatically detects and alarms to nerve and blister vapor at low concentrations and has the capability of rejecting common shipboard interferents; (3) The Non-Traditional Agent Detection (NTAD) Program will evaluate and test developmental technologies to enhance detection systems' capability to detect NTAs. In the warning and reporting and reconnaissance area: (1) Joint Warning and Reporting Network (JWARN) provides a fully automated NBC detection and warning process throughout the battle space: (2) Software Support Activity (SSA) is a user development system providing enterprise-wide services and coordination to facilitate net-centric interoperability: (3) Joint Nuclear Biological and Chemical Reconnaissance Systems (JNBCRS) provide field commanders with point and stand-off intelligence for real time field assessment of NBC hazards which includes support of the Stryker Nuclear Biological and Chemical Reconnaissance Vehicles (NBCRV); and (4) CBRN Dismounted Reconnaissance Systems (CBRN DRS) provides mission critical reconnaissance platoon dismounted capabilities for detection. presumptive identification, sample collection, marking and immediate reporting of standard NBC hazards, to include hazardous industrial materials.

Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: GP2000 / CONTAMINATION AVOIDANCE CRDP

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- / -

CDDF								
ID Code (A=Service Ready, B=Not Service Ready) :	Pro	gran	Elements for Code	B Items:	Ot	her Related Program	Elements:	
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)	P-5, P-5a, P-21	Α	- /41.102	- / 64.398	- / -	- / -	- / -	- / -
JC0100 / JOINT BIO POINT DETECTION SYSTEM (JBPDS)	P-5, P-5a, P-21		- /772.715	- / 23.895	- / -	- / -	- / -	- / -
JF0100 / Joint Chemical Agent Detector (JCAD) (Force Protection)	P-3a		- / 20.540	- / 4.985	- / -	- / -	- / -	- / -
JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)	P-5, P-5a, P-21		- / 242.512	- / 42.277	- / -	- / -	- / -	- / -
MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)	P-5, P-5a, P-21		- / 399.081	- / -	- / -	- / -	- / -	- / -
G47101 / JOINT WARNING & REPORTING NETWORK (JWARN)	P-5		- / 94.015	- / 1.112	- / -	- / -	- / -	- / -
JN0900 / NON TRADITIONAL AGENT DETECTION (NTA DETECT)	P-5		- / 12.302	- / 1.121	- / -	- / -	- / -	- / -
JS5230 / SOFTWARE SUPPORT ACTIVITY (SSA)	P-5		- /2.200	- / 0.100	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 1,584.467	- / 137.888	- / -	- 1 -	- 1 -	- 1 -
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)				
MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)	P-5, P-5a, P-21	Α	- / -	- / -	- / -	- / -	- / -	- / 105.500
JC0100 / JOINT BIO POINT DETECTION SYSTEM (JBPDS)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- /796.610
JF0100 / Joint Chemical Agent Detector (JCAD) (Force Protection)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 25.525
JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / 284.789
MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / 399.081
G47101 / JOINT WARNING & REPORTING NETWORK (JWARN)	P-5		- / -	- / -	- / -	- / -	- / -	- / 95.127

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

P-5

P-5

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

JN0900 / NON TRADITIONAL AGENT DETECTION (NTA DETECT)

JS5230 / SOFTWARE SUPPORT ACTIVITY (SSA)

Total Gross/Weapon System Cost

#### Justification:

Contamination Avoidance is a primary objective of the Joint NBC Defense program. Operational forces have an immediate need to safely operate, survive, and sustain operations in an NBC agent threat environment. Contamination Avoidance is necessary to maintain operational efficiency and minimize the need to decontaminate vehicles, equipment, and areas. Advanced chemical defensive equipment is required to enhance US capability to detect and identify threat agents in the battle space.

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- / 13.423

- / 2.300

- / 1,722.355

							OI	CLAU.										
Exhibit P-5, Cost	Analysi	s: PB 2	016 Chen	nical and E	Biologic	al Defer	nse Progra	m						Date: Fe	ebruary 2	015		
Appropriation / B 0300D / 03 / 1	udget A	ctivity /	Budget	Sub Activ	ity:		L <b>ine Item</b> 000 / CON				NCE			MC0101	imber / T I / CBRN NAISSAI	DISMOU	JNTED	
ID Code (A=Service Read	ly, B=Not Serv	vice Ready) :	A						N	IDAP/MAI	IS Code:							
Resource S	ummary	,	Prior Years	FY 201	4 FY	2015	FY 2016 Base	FY 20 OCC		Y 2016 Total	FY 2017	FY 2	018 F	Y 2019	FY 202	Tomp		Total
Procurement Quantity (Unit	ts in Each)		-		-	-	-		-	-	-		-	-	-		-	-
Gross/Weapon System Co	ost (\$ in Million	ns)	41.10	2 64.3	398	-	-		-	-	-		-	-	-		-	105.500
Less PY Advance Procure	ment (\$ in Mi	illions)	-		-	-	-		-	-	-		-	-	-		-	-
Net Procurement (P1) (\$ in	Millions)		41.10	2 64.3	398	-	-		-	-	-		-	-	-		-	105.500
Plus CY Advance Procure	ment (\$ in Mi	illions)	-		-	-	-		-	-	-		-	-	-		-	-
Total Obligation Authorit	y (\$ in Million	s)	41.10	2 64.3	98	-	-		-	-	•		-	-			-	105.500
	(The	e following	Resource Sui	nmary rows ar	e for info	rmational pu	rposes only. Ti	he correspo	onding bu	dget request	s are document	ed elsewh	nere.)				'	
Initial Spares (\$ in Millions)			-		-	-	-		-	-	-		-	-			-	-
Gross/Weapon System Un	nit Cost (\$ in	Thousands)	-		-	-	-		-	-	-		-	-			-	-
Note: Subtotals or Totals in		t P-5 may r	_		ounding. Y 2014		F	Y 2015		F	Y 2016 Base	)	F	Y 2016 OC	0	FY	' 2016 To	otal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	35.524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CBRN DRS - DR SKO Army Configuration <sup>(†)</sup>	-	-	1.148	1,055.000	32	33.760	-	-	-	-	-	-	-	-	-	-	-	-
CBRN DRS - DR SKO Army Configuration Civil Support Team (CST) <sup>(†)</sup>	-	-	0.000	674.571	14	9.444	_	-	-	_	-	-	-	-	-	-	-	-
Engineering Support (FLIR)	-	-	0.000	-	-	6.094	-	-	-	-	-	-	-	-	-	-	-	-
DR SKO Initial Spares	-	-	0.500	-	-	6.574	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	37.172	-	-	55.872		-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	37.172	-	-	55.872	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost		T	1	Г		0.555	T T							1		I		
Fielding Support	-	-	1.400	-	-	3.022	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support  DR SKO First Article Test	-	-	1.820 0.000	-	-	2.170 3.000	-	-	-	-	-	-	-	-	-	-	-	-
DR SKO First Article Test  DR SKO Contractor  Logistics Support	-	-	0.000	-		0.334	-	-		-	-		_			-		-
0 wpport	<u> </u>	L	1 3 10			0.001									1			

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program UNCLASSIFIED Page 3 of 39

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)

ID Code (A=Service Ready, B=Not Service Ready) : A

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

140tc. Oubtotals of Totals i	III UIIS EXIIIDII	i o may no	or be exact e	n add, ddc te	rounding.													
	F	Prior Years	5		FY 2014			FY 2015		FY	/ 2016 Ba	se	F	Y 2016 OC	0	F	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support Cost	-	-	3.930	-	-	8.526	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	41.102	-	-	64.398	-	-	-	-	-	-	-	-	-	-	-	-

		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	te	1	Total Cost	İ
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost									,							,		,
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.52
CBRN DRS - DR SKO Army Configuration <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	34.90
CBRN DRS - DR SKO Army Configuration Civil Support Team																		
(CST) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.44
Engineering Support (FLIR)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.09
DR SKO Initial Spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.07
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93.04
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	93.04
Support Cost																		
Fielding Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.42
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.99
DR SKO First Article Test	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	3.00
DR SKO Contractor Logistics Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.04
Subtotal: Support Cost	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	- 1	-	12.45
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105.50

#### Remarks:

Beginning in FY 2015, the CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS) program has been consolidated into CBDP line item (BLIN) SA0001 - SITUATIONAL AWARENESS

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program UNCLASSIFIED Page 4 of 39

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)
ID Condo	NAD A D/MA A IO O I	

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

The CBRN Dismounted Reconnaissance Systems (CBRN DRS) consists of portable, commercial and government off-the-shelf equipment which provides personnel protection from current and emerging CBRN hazards through detection, identification, sample collection, decontamination, marking, and hazard reporting for CBRN threats. The system supports Dismounted Reconnaissance, Surveillance, and CBRN Site Assessment missions which enables more detailed and near real-time CBRN information flow for the Warfighter. In addition the CBRN DRS consists of commercial and government off-the-shelf equipment which will enhance current Civil Support Team (CST) capability to address emerging threats in a domestic incident.

Justification:

RDT&E Code B Item: 0607384BP/Proj CA7

CA7/CBRN DRS: RDT&E; FY15 - 0.491M; FY16 - 4.837M; FY17 - 4.854M; FY18 - 4.817M; FY19 - 4.870M; FY20 - 4.986M; FY21 - 4.346M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

CBRN DRS - Milestone (MS) B: Mar 2011

CBRN DRS - Milestone (MS) C LRIP: Mar 2013

CBRN DRS - Production Qualification Test (Mar 2013 to Jul 2013)

CBRN DRS - MOT&E (Aug 2013 to Nov 2013)

CBRN DRS - FRP/Deployment (Mar 2014 to Sep 2022)

CBRN DRS - First Article Test (PBA Only): Mar 2015

CBRN DRS - IOC - Navy: Sep 2014

CBRN DRS - IOC - Army: Jun 2015

CBRN DRS - IOC - USMC: Jun 2016

CBRN DRS - IOC-Air Force: Jun 2019

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<sup>(†)</sup> indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016 0	Chemical and Biological Defense Program	Date: F	ebruary 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	MC010	umber / Title [DODIC]: 1 / CBRN DISMOUNTED NNAISSANCE SYSTEMS (CBRN

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	_	Date Revision Available	RFP Issue Date
CBRN DRS - DR SKO Army Configuration <sup>(†)</sup>		2014	FLIR Systems Inc. / Elkridge, MD	C / FFP	RDECOM, Edgewood, MD	Jan 2014 <sup>(1)</sup>	Jun 2014	32	1,055.000	Y		Jan 2013
CBRN DRS - DR SKO Army Configuration Civil Support Team (CST) <sup>(†)</sup>		2014	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Jun 2014	Jan 2015	14	575.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

Footnotes:

<sup>(1) (</sup>Option)

												UN	NCL/	ASSI	FIE	)													
Exhibit F	P-21, Pro	oduct	ion Sc	hedul	le: PE	3 2016	6 Che	emica	l and	Biolog	gical [	Defen	se Pr	ograr	n							Date	: Feb	oruary	2015	5			
Appropr 0300D / 0		Budg	et Acti	ivity /	Budç	jet Su	ıb Ad	ctivity	<b>/</b> :				Num NTAM			: AVOIE	DANC	E				MC0	101 <i>I</i> ONN		N DIS	SMOL	DIC]: JNTEI STEMS		3RN
		lements in Each)								Fieral V	ear 2014	1									,	Fiscal Ye	ar 2015						
	(Onno i	III Edon)	ACCEPT	1						1100011			Calendar	Year 20	14							11000110		ndar Year	2015				
M O F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CBRN DRS -	DR SKO Arm	y Configu	ration													,													
1 2014	CBDP	32	: -	32				Α -	-	-	-	-	1	2	2	5	5	5	5	5	2								-
Secondary Distribution	ARMY	32	-	32				Α -	-	-	-	-	1	2	2	5	5	5	5	5	2								-
CBRN DRS -	DR SKO Arm	y Configu	ration Civil	Support T	eam (CS	T)																							
2 2014	CBDP	14	-	14									Α -	-	-	-	-	-	-	2	2	2	2			2	1		-
Secondary Distribution	ARMY	14	-	14									A -	-	-	-	-	-	-	2	2	2	2	2	2	2			-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and	Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	FLIR Systems Inc Elkridge, MD	1	6	20	3	4	3	7	6	-	3	3
- 1	Pine Bluff Arsenal - Pine Bluff, AR	1	6	20	-	3	1	4	-	3	4	7

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

DETECTION SYSTEM (JBPDS)

ID Code (A=Service Ready, B=Not Service Ready)	:					MDAP/MA	IS Code:					
	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	772.715	23.895	-	-	-	-	-	-	-	-	-	796.610
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	772.715	23.895	-	-	-	-	-	-	-	-	-	796.610
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	772.715	23.895	-	-	-	-	-	-	-	-	-	796.610
(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Ti	he corresponding	g budget reques	ts are documente	ed elsewhere.)		<u> </u>		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	F	Prior Years	<b>3</b>		FY 2014			FY 2015		FY	′ 2016 Bas	se	FY	/ 2016 OC	0	FY	′ 2016 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Hardware Cost						,			,						,			
Recurring Cost																		
Prior/Future combined efforts	-	-	679.071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBPDS - M98 - M98 Ship Variant <sup>(†)</sup>	1,726.333	12	20.716	-	-	-	_	-	-	-	-	-	-	-	-	-	-	_
JUPITR Integration and Software Support	-	-	0.000	-	-	1.455	-	-	-	-	-	-	-	-	-	-	-	-
JUPITR Engineering and Technical Support	-	-	0.000	-	-	1.175	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	699.787	-	-	2.630	-	-	-	-	-	-	-	-	-	- [	-	-
Non Recurring Cost																		
Contract close out	-	-	0.000	-	-	4.543	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	0.000	-	-	4.543	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	699.787	-	-	7.173	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost									,									
Quality Assurance	-	-	2.964	-	-	0.593	-	-	-	-	-	-	-	-	-	-	-	-
Engineering and Technical Support	-	-	37.883	-	-	7.264	-	-	-	-	-	-	-	-	-	-	-	-
Program Management	-	-	5.431	-	-	3.858	-	-	-	-	-	-	-	-	-	-	-	-
System Fielding Support	-	-	4.414	-	-	0.735	-	-	-	-	-	-	-	-	-	- 1	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

Budget Sub Activity / Budget Sub Activity:

GP2000 / CONTAMINATION AVOIDANCE

DETECTION SYSTEM (JBPDS)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

		,		,	Ū													
	F	Prior Year	S		FY 2014			FY 2015		F	′ 2016 Ba	se	F'	Y 2016 OC	0	F`	Y 2016 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Engineering Change Orders to address Obsolescence and technology refresh	-	-	22.236	-	-	4.272	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	72.928	-	-	16.722	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	_	_	772.715	-	_	23.895	-	_	_	_	_	_	-	-	_	-	_	_

		FY 2017			FY 2018			FY 2019			FY 2020		Te	o Comple	te		Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		•
Recurring Cost																		
Prior/Future combined efforts	-	_	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	679.071
JBPDS - M98 - M98 Ship Variant <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.716
JUPITR Integration and Software Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.455
JUPITR Engineering and Technical Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.175
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	702.417
Non Recurring Cost																		
Contract close out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.543
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.543
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	706.960
Support Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.557
Engineering and Technical Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.147
Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.289
System Fielding Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.149
Engineering Change Orders to address Obsolescence and technology refresh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.508

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
0300D / 03 / 1	GP2000 / CONTAMINATION AVOIDANCE	JC0100 / JOINT BIO POINT
		DETECTION SYSTEM (JRPDS)

ID Code (A=Service Rea	dy, B=Not Serv	ice Ready) :							M	DAP/MAIS	S Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		To	Comple	te		Total Cost	1
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89.650
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	_	-	_	-	-	-	-	-	796.610

#### Remarks:

The Joint Biological Point Detection System (JBPDS) provides continuous, rapid, and fully automated collection, detection, and identification of biological warfare agents. The JBPDS fully integrates a biological agent detection system, cyclone collector, fluid transfer system, biological agent detection system, and automated hand held assay reader into a biological sensor suite. The sensor suite is operated by two onboard controllers and a touchpad screen display. The system can be controlled and monitored locally and remotely, and automatically interfaces with global positioning, meteorological, and communication systems. It is fully hardened and configured for a variety of service designated mobile platforms and battle spaces, including surface ships, and wheeled vehicles. The JBPDS's configuration specific nomenclatures are the M97 Shelter variant and the M98 Ship variant. The M31A2 BIDS (Biological Integrated Detection System) integrates the M97 into a High Mobility Wheeled Vehicle (HMMWV) with shelter. The M97 is also integrated into the Stryker NBCRV (Nuclear Biological Chemical Reconnaissance Vehicle). The M98 is integrated onto surface ships. JBPDS provides both: (1) a means to limit the effects of Biological Warfare Agent (BWA) attacks and the potential for catastrophic effects to U.S. forces; and, (2) assistance to medical personnel in determining effective preventive measures, prophylaxis, and the appropriate treatment if exposure occurs.

Engineering changes to refresh the technology of the JBPDS consisted of two separate efforts that, when combined, will reduce the overall life cycle cost and address obsolescence concerns. The technology upgrade for the detector will focus on the Rapid Agent Aerosol Detector (RAAD) developed by Massachusetts Institute of Technology - Lincoln Labs (MIT-LL) is transitioning to limited production at Kansas City Plant (KCP). These engineering changes will support the Joint US Forces Korea Portal and Integrated Threat Reduction (JUPITR) advanced technology demonstration (ATD). FY14 was the final year of JBPDS funding.

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: JC0100 / JOINT BIO POINT DETECTION SYSTEM (JBPDS)

Cost Elements	0 C 0 F	Υ	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost		 RFP Issue Date
JBPDS - M98 - M98 Ship Variant <sup>(†)</sup>	20	12	General Dynamics ATP / Charlotte, NC	C/FFP	Army Contract Agency, APG, MD	Feb 2012 <sup>(2)</sup>	Nov 2013	12	389.000	Y	

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

(2) Option 2

Exhibit I	P-21, Pr	oduct	ion Sc	hedu	le: PE	3 201	6 Che	mica	and	Biolog	gical [	Defen	se Pr	ogran	า							Date	: Feb	ruary	2015	5			
Appropi 0300D /		Budg	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:		<b>Line</b> 2000						DANC	E				JC0	100 <i>l</i>	nber / JOIN ON S	т віо	POI	_	5)	
		lements in Each)								Fiscal Y	ear 2012											Fiscal Y	ear 2013	,					
			ACCEPT									C	alendar	Year 201	2								Caler	dar Year	2013				
O F C R FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JBPDS - M98	- M98 Ship V	/ariant	'			,													,										
1 2012	CBDP	12	-	12					Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Secondary Distribution	NAVY	12	-	12					Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J	A U	S E P	B A

Exhibit	P-21, Pro	oduct	ion Sc	hedul	e: PE	3 201	6 Che	mica	and	Biolo	gical [	Defen	se Pr	ogran	า							Date	e: Feb	oruary	2015	5			
Approp 0300D /	oriation / / 03 / 1	Budge	et Acti	vity /	Budç	get Sı	ub Ac	tivity	:		Line 2000		-				DANC	Œ				JC0	100 <i>l</i>	nber / JOIN ON S	T BIO	POII	_	)	
		lements in Each)								Fiscal \	rear 2014											Fiscal Y	ear 2015	1					
			ACCEPT									C	alendar	Year 20	4								Cale	ndar Yea	2015				
O F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J	J U L	A U G	S E P	
JBPDS - MS	98 - M98 Ship V	ariant																											
1 201	2 CBDP	12	-	12	-	6	6																						
Secondary Distribution	NAVY	12	-	12	-	6	6																						
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

DETECTION SYSTEM (JBPDS)

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	1	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
	General Dynamics ATP - Charlotte, NC	2	14	24	12	11	12	23	-	4	12	16

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-3a, Individual Modification: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

JF0100 / Joint Chemical Agent Detector (JCAD)

								(,			
Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
-	-	-	-	-	-	-	-	-	-	-	-
20.540	4.985	-	-	-	-	-	-	-	-	-	25.525
-	-	-	-	-	-	-	-	-	-	-	-
20.540	4.985	-	-	-	-	-	-	-	-	-	25.525
-	-	-	-	-	-	-	-	-	-	-	-
20.540	4.985	-	-	-	-	-	-	-	-	-	25.525
Resource Sumi	mary rows are fo	or informational p	ourposes only. Tl	ne corresponding	g budget request	s are documente	ed elsewhere.)		:		
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	Years - 20.540 - 20.540 - 20.540	Years FY 2014  20.540 4.985  20.540 4.985  - 4.985	Years         FY 2014         FY 2015           -         -         -           20.540         4.985         -           -         -         -           20.540         4.985         -           -         -         -           20.540         4.985         -	Years         FY 2014         FY 2015         Base           -         -         -         -           20.540         4.985         -         -           -         -         -         -           20.540         4.985         -         -           -         -         -         -           20.540         4.985         -         -           20.540         4.985         -         -	Years         FY 2014         FY 2015         Base         OCO           -         -         -         -         -         -           20.540         4.985         -         -         -         -           20.540         4.985         -         -         -         -           20.540         4.985         -         -         -         -           20.540         4.985         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total           -         -         -         -         -           20.540         4.985         -         -         -           -         -         -         -         -           20.540         4.985         -         -         -         -           20.540         4.985         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017           -         -         -         -         -         -           20.540         4.985         -         -         -         -           20.540         4.985         -         -         -         -         -           -         -         -         -         -         -         -         -           20.540         4.985         -         -         -         -         -         -           Resource Summary rows are for informational purposes only. The corresponding budget requests are documented and purposes only. The corresponding budget requests are documented and purposes.         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Prior Years         FY 2014         FY 2015         FY 2016 Base         FY 2016 OCO         FY 2016 Total         FY 2017         FY 2018         FY 2019           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Prior Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Prior Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -

### **Description:**

The MK26 Mod 1 Improved (Chemical Agent) Point Detection System Lifecycle Replacement (IPDS-LR) provides automatic point detection, classification, and warning when there are chemical warfare vapors external to the ship. IPDS-LR is an Ion Mobility Spectrometer (IMS) based chemical point detection system with algorithm library and embedded data processing that automatically detects and alarms to nerve and blister vapor at low concentrations and has the capability of rejecting common shipboard interferents.

Development S	Status/Major Development Milestones	
Date	Title	Description
Apr 2011	Production IPR	

Exhibit P-3a, Individual Modification:	PB 2016 Che	emical and	Biological	Defense P	rogram				Date: Feb	ruary 2015	5	
Appropriation / Budget Activity / Bud 0300D / 03 / 1	get Sub Acti	vity:		tem Numb CONTAMI		VOIDANCI	E			<b>ion Numb</b> Joint Chem	er / Title: nical Agent	Detector
Models of Systems Affected: Multiple	class ships	Modifi	cation Ty	<b>oe:</b> Force F	Protection		Re	lated RDT	&E PEs:			,
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M										
Procurement	·											
<b>Modification Item 1 of 1:</b> Joint Chemical Agent Detector (JCAD)												
B Kits												
Recurring												
Equipment	107 / 12.840	36 / 4.630	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	143 / 17.470
Subtotal: Recurring	107 / 12.840	36 / 4.630	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 17.470
Subtotal: Joint Chemical Agent Detector (JCAD)	107 / 12.840	36 / 4.630	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 17.470
Subtotal: Procurement, All Modification Items	107 / 12.840	36 / 4.630	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	143 / 17.470
Support (All Modification Items)			-			-						
Other	- 17.700	- / 0.355	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- /8.055
Subtotal: Support	- /7.700	- /0.355	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /8.05
Installation	•			•	•		•		•		·	
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total				•	•		•		•		•	
Total Cost (Procurement + Support + Installation)	20.540	4.985	_	_	_	_	_	_	_	_	_	25.525

79

Exhibit P-3a, Individ	dual Modification: Pl	3 2016 Chemical and	d Biological Defense P	rogram		<b>Date:</b> February 2015	j							
Appropriation / Bud 0300D / 03 / 1	lget Activity / Budge	t Sub Activity:	P-1 Line Item Numb GP2000 / CONTAMI	oer / Title: NATION AVOIDANCI	Ξ	Modification Number JF0100 / Joint Chem (JCAD)								
Modification Item 1 of 1: Joint Chemical Agent Detector (JCAD)														
Manufacturer Information	n													
Manufacturer Name: Navy	/ Depot Field Team			Manufacturer Location: No	orfolk, VA									
Administrative Leadtime (	in Months): 10			Production Leadtime (in N	fonths): 6									
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020							
Contract Dates	May 2015	May 2016	May 2017											

Mar 2018

### Installation Information

Delivery Dates

Method of Implementation: Alteration Installation Teams (AITs).

Mar 2016

Mar 2017

	Duian Vasus	EV 2044	EV 2045	FY 2016	FY 2016	FY 2016	EV 2047	EV 2040	FV 2040	EV 2020	To	Tatal
	Prior Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)											
Prior Years	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2014	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -

#### Installation Schedule

111000																															
			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			FY 2	2018			FY 2	019			FY 2	020			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	107	-	36	-	-	-	31	-	-	-	29	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230
Out	88	-	35	-	-	-	24	-	-	-	27	-	-	-	21	-	-	-	11	-	-	-	9	-	-	-	8	-	_	7	230

80

UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program **Date:** February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JF0100 / JOINT CHEMICAL AGENT 0300D / 03 / 1 GP2000 / CONTAMINATION AVOIDANCE DETECTOR (JCAD) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior** FY 2016 **FY 2016** FY 2016 To **Resource Summary** FY 2014 FY 2015 000Total FY 2017 **FY 2018** FY 2019 FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 242.512 42.277 284.789 Less PY Advance Procurement (\$ in Millions) \_ \_ Net Procurement (P1) (\$ in Millions) 242.512 42.277 284.789 Plus CY Advance Procurement (\$ in Millions) Total Obligation Authority (\$ in Millions) 242.512 42.277 284.789 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Thousands)

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	P	rior Years	;		FY 2014			FY 2015		FY	′ 2016 Ba	se	FY	/ 2016 OC	0	FY	′ 2016 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Hardware Cost						,												
Recurring Cost																		
Prior/Future combined efforts	-	-	186.229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M4A1 JCAD - FRP - JCAD Communication Adapter <sup>(†)</sup>	-	-	0.000	2.072	3,557	7.370	-	-	-	-	-	-	-	-	-	-	-	-
M4A1 JCAD - FRP - Stryker Communication Adapter <sup>(†)</sup>	-	-	0.000	2.079	2,713	5.640	-	-	-	-	-	-	-	-	-	-	-	-
M4A1 JCAD - FRP - M4A1 JCAD - Hardware <sup>(†)</sup>	27.708	1,562	43.280	4.479	5,983	26.798	-	-	-	-	_	-	-	_	-	-	_	_
Subtotal: Recurring Cost	-	-	229.509	-	-	39.808	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	229.509	-	-	39.808	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost																		
Engineering Support (Govt)	-	-	8.207	-	-	2.160	-	-	-	-	-	-	-	-	-	-	-	-
System Fielding Support (Gov't) (First Article Test (FAT), Total Package Fielding, First Destinat	-	-	4.796	-	-	0.309	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 03 / 1

P-1 Line Item Number / Title:

Item Number / Title [DODIC]: JF0100 / JOINT CHEMICAL AGENT

GP2000 / CONTAMINATION AVOIDANCE

DETECTOR (JCAD)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

				,														
	F	Prior Years	S		FY 2014			FY 2015		F	7 2016 Ba	se	F	Y 2016 OC	0	F	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Subtotal: Support Cost	-	-	13.003	-	-	2.469	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	242.512	-	-	42.277	-	-	-	-	-	-	-	-	-	-	-	-

		FY 2017			FY 2018			FY 2019			FY 2020		To	o Comple	te	1	Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Hardware Cost	*					•									•			
Recurring Cost																		
Prior/Future combined efforts	-	-	_	-	-	_	-	-	_	-	-	-	-	-	-	-	-	186.22
M4A1 JCAD - FRP - JCAD Communication Adapter <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.37
M4A1 JCAD - FRP - Stryker Communication Adapter <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.64
M4A1 JCAD - FRP - M4A1 JCAD - Hardware <sup>(†)</sup>	-	_	_	_	_	-	-	-	-	_	_	_	-	-	-	_	_	70.078
Subtotal: Recurring Cost	-	_	-	_	_	_	_	_	_	-	_	_	-	_	_	-	_	269.31
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	269.317
Support Cost				-	l .													<u> </u>
Engineering Support (Govt)	-	-	_	-	-	_	-	-	-	-	-	-	-	-	_	-	-	10.367
System Fielding Support (Gov't) (First Article Test (FAT), Total Package Fielding, First Destinat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.10
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	15.472
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	284.789

#### Remarks:

Beginning in FY 2015, the JOINT CHEMICAL AGENT DETECTOR (JCAD) program has been consolidated into CBDP line item (BLIN) SA0001 - SITUATIONAL AWARENESS

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program UNCLASSIFIED
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	UNCLASSIFIED	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)
D Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	,
The JCAD program employs an incremental acquisition strategy to develop alerts in the presence of nerve, blister, and blood chemical warfare agents, sustainment costs to the Warfighter and obtains many of the objective valuand individual Soldier applications. The M4 JCAD will replace the M8A1 a Improved Chemical Agent Monitor (ICAM) and other legacy systems currel system (IPDS). The MK26 Mod 1 Improved (Chemical Agent) Point Detect warfare vapors external to the ship. IPDS-LR is an Ion Mobility Spectrome alarms to nerve and blister vapor at low concentrations and has the capability indicates the presence of a P-5a	p a miniaturized, rugged, and portable point chemical agent detector that it. The M4 JCAD entered full rate production in September 2008 and were used in the JCAD Increment I CPD. Production of the M4A1 began April Found the M22 Automatic Chemical Agent Alarms (ACAA/ACADA). The M4 ently used by the individual Services. These funds also support a Lifecycotion System Lifecycle Replacement (IPDS-LR) provides automatic point eter (IMS) based chemical point detection system with an algorithm librar	re procured through FY10. The M4A1 reduces operations and FY11. JCAD will be used for wheeled vehicles, stand alone, 4A1 may also replace the Chemical Agent Monitor (CAM) and the Replacement (LR) for the Navy's Improved Point Detection to detection, classification, and warning when there are chemical

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)		Now?	Available	Date
M4A1 JCAD - FRP - JCAD Communication Adapter <sup>(†)</sup>		2014	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	Dec 2013 <sup>(3)</sup>	Feb 2014	3,557	2.072	Y		
M4A1 JCAD - FRP - Stryker Communication Adapter <sup>(†)</sup>		2014	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	Jun 2014 <sup>(4)</sup>	Jul 2014	2,713	2.079	Y		
M4A1 JCAD - FRP - M4A1 JCAD - Hardware <sup>(†)</sup>		2013	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	May 2013 <sup>(5)</sup>	Jun 2013	1,562	6.361	Y		
M4A1 JCAD - FRP - M4A1 JCAD - Hardware <sup>(†)</sup>		2014	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	Dec 2013 <sup>(6)</sup>	Feb 2014	5,983	4.479	Υ		

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

- (3) (Option)
- (4) (Option)
- (5) (Opt 3) (6) (Option)

ppropriation (1937) 300D / 03 /		udge	t Activ	vity / l	Budg	jet Sι	ıb Ac	tivity							1														
									•		_	Item N / CONT	-			VOID	ANC	Ξ				JF01	00 / J		Title   CHE CAD)			ENT	
	Cost Elem (Units in E									Fiscal Y	ear 2013										F	iscal Ye	ar 2014						
			ACCEPT	D41								Cale	endar Y	ear 201	3								Calend	dar Year	2014				
M F R # FY SEI		PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
14A1 JCAD - FRP	P - JCAD Co	mmunica	ation Adap	ter										-															
1 2014 CBD	DP	3,557	-	3,557															A -	-	257	257	257	257	316	316	316	316	1,2
econdary ARM stribution		3,557	-	3,557															A -	-	257	257	257	257	316	316	316	316	1,2
14A1 JCAD - FRP	- Stryker Co	ommunio	cation Ada	pter																									
2 2014 CBD	DP	2,713	-	2,713																					A -	339	339	339	1,6
econdary ARM stribution		2,713	-	2,713																					A -	339	339	339	1,6
14A1 JCAD - FRP	P - M4A1 JC/	AD - Har	dware																										
3 2013 CBD	DP	1,562	-	1,562								A -	173	173	173	173	173	173	173	173	178								
econdary ARM stribution		1,562	-	1,562								A -	173	173	173	173	173	173	173	173	178								-
3 2014 CBD	DP	5,983	-	5,983															A -	-	257	257	257	257	619	619	619	619	2,4
econdary ARM stribution		5,983	-	5,983															A -	-	257	257	257	257	619	619	619	619	2,4
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	B A L

	'-21, Pro	oduct	on Sc	hedu	e: PB	201	6 Che	mical	and E	Biolog	gical [	Defen	se Pr	ograr	n							Dat	e: Fe	bruar	/ 201	5			
<b>Appropri</b> 0300D / 0	i <b>ation</b> / 1 03 / 1	Budge	et Acti	vity /	Budg	et Sı	ıb Act	ivity:				Item / CON					DANG	CE				JF0	100 <i>l</i>	nber JOIN OR (J	T CH	EMIC		SENT	Γ
		lements in Each)								iscal Y	ear 2015											Fiscal	/ear 201	6					
M			ACCEPT PRIOR	BAL								C	Calendar	Year 20	15		,						Cale	ndar Yea	r 2016			1	
O F C R C FY	SERVICE	PROC QTY	TO 1 OCT 2014	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
M4A1 JCAD - F	FRP - JCAD	Communi	cation Adap	oter									-		-							1							
1 2014	CBDP	3,557	2,292	1,265	316	316	316	317																					
Secondary Distribution	ARMY	3,557	2,292	1,265	316	316	316	317																					
M4A1 JCAD - F	FRP - Stryke	r Commur	ication Ada	apter																									
$\overline{}$	CBDP	2,713	1,017	1,696	339	339	339	339	340																				
Distribution	ARMY	2,713		1,696	339	339	339	339	340																				
M4A1 JCAD - F		1																											
3 2013 Secondary Distribution	ARMY	1,562 1,562	1,562 1,562	-																									
-	CBDP	5,983	3,504		619	620	620	620																					
	ARMY	5,983	3,504		619	620	620	620																					
					O C	N O	D E	J A	F E	M A	A P R	M A	J	Ŋ	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	E

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

Item Number / Title [DODIC]:

JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Smiths Detection - Edgewood, MD	100	1,800	2,600	-	3	2	5	-	5	6	11
2	Smiths Detection - Edgewood, MD	100	1,800	2,600	-	3	2	5	-	5	6	11
	Smiths Detection - Edgewood, MD	89	1,800	2,200	-	2	8	10	-	8	3	11

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

							UN	CLASS	ILIEI	J									
Exhibit P-5, Cost	Analysis	16 Cher	nical and	al Defe	Defense Program								Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1							P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE								Item Number / Title [DODIC]: MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)				
ID Code (A=Service Read	-	MDAP/MAIS Code:																	
Resource Summary			Prior Years FY 2		14 FY	2015	FY 2016 Base	FY 201 OCO		Y 2016 Total	FY 2017	FY 2	018 F	Y 2019	FY 2020	Comp	-	Total	
Procurement Quantity (Units in Each)			-		-	-	-	-					-	-				-	
Gross/Weapon System Cost (\$ in Millions)			399.081 -		-	-	-			-	-				-		-	399.08	
Less PY Advance Procurement (\$ in Millions)					-	-	-					-		-	-			-	
Net Procurement (P1) (\$ in Millions)			399.081 -		-	-	-			-		-		-	-			399.08	
Plus CY Advance Procurement (\$ in Millions)		ons)			-	-	-			-				-	-		-	-	
Total Obligation Authority (\$ in Millions)			399.081 -		-	-	-	-		-	-		-	-	-		-	399.08	
	(The	following F	Resource Su	mmary rows a	are for infori	national p	urposes only. T	he correspon	ding bud	get requests	are documer	ted elsewh	ere.)		?		<u>'</u>		
Initial Spares (\$ in Millions)			-		-		-	-		-	-		-	-				-	
Gross/Weapon System Unit Cost (\$ in Thousands)			-		-	-	-		-		-			-	-		-	-	
		,																	
Note: Subtotals or Totals	_			· -	<u> </u>					1									
	P	rior Year	s	FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total			
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	t Qty (Each)	Total Cost (\$ M)	Jnit Cost	Qty (Each)	Total Cost (\$ M)	
Hardware Cost			'							'				'		,			
Recurring Cost																			
Prior/Future combined efforts	-	-	329.681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment																			
Sensor Suite-CVSS <sup>(†)</sup>	86.000	58	4.988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-CBMS <sup>(†)</sup>	303.569	58	17.607	_	_		_	_		_			_		_		_		
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment	000.000		17.507																
Sensor Suite-SPG <sup>(†)</sup>	117.636	99	11.646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite- JBPDS <sup>(†)</sup>	355.141	99	35 150																
Subtotal: Recurring Cost	303.141	99	35.159 399.081	-	-	-	-	-		-	-	-	-	-	-	-		-	
Subtotal. Reculling Cost	-	-	399.087		-	-		-	-		- 1	-	-		-	-	-		

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program UNCLASSIFIED Page 26 of 39

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

RECONNAISSANCE SYSTEM
(JNBCRS)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

INDIE. Subidiais di Totais i	ווו נוווס באוווטונ	r-5 may no	of the exact t	n add, dde it	o rounding.													
	Prior Years				FY 2014			FY 2015	_	FY	/ 2016 Ba	se	F	Y 2016 OC	0	FY	<b>/ 2016 Tot</b>	al
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware Cost	-	-	399.081	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	399.081	-	-	-	_	_	-	-	-	-	-	-	-	-	-	-

		FY 2017			FY 2018			FY 2019			FY 2020		To	Complet	te		Total Cost	1
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	329.6
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment																		
Sensor Suite-CVSS <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.98
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment																		
Sensor Suite-CBMS <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.6
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-SPG <sup>(†)</sup>	-	_	_	-	-	_	-	-	-	_	-	-	_	-	_	_	-	11.6
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite- JBPDS <sup>(†)</sup>	-	-	_	-	-	-	_	-	_	-	-	_	_	_	_	-	_	35.1
Subtotal: Recurring Cost	_		_	-		_	_		_	_		_	_		_	_	_	399.0
Subtotal: Hardware Cost	_		_	-		_	-		-	_			_		_	_		399.0
Gross/Weapon System						_										_		333.0
Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	399.08

#### Remarks:

Beginning in FY 2015, the JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS) program has been consolidated into CBDP line item (BLIN) SA0001 - SITUATIONAL AWARENESS

	UNCLASSIFIED	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
The Joint Nuclear Biological and Chemical Reconnaissance Systems (JNB commanders with point and early warning intelligence for real time field ass Biological Point Detection System (JBPDS), Chemical Vapor Sampling Sys spares. The NBC Equipment Suite performs the vital function of detecting, Service Light NBC Reconnaissance System in addition to NBC equipment states.	sessment of NBC hazards. The NBC Equipment Suite consists of the Cotem (CVSS), Training Aids, Devices and Simulation Systems (TADSS) identifying, collecting, reporting, and marking NBC hazards and toxic in	Chemical and Biological Mass Spectrometer II (CBMS II), Joint , the Sensor Processing Group and associated initial and pipelir
(†) indicates the presence of a P-5a		

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program

Exhibit P-5a, Procurement History and Planning: PB 2016 Chemical and Biological Defense ProgramDate: February 2015Appropriation / Budget Activity / Budget Sub Activity:<br/>0300D / 03 / 1P-1 Line Item Number / Title:<br/>GP2000 / CONTAMINATION AVOIDANCEItem Number / Title [DODIC]:<br/>MC0100 / JOINT NBC<br/>RECONNAISSANCE SYSTEM<br/>(JNBCRS)

	C			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail		RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-CVSS <sup>(†)</sup>		2013	Battelle Memorial Institute / Columbus, OH	C / FFP	Army Contract Agency, APG, MD	Nov 2012 <sup>(7)</sup>	Oct 2013	58	57.052	Y		Apr 2009
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-CBMS <sup>(†)</sup>		2013	Hamilton Sundstrand Corp. / Pomona, CA	SS/FFP	Army Contract Agency, APG, MD	Mar 2013 <sup>(8)</sup>	Jan 2014	58	290.655	Y		Feb 2012
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-SPG <sup>(†)</sup>		2012	CACI International / Manassas, VA	C / FFP	Army Contract Agency, APG, MD	May 2012	Jan 2013	41	86.561	Y		Oct 2011
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-SPG <sup>(†)</sup>		2013	CACI International / Manassas, VA	C/FFP	Army Contract Agency, APG, MD	Nov 2012 <sup>(9)</sup>	Jul 2013	58	139.603	Y		Oct 2011
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-JBPDS <sup>(†)</sup>		2012	General Dynamics ATP / Charlotte, NC	C/FFP	Army Contract Agency, APG, MD	Feb 2012 <sup>(10)</sup>	Jan 2013	41	344.976	Y		Feb 2009
JNBCRS NBC EQUIPMENT SUITES - NBC Equipment Sensor Suite-JBPDS <sup>(†)</sup>		2013	Chemring Detection Systems / Charlotte, NC	C / FFP	Army Contract Agency, APG, MD	May 2013 <sup>(11)</sup>	Jan 2014	58	379.569	Y		Feb 2009

<sup>(†)</sup> indicates the presence of a P-21

#### Remarks

Regarding JBPDS: Novation by DCMA occurred on 9 AUG 12, recognizing Chemring Detection Systems as successor on all open General Dynamics ATP contracts.

#### Footnotes:

- (7) (Option Year)
- (8) (Option Year)
- (9) (Option Year)
- (10) (Option Year)
- (11) (Option Year)

Ex	hibit F	2-21, Pro	oducti	on Sc	hedul	le: Pl	3 201	6 Che	emica	l and	Biolog	gical [	Defen	se Pr	ogran	1							Date	: Feb	ruary	2015				
	Appropriation / Budget Activity / Budget Sub Activity / 300D / 03 / 1  Cost Elements (Units in Each)									<b>':</b>		_	Item / CON	-			AVOIE	DANC	E				MC0 REC	Num 100 / ONN BCRS	JOIN AISS	T NB	С			
											Fiscal Y	ear 2012											Fiscal Y	ear 2013						
	_			ACCEPT									С	alendar	Year 201	2								Calen	dar Year	2013				
O   1	₹	SERVICE	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JNB	CRS NBC	EQUIPMEN	SUITES	- NBC Equ	ipment S	ensor Sı	uite-CVSS	3							,					,										
1	2013	CBDP	58	-	58														A -	-	-	-	-	-	-	-	-	-	-	58
	ndary bution	ARMY	58	-	58														A -	-	-	-	-	-	-	-	-	-	-	58
JNB	CRS NBC	EQUIPMEN <sup>*</sup>	r suites	- NBC Equ	ipment S	ensor Sı	uite-CBM	S																						
2	2013	CBDP	58	-	58																		A -	-	-	-	-	-	-	58
	ndary bution	ARMY	58	-	58																		A -	-	-	-	-	-	-	58
JNB	CRS NBC	EQUIPMEN <sup>*</sup>	SUITES	- NBC Equ	ipment S	ensor Sı	uite-SPG																							
3	2012	CBDP	41	-	41								Α -	-	-	-	-	-	-	-	4	4	4	4	4	4	5	4	4	
	ndary bution	ARMY	41	-	41								Α -	-	-	-	-	-	-	-	4	4	4	4	4	4	5	4	4	,
3	2013	CBDP	58	-	58														Α -	-	-	-	-	-	-	-	10	10	10	28
	ndary bution	ARMY	58	-	58														A -	-	-	-	-	-	-	-	10	10	10	28
JNB	CRS NBC	EQUIPMEN	SUITES	- NBC Equ	ipment S	ensor Sı	uite-JBPD	S																						
4	2012	CBDP	41	-	41					Α -	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	4	7	7	7	6
	ndary bution	ARMY	41	-	41					A -	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	4	7	7	7	(
5	2013	CBDP	58	-	58																				A -	-	-	-	-	58
	ndary bution	ARMY	58	-	58																				A -	-	-	-	-	58
						0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	B A L

-	<b>:</b>					
-	<b>:</b>					
Item Number / Title [DODIC]: MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)						
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Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

MC0100 / JOINT NBC

RECONNAISSANCE SYSTEM

(JNBCRS)

	Produc	tion Rates (Each /	Month)	th) Procurement Leadtime (Months)										
MFR					Init	ial			Reo	rder				
Ref # MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1			
Battelle Memorial Institute - Columbus, OH	3	8	14	6	1	12	13	4	1	12	13			
2 Hamilton Sundstrand Corp Pomona, CA	1	6	20	-	8	9	17	4	5	11	16			
3 CACI International - Manassas, VA	4	14	30	1	7	9	16	3	1	13	14			
4 General Dynamics ATP - Charlotte, NC	2	6	10	12	11	12	23	-	4	12	16			
5 Chemring Detection Systems - Charlotte, NC	3	6	10	12	11	12	23	-	7	9	16			

#### Remarks:

Production rates are monthly for all manufacturers

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 GP2000 / CONTAMINATION AVOIDANCE G47101 / JOINT WARNING & REPORTING NETWORK (JWARN) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior FY 2016 FY 2016 FY 2016** To **Resource Summary FY 2014** FY 2015 000Total **FY 2017 FY 2018 FY 2019** FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 94.015 1.112 95.127 Less PY Advance Procurement (\$ in Millions) \_ \_ \_ \_ Net Procurement (P1) (\$ in Millions) 94.015 1.112 95.127 Plus CY Advance Procurement (\$ in Millions) -Total Obligation Authority (\$ in Millions) 94.015 1.112 95,127 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (Each) (\$ K) (\$ K) Software Cost Recurring Cost Prior/Future combined 91.369 efforts JWARN INCR. 1 -Software & Installation (Contractor) 0.656 0.289 Subtotal: Recurring Cost 92.025 0.289 \_ \_ \_ \_ Subtotal: Software Cost 92.025 0.289 Package Fielding Cost Recurring Cost JWARN INCR. 1 - System Fielding Support (TPF, FDT, NET) 1.405 0.556 Subtotal: Recurring Cost 1.405 0.556 \_ Subtotal: Package Fielding Cost 1.405 0.556 Support Cost JWARN INCR. 1 -Technical Engineering 0.585 0.267 Support Subtotal: Support Cost 0.585 0.267

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 GP2000 / CONTAMINATION AVOIDANCE G47101 / JOINT WARNING & REPORTING NETWORK (JWARN) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost** Unit Cost **Unit Cost** Qty Qty Cost Qty Cost Qty Cost Qty Cost Qty Cost Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) Gross/Weapon System Cost 94.015 1.112 FY 2018 FY 2017 FY 2019 **FY 2020** To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (\$ K) (\$ K) Software Cost Recurring Cost Prior/Future combined 91.369 efforts JWARN INCR. 1 -Software & Installation (Contractor) 0.945 Subtotal: Recurring Cost \_ -\_ -92.314 Subtotal: Software Cost 92.314 Package Fielding Cost Recurring Cost JWARN INCR. 1 - System Fielding Support (TPF, FDT, NET) 1.961 Subtotal: Recurring Cost 1.961 Subtotal: Package Fielding Cost 1.961 Support Cost JWARN INCR. 1 -Technical Engineering 0.852 Support 0.852 Subtotal: Support Cost ---Gross/Weapon System 95.127 Cost

#### Remarks:

Beginning in FY 2015, the JOINT WARNING & REPORTING NETWORK (JWARN) program has been consolidated into CBDP line item (BLIN) SA0001 - SITUATIONAL AWARENESS

The Joint Warning and Reporting Network (JWARN) provides the Joint Forces with a comprehensive Early Warning (EW) analysis and response capability to minimize the effects of hostile Chemical, Biological, Radiological, and Nuclear (CBRN) attacks, incidents and accidents. It provides the operational capability to employ CBRN warning technology which will collect, analyze, identify, locate, report, and disseminate

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program **UNCLASSIFIED** 

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	ai Defense Program	Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: G47101 / JOINT WARNING & REPORTING NETWORK (JWARN)				
D Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:					
CBRN warnings. JWARN will transition from a Command and Control (C2) comprehensive Common Operating Environment (COE). JWARN Incremer filtering, integration of route-planning calculator, and interoperability with ad and Control Centers at the appropriate level and will be employed by CBRN will transfer data automatically from existing sensors and to and from the fut integrate existing sensors into a sensor network or host C2 system, but doe Services Command, Control, Communications, Computers, Intelligence, Su Activities include: logistical elements, support equipment, manuals and train	platform specific implementation to a Web-based Service Oriented Arrit 2 will provide an expansion of sensors that will connect to JWARN, i ditional Command and Control (C2), medical information and evolving I defense specialists and other designated personnel to improve the efture sensors to provide commanders with the capability to support opers not provide the sensors that will be employed in the operating environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environmental environme	chitecture (SOA) meeting the DoD's evolution to a more ncreased automation of message handling, improved false alarm Bio-Surveillance systems. JWARN will be located in Command ficiency of limited CBRN personnel assets. This employment rational decision making in a CBRN environment. JWARN will be compatible and integrated with Joint				

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JN0900 / NON TRADITIONAL AGENT 0300D / 03 / 1 GP2000 / CONTAMINATION AVOIDANCE DETECTION (NTA DETECT) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **FY 2016 Prior FY 2016 FY 2016** To **Resource Summary FY 2014** FY 2015 000Total FY 2017 **FY 2018 FY 2019** FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) 12.302 1.121 13.423 Gross/Weapon System Cost (\$ in Millions) Less PY Advance Procurement (\$ in Millions) \_ \_ \_ \_ Net Procurement (P1) (\$ in Millions) 12.302 1.121 13.423 Plus CY Advance Procurement (\$ in Millions) \_ Total Obligation Authority (\$ in Millions) 12.302 1.121 13,423 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost** Qty Qty Cost Qty Cost Qty Cost Qty Cost Qty Cost Cost **Cost Elements** (\$ M) (Each) (\$ M) (Each) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Support Cost Prior/Future combined 10.580 efforts Shimadzu 0.000 0.784 Implementation Fielding Support 0.312 0.196 -\_ -\_ Engineering Support 1.410 0.141 \_ Subtotal: Support Cost 12.302 1.121 \_ \_ \_ Gross/Weapon System 12.302 Cost 1.121 FY 2018 FY 2020 **FY 2017** FY 2019 To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Cost Elements** (\$ K) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (Each) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ M) (\$ K) (\$ M) (\$ K) Support Cost Prior/Future combined 10.580 efforts Shimadzu 0.784 Implementation Fielding Support ---------\_ -0.508 Engineering Support 1.551

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

P-1 Line Item Number / Title:

GP2000 / CONTAMINATION AVOIDANCE

Item Number / Title [DODIC]: JN0900 / NON TRADITIONAL AGENT

99

DETECTION (NTA DETECT)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

		FY 2017			FY 2018			FY 2019			FY 2020		To	Complet	е		Total Cost	į
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.423
Gross/Weapon System Cost	-	-	-	-	=	-	-	-	=	-	=	-	-	-	-	-	=	13.423

#### Remarks:

The Non-Traditional Agent Detection (NTAD) efforts provide a family of broad spectrum detection systems, through an incremental approach, which will enhance the Warfighter's ability to attain situational awareness and respond to unknown and emerging hazards. The products provide a near term capability to detect emerging threat materials in addition to affording a common core technology which can be exploited to serve a broad spectrum detection system for lab deployable, fixed site, and handheld applications.

Justification:

RDT&E Code B Item: 0604384BP/Proj CA5

CA5/NTA DETECT: RDT&E FY14 and Prior - 55.930M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

NTA DETECT - COTS/GOTS Capability Shortfall Closure (Sep 2011 to Jun 2013) NTA DETECT - Field Deployable Mass Spec DT/OA (Dec 2011 to Mar 2012)

							UN	ICLASS	SIFIE	ט								
Exhibit P-5, Cost	Analysi	<b>s:</b> PB 20	16 Chem	ical and	Biologic	al Defer	se Progra	am						Date: F	ebruary 2	015		
<b>Appropriation / B</b> 0300D / 03 / 1	Sudget A	ctivity /	Budget S	Sub Acti	vity:		_ine Item 000 / CON				NCE			JS5230	imber / <b>T</b> / SOFTW ΓΥ (SSA)			T
ID Code (A=Service Read	dy, B=Not Serv	rice Ready) :							M	DAP/MAI	S Code:							
Resource S	ummary	,	Prior Years	FY 20	14 FY	2015	FY 2016 Base	FY 20°		Y 2016 Total	FY 2017	FY 2	018 F	Y 2019	FY 202	To Comp		Total
Procurement Quantity (Uni	its in Each)		-		-	-	-		-	-	-		-	-	-		-	-
Gross/Weapon System Co	ost (\$ in Million	ns)	2.200	0	.100	-	-		-	-	-		-	-	-		-	2.300
Less PY Advance Procure	ement (\$ in Mi	illions)	-		-	-	-		-	-	-		-	-			-	-
Net Procurement (P1) (\$ in	n Millions)		2.200	0	.100	-	-		-	-	-		-	-	-		-	2.300
Plus CY Advance Procure	ement (\$ in Mi	llions)	-		-	-	-		-	-	-		-	-	-		-	-
Total Obligation Authorit	ty (\$ in Million	s)	2.200	0	.100	-	-		-	-	-		-	-			-	2.300
	(The	e following R	Resource Sum	mary rows a	are for infori	mational pu	rposes only. 7	The correspo	nding bud	lget requests	are document	ed elsewh	ere.)					
Initial Spares (\$ in Millions)			-		-	-	-		-	-	-		-	-	-		-	-
Gross/Weapon System Ur	nit Cost (\$ in	Thousands)	-		-	-	-		-	-	-		-	-	-		-	-
Note: Subtotals or Totals i	n this Exhibi	t P-5 may no	ot be exact or	add, due to	rounding.													
	ı	Prior Years	6		FY 2014			FY 2015		F	Y 2016 Base		F	Y 2016 OC	0	FY	2016 To	 otal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Support Cost	(\$10)	(Lacii)	(\$ W)	(\$10)	(Lacii)	(\$ 101)	(\$ 10)	(Lacii)	(\$ 101)	(\$10)	(Lacii)	(\$ 101)	(\$ 10)	(Lacii)	(\$ W)	(\$11)	(Lacii)	(\$ 101)
Prior/Future combined efforts	-	-	2.200	-	-	-	-	-	_	-	-	-	-	-	-	-	_	-
SSA - System Fielding Support (TFP, NET)	-	-	0.000	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	2.200	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	2.200	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
	T	EV 0047			FV 0040		1	F)/ 0040		1	FV 0000			. 0	4-	-	F-4-1 O-	
		FY 2017	<b>T</b> . (.)		FY 2018	<b>T</b> . (.)		FY 2019	T. (.)		FY 2020		ı	o Comple	1		Total Cos	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Support Cost				,	,			'								,		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.200
SSA - System Fielding Support (TFP, NET)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.100
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.300
Gross/Weapon System Cost	_	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	2.300

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: GP2000 / CONTAMINATION AVOIDANCE	Item Number / Title [DODIC]: JS5230 / SOFTWARE SUPPORT ACTIVITY (SSA)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Remarks: Beginning in FY 2015, the SOFTWARE SUPPORT ACTIVITY (SSA) progra	am has been consolidated into CBDP line item (BLIN) SA0001 - SITUA	TIONAL AWARENESS
The JPEO-CBD SSA is a JPEO-CBD user developmental support and servinteroperability of systems in acquisition for the Warfighter. The SSA provinteroperability Certifications, Verification, Validation and Accreemphasizes development of reference implementations to guide Governmental technologies/products include the definition of a Common CBRN	des the CBRND Warfighter with Joint Service solutions for Integrated A editation (VV&A) to support interoperable and integrated net-centric, serent and industry system and software developers to ensure that their produced in the Integration Standard (CCSI) and the CBRN Data Model. Thes	rchitectures, Data Management/Modeling, Information vice-oriented solutions for CBRND systems. The SSA oducts meet common interoperability standards.
integrated sensor networks and the dissemination of CBRN information acr The SSA directly supports CBDP Bio-Surveillance initiatives in providing co		nd dissemination of Rio-Surveillance information
The Co. Careday Supports CDD1 Bio Carvellance initiatives in providing of	on the service of the field at office date and marries work for the concession and	is disserimental of the ediventance information.

LI GP2000 - CONTAMINATION AVOIDANCE Chemical and Biological Defense Program

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: SA0001 / SITUATIONAL AWARENESS CRDP

ID Code (A=Service Ready, B=Not Service Ready) : E	3		Program Ele	ments for Co	de B Items:			Other Relate	d Program El	ements:		
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	194.499	141.223	-	141.223	152.989	189.899	313.701	321.189	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	194.499	141.223	-	141.223	152.989	189.899	313.701	321.189	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	194.499	141.223	-	141.223	152.989	189.899	313.701	321.189	Continuing	Continuing
(The following	Resource Sum	mary rows are f	or informational p	ourposes only. Th	ne corresponding	g budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

### Description:

Beginning in FY15, the Chemical Biological Situational Awareness (CB SA) Budget Line Item (BLIN) facilitates a family-of-systems approach across the domains providing situational awareness capabilities to the Joint Force through a consolidated CB SA portfolio that comprises efforts across contamination avoidance, special purpose units, homeland defense, diagnostics, and CB surveillance. Efforts previously captured under the Contamination Avoidance (GP2000), Installation Force Protection (JS1000), and diagnostics and biosurveillance efforts under the Joint Bio Defense Program (Medical) (MA0800) BLINs are now consolidated in this BLIN.

Specific situational awareness efforts provided include detection, warning and reporting, reconnaissance systems, field analytics systems, diagnostics equipment and special purpose unit equipment.

Efforts in the area of chemical, biological and radiological detection include; (1) Joint Biological Point Detection System (JBPDS) a point detection suite consisting of complementary trigger, sampler, detector, and identification technologies to detect and identify the full range of biological agents in real-time; (2) Joint Chemical Agent Detector (JCAD) an automatic, lightweight man-portable, point-sampling, chemical warfare agent vapor detection/warning system which includes simultaneous and automatic detection by class (nerve, blister, and blood), identification and quantification of hazard levels, and data communication interface and the MK26 Mod 0 Improved (chemical agent) Point Detection System (IPDS) provides automatic point detection, classification, and warning when there are chemical warfare vapors external to the ship; and IPDS is an Ion Mobility Spectroscopy (IMS) based chemical point detection system with algorithm library and embedded data processing that automatically detects and alarms to nerve and blister vapor at low concentrations and has the capability of rejecting common shipboard interferents; (3) The Non-Traditional Agent Detection (NTAD) Program will evaluate and test developmental technologies to enhance detection systems' capability to detect NTAs.

Efforts in the warning, reporting and reconnaissance area include; (1) Joint Warning and Reporting Network (JWARN) provides a fully automated NBC detection and warning process throughout the battle space: (2) Software Support Activity (SSA) is a user development system providing enterprise-wide services and coordination to facilitate net-centric interoperability: (3) Joint Nuclear Biological and Chemical Reconnaissance Systems (JNBCRS) provide field commanders with point and stand-off intelligence for real time field assessment of NBC hazards which includes support of the Stryker Nuclear Biological and Chemical Reconnaissance Vehicles (NBCRV); and (4) CBRN Dismounted Reconnaissance Systems (CBRN DRS) provides mission critical reconnaissance platoon dismounted capabilities for detection. presumptive identification, sample collection, marking and immediate reporting of standard NBC hazards, to include hazardous industrial materials; (5) The Next Generation Diagnostic System (NGDS) program is a DoD effort to develop and field a common medical test equipment and diagnostic platform among all Military Services. A multi-incremental configuration, evolutionary development and fielding approach is proposed which will provide expanded capability for an early warning tool of health threats, early detection of health events, and overall situational awareness. NGDS will identify both BW agents and pathogens of operational concern (Increment 1). (6) The Critical Reagents Program (CRP) integrates and consolidates all DoD reagents/antibodies/DNA biological detection requirements. (7) Biosurveillance (BSV) requirements address medical and physical CBRN mission needs for the Joint Biosurveillance Common Framework (JBCF), which will provide a single enterprise environment that supports collaboration, data sharing and coordination between multiple BSV stakeholders.

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Exhibit P-40, Budget Line Item Justification: Pl	3 2016 Chemical and Biological De	efense Program	Date: February 2015
<b>Appropriation / Budget Activity / Budget Sub A</b> 0300D: Procurement, Defense-Wide / BA 03: Che CBDP		P-1 Line Item Number / Ti SA0001 / SITUATIONAL A	
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B It	ems:	Other Related Program Elements:
(NGB) Weapons of Mass Destruction - Combat Support Team through the streamlined acquisition of COTS/government-off-Common Analytical Laboratory System (CALS), which will be been designed independently by various agencies with the integral of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream of the common stream o	ns (WMD-CST) and Special Purpose Units the-shelf (GOTS) capability upgrades that in modular, scalable and adaptable to a varie ent of meeting specific units requirements. It can accommodate quick installation or ren	to address legacy requirements gap incorporate proven advancements in ty of concept of operations (CONOF As a result, multiple mobile lab cor noval of equipment as mission requ	(CBRNE) rapid response capability for the National Guard Bureaus s/deficiencies for WMD-CST's and SPU-CBE's where they exist technology to satisfy mission performance standards. (2) The PS) and environmental conditions. Currently, fielded systems have figurations exist with differing sustainment tails and lacking in irrements dictate. As well, it will provide the ability to rapidly develop a

LI SA0001 - SITUATIONAL AWARENESS Chemical and Biological Defense Program

Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: SA0001 / SITUATIONAL AWARENESS CBDP

ID Code (A=Service Ready, B=Not Service Ready) : B	PIC	yran	Elements for Code	D ILEITIS.	Otti	er Related Program I	Lieilieilis.	
Exhibits Schedule		,	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cos (Each) I (\$ M)
JX0301 / BIOSURVELLENCE PORTAL (BSP)	P-5		- / 0.000	- / -	- / -	- / 1.620	- / -	- / 1.620
MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)	P-5, P-5a, P-21	Α	- / 0.000	- / -	- / 123.694	- / 108.704	- / -	- / 108.704
JX0210 / CRITICAL REAGENTS PROGRAM (CRP)	P-5		- / 0.000	- / -	- / 2.564	- / 1.005	- / -	- / 1.005
JX0302 / GLOBAL BIO TECH INITIATIVE (GBTI)	P-5, P-5a, P-21		- / 0.000	- / -	- / -	- / 3.675	- / -	- / 3.675
JF0100 / Joint Chemical Agent Detector (JCAD) (Force Protection)	P-3a		- / -	- / -	- / 4.426	- / 4.366	- / -	- / 4.366
JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)	P-5, P-5a, P-21		- / 0.000	- / -	- / 32.498	- / 3.468	- / -	- / 3.468
JC0208 / JOINT EFFECTS MODEL (JEM)	P-5		- / 0.000	- / -	- / 1.141	- / 3.316	- / -	- / 3.316
MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)	P-5		- / 0.000	- / -	- /3.600	- /3.600	- / -	- /3.600
G47101 / JOINT WARNING & REPORTING NETWORK (JWARN)	P-5		- / 0.000	- / -	- / 0.766	- / -	- / -	- / -
JF0104 / NEXT GEN CHEMICAL DETECTOR (NGCD)	P-5, P-5a, P-21		- / 0.000	- / -	- / -	- / 1.000	- / -	- /1.000
JM8788 / NEXT GENERATION DIAGNOSTICS SYSTEM (NGDS)	P-5		- / 0.000	- / -	- / 12.518	- / 5.300	- / -	- / 5.300
JS5230 / SOFTWARE SUPPORT ACTIVITY (SSA)	P-5		- / 0.000	- / -	- / -	- / 0.100	- / -	- / 0.100
JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)	P-5, P-5a, P-21		- / 0.000	- / -	- / 13.292	- / 5.069	- / -	- / 5.069
Total Gross/Weapon System Cost			- / 0.000	- 1 -	- / 194.499	- / 141.223	- 1 -	- / 141.223
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title	Exhibits	ID CD	Quantity / Total Cost	Quantity / Total Cos				
Title*  JX0301 / BIOSURVELLENCE PORTAL (BSP)	P-5	CD	(Each) I (\$ M)	(Each) / (\$ M) - / 1.220	(Each) I (\$ M)	(Each) I (\$ M)	(Each) I (\$ M)	(Each) I (\$ M) - / 6,500
MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)	P-5. P-5a. P-21	A	- / 97.789	- / 1.220	- / 1.220	- / 151.179	Continuing	Continuing
JX0210 / CRITICAL REAGENTS PROGRAM (CRP)	P-5, P-5a, P-21	A	- / 1.005	- / 102.288	- / 1.005	- /151.179	- / -	- / 7.589
• • • • • • • • • • • • • • • • • • • •	P-5, P-5a, P-21		- / 2.100	- / 1.005	- / 6.090	- / 2.100	- / -	- / 16.065
JX0302 / GLOBAL BIO TECH INITIATIVE (GBTI)	P-3, P-3a, P-21	+	<u></u>	- /2.100	- / 6.090	- /2.100	- / -	
JF0100 / Joint Chemical Agent Detector (JCAD) (Force Protection)	P-3a P-5, P-5a, P-21		- /4.240 - /3.307	- / -	- / -	- / -	- / -	- / 13.032 - / 39.273
JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)	P-5, P-5a, P-21	$\vdash$		<u> </u>				
JC0208 / JOINT EFFECTS MODEL (JEM)	P-5		- /5.069	- /3.086	- / 3.031 - / -	- / 2.728	Continuing	Continuing
MC0100 / JOINT NBC RECONNAISSANCE SYSTEM (JNBCRS)	P-5		- /3.600	- / 3.600 - / 1.522			- / -	- / 14.400 - / 7.889
G47101 / JOINT WARNING & REPORTING NETWORK (JWARN)	1		- / 4.589		- / 0.533 - / 17.208	- / 0.479	- / -	
JF0104 / NEXT GEN CHEMICAL DETECTOR (NGCD)	P-5, P-5a, P-21	$\vdash$	- / 2.378	- /1.000		- / 17.204	Continuing	Continuing
JM8788 / NEXT GENERATION DIAGNOSTICS SYSTEM (NGDS)	P-5	$\vdash$	- / 9.798	- / 15.412	- /16.014	- /11.900	- / -	- / 70.942
JS5230 / SOFTWARE SUPPORT ACTIVITY (SSA)	P-5	$\square$	- / 0.100	- / 0.100	- / 0.100	- / 0.090	Continuing	Continuing
IOCOCCA ANAMAD CONTROL CALIFORNIA TECNAR (MATARIC COST)	P-5, P-5a, P-21	1 1	- / -	- / -	- / -	- / -	- / -	- / 18.361
JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST) Total Gross/Weapon System Cost	1-5,1-58,1-21		- / 152.989	- /189.899	- /313.701	- / 321.189	Continuing	Continuing

Justification:

	0.110=/	JO.: 122	
Exhibit P-40, Budget Line Item Justification:	PB 2016 Chemical and Biological De	fense Program	Date: February 2015
<b>Appropriation / Budget Activity / Budget Sub</b> 0300D: Procurement, Defense-Wide / BA 03: ChCBDP		P-1 Line Item Number SA0001 / SITUATIONA	
ID Code (A=Service Ready, B=Not Service Ready) : B	Program Elements for Code B It		Other Related Program Elements:
Situational Awareness is a primary objective of the Chemica environment. Contamination Avoidance is necessary to ma required to enhance US capability to detect and identify three	al Biological Defense Program. Operational fo intain operational efficiency and minimize the eat agents in the battle space and the homela	orces have an immediate need need to decontaminate vehicle nd. Warning, reporting, and re	Other Related Program Elements:  to safely operate, survive, and sustain operations in an NBC agent threat es, equipment, and areas. Advanced chemical defensive equipment is connaissance efforts will provide a tiered strategy for detection and warning ionally, efforts in this BLIN support Special Purpose Unit operations and the

LI SA0001 - SITUATIONAL AWARENESS Chemical and Biological Defense Program UNCLASSIFIED Page 4 of 57

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JX0301 / BIOSURVELLENCE PORTAL 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS (BSP) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior FY 2016 FY 2016 FY 2016** To **Resource Summary FY 2014** FY 2015 000Total **FY 2017 FY 2018 FY 2019** FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 1.620 1.620 1.220 1.220 1.220 1.220 6.500 -Less PY Advance Procurement (\$ in Millions) \_ \_ \_ Net Procurement (P1) (\$ in Millions) 0.000 1.620 1.620 1.220 1.220 1.220 1.220 6.500 \_ Plus CY Advance Procurement (\$ in Millions) \_ \_ Total Obligation Authority (\$ in Millions) 0.000 1.620 1.620 1.220 1.220 1.220 1.220 6.500 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (\$ M) (\$ K) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Software Cost Recurring Cost Prior/Future combined efforts Software and 0.000 0.398 Installation 0.398 Subtotal: Recurring Cost 0.000 \_ -0.398 \_ 0.398 Subtotal: Software Cost 0.000 \_ \_ 0.398 \_ \_ 0.398 Package Fielding Cost Recurring Cost System Fielding Support (TPF, FDT, 0.000 0.813 0.813 NET) Subtotal: Recurring Cost 0.000 \_ -\_ \_ 0.813 \_ -\_ 0.813 Subtotal: Package Fielding 0.000 Cost 0.813 0.813 Support Cost Technical Engineering 0.000 0.409 Support 0.409 Subtotal: Support Cost 0.000 0.409 0.409 --Gross/Weapon System 0.000 1.620 1.620

LI SA0001 - SITUATIONAL AWARENESS Chemical and Biological Defense Program UNCLASSIFIED Page 5 of 57

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:

Date: February 2015

JX0301 / BIOSURVELLENCE PORTAL

(BSP)

P-1 Line #74

ID Code (A=Service Ready, B=Not Service Ready):	MDAP/MAIS Code:
-------------------------------------------------	-----------------

		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	te		Total Cost	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Software Cost				'														
Recurring Cost																		
Prior/Future combined efforts	-	-	1.220	-	-	1.220	-	-	1.220	-	-	1.220	-	-	-	-	-	4.88
Software and Installation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39
Subtotal: Recurring Cost	-	-	1.220	-	-	1.220	-	-	1.220	-	-	1.220	-	-	-	-	-	5.27
Subtotal: Software Cost	-	-	1.220	-	-	1.220	-	-	1.220	-	-	1.220	-	-	-	-	-	5.27
Package Fielding Cost									,									
Recurring Cost																		
System Fielding Support (TPF, FDT, NET)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81
Subtotal: Package Fielding Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81
Support Cost															,			
Technical Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
Gross/Weapon System Cost	-	-	1.220	-	-	1.220	-	_	1.220	-	-	1.220	-	-	-	-	=	6.50

#### Remarks:

The Biosurveillance Portal (BSP) is a web-based enterprise environment that will facilitate collaboration, communication, and information sharing in support of the detection, management, and mitigation of man-made and naturally occurring biological events. BSP bridges the communication gaps in the Biosurveillance domain to provide a central access point for Biosurveillance information and situational awareness for DoD, interagency and allied partners supporting the early identification and response to biological events.

BSP provides an integrated suite of web-based components designed to support public health officers, environmental officers, clinicians, physicians, and CBRN personnel as they maintain their situational awareness of local, regional, and global biological threats to the force. BSP does not duplicate existing DoD capabilities, but rather leverages existing tools and technologies to provide users across multiple organizations and disciplines with a centralized "one-stop shop" for all of their Biosurveillance resources.

Justification: FY16 funding provides for Total Package Fielding (TPF) and New Equipment Training (NET).

							UN	CLAS	SIFIE	)								
Exhibit P-5, Cost	Analysis	s: PB 20	016 Chen	nical and	Biologi	cal Defe	nse Progra	m						Date: Fe	ebruary 2	:015		
Appropriation / B 0300D / 03 / 1	Budget A	ctivity /	Budget	Sub Acti	vity:	I	<b>Line Item</b> I 001 / SITU				S			MC0101	/ CBRN	itle [DOI DISMOUNCE SYS	JNŢEI	D S (CBRN
ID Code (A=Service Read	dy, B=Not Servi	ice Ready) : /	A						M	DAP/MAI	S Code:							
Resource S	ummary	,	Prior Years	FY 201	14 FY	Y 2015	FY 2016 Base	FY 20 OCC		Y 2016 Total	FY 2017	FY 2	018	FY 2019	FY 202	To O Comp	·	Total
Procurement Quantity (Uni	its in Each)		-		-	-	-		-	-	-		-	-			-	-
Gross/Weapon System Co	ost (\$ in Million	is)	0.00	0	-	123.694	108.704		-	108.704	97.789	10	02.288	134.343	151.1	79 Continu	ing	Continuing
Less PY Advance Procure	ement (\$ in Mil	llions)	-		-	-	-		-	-	-		-	-	-		-	-
Net Procurement (P1) (\$ in	n Millions)		0.00	0	-	123.694	108.704		-	108.704	97.789	10	02.288	134.343	151.1	79 Continu	ing	Continuing
Plus CY Advance Procure	ement (\$ in Mil	lions)	-		-	-	-		-	-	-		-	-	-		-	-
Total Obligation Authorit	<b>ty</b> (\$ in Millions	s)	0.00	0	-	123.694	108.704		-	108.704	97.789	10	02.288	134.343	151.1	79 Continu	uing	Continuing
	(The	following F	Resource Sui	mmary rows a	are for info	rmational pu	urposes only. Th	ne correspo	onding bud	get requests	s are document	ed elsewh	ere.)					
Initial Spares (\$ in Millions)			-		-	-	-		-	-	-		-	-			-	-
Gross/Weapon System Ur	nit Cost (\$ in 1	Thousands)	-		-	-	-		-	-	-		-	-	-		-	-
Note: Subtotals or Totals i			_			_	_											
	F	Prior Year	'S		FY 2014		F	Y 2015		F	Y 2016 Base			FY 2016 OC	0	FY	2016	Total
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cos	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost														,				
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CBRN DRS - DR SKO Army Configuration <sup>(†)</sup>	-	-	0.000	-	-	-	1,086.650	60	65.199	1,119.370	54	60.446	-	-	-	1,119.370		54 60.44
CBRN DRS - DR SKO Army Configuration Civil Support Team (CST) <sup>(†)</sup>	_		0.000	_			592.280	25	14.807	610.056	6 18	10.981	_	_	_	610.056		18 10.98
CBRN DRS - DR SKO Marine Corps			0.300				552.250	23	14.507	310.000	10	10.001				310.000		.5 10.50
Configuration <sup>(†)</sup>	-	-	0.000	-	-	-	-	-	-	1,613.667		9.682	-	-	-	1,613.667		6 9.68
DR SKO Initial Spares	-	-	0.000	-	-	-	-	-	18.416	-	-	6.995	-	-	-	-	-	- 6.99
Schoolhouse Training Package	-	-	0.000	-	-	_	-	-	2.600	-	-	-	-	_	-	-		-   -
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	101.022	-	-	88.104	-	-	-	-		- 88.1
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	101.022	-	-	88.104	-	-	-	-		- 88.10
Support Cost								1								-		
Fielding Support	-	-	0.000	-	-	-	-	-	6.250		-	6.008	-		-	-		- 6.00
Engineering Support	-	-	0.000	-	-	-	-	-	3.005	-	-	2.622	-	-	-	-		- 2.62

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : A Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **FY 2016 OCO** FY 2016 Total **Prior Years** FY 2014 FY 2015 **FY 2016 Base** Total Total Total Total Total Total **Unit Cost** Qty **Unit Cost Unit Cost Unit Cost** Qty Unit Cost Qty **Unit Cost** Cost Qty Cost Qty Cost Cost Cost Qty Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) DR SKO Contractor Logistics Support 0.000 13.417 11.970 11.970 Subtotal: Support Cost 0.000 22.672 20.600 20,600 -----Gross/Weapon System Cost 0.000 123.694 108.704 108.704 FY 2017 FY 2018 FY 2019 FY 2020 To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Qty Cost **Unit Cost** Qty Cost Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) Hardware Cost Recurring Cost Prior/Future combined Continuing Continuing 97.789 102.288 134.343 151.179 efforts CBRN DRS - DR SKO Army Configuration(†) CBRN DRS - DR SKO Army Configuration Civil Support Team (CST)(†) CBRN DRS - DR SKO Marine Corps Configuration<sup>(†)</sup> DR SKO Initial Spares ----Schoolhouse Training Package Subtotal: Recurring Cost 97.789 102.288 134.343 151.179 Continuing Continuing --Subtotal: Hardware Cost 97.789 102.288 134.343 \_ 151.179 Continuing Continuing Support Cost Fielding Support **Engineering Support** DR SKO Contractor Logistics Support Subtotal: Support Cost Gross/Weapon System Continuing Continuing 97.789 102.288 134.343 151.179

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological	Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)

ID Code (A=Service Ready, B=Not Service Ready): A MDAP/MAIS Code:

#### Remarks:

Prior to FY 2015, the CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS) program was reported under CBDP line item (BLIN) GP2000 - CONTAMINATION AVOIDANCE

The CBRN Dismounted Reconnaissance Systems (CBRN DRS) consists of portable, commercial and government off-the-shelf equipment which provides personnel protection from current and emerging CBRN hazards through detection, identification, sample collection, decontamination, marking, and hazard reporting for CBRN threats. The system supports Dismounted Reconnaissance, Surveillance, and CBRN Site Assessment missions which enables more detailed and near real-time CBRN information flow for the Warfighter. In addition the CBRN DRS consists of commercial and government off-the-shelf equipment which will enhance current Civil Support Team (CST) capability to address emerging threats in a domestic incident.

Justification: FY16 funds procure and field 69 Dismounted Reconnaissance Sets, Kits, and Outfits (DR SKO).

RDT&E Code B Item: 0607384BP/Proj CA7

CA7/CBRN DRS: RDT&E; FY15 - 0.491M; FY16 - 4.837M; FY17 - 4.854M; FY18 - 4.817M; FY19 - 4.870M; FY20 - 4.986M; FY21 - 4.346M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

CBRN DRS - Milestone (MS) B: Mar 2011

CBRN DRS - Milestone (MS) C LRIP: Mar 2013

CBRN DRS - Production Qualification Test (Mar 2013 to Jul 2013)

CBRN DRS - MOT&E (Aug 2013 to Nov 2013)

CBRN DRS - FRP/Deployment (Mar 2014 to Sep 2022)

CBRN DRS - First Article Test (PBA Only): Mar 2015

CBRN DRS - IOC - Navy: Sep 2014

CBRN DRS - IOC - Army: Jun 2015

CBRN DRS - IOC - USMC: Jun 2016

CBRN DRS - IOC-Air Force: Jun 2019

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 0	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]:  MC0101 / CBRN DISMOUNTED  RECONNAISSANCE SYSTEMS (CBRN DRS)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail		RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
CBRN DRS - DR SKO Army Configuration <sup>(†)</sup>		2015	FLIR Systems Inc. / Elkridge, MD	C / FFP	RDECOM, Edgewood, MD	Jan 2015 <sup>(1)</sup>	May 2015	60	1,086.650	Y		Jan 2013
CBRN DRS - DR SKO Army Configuration <sup>(†)</sup>		2016	FLIR Systems Inc. / Elkridge, MD	C / CPFF	RDECOM, Edgewood, MD	Jan 2016 <sup>(2)</sup>	Apr 2016	54	1,119.370	Y		
CBRN DRS - DR SKO Army Configuration Civil Support Team (CST) <sup>(†)</sup>		2015	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Nov 2014	Mar 2015	25	592.280	Υ		
CBRN DRS - DR SKO Army Configuration Civil Support Team (CST) <sup>(†)</sup>		2016	Pine Bluff Arsenal / Pine Bluff, AR	MIPR	Pine Bluff Arsenal, Pine Bluff, AR	Jan 2016	Apr 2016	18	610.056	Y		
CBRN DRS - DR SKO Marine Corps Configuration <sup>(†)</sup>		2016	FLIR Systems Inc. / Elkridge, MD	C / FFP	RDECOM, Edgewood, MD	Jan 2016 <sup>(3)</sup>	Apr 2016	6	1,613.667	Y		

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

(1) (Option) (2) (Option)

(3) (Option)

Ex	hibit F	P-21, Pro	oducti	on Sc	hedul	le: Pl	3 201	6 Che	emical	and	Biolog	jical D	efens	se Pr	ogran	ı							Date	: Feb	ruary	2015				
	propr 00D / 0	iation / 1 03 / 1	Budge	et Acti	vity /	Bud	get Sı	ub Ac	tivity	:		<b>Line</b> 0001 /					RENE	SS					MCC	101 / ONN		N DIS	MOL	DIC]: INTEE STEMS		3RN
	,		lements in Each)								Fiscal Ye	ear 2015											Fiscal Y	ear 2016						
			PROC QTY         OCT QTY         AS OF LOW TO SERVICE         C         O         E         A         E         A         P         A         U         U         U         E         C         O         E         A         E           SERVICE         QTY         2014         1 OCT         T         V         C         N         B         R         R         Y         N         L         G         P         T         V         C         N         E           R SKO Army Configuration         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R																Calen	dar Year	2016									
0 0	F R # FY	SERVICE	QTY	TO 1 OCT 2014	DUE AS OF	C	0	E	Α	E	A	Р	Α	Ü	U	U	E	С	0	E	A	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CBI					60				Δ.	_		_	5	5	5	5	5	5	5	5	5	5	5	5						
Seco	ndary bution	ARMY	60	-	60				A -	-	-	-	5	5			5	5	5	5		5		5						
	2016	CBDP	54	-	54																Α -	-	-	4	5	5	5	5	5	
Distr	ndary bution	ARMY	54	-	54																A -	-	-	4	5	5	5	5	5	
		DR SKO Arm				eam (CS	· ·	1	T	1		. 1																		1
Seco	2 2015 ndary bution	ARMY	25 25	-	25 25		A -	-	-	-	3	4	4	4	4	3	3													
	2 2016	CBDP	18	_	18																Α -	-	_	2	2	2	2	2	2	-
Seco	ndary bution	ARMY	18	-	18																A -	-	-	2		2	2		2	-
		DR SKO Mari	ne Corps	Configurati	on																									
	2016		6	-	6																A -	-	-	2	2	2				_
	ndary bution	MC	6	-	6																A -	-	-	2		2				-
						O C T	N O V	E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U J	r n 1	A U G	S E P	A L

Exhibit F	P-21, Pro	oducti	on Sc	hedul	e: PB	2016	6 Che	mical	and I	Biolo	gical	Defen	se P	rogra	m							Dat	e: Fel	oruary	/ 201	5			
<b>Appropr</b> 0300D / 0		Budge	t Acti	vity /	Budge	et Su	ıb Ac	tivity				ltem / SIT					NESS					MC	0101 CONN	/ CBF		SMOL	DIC]: JNTE STEM		3RN
		lements in Each)								Fiscal \	Year 2017	7										Fiscal \	ear 2018	3					
M O F			ACCEPT PRIOR TO 1	BAL DUE	О	N	D	J	F	М	A	M	J	r Year 2	A	s	0	N	D	J	F	м	А	ndar Yea M	J	J	Α	s	В
C R O # FY	N												U	U	U	E	C	O V	E	A N	E B	A R	P R	A Y	U N	U L	U G	E P	A L
CBRN DRS -	DR SKO Arm	y Configura	ation																										
1 2015	CBDP	60	60	-																									-
Secondary Distribution	ARMY	60	60	-																									_
1 2016	CBDP	54	29		5	5	5	5	5																				-
Secondary Distribution	ARMY	54	29	25	5	5	5	5	5																				-
CBRN DRS -	DR SKO Arm	y Configura	ation Civil S	Support T	eam (CST	·)																							
2 2015	CBDP	25	25	-																									-
Secondary Distribution	ARMY	25	25	-																									-
2 2016	CBDP	18	12	6	2	2																							-
Secondary Distribution	ARMY	18	12	6	2	2	2																						_
CBRN DRS -			Configuration	on	_																								
3 2016		6	6	-																									-
Secondary Distribution	MC	6	6	-																									-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	A L

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Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

MC0101 / CBRN DISMOUNTED RECONNAISSANCE SYSTEMS (CBRN DRS)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
-		WISK FUI 2010	1-0-3 FOI 2010	WAX FOI 2010	FIIOI to OCt 1	Aiter Oct 1	WIIGFLI	Aiter Oct 1	FIIOI to Oct 1	Aiter Oct 1	WIIGFLI	Aiter Oct 1
1	FLIR Systems Inc Elkridge, MD	1	6	20	3	4	3	7	6	-	3	3
2	Pine Bluff Arsenal - Pine Bluff, AR	1	6	20	-	3	1	4	-	3	4	7
3	FLIR Systems Inc Elkridge, MD	1	6	20	3	4	3	7	6	-	3	3

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

JX0210 / CRITICAL REAGENTS
PROGRAM (CRP)

ID Code (A=Service Ready, B=Not Service Ready)	:					MDAP/MA	IS Code:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
•	rouro	2017	1 1 2010			Total	2011	20.0	20.0	1 1 2020	Complete	
Procurement Quantity (Units in Each)	-	-	-		-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	0.000	-	2.564	1.005	-	1.005	1.005	1.005	1.005	1.005	-	7.589
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	2.564	1.005	-	1.005	1.005	1.005	1.005	1.005	-	7.589
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	2.564	1.005	-	1.005	1.005	1.005	1.005	1.005	-	7.589
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)		:		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	F	Prior Years	5		FY 2014			FY 2015		F	/ 2016 Ba	se	F١	′ 2016 OC	0	FY	/ 2016 Tot	tal
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost							'									,		
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANTIBODIES - Ebola Title X Funds	-	-	0.000	-	-	-	-	-	1.553	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	1.553	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	1.553	-	-	-	-	-	•	-	-	-
Support Cost																		
Repository Equipment, Maintenance, and Service Contracts	-	-	0.000	-	-	-	-	-	0.815		-	0.815	-	-	-	-	-	0.8
Quality Assurance/Quality Control Support	-	-	0.000	-	-	-	-	-	0.176	-	-	0.170	-	-	-	-	-	0.17
Inventory and Customer Management Database	-	-	0.000	-	-	-	-	-	0.020	-	-	0.020	-	-	-	-	-	0.02
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	1.011	-	-	1.005	-	-	-	-	-	1.00
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	2.564	-	-	1.005	-	-	-	-	-	1.00

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JX0210 / CRITICAL REAGENTS

PROGRAM (CRP)

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

<u> </u>	.,,	,,																
		FY 2017			FY 2018			FY 2019			FY 2020		T	o Comple	te		Total Cost	t
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	1.005	-	-	1.005	-	-	1.005	-	-	1.005	-	-	-	-	-	4.0
ANTIBODIES - Ebola Title X Funds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	1.5
Subtotal: Recurring Cost	-	-	1.005	-	-	1.005	-	-	1.005	-	-	1.005	-	-	-	-	-	5.5
Subtotal: Hardware Cost	-	-	1.005	-	-	1.005	-	-	1.005	-	-	1.005	-	-	-	-	-	5.5
Support Cost																		
Repository Equipment, Maintenance, and Service Contracts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6
Quality Assurance/Quality Control Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	0.3
Inventory and Customer Management Database	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0
Gross/Weapon System Cost	-	-	1.005	-	-	1.005	-	-	1.005	-	-	1.005	-	-	-	-	-	7.58

#### Remarks:

In order to detect anthrax spores (antigen), a critical reagent (genomics material) may be needed for use in a detection platform (e.g. Joint Biological Agent and Identification Systems). Multiple medical and nonmedical platforms require a continuous, quality supply of critical reagents for effective warning to significantly enhance force survivability. They are also required for rapid medical diagnosis to ensure appropriate treatment of exposed personnel. A common set of reagents for all platforms are required. The Critical Reagents Program (CRP) will ensure the standardization, quality, and availability of reagents that are critical to the successful development, test, and operation of BW detection systems and medical biological products. The CRP integrates and consolidates all Department of Defense (DoD) biological threat reagents/antibodies detection requirements from System Development and Demonstration (SDD) through production. The CRP will ensure the availability of high quality reagents and detection assays (LFI, PCR, ECL) throughout the life cycle of all systems managed to include: Biological Integrated Detection System (BIDS), Joint Biological Point Detection System (JBPDS), Joint Biological Tactical Detection System (JBTDS), Whole System Live Agent Testing (WSLAT), Joint Chemical Biological Radiological Water Monitor (JCBRAWM), Joint Portal Shield (JPS), Analytical Laboratory System (ALS), Common Analytical Laboratory Suite (CALS), National Guard Bureau (NGB) Civil Support Teams (CST), Pentagon Force Protection Agency (PFPA), Department of Homeland Security (DHS), US Department of Agriculture (USDA), Food and Drug Administration (FDA), National Institute of Allergy and Infectious Disease (NIAID), Federal Emergency Management Agency (FEMA), and US Capitol Police. The CRP also supports the Navy Forward Deployed Lab, the Area Medical Lab (AML), the Army 20th Support Command (Chemical, Biological, Nuclear and High Yield Explosives [CBRNE]), the Army Technical Escort Unit (TEU), the Marine Corps Chemical-Biological Incident Response Force (CBIRF), other counter-terrorist and special reconnaissance teams, and foreign countries. The CRP is also responsible for managing the production, storage and validation of Hand Held Immunochromatographic Assays (HHAs), polymerase chain reaction (PCR) genomic assays, electrochemiluminescence (ECL) immunoassays, antibodies, and select biological threat agents and genomic reference materials. The CRP's PCR assays have been used in the DoD's response effort to the Ebola epidemic in West Africa that began in early 2014. Deployed laboratories from US Army Medical Research Institute of Infectious Diseases (USAMRIID), the Naval Medical Research Center's (NMRC) Biological Defense Research Directorate's (BDRD) Mobile Labs and the 1st AML, as well as interagency partners such as the National Institutes of Health (NIH) National Institute of Allergies and Infectious Disease (NIAID), have all used CRP PCR assays to detect Ebola virus during their response missions in West Africa.

Note: Antibodies, assays, and reference materials are ordered using outside source funding (DoD and other Government agencies).

	ONOLAGOII ILD	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JX0210 / CRITICAL REAGENTS PROGRAM (CRP)
ID Code (A=Service Ready, B=Not Service Ready):	MDAP/MAIS Code:	
Justification: The CRP is responsible for managing the production, storage electrochemiluminescence (ECL) immunoassays, antibodies, and select bi		Assays (HHA), polymerase chain reaction (PCR) genomic assays,
Note: Antibodies, assays, and reference materials are ordered using outside	de source funding (DoD and other Government agencies).	
Justification: The CRP is responsible for managing the production, storage electrochemiluminescence (ECL) immunoassays, antibodies, and select bi	, distribution and validation of Hand Held Immunochromatographic ological threat agent and genomic reference materials.	Assays (HHA), polymerase chain reaction (PCR) genomic assays,

LI SA0001 - SITUATIONAL AWARENESS Chemical and Biological Defense Program

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JX0302 / GLOBAL BIO TECH
INITIATIVE (GBTI)

ID Code (A=Service Ready, B=Not Service Ready)	:					MDAP/MAI	IS Code:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	3.675	-	3.675	2.100	2.100	6.090	2.100	-	16.065
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	-	3.675	-	3.675	2.100	2.100	6.090	2.100	-	16.065
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	3.675	-	3.675	2.100	2.100	6.090	2.100	-	16.065
(The following	g Resource Sum	mary rows are fo	or informational p	purposes only. Ti	ne corresponding	g budget request:	s are documente	ed elsewhere.)				

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Initial Spares (\$ in Millions)

Gross/Weapon System Unit Cost (\$ in Thousands)

	F	Prior Years	S		FY 2014			FY 2015		F	/ 2016 Bas	se	F	Y 2016 OC	0	F	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Hardware Cost						,												
Non Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GBTI Assays and Reagents <sup>(†)</sup>	-	-	0.000	-	-	-	-	-	-	600.000	2	1.200	-	-	-	600.000	2	1.200
GBTI Equipment Sets <sup>(†)</sup>	-	-	0.000	-	-	-	-	-	-	316.667	6	1.900	-	-	-	316.667	6	1.900
Subtotal: Non Recurring Cost	-	-	0.000	-	-	-	-	-	-	-	-	3.100	-	-	-	-	-	3.100
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	-	-	-	3.100	-	-	-	-	-	3.100
Support Cost						,			•						•			
GBTI PM Support	-	-	0.000	-	-	-	-	-	-	-	-	0.575	-	-	-	-	-	0.575
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.575	-	-	-	-	-	0.575
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	=	-	-	-	3.675	-	-	-	-	=	3.675

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Defense Program

P-1 Line Item Number / Title:

Item Number / Title I

MDAP/MAIS Code:

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]: JX0302 / GLOBAL BIO TECH INITIATIVE (GBTI)

ID Code (A=Service Ready, B=Not Service Ready) :

ID Code (A=Service Read	uy, b-inot servi	ice Ready).							IAII	DAP/IVIAIS	ooue.							
		FY 2017			FY 2018			FY 2019			FY 2020		To	Comple	te	1	Total Cos	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost	`								,						,			
Non Recurring Cost	_																	
Prior/Future combined efforts	-	-	2.100	-	-	2.100	-	-	6.090	-	-	2.100	-	-	-	-	-	12.390
GBTI Assays and Reagents <sup>(†)</sup>	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	1.20
GBTI Equipment Sets <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
Subtotal: Non Recurring Cost	-	-	2.100	-	-	2.100	-	-	6.090	-	-	2.100	-	-	-	-	-	15.49
Subtotal: Hardware Cost	-	-	2.100	-	-	2.100	-	-	6.090	-	-	2.100	-	-	-	-	-	15.490
Support Cost																		
GBTI PM Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57
Gross/Weapon System Cost	-	-	2.100	-	-	2.100	-	-	6.090	-	-	2.100	-	-	-	-	-	16.06

#### Remarks:

Global Biosurveillance Technology Initiatives (GBTI) will develop a globally-distributed, fully integrated and networked, state-of-the-art analytical capability for biological threats that will enable the compression of the discovery-to-decision timeframe and provide awareness and understanding of the baseline biological threat footprint. Under this approach capability is developed and fielded based on current technologies and user needs. GBTI will make maximum use of commercial off-the-shelf (COTS) and government off-the-shelf (GOTS) technology.

Justification: FY16 funds will procure 2 GBTI assays and reagents and 6 GBTI equipment sets.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JX0302 / GLOBAL BIO TECH INITIATIVE (GBTI)

Cost Elements	O C O FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
GBTI Assays and Reagents <sup>(†)</sup>	2016	Various / UNKNOWN	MIPR	GSA	Apr 2016	May 2016		2 600.000	Υ	Apr 2016	Apr 2016
GBTI Equipment Sets <sup>(†)</sup>	2016	Various / UNKNOWN	TBD	GSA	Jan 2016	Feb 2016		6 316.667	Y	Jan 2016	Jan 2016

<sup>(†)</sup> indicates the presence of a P-21

												UN	ICL	AS:	SIF	IED	)														
Exhibit I	P-21, Pr	oduct	ion Sc	hedul	e: PE	3 201	6 Che	emica	and I	Biolo	gical [	Defen	se P	rogr	am								Da	te: F	ebru	Jary	2015	5			
Appropr 0300D /		Budge	et Acti	vity /	Budg	get Su	ıb Ac	tivity	:		<b>Line</b> 0001							ESS					JX		/ Gl	LOB	AL B	[DOI BIO TE			
		lements in Each)						,		Fiscal Y	ear 2016	i											Fiscal	Year 20	)17						
			ACCEPT									C	Calenda	ar Year	2016									Ca	lenda	r Year 2	2017				
M O F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J L	ן נ	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	J U L	A U G	S E P	B A L
GBTI Assays	and Reagents	S																													
1 2016	CBDP	2	-	2							Α -	2																			-
Secondary Distribution	OSD	2	-	2							A -	2																			-
GBTI Equipm	ent Sets																														
2 2016	CBDP	6	-	6				Α -	6																						-
Secondary Distribution	OSD	6	-	6				Α -	6																						-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J L	J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R		M A Y	J U N	n n	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JX0302 / GLOBAL BIO TECH INITIATIVE (GBTI)

			Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
МЕ	FR						lni	tial			Red	order	
R	- 1					ALT	ALT		Total	ALT	ALT		Total
#	#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
	1	Various - UNKNOWN	1	8	8	1	3	2	5	-	-	-	-
	2	Various - UNKNOWN  Various - UNKNOWN		8	8	1	3	2	5	-	-	-	-

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-3a, Individual Modification: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Modification Number / Title:
JF0100 / Joint Chemical Agent Detector (JCAD)

								, ,			
Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
-	-	-	-	-	-	-	-	-	-	-	-
-	-	4.426	4.366	-	4.366	4.240	-	-	-	-	13.032
-	-	-	-	-	-	-	-	-	-	-	-
-	-	4.426	4.366	-	4.366	4.240	-	-	-	-	13.032
-	-	-	-	-	-	-	-	-	-	-	-
-	-	4.426	4.366	-	4.366	4.240	-	-	-	-	13.032
Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget requests	s are documente	ed elsewhere.)		3		
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	Years	Years FY 2014	Years         FY 2014         FY 2015           -         -         -           -         -         4.426           -         -         -           -         -         -           -         -         4.426           Resource Summary rows are for informational p         -         -	Years         FY 2014         FY 2015         Base           -         -         -         -           -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO           -         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           Resource Summary rows are for informational purposes only. The corresponding budget requests         -         -         -         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <t< td=""><td>Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td></t<></td>	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td>Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td></t<>	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -

## **Description:**

The MK26 Mod 1 Improved (Chemical Agent) Point Detection System Lifecycle Replacement (IPDS-LR) provides automatic point detection, classification, and warning when there are chemical warfare vapors external to the ship. IPDS-LR is an Ion Mobility Spectrometer (IMS) based chemical point detection system with algorithm library and embedded data processing that automatically detects and alarms to nerve and blister vapor at low concentrations and has the capability of rejecting common shipboard interferents.

Development Status/Major Development Milestones							
Date	Title	Description					
Apr 2011	Production IPR						

Exhibit P-3a, Individual Modification: F	B 2016 Che	emical and	Biological	Defense Pr	ogram				Date: Feb	ruary 2015	5	
Appropriation / Budget Activity / Budg 0300D / 03 / 1	et Sub Acti	vity:	_	tem Numb SITUATION		RENESS				ion Numb Joint Chem	er / Title: nical Agent	Detector
Models of Systems Affected: Multiple c	lass ships	Modifi	cation Typ	e: Force P	rotection		Re	lated RDT	&E PEs:			
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)
Procurement	-					-		-				
Modification Item 1 of 1: Joint Chemical Agent Detector (JCAD)												
B Kits												
Recurring												
Equipment	- 1 -	- 1 -	31 / 4.036	29 / 3.976	- 1 -	29 / 3.976	27 / 3.850	- 1 -	- 1 -	- 1 -	- 1 -	87 / 11.862
Subtotal: Recurring	- / -	- / -	31 / 4.036	29 / 3.976	- / -	29 / 3.976	27 / 3.850	- / -	- / -	- / -	- / -	87 / 11.862
Subtotal: Joint Chemical Agent Detector (JCAD)	- / -	- / -	31 / 4.036	29 / 3.976	- / -	29 / 3.976	27 / 3.850	- / -	- / -	- / -	- / -	87 / 11.862
Subtotal: Procurement, All Modification Items	- / -	- / -	31 / 4.036	29 / 3.976	- / -	29 / 3.976	27 / 3.850	- / -	- / -	- / -	- / -	87 / 11.862
Support (All Modification Items)												
Other	- 1 -	- 1 -	- / 0.390	- / 0.390	- 1 -	- / 0.390	- / 0.390	- 1 -	- 1 -	- 1 -	- 1 -	- /1.170
Subtotal: Support	- / -	- / -	- /0.390	- /0.390	- / -	- /0.390	- /0.390	- / -	- / -	- / -	- / -	- /1.170
Installation												
Subtotal: Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	•											
Total Cost (Procurement + Support + Installation)	-	-	4.426	4.366	=	4.366	4.240	-	-	-	-	13.032

Exhibit P-3a, Indiv	vidual Modification: PE	3 2016 Chemical a	nd Biological Defense	Program		Date: February 201	5
Appropriation / B 0300D / 03 / 1	udget Activity / Budge	t Sub Activity:	P-1 Line Item Nu SA0001 / SITUAT	mber / Title: IONAL AWARENESS		Modification Numb JF0100 / Joint Chen (JCAD)	per / Title: nical Agent Detector
Modification Item 1 of	1: Joint Chemical Agent Dete	ector (JCAD)	·				
Manufacturer Informa	tion						
Manufacturer Name: Na	avy Depot Field Team			Manufacturer Location: N	lorfolk, VA		
Administrative Leadtime	e (in Months): 10			Production Leadtime (in	Months): 6		
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2015	May 2016	May 2017				

Mar 2018

#### Installation Information

Delivery Dates

Method of Implementation: Alteration Installation Teams (AITs).

Mar 2016

Mar 2017

		<b>5</b> 1/ 004 4	EV 0045	FY 2016	FY 2016	FY 2016	E)/ 00/E	<b>5</b> 1/ <b>0</b> 0/0	E)/ 00/0	<b>5</b> 1/ 2222	То	
	Prior Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)
Prior Years	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2014	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2017	- / -	- / -	- / -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -

### Installation Schedule

						015			FY 2	016			FY 2	017			FY 2	2018			FY 2	2019			FY 2	020					
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	107	-	36	-	-	-	31	-	-	-	29	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230
Out	88	-	35	-	-	-	24	-	-	-	27	-	-	-	21	-	-	-	11	-	-	-	9	-	-	-	8	-	-	7	230

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

, , , , , , , , , , , , , , , , , , , ,												
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	32.498	3.468	-	3.468	3.307	-	-	-	-	39.273
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	32.498	3.468	-	3.468	3.307	-	-	-	-	39.273
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	32.498	3.468	-	3.468	3.307	-	-	-	-	39.273
(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)	ř.	*		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	F	Prior Years	S		FY 2014			FY 2015		FY	/ 2016 Ba	se	FY	/ 2016 OC	0	FY	2016 Tot	al
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																,		
Recurring Cost	-																	,
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
M4A1 JCAD - FRP - JCAD Communication Adapter <sup>(†)</sup>	-	-	0.000	-	-	-	2.312	1,870	4.323	-	-	-	-	-	-	-	-	-
M4A1 JCAD - FRP - Stryker Communication Adapter <sup>(†)</sup>	-	_	0.000	-	_	-	2.287	2,501	5.720	-	-	-	_	-	-	-	-	
M4A1 JCAD - FRP - M4A1 JCAD -																		
Hardware <sup>(†)</sup>	-	-	0.000	-	-	-	4.614	4,371	20.168	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	30.211	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	30.211	-	-	-	-	-	-	-	-	-
Support Cost															,			
Engineering Support (Govt)	-	-	0.000	-	-	-	-	-	1.937	-	-	1.539	9 -	-	-	-	-	1.539
System Fielding Support (Gov't) (First Article Test (FAT), Total Package Fielding, First Destinat	-	-	0.000	-	-	-	-	-	0.350	-	-	1.929	9 -	-	-	-	-	1.929

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 03 / 1

P-1 Line Item Number / Title:

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]: JF0100 / JOINT CHEMICAL AGENT

DETECTOR (JCAD)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

TVOIC. Oubtotals of Totals I	III UIIS EXIIIDII	ci o iliay lic	or be exact e	n ada, ado to	rounding.													
	F	Prior Years	S		FY 2014			FY 2015		F	Y 2016 Ba	se	F	/ 2016 OC	0	F	<b>Y 2016 To</b> 1	al
Cost Elements	(0.19) (2.00.1) (0.11)			Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	2.287	-	-	3.468	-	-	-	-	-	3.468
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	32.498	-	-	3.468	-	-	-	-	-	3.468

		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	te		Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	3.307	-	-	-	_	-	-	-	-	-	-	-	-	-	-	3.307
M4A1 JCAD - FRP - JCAD Communication Adapter <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.323
M4A1 JCAD - FRP - Stryker Communication Adapter <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.720
M4A1 JCAD - FRP - M4A1 JCAD - Hardware <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.168
Subtotal: Recurring Cost	-	-	3.307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.518
Subtotal: Hardware Cost	-	-	3.307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.518
Support Cost							1											
Engineering Support (Govt)	-	_	-	-	-	-	_	-	-	-	-	-	-	-	-	-	_	3.476
System Fielding Support (Gov't) (First Article Test (FAT), Total Package Fielding, First Destinat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.279
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.755
Gross/Weapon System Cost	-	-	3.307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.273

### Remarks:

Prior to FY 2015, the JOINT CHEMICAL AGENT DETECTOR (JCAD) program was reported under CBDP line item (BLIN) GP2000 - CONTAMINATION AVOIDANCE

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	UNCLASSIFIED	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
The JCAD program employs an incremental acquisition strategy to develop alerts in the presence of nerve, blister, and blood chemical warfare agents. sustainment costs to the Warfighter and obtains many of the objective value and individual Soldier applications. The M4 JCAD will replace the M8A1 ar Improved Chemical Agent Monitor (ICAM) and other legacy systems curren System (IPDS). The MK26 Mod 1 Improved (Chemical Agent) Point Detect warfare vapors external to the ship. IPDS-LR is an Ion Mobility Spectromet alarms to nerve and blister vapor at low concentrations and has the capabil	The M4 JCAD entered full rate production in September 2008 es in the JCAD Increment I CPD. Production of the M4A1 begand the M22 Automatic Chemical Agent Alarms (ACAA/ACADA). http used by the individual Services. These funds also support a tion System Lifecycle Replacement (IPDS-LR) provides automater (IMS) based chemical point detection system with an algorithm.	and were procured through FY10. The M4A1 reduces operations and in April FY11. JCAD will be used for wheeled vehicles, stand alone, The M4A1 may also replace the Chemical Agent Monitor (CAM) and a Lifecycle Replacement (LR) for the Navy's Improved Point Detection thic point detection, classification, and warning when there are chemical
Justification: FY16 procures 29 IPDS-LRs for the Navy.		
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2016 0	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)

	0			Method/Type or		Award	Date of First	Qtv	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)		-	Available	Date
M4A1 JCAD - FRP - JCAD Communication Adapter <sup>(†)</sup>		2015	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	Dec 2014 <sup>(4)</sup>	Feb 2015	1,870	2.312	Y		
M4A1 JCAD - FRP - Stryker Communication Adapter <sup>(†)</sup>		2015	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	Dec 2014 <sup>(5)</sup>	Feb 2015	2,501	2.287	Y		
M4A1 JCAD - FRP - M4A1 JCAD - Hardware <sup>(†)</sup>		2015	Smiths Detection / Edgewood, MD	C / FFP	RDECOM, APG, MD	Jan 2015 <sup>(6)</sup>	Mar 2015	4,371	4.614	Y		

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

(4) (Option)

<sup>(5)</sup> (Option)

(6) (Opt 5)

Exhibit F	P-21, Pr	oducti	on Sc	hedul	e: PE	3 201	6 Che	emical	and E	Biolog	ical D	efens	e Pro	gram	1							Date	e: Fel	bruary	/ 201	5			
Appropr 0300D / (		Budge	et Acti	vity /	Budg	get Si	ub Ac	tivity	:	1 -	<b>Line</b> I 1001 /			• • • •		RENE	ESS					JF0	100 <i>l</i>		T CH	[DOI		SENT	-
		lements in Each)							ı	iscal Ye	ar 2015											Fiscal Y	ear 2016	5					
			ACCEPT									Ca	lendar Y	ear 201	5								Cale	ndar Yea	r 2016				
O F C R FY	PRIOR   BAL   TO 1   DUE   O   N   D   J   F   M   A   M   J   J   A   S   O   N   D   J   F   M   A   P   A   U   U   U   E   C   O   E   A   E   A   P   A   U   U   U   E   C   O   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A   E   A														J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	B A L					
O # FY SERVICE QTY 2014 1 OCT T V C N B R R Y N L G P T V C N B R R Y N L G P  M4A1 JCAD - FRP - JCAD Communication Adapter																													
1 2015	CBDP	1,870	-	1,870			Α -	-	155	155	155	155	155	155	155	155	155	155	155	165									1 -
Secondary Distribution	ARMY	1,870	-	1,870			A -	-	155	155	155	155	155	155	155	155	155	155	155	165									-
M4A1 JCAD -	FRP - Stryke	r Commun	ication Ada	apter															,										
2 2015	CBDP	2,501	-	2,501			Α -	-	208	208	208	208	208	208	208	209	209	209	209	209									-
Secondary Distribution	ARMY	2,501	-	2,501			A -	-	208	208	208	208	208	208	208	209	209	209	209	209									-
M4A1 JCAD -	FRP - M4A1	JCAD - Ha	ardware								•																		
3 2015	CBDP	4,371	-	4,371				Α -	-	364	364	364	364	364	364	364	364	364	364	364	367								-
Secondary Distribution	ARMY	4,371	-	4,371				A -	-	364	364	364	364	364	364	364	364	364	364	364	367								_
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	N N	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JF0100 / JOINT CHEMICAL AGENT DETECTOR (JCAD)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Smiths Detection - Edgewood, MD	100	1,800	2,600	-	3	2	5	-	5	6	11
2	Smiths Detection - Edgewood, MD	100	1,800	2,600	-	3	2	5	-	5	6	11
3	Smiths Detection - Edgewood, MD	89	1,800	2,200	-	2	8	10	-	8	3	11

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS JC0208 / JOINT EFFECTS MODEL (JEM) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **FY 2016 Prior FY 2016 FY 2016** To **Resource Summary FY 2014** FY 2015 000Total FY 2017 **FY 2018 FY 2019** FY 2020 Years Base Complete Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 1.141 3.316 3.316 5.069 3.086 3.031 2.728 Continuing Continuing Less PY Advance Procurement (\$ in Millions) \_ Net Procurement (P1) (\$ in Millions) 0.000 1.141 3.316 3.316 5.069 3.086 3.031 2.728 Continuing Continuing \_ Plus CY Advance Procurement (\$ in Millions) \_ Total Obligation Authority (\$ in Millions) 0.000 1.141 3.316 3.316 5.069 3.086 3.031 2.728 Continuina Continuina (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Software Cost Recurring Cost Prior/Future combined efforts JEM INCR. 2 -0.000 0.375 0.901 Software & Installation 0.901 Subtotal: Recurring Cost 0.000 \_ 0.375 \_ 0.901 \_ 0.901 Subtotal: Software Cost 0.000 \_ 0.375 \_ 0.901 \_ \_ 0.901 Package Fielding Cost Recurring Cost JEM INCR. 2 - System Fielding Support (TPF. FDT, NET) 0.000 0.766 1.327 1.327 Subtotal: Recurring Cost 0.000 \_ 0.766 \_ 1.327 \_ -\_ 1.327 Subtotal: Package Fielding 0.000 Cost 0.766 1.327 1.327 Support Cost JEM INCR. 2 - Technical 0.000 & Engineering Suuport 1.088 1.088

LI SA0001 - SITUATIONAL AWARENESS Chemical and Biological Defense Program

0.000

0.000

Subtotal: Support Cost

Gross/Weapon System

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1.141

P-1 Line #74

1.088

3.316

-

-

1.088

3.316

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JC0208 / JOINT EFFECTS MODEL

(JEM)

**Date:** February 2015

ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:

		FY 2017			FY 2018			FY 2019			FY 2020		Т	o Complet	е	•	Total Cost	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Tota Cost (\$ M)
Software Cost						,								,		,		
Recurring Cost																		
Prior/Future combined efforts	-	-	5.069	-	-	3.086	-	-	3.031	-	-	2.728		Continuing			Continuing	
JEM INCR. 2 - Software & Installation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	5.069	-	-	3.086	-	-	3.031	-	-	2.728		Continuing		,	Continuing	
Subtotal: Software Cost	-	-	5.069	-	-	3.086	-	-	3.031	-	-	2.728		Continuing			Continuing	
Package Fielding Cost						,												
Recurring Cost																		
JEM INCR. 2 - System Fielding Support (TPF, FDT, NET)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Package Fielding Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support Cost	,					,												
JEM INCR. 2 - Technical & Engineering Suuport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	5.069	-	-	3.086	-	-	3.031	-	-	2.728		Continuing		ĺ .	Continuing	

#### Remarks:

The Joint Effects Model (JEM) is DoD's only accredited model for predicting hazards associated with the release of contaminants into the environment. JEM is being developed in separate increments and is capable of modeling hazards in a variety of scenarios including: counter-force, passive defense, accident and/or incidents, high altitude releases, urban NBC environments, building interiors, and human performance degradation. Battle space commanders and first responders must have a CBRN hazard prediction capability in order to make decisions that will minimize risks of CBRN contamination and enable them to continue mission operations. JEM operates in an integrated fashion with operational and tactical Command, Control, communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) systems, and in a standalone mode. JEM interfaces and communicates with the other programs such as JWARN, weather systems, intelligence systems, and various databases.

Justification: PROC: FY16 supports JEM Incr. 2 Total Package Fielding (TPF) and New Equipment Training (NET).

						UI	NCLAS	SIFIE	)							
Exhibit P-5, Cost	Analysi	s: PB 20	16 Chemi	cal and Bi	ological De	fense Progr	am					Date: F	ebruary 2	2015		
Appropriation / B 0300D / 03 / 1					y: P	-1 Line Item A0001 / SIT	Numbe			S		MC010	umber / 1 00 / JOINT NNAISSA RS)	NBC	_	
ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :						М	DAP/MAI	S Code:		'				
Resource S	ummary		Prior Years	FY 2014	FY 201	FY 2016 Base	FY 20	I	Y 2016 Total	FY 2017	FY 2018	FY 2019	FY 202	Tomp	-	Total
Procurement Quantity (Uni	its in Each)		-	-	-	-		-	-	-	-	-		-	-	-
Gross/Weapon System Co	ost (\$ in Millior	ns)	0.000	-	3.6	3.60	00	-	3.600	3.600	3.600	-		-	-	14.400
Less PY Advance Procure	ement (\$ in Mi	llions)	-	-	-	-		-	-	-	-	-		-	-	-
Net Procurement (P1) (\$ in	Millions)		0.000	-	3.6	3.60	00	-	3.600	3.600	3.600	-		-	-	14.400
Plus CY Advance Procure	ment (\$ in Mi	llions)	-	-	-	-		-	-	-	-	-		-	-	-
Total Obligation Authorit	t <b>y</b> (\$ in Million:	s)	0.000	-	3.6	3.60	00	-	3.600	3.600	3.600	-		-	-	14.400
	(The	following F	Resource Sumi	mary rows are	for information	al purposes only.	The corresp	onding bud	get request:	s are document	ed elsewhere.)		,			
Initial Spares (\$ in Millions)			-	-	-	-		-	-	-	-	-		-	-	-
Gross/Weapon System Ur	nit Cost (\$ in	Thousands)	-	-	-	-		-	-	-	-	-		-	-	-
Note: Subtotals or Totals in	1	Prior Years			2014 Tota	.1	FY 2015	Total	F	Y 2016 Base	Total	FY 2016 O	CO	F	<b>/ 2016 T</b> o	otal Total
Cost Elements	Unit Cost	<b>Qty</b> (Each)			Qty Cos	t Unit Cost	<b>Qty</b> (Each)	Cost (\$ M)	Unit Cost	Qty (Each)	Cost Unit (		Cost (\$ M)	Unit Cost	Qty (Each)	Cost (\$ M)
Support Cost								ı			T					
Prior/Future combined efforts	-	-	-	-	-		-	-	-	-	-		-	-	-	-
Engineering Support	-	-	0.000	-	-		-	0.600	-	-	0.600		-	-	-	0.600
Logistics Support during Doctrine, Techniques, and Tactics (DTT) Training	-	-	0.000	-	-		-	3.000	-	_	3.000		-	-	-	3.000
Subtotal: Support Cost	-	-	0.000	-	-		-	3.600	-	-	3.600		-	-	-	3.600
Gross/Weapon System Cost	-	-	0.000	-	-		-	3.600	-	-	3.600	-	-	-	-	3.600
									1							
		FY 2017		FY	2018		FY 2019	1		FY 2020		To Compl	ete	· ·	Total Cos	it .
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)		Qty         Cos           Each)         (\$ N	t Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost Unit ( \$ M) (\$ f		Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Support Cost					1			1			1					
Prior/Future combined efforts	_	-	3.600	-	- 3	.600 -	_	_	_	-	-		_	_	_	7.200
Engineering Support	-	-	-	-	-		-	-	-	-	-		_	-		1.200
Engineering Support		-	-	-	-	-   -				-	-	-   -			-	

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologica	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
0300D / 03 / 1	SA0001 / SITUATIONAL AWARENESS	MC0100 / JOINT NBC
		RECONNAISSANCE SYSTEM
		(JNBCRS)

ID Code (A=Service Read	dy, B=Not Servi	ce Ready) :							M	DAP/MAIS	Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	te	-	Total Cost	ŧ
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Logistics Support during Doctrine, Techniques, and Tactics (DTT) Training	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.000
Subtotal: Support Cost	-	-	3.600	-	-	3.600	-	-	-	-	-	-	-	-	-	-	-	14.400
Gross/Weapon System Cost	_	_	3.600	_	_	3.600	_	_	_	_	-	_	_	_	_	_	_	14.400

#### Remarks:

The Joint Nuclear Biological and Chemical Reconnaissance Systems (JNBCRS), including the Stryker Nuclear Biological and Chemical Reconnaissance Vehicles (NBCRV), NBC equipment suites provide field commanders with point and early warning intelligence for real time field assessment of NBC hazards. The NBC Equipment Suite consists of the Chemical and Biological Mass Spectrometer II (CBMS II), Joint Biological Point Detection System (JBPDS), Chemical Vapor Sampling System (CVSS), Training Aids, Devices and Simulation Systems (TADSS), the Sensor Processing Group and associated initial and pipeline spares. The NBC Equipment Suite performs the vital function of detecting, identifying, collecting, reporting, and marking NBC hazards and toxic industrial chemicals. Prior year funds were used for the Joint Service Light NBC Reconnaissance System in addition to NBC equipment suites for the Stryker NBCRV.

Justification: FY16 funds support repair part replacement during Doctrine, Techniques, and Tactics (DTT) portion of New Equipment Training (NET).

UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS G47101 / JOINT WARNING & REPORTING NETWORK (JWARN) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior** FY 2016 **FY 2016 FY 2016** To **Resource Summary FY 2014** FY 2015 000Total **FY 2017 FY 2018 FY 2019** FY 2020 Complete Years Base Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 0.766 4.589 1.522 0.533 0.479 7.889 Less PY Advance Procurement (\$ in Millions) \_ \_ \_ Net Procurement (P1) (\$ in Millions) 0.000 0.766 4.589 1.522 0.533 0.479 7.889 \_ Plus CY Advance Procurement (\$ in Millions) \_ Total Obligation Authority (\$ in Millions) 0.000 0.766 4.589 1.522 0.533 0.479 7.889 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Software Cost Recurring Cost Prior/Future combined efforts JWARN INCR. 1 -Software & Installation (Contractor) 0.000 0.257 Subtotal: Recurring Cost 0.000 0.257 \_ \_ Subtotal: Software Cost 0.000 0.257 Package Fielding Cost Recurring Cost JWARN INCR. 1 - System Fielding Support (TPF, FDT, NET) 0.000 0.306 Subtotal: Recurring Cost 0.000 0.306 Subtotal: Package Fielding Cost 0.000 0.306 Support Cost JWARN INCR. 1 -Technical Engineering 0.000 0.203 Support Subtotal: Support Cost 0.000 0.203

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS G47101 / JOINT WARNING & REPORTING NETWORK (JWARN) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost** Unit Cost **Unit Cost** Qty Qty Cost Qty Cost Qty Cost Qty Cost Qty Cost Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) Gross/Weapon System Cost 0.000 0.766 FY 2017 **FY 2018** FY 2019 **FY 2020** To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (\$ K) (\$ K) Software Cost Recurring Cost Prior/Future combined 4.589 1.522 0.533 0.479 7.123 efforts JWARN INCR. 1 -Software & Installation (Contractor) 0.257 Subtotal: Recurring Cost 4.589 1.522 0.533 0.479 \_ \_ 7.380 Subtotal: Software Cost 4.589 1.522 0.533 0.479 7.380 Package Fielding Cost Recurring Cost JWARN INCR. 1 - System Fielding Support (TPF, FDT, 0.306 NET) Subtotal: Recurring Cost 0.306 Subtotal: Package Fielding Cost 0.306 Support Cost JWARN INCR. 1 -Technical Engineering 0.203 Support 0.203 Subtotal: Support Cost ---Gross/Weapon System

#### Remarks:

Cost

Prior to FY 2015, the JOINT WARNING & REPORTING NETWORK (JWARN) program was reported under CBDP line item (BLIN) GP2000 - CONTAMINATION AVOIDANCE

1.522

The Joint Warning and Reporting Network (JWARN) provides the Joint Forces with a comprehensive Early Warning (EW) analysis and response capability to minimize the effects of hostile Chemical, Biological, Radiological, and Nuclear (CBRN) attacks, incidents and accidents. It provides the operational capability to employ CBRN warning technology which will collect, analyze, identify, locate, report, and disseminate

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0.479

7.889

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologica	al Defense Program		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Ti SA0001 / SITUATIONAL A		Item Number / Title [DODIC]: G47101 / JOINT WARNING & REPORTING NETWORK (JWARN)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:	
ID Code (A=Service Ready, B=Not Service Ready):  CBRN warnings. JWARN will transition from a Command and Control (C2) comprehensive Common Operating Environment (COE). JWARN Incremen filtering, integration of route-planning calculator, and interoperability with add and Control Centers at the appropriate level and will be employed by CBRN will transfer data automatically from existing sensors and to and from the fut integrate existing sensors into a sensor network or host C2 system, but does Services Command, Control, Communications, Computers, Intelligence, Sur Activities include: logistical elements, support equipment, manuals and training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training training tr	it 2 will provide an expansion of sense ditional Command and Control (C2), re- defense specialists and other design ure sensors to provide commanders was not provide the sensors that will be excellence and Reconnaissance (C4IS	Web-based Service Oriented Architectuors that will connect to JWARN, increase medical information and evolving Bio-Subated personnel to improve the efficiency with the capability to support operational employed in the operating environment. SR) Systems and will operate as a standard control of the capability to support operational employed in the operating environment.	ed automation of message handling, improved false alarm irveillance systems. JWARN will be located in Command y of limited CBRN personnel assets. This employment il decision making in a CBRN environment. JWARN will . JWARN will be compatible and integrated with Joint

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UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS JF0104 / NEXT GEN CHEMICAL DETECTOR (NGCD) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **FY 2016 Prior** FY 2016 **FY 2016** To **Resource Summary FY 2014** FY 2015 000Total FY 2017 **FY 2018 FY 2019** FY 2020 Years Base Complete Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 1.000 1.000 2.378 1.000 17.208 17.204 Continuing Continuing -Less PY Advance Procurement (\$ in Millions) \_ Net Procurement (P1) (\$ in Millions) 0.000 1.000 1.000 2.378 1.000 17.208 17.204 Continuing Continuing \_ Plus CY Advance Procurement (\$ in Millions) \_ Total Obligation Authority (\$ in Millions) 0.000 1.000 1.000 2.378 1.000 17.208 17.204 Continuina Continuina (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (Each) (\$ K) (\$ K) Hardware Cost Recurring Cost Prior/Future combined efforts NGCD- LRIP(†) 0.000 20.000 30 0.600 20.000 30 0.600 Production Verification 0.000 Test (PVT) 0.200 -0.200 Engineering Support 0.000 0.200 0.200 Subtotal: Recurring Cost 0.000 \_ 1.000 \_ \_ 1.000 Subtotal: Hardware Cost 0.000 1.000 1.000 \_ --\_ -Gross/Weapon System Cost 0.000 1.000 1.000 FY 2017 FY 2018 FY 2019 FY 2020 **Total Cost** To Complete Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost Qty Cost **Unit Cost** Qty Cost Qty Cost Cost Elements (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) Hardware Cost Recurring Cost Prior/Future combined Continuina Continuina 2.378 1.000 17.208 efforts 17.204

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS Item Number / Title [DODIC]: JF0104 / NEXT GEN CHEMICAL

DETECTOR (NGCD)

ID Code (A=Service Ready, B=Not Service Ready) :

	MDA	P/M	AIS C	ode:
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D CCGC (A-Service Read	ly, D-Not Ociv	ice ready).							1411	5/11 /10// 1C	oouo.							
		FY 2017			FY 2018	•		FY 2019			FY 2020		T	o Complet	te		Total Cos	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
NGCD- LRIP <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Production Verification Test (PVT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	2.378	-	-	1.000	-	-	17.208	-	-	17.204		Continuing	,		Continuing	,
Subtotal: Hardware Cost	-	-	2.378	-	-	1.000	-	-	17.208	-	-	17.204		Continuing			Continuing	
Gross/Weapon System Cost	-	-	2.378	-	-	1.000	-	-	17.208	-	-	17.204		Continuing			Continuing	

#### Remarks:

The Next Generation Chemical Detector (NGCD) is several detection systems for multi phase of matter sampling, location of liquid and solids on surfaces, and vapor and aerosol monitoring. NGCD will detect and identify non-traditional agents, chemical warfare agents (CWAs), toxic industrial chemicals (TICs) in the air and on surfaces. The NGCD will provide improved CWA/TIC selectivity and sensitivity on multiple platforms as well as multiple environments. This sensor will improve detection, consequence management and reconnaissance, and weapons of mass destruction (WMD) interdiction capabilities. The scope of the project includes detection of agent a few feet away from the detector as well as the sampling point of the detector. The Rapid fielding portion of this effort will focus on acceleration of more mature technology.

Justification: FY16 procures 30 systems for Low Rate Initial Production (LRIP) and initiation of Production Verification Test (PVT).

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016	Exhibit P-5a, Procurement History and Planning: PB 2016 Chemical and Biological Defense Program  Appropriation / Budget Activity / Budget Sub Activity:  P-1 Line Item Number / Title:  Item Number / Title [DODIC]:												
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JF0104 / NEXT GEN CHEMICAL DETECTOR (NGCD)											

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
NGCD- LRIP <sup>(†)</sup>		2016	TBD / UNKNOWN	C / FFP	TBD	Jun 2016	Nov 2016	30	20.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

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0 0		FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	B A L
NG	CD-	- LRIP																													
	1	2016	CBDP	30	-	30									Α -	-	-	-	-	10	10	10									-
Sec Dist			ARMY	30	-	30									A -	-	-	-	-	10	10	10									-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JF0104 / NEXT GEN CHEMICAL
DETECTOR (NGCD)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFF	2					Init	ial			Reo	order	
Ref		MOD 5 0040	4.0.5.50040	MAY 5 0046	ALT	ALT	Mr. DIT	Total	ALT	ALT	Mf., DI T	Total
#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
1	TBD - UNKNOWN	5	50	100	-	8	6	14	5	3	6	9

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Date: February 2015 Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 0300D / 03 / 1 SA0001 / SITUATIONAL AWARENESS JM8788 / NEXT GENERATION DIAGNOSTICS SYSTEM (NGDS)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MA	IS Code:					
	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	12.518	5.300	-	5.300	9.798	15.412	16.014	11.900	-	70.942
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	12.518	5.300	-	5.300	9.798	15.412	16.014	11.900	-	70.942
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	12.518	5.300	-	5.300	9.798	15.412	16.014	11.900	-	70.942
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	budget request	s are documente	ed elsewhere.)		:		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

NGDS Systems - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 -		F	Prior Years	s		FY 2014			FY 2015		F	′ 2016 Ba	se	F'	Y 2016 OC	0	FY	2016 Tot	al
Recurring Cost   Pipin/Future combined efforts	Cost Elements			Cost			Cost			Cost			Cost			Cost			Cost
Prior/Future combined efforts	Hardware Cost																		
efforts	Recurring Cost	_																	
Funds		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Support   Supp		-	-	0.000	-	-	-	-	-	8.657	-	-	-	-	-	-	-	-	-
NGDS - Contractor Logistic Support		-	-	0.000	-	-	-	-	-	-	-	-	1.540	-	-	-	-	-	1.540
Logistic Support   -   -   0.000   -   -   -   -   -   0.180   -   -   0.180   -   -   -   0.180   -   -   -   0.180   -   -   -   -   0.180   -   -   -   -   0.180   -   -   -   -   0.180   -   -   -   -   -   0.180   -   -   -   -   -   0.180   -   -   -   -   -   -   0.180   -   -   -   -   -   -   -   -   0.180   -   -   -   -   -   -   -   -   -	NGDS Systems	-	-	0.000	-	-	-	28.220	50	1.411	-	-	-	-	-	-	-	-	-
Implementation and Initial Training		-	-	0.000	-	-	-	-	-	0.180	-	-	0.180	-	-	-	-	-	0.180
Subtotal: Hardware Cost	Implementation and	-	-	0.000	-	-	-	-	-	1.430	-	-	-	-	-	-	-	-	-
Support Cost  Provisioning - Assay and Reagents  Contractor Web Support	Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	11.678	-	-	1.720	-	-	-	-	-	1.720
Provisioning - Assay and Reagents 0.000 0.840 0.840 0.840 0.840 0.840 0.840 0.840 0.840	Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	11.678	-	•	1.720	-	1	-	-	-	1.720
Reagents         -         -         0.000         -         -         -         -         0.840         -         -         0.840         -         -         -         -         0.84           Contractor Web Support         -         -         0.000         -         -         -         -         -         -         1.600         -         -         -         -         -         -         1.600           Proficiency Testing         -         -         0.000         -         -         -         -         -         0.400         -         -         -         -         0.400	Support Cost																		
Proficiency Testing 0.000 0.400 0.400 - 0.400 0.400 0.400 0.400 0.400 0.400 0.400		-	-	0.000	-	-	-	-	-	0.840	-	-	0.840	-	-	-	-	-	0.840
	Contractor Web Support	-	-	0.000	-	-	-	-	-	-	-	-	1.600	-	-	-	-	-	1.600
Training 0.000 0.740 0.74	Proficiency Testing	-	-	0.000	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
	Training	-	-	0.000	-	-	-	-	-	-	-	-	0.740	-	-	-	-	-	0.740

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 03 / 1

P-1 Line Item Number / Title:

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JM8788 / NEXT GENERATION
DIAGNOSTICS SYSTEM (NGDS)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

140to: Odbtotalo di Totalo	III UIIO EXIIIDIC	. Omay no	n bo oxaoi c	i ada, ado t	rounding.													
	Р	rior Years	3		FY 2014	-		FY 2015	=	FY	2016 Ba	se	F	/ 2016 OC	0	F'	Y 2016 Tot	tal
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	0.840	-	-	3.580	-	-	-	-	-	3.580
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	12.518	-	-	5.300	-	-	-	-	-	5.300

		FY 2017			FY 2018			FY 2019			FY 2020		To	Complet	te	1	Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	9.798	-	-	15.412	-	-	16.014	-	-	11.900	-	-	-	-	-	53.12
NGDS - Ebola Title X Funds	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	8.6
NGDS - Fielding Support	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	1.5
NGDS Systems	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4
NGDS - Contractor Logistic Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3
Logistics Program Implementation and Initial Training	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.4
Subtotal: Recurring Cost	-	-	9.798	-	-	15.412	-	-	16.014	-	-	11.900	-	-	-	-	-	66.5
Subtotal: Hardware Cost	-	-	9.798	-	-	15.412	-	-	16.014	-	-	11.900	-	-	-	-	-	66.5
Support Cost				,		•	•		,						,			
Provisioning - Assay and Reagents	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	1.68
Contractor Web Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60
Proficiency Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40
Training	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4
Gross/Weapon System Cost	-	-	9.798	-	-	15.412	-	-	16.014	-	-	11.900	-	-	-	-	-	70.94

### Remarks:

The NGDS is an evolutionary acquisition family of systems to provide increments of capability over time across many echelons of the Combat Health Support System. The mission of the NGDS is to provide Chemical, Biological and Radiological (CBR) threat and infectious disease identification and U.S. Food and Drug Administration (FDA)-cleared diagnostics to inform individual patient treatment as defined in the

LI SA0001 - SITUATIONAL AWARENESS Chemical and Biological Defense Program UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologica	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JM8788 / NEXT GENERATION DIAGNOSTICS SYSTEM (NGDS)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

approved NGDS Capabilities Development Document (CDD) and CBR situational awareness and disease surveillance as defined in the Common Analytical Laboratory (CALS) CDD. NGDS Increment 1 (NGDS Inc 1) will significantly improved diagnostic capability for deployable combat health support units (Role 3) while also improving operational suitability and affordability by developing FDA cleared biological warfare agent (BWA) and infectious disease in vitro diagnostic (IVD) assays on existing commercial diagnostic device with a well established FDA regulatory history and pipeline of commercial non-BWA infectious disease diagnostic tests. The NGDS Inc 1 program has a streamlined MS A to MS C - Limited Deployment acquisition strategy. Procurement funds support the purchase of hardware components as well as total package fielding Total Package Fielding for initial fielding and support to systems for two years post fielding. TPF include consumables, software security/applications, proficiency test efforts, Contractor Logistics Support, logistics & web support, instructors, and training).

Next Generation Diagnostic System (NGDS) in support of Service Lab Components will expand the global network of laboratories in Nigeria and Ghana to support efforts to analyze, identify and combat Ebola. Funding will be invested to purchase new and additional Service lab equipment in support of Ebola efforts in Egypt and Liberia for Sierra Leone. These funds will be used for technologies and surveillance capabilities for both existing laboratories in the AFRICOM area of operations, as well as, establish new laboratories in support of other Global areas of interest. Funds will also procure additional assays crafted specifically for the ABI 7500 and MagPix instruments. These efforts will ensure interoperable and integration capability with biosurveillance portal.

Justification: FY16 program procures total package fielding support for the systems purchased in FY15.

RDT&E Code B Item: 0603884BP/Proi MB4: 0604384BP/Proi MB5: 0607384BP/Proi MB7

MB4/NGDS: RDT&E FY14 and Prior - 47.333M; FY15 - 14.862M

MB5/NGDS: RDT&E; FY16 - 8.000M; FY17 - 14.000M; FY18 - 25.000M; FY21 - 4.500M

MB7/NGDS: RDT&E; FY15 - 9.969M; FY16 - 11.371M; FY17 - 9.969M; FY18 - 2.674M; FY19 - 13.470M; FY20 - 12.000M; FY21 - 2.781M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

NGDS - Increment 1 MS C (Mar 2016 to Jun 2016)

NGDS - Increment 1 IOC: Sep 2016 NGDS - Increment 2 MS A: Aug 2014

NGDS - FDA clearance for additional assays, Integration, Connectivity: Jun 2016

NGDS - Increment 2 MS C: Jun 2018

Exhibit P-5, Cost	<b>Analysis</b>	s: PB 20	16 Chem	nical and E	Biologica	l Defer	nse Progra	m						Date: Fe	ebruary 2	015		
<b>Appropriation / E</b> 0300D / 03 / 1	Budget A	ctivity /	Budget	Sub Activ	ity:	- 1	Line Item 001 / SITU				S			JS5230	mber / T / SOFTW TY (SSA)			RT
ID Code (A=Service Rea	dy, B=Not Servi	ice Ready) :							М	DAP/MAI	S Code:			-L				
Resource S	Summary	,	Prior Years	FY 201	4 FY 2	2015	FY 2016 Base	FY 20 OCC	-	Y 2016 Total	FY 2017	FY 2	018 I	FY 2019	FY 202	To Comp	_	Total
Procurement Quantity (Un	its in Each)		-			-	-		-	-	-		-	-			-	-
Gross/Weapon System C	ost (\$ in Million	is)	0.000			-	0.100		-	0.100	0.100		0.100	0.100	0.0	90 Continu	uing	Continuing
Less PY Advance Procure	ement (\$ in Mi	llions)	-			-	-		-	-	-		-	-			-	-
Net Procurement (P1) (\$ i	n Millions)		0.000			-	0.100		-	0.100	0.100		0.100	0.100	0.0	90 Continu	uing	Continuing
Plus CY Advance Procure			-	-		-	-		-	-	-		-	-	-		-	
Total Obligation Authori	ty (\$ in Millions	5)	0.000			-	0.100		-	0.100	0.100		0.100	0.100	0.0	90 Contin	uing	Continuing
	(The	following F	Resource Sur	nmary rows ar	e for informa	ational pu	rposes only. Ti	he correspo	onding bud	get requests	are documente	ed elsewh	ere.)					
Initial Spares (\$ in Millions)			-	-		-	-		-	-	-		-	-	-		-	-
Gross/Weapon System U	nit Cost (\$ in 7	Thousands)	-	-		-	-		-	-	-		-	-	-		-	-
Note: Subtotals or Totals	in this Exhibit	: P-5 may n	ot be exact o	add, due to re	ounding.													
	F	Prior Year	s	F	Y 2014		F	Y 2015		F	Y 2016 Base			FY 2016 OC	o	F١	2016	Total
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cos	St Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each	
Support Cost	(\$ 10)	(Lacii)	(\$ 101)	(\$ 10)	(Lacii)	(\$ 101)	(\$ 11)	(Lacii)	(\$ IVI)	(\$10)	(Lacii)	(\$ 101)	(Φ Κ)	(Lacii)	(\$ W)	(\$ 11)	(Laci	) (\$ 101)
Prior/Future combined efforts	-	_	-	-	-	_	-	-	-	-	-	-	-	_	-	-		
SSA - System Fielding Support (TFP, NET)	-	-	0.000	-	-	-	-	-	-	-	-	0.100	-	-	-	-		- 0.10
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.100	-	-	-	-		- 0.10
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	-	-	-	0.100	-	-	-	-		- 0.10
		FY 2017		F	Y 2018		F	FY 2019			FY 2020			To Comple	te		Total C	ost
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cos	St Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each	
Support Cost																		
Prior/Future combined efforts	-	-	0.100	-	-	0.100	-	-	0.100	-	-	0.090		Continuing			Continu	ing
SSA - System Fielding Support (TFP, NET)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support Cost	-	-	0.100	-	-	0.100	-	-	0.100	-	-	0.090		Continuing			Continu	ing
Gross/Weapon System Cost	_	-	0.100	_	_	0.100	_	-	0.100	_	_	0.090		Continuing			Continu	ing

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological	Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]:  JS5230 / SOFTWARE SUPPORT  ACTIVITY (SSA)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

#### Remarks:

Prior to FY 2015, the SOFTWARE SUPPORT ACTIVITY (SSA) program was reported under CBDP line item (BLIN) GP2000 - CONTAMINATION AVOIDANCE

The JPEO-CBD SSA is a JPEO-CBD user developmental support and service organization supporting all JPMs and JPEO-CBD Directorates by providing enterprise-wide services to facilitate net-centric interoperability of systems in acquisition for the Warfighter. The SSA provides the CBRND Warfighter with Joint Service solutions for Integrated Architectures, Data Management/Modeling, Information Assurance, Interoperability Certifications, Verification, Validation and Accreditation (VV&A) to support interoperable and integrated net-centric, service-oriented solutions for CBRND systems. The SSA emphasizes development of reference implementations to guide Government and industry system and software developers to ensure that their products meet common interoperability standards.

The latest technologies/products include the definition of a Common CBRN Sensor Integration Standard (CCSI) and the CBRN Data Model. These technologies and direct enablers for the development of CBRN integrated sensor networks and the dissemination of CBRN information across all users.

The SSA directly supports CBDP Bio-Surveillance initiatives in providing common service oriented architecture and framework for the collection and dissemination of Bio-Surveillance information.

Justification: SSA provides the JPEO and CBRN community with critical "plug and play" capabilities which allow for system modularity and re-configurability across the enterprise. SSA helps ensure that the various programs and projects are designing/adhering to DoD and industry standards to avoid proprietary/stove-pipe solutions. The requirement for net-centric, composable solutions provides the near term foundation for the Warfighter's ability to communicate his CBRN solutions and interoperate with other service operational systems. It also supports a longer term ability to interoperate with related agencies and to reduce the Warfighter's CBRN footprint as technologies improve.

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

JS0004 / WMD - CIVIL SUPPORT

TEAMS (WMD CST)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	13.292	5.069	-	5.069	-	-	-	-	-	18.361
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	13.292	5.069	-	5.069	-	-	-	-	-	18.361
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	13.292	5.069	-	5.069	-	-	-	-	-	18.361
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				

 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

 Initial Spares (\$ in Millions)
 <t

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

LI SA0001 - SITUATIONAL AWARENESS

Chemical and Biological Defense Program

	P	rior Years	S		FY 2014			FY 2015		FY	' 2016 Bas	e	FY	/ 2016 OC	:0	F۱	/ 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost							'											
Recurring Cost																		
SPU CBE - EBOLA RESPONSE <sup>(†)</sup>	-	-	0.000	-	-	-	552.000	1	0.552	-	-	-	-	-	-	-	-	
SPU CBE Personal Protective Equipment - Class 1 <sup>(†)</sup>	-	-	0.000	-	-	-	0.948	134	0.127	0.933	60	0.056	-	-	-	0.933	60	0.
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>	-	-	0.000	-	-	-	1.721	2,700	4.648	1.729	1,430	2.473	-	-	-	1.729	1,430	2
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>	-	-	0.000	-	_	-	0.523	562	0.294	0.553	3,052	1.687	-	-	-	0.553	3,052	,
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>		-	0.000	-	-	-	-	-	-	0.070	4,593	0.323	-	-	-	0.070	4,593	(
SPU CBE Personal Protective Equipment - Filter Canister <sup>(†)</sup>		-	0.000	-	-	-	-	-	-	0.045	6,958	0.312	-	-	-	0.045	6,958	(
WMD CST - WMD- CST Hapsite ER SPME Module <sup>(†)</sup>	-	-	0.000	-	-	-	23.134	67	1.550	-	-	-	-	-	-	-	-	

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JS0004 / WMD - CIVIL SUPPORT
TEAMS (WMD CST)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	ı	Prior Years	S		FY 2014			FY 2015		F`	Y 2016 Ba	se	F	Y 2016 OC	0	F`	Y 2016 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
WMD CST Lightweight Inflatable Decontamination System <sup>(†)</sup>	_	_	0.000	_	_	_	110.000	10	1.100	_	_	_	_	_	_	_	_	_
WMD CST - ORTEC Microdetective HX <sup>(†)</sup>	_	_	0.000		_	_	113.000		3.164	_	_	_	-	_	_	_	_	_
Subtotal: Recurring Cost	-	-	0.000		-	-	-	_	11.435	-	-	4.851	-	-	-	-	_	4.85
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	11.435	-	-	4.851	-	-	-	-	-	4.85
Support Cost							,							,		,		
SPU CBE - Government Program Management	-	-	0.000	-	-	-	-	-	-	-	-	0.218	-	-	-	-	-	0.21
WMD CST - Engineering Services Support (Contractor)	-	-	0.000	-	-	-	-	-	0.870	-	-	-	-	-	-	-	-	-
WMD CST - Government Program Management	-	-	0.000	-	-	-	_	-	0.369	-	-	-	-	-	-	-	-	_
WMD CST - Quality Assurance / Control	-	-	0.000	-	-	-	-	-	0.618	-	-	-	-	_	-	-	-	_
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	1.857	-	-	0.218	-	-	-	-	-	0.21
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	13.292	-	-	5.069	-	-	-	-	-	5.069

		FY 2017			FY 2018			FY 2019			FY 2020		To	Complet	te	-	Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost							'			'								
Recurring Cost																		
SPU CBE - EBOLA RESPONSE <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
SPU CBE Personal Protective Equipment - Class 1 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	7

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:

JS0004 / WMD - CIVIL SUPPORT

TEAMS (WMD CST)

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

		FY 2017			FY 2018			FY 2019			FY 2020		T	o Comple	te		Total Cost	
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	_	-	-	_	-	-	-	-	0.3
SPU CBE Personal Protective Equipment - Filter Canister <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3
WMD CST - WMD- CST Hapsite ER SPME Module <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5
WMD CST Lightweight Inflatable Decontamination System <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	_	-	1.1
WMD CST - ORTEC Microdetective HX <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.2
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.2
Support Cost													•					
SPU CBE - Government Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2
WMD CST - Engineering Services Support (Contractor)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8
WMD CST - Government Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3
WMD CST - Quality Assurance / Control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0
Gross/Weapon System Cost	-	-	_	-	-	-	-	-	_	-	-	-	-	-	-	_	-	18.3

#### Remarks

Prior to FY 2015, the WMD - CIVIL SUPPORT TEAMS (WMD CST) program was reported under CBDP line item (BLIN) JS1000 - INSTALLATION FORCE PROTECTION

This program supports the acquisition and delivery of an integrated chemical, biological, radiological, nuclear and explosive (CBRNE) rapid response capability for National Guard Bureau's (NGB) Weapons of Mass Destruction Civil Support Teams (WMD-CST) and Special Purpose Units - Chemical Biological Equipment (SPU-CBE) which consists of the CBRNE Enhanced Response Force Package (CERFP), the United States Marine Corps Chemical Biological Incident Response Force (CBIRF) the United States Army Reserve (USARC) Chemical Recon Platoons, Decon Platoons, Defense Support of Civil Authority

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: SA0001 / SITUATIONAL AWARENESS	Item Number / Title [DODIC]: JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
CBRN Response Force (DCRF), and the 20th Support Command Nuclear I fielded commercial-off-the-shelf (COTS) CBRNE equipment, identification a establishment of institutionalized training. The overall capability package in of this program is to address legacy requirements gaps/deficiencies for WM upgrades that incorporate proven advancements in technology to satisfy mi	and evaluation of emerging technologies, prioritization and fielding acludes hand held detection, protection, decontamination, situatior ID-CST's and SPU-CBE's where they exist through the streamline	of improved capabilities to meet established requirements, and the nal awareness software assessment and sampling tools. The purpose
Justification: FY16 funding provides for the acquisition and fielding of Perso Filter Canisters).	onal Protection Equipment (PPE) for the first responder community	y - SPU CBE (PPE - Class 1, Class 2, Class 3, HAZMAT Boots, and
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]:
JS0004 / WMD - CIVIL SUPPORT
TEAMS (WMD CST)

	0			Method/Type or		Award	Date of First	04.	Unit Coot	Specs Avail	Date Revision	RFP Issue
Cost Elements	o	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	<b>Qty</b> (Each)	Unit Cost	Now?	Available	Date
SPU CBE - EBOLA RESPONSE <sup>(†)</sup>		2015	Veterans Corp. / Fairfax, VA	TBD	Boston, MA	Dec 2014	Jan 2015	1	552.000	Y		
SPU CBE Personal Protective Equipment - Class 1 <sup>(†)</sup>		2016	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2016	May 2016	60	0.933	Y		
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>		2015	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2015 <sup>(7)</sup>	May 2015	2,700	1.721	Y		
SPU CBE Personal Protective Equipment - Class 2 <sup>(†)</sup>		2016	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2016	May 2016	1,430	1.729	Y		
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>		2015	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2015 <sup>(8)</sup>	May 2015	562	0.523	Y		
SPU CBE Personal Protective Equipment - Class 3 <sup>(†)</sup>		2016	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2016	May 2016	3,052	0.553	Y		
SPU CBE Personal Protective Equipment - HAZMAT Boots <sup>(†)</sup>		2016	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2016	May 2016	4,593	0.070	Y		
SPU CBE Personal Protective Equipment - Filter Canister <sup>(†)</sup>		2016	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2016	May 2016	6,958	0.045	Y		
WMD CST - WMD-CST Hapsite ER SPME Module $^{(\dagger)}$		2015	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2015	May 2015	67	23.134	Y		
WMD CST Lightweight Inflatable Decontamination System <sup>(†)</sup>		2015	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2015	Jun 2015	10	110.000	Y		
WMD CST - ORTEC Microdetective $\mathrm{HX}^{(\dagger)}$		2015	Veterans Corp. / Fairfax, VA	C/FP	Boston, MA	Feb 2015	May 2015	28	113.000	Y		

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

<sup>(7)</sup> - IDIQ

<sup>(8)</sup> - IDIQ

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Exhibit F	P-21, Pro	ducti	on Sc	hedul	le: PE	3 201	6 Che	mical	and	Biolog	gical [	Defens	e Pro	gram	1							Date	: Feb	ruary	2015				
<b>Appropr</b> 0300D / 0		Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:			Item   / SITU				RENE	SS					JS00	004 / \	nber / WMD WMD (	- CIV			RT	
	Cost El (Units i									Fiscal Y	ear 2015						,	_				Fiscal Ye	ear 2016						
<sub>M</sub>			ACCEPT PRIOR	DA.								Ca	alendar \	Year 201	5								Calen	dar Year	2016				
O F C R O # FY	SERVICE	PROC QTY	TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
SPU CBE - E	BOLA RESPO	NSE						,								,	,								·		· ·		
1 2015	CBDP	1	-	1			Α -	1																					-
Secondary Distribution	ARMY	1	-	1			Α -	1																					-
SPU CBE Per	sonal Protecti	ve Equipn	ent - Clas	s 1																									
2 2016	CBDP	60	-	60																	A -	-	-	6	6	6	6	6	30
Secondary Distribution	ARMY	60	-	60																	A -	-	-	6	6	6	6	6	30
SPU CBE Per	sonal Protecti	ve Equipn	ent - Clas	s 2																									,
3 2015	CBDP	2,700	-	2,700					Α -	-	-	225	225	225	225	225	225	225	225	225	225	225	225						-
Secondary Distribution	ARMY	2,700	-	2,700					A -	-	-	225	225	225	225	225	225	225	225	225	225	225	225						-
3 2016	CBDP	1,430	-	1,430																	A -	-	-	225	225	225	225	225	305
Secondary Distribution	ARMY	1,430	-	1,430																	A -	-	-	225	225	225	225	225	305
SPU CBE Per	sonal Protecti	ve Equipn	ent - Clas	s 3			,																						
4 2015	CBDP	562	-	562					Α -	-	-	281	281																-
Secondary Distribution	ARMY	562	-	562					A -	-	-	281	281																-
4 2016	CBDP	3,052	-	3,052																	A -	-	-	281	281	281	281	281	1,647
Secondary Distribution	ARMY	3,052	-	3,052																	A -	-	-	281	281	281	281	281	1,647
SPU CBE Per					ts																					1			
5 2016	-	4,593	-	4,593																	A -	-	-	459	459	459	459	459	_
Secondary Distribution	ARMY	4,593	-	4,593																	A -	-	-	459	459	459	459	459	2,298
SPU CBE Per	_		ent - Filter																										T
6 2016 Secondary	CBDP	6,958	-	6,958																	A -	-	-	695 695	695 695	695 695	695 695	695 695	
Distribution	MAD COT !!	6,958	-	6,958																									3,483
WMD CST - V			rivie Modi						_		1					6			اء			-							
7 2015 Secondary Distribution	CBDP ARMY : ANG	67 67		67 67					A -	-	-	6	6	6	6	6	6	6	6	6	6	7							-
WMD CST Lig			ontaminatio		າ																								
	,				0	N O	D E	J A	F E	M A	A P	M A	J	Ŋ	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J	Ŋ	A U	S E	B A L
					T	v	С	N	В	R	R	Y	N	Ĺ	Ğ	P	T	V	c	N	В	R	R	Y	N	Ĺ	Ğ	P	L

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Ex	hibit I	P-21, Pro	oduct	ion Sc	hedul	e: PE	3 201	6 Che	emical	and	Biolog	gical [	Defen	se Pro	ogran	n							Date	e: Feb	oruary	2015	,			
	opropr 00D/	iation / I 03 / 1	Budge	et Acti	vity /	Budç	get Sı	ub Ac	tivity	:			Item / SITU					ESS					JS0	004 <i>l</i>	nber / WMD WMD	- CIV	'ĪL SU		RT	
		Cost El (Units i	ements n Each)								Fiscal Y	ear 2015	1										Fiscal Y	ear 2016	;					
				ACCEPT									C	alendar	Year 201	15								Caler	ndar Yea	2016				
0 C 0	R	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	
	8 2015	CBDP	10	-	10					A -	-	-	-	3	3	4														
	ondary ribution	ARMY : ANG	10	-	10					A -	-	-	-	3	3	4														
WN	ID CST - C	RTEC Microc	letective I	łX																										
	9 2015	CBDP	28	-	28					Α -	-	-	7	7	7	7														
	ondary ribution	ARMY : ANG	28	-	28					A -	-	-	7	7	7	7														
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

EXHIBIT F	P-21, Pro	oducti	on Sc	hedul	e: PB	2016	6 Che	mical	and I	Biolog	gical [	Defen	se P	ograr	n							Date	e: Feb	oruary	/ 2015	5			
	opropriation / Budget Activity / Budget Sub Activity: 800D / 03 / 1  Cost Elements								!						Title: . AWA		ESS					JS0	004 <i>l</i>	WMD		<b>[DOI</b> /IL SU )		RT	
		lements in Each)								Fiscal Y	ear 2017											Fiscal Y	ear 2018						
			ACCEPT										Calenda	r Year 20	17								Caler	ndar Yea	r 2018				
O F C R FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
SPU CBE - EE	BOLA RESPO	NSE																											
1 2015	CBDP	1	1	-																									-
Secondary Distribution	ARMY	1	1	-																									-
SPU CBE Per			ent - Class	s 1																									
2 2016	CBDP	60	30	30	6	6	6	6	6																				-
Secondary Distribution	ARMY	60	30	30	6	6	6	6	6																				-
SPU CBE Per				3 2																									
3 2015		2,700	2,700	-																									-
Secondary Distribution	ARMY	2,700	2,700	-																									-
3 2016		1,430	1,125	305	225	80																							-
Secondary Distribution	ARMY	1,430	1,125	305	225	80																							-
SPU CBE Per				3																									
4 2015	CBDP	562	562	-																									-
Secondary Distribution	ARMY	562	562	-							1																		-
4 2016	CBDP	3,052	1,405	1,647	281	281	281	281	281	242																			-
Secondary Distribution	ARMY	3,052	1,405		281	281	281	281	281	242																			-
SPU CBE Per																													
5 2016 Secondary	CBDP	4,593	2,295		459 459	459 459	459 459	459 459	462 462																				-
Distribution SPU CBE Per	nonal Proto : "	4,593	2,295																										
6 2016	_	6,958	3,475		695	695	695	695	703																				T -
Secondary Distribution	ARMY	6,958	3,475		695	695	695	695	703																				_
WMD CST - W	∟ VMD-CST Hap																												
7 2015		67	67	-	-																								-
Secondary Distribution	ARMY : ANG	67	67	-																									-
WMD CST Lig	htweight Infla	table Deco	ntaminatio	n System																									
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	B A L

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Ex	hibit F	P-21, Pro	oducti	on Scl	hedul	e: PE	3 201	6 Che	mical	and	Biolo	gical	Defen	se P	rogra	m							Date	: Feb	ruary	201	5			
	propr 00D /	riation / 03 / 1	Budge	t Activ	vity /	Budg	jet Si	ub Ac	tivity	:						/ Title _ AW/		ESS					JS00	004 /	nber / WMD WMD	- CI\	/ĪL SI		RT	
			lements in Each)								Fiscal Y	ear 2017	7										Fiscal Ye	ear 2018					,	
Π,	м			ACCEPT PRIOR	BAL									Calenda	r Year 2	017								Caler	dar Year	2018		,		
0   C	F R	SERVICE	PROC QTY	TO 1 OCT 2016	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	E A
8	3 2015	CBDP	10	10	-																					1	1			
	ndary ibution	ARMY : ANG	10	10	-																									
_		DRTEC Micro	1 1																											
Seco	2015 Indary Ibution	CBDP ARMY : ANG	28	28																										
		ı	<u>                                     </u>			0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	E A

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

Item Number / Title I

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

SA0001 / SITUATIONAL AWARENESS

Item Number / Title [DODIC]: JS0004 / WMD - CIVIL SUPPORT TEAMS (WMD CST)

	Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR					Ini	tial			Reo	rder	
Ref # MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
2 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
3 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
4 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
5 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
6 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
7 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
8 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7
9 Veterans Corp Fairfax, VA	1	775	875	1	4	4	8	1	4	3	7

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement. Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: PHM001 / CB PROTECTION AND HAZARD MITIGATION **CBDP** 

ID Code (A=Service Ready, B=Not Service Ready) :			Program Ele	ments for Cod	de B Items:			Other Relate	d Program El	ements:		
	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	156.630	137.487	-	137.487	162.219	166.795	146.329	172.122	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	156.630	137.487	-	137.487	162.219	166.795	146.329	172.122	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	156.630	137.487	-	137.487	162.219	166.795	146.329	172.122	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

## **Description:**

Beginning in FY15, the Chemical Biological Protection & Hazard Mitigation (CB P&HM) Budget Line Item (BLIN) facilitates a family-of-systems approach across the domains providing protective & hazard mitigation capabilities to the Joint Force through a consolidated CB P&HM portfolio that comprises efforts across individual and collective protection, decontamination, and medical countermeasures (pretreatments, prophylaxis and therapeutics). Efforts previously captured under the Individual Protection (GP1000), Collective Protection (PA1600), and medical countermeasures under the Joint Bio Defense Program (Medical) (MA0800) BLINs are now consolidated in this BLIN.

Specific protection efforts provided include protective masks, respiratory systems, protective clothing, collective protection on numerous platforms, and medical countermeasure pre-treatments and prophylaxes.

Individual protection efforts are focused equipment that both improves current protection levels and reduces the physiological and logistical burden on the individual soldier, sailor, airman or marine. The goal is to procure equipment that will allow for the individual to operate in a contaminated CB environment with minimal degradation in his/her performance. Individual protection programs funded include; (1) The Joint Service Aircrew Mask (JSAM) system is a lightweight Chemical. Biological, Radiological and Nuclear (CBRN) protective mask consisting of mask, filter, blower, and accessories optimized to minimize impact on the wearer's performance, maximize its ability to interface with aircrew protective clothing, and provide improved field of view when compared to current protective masks. (2) The Joint Service General Purpose Mask (JSGPM) is a lightweight, protective Nuclear, Biological and Chemical (NBC) mask system. The JSGPM will provide above-the-neck, head/eve/respiratory protection against Chemical and Biological (CB) agents, radioactive particles, and Toxic Industrial Materials (TIMs). (3) The Uniform Integrated Protection Ensemble (UIPE) is a supplemental CBRN protective system with the capability that enables selection of a tailored material solution based on the expected threat level for any given mission or platform.

Collective Protection provides life-sustaining and continued operational capabilities to the Warfighter and their equipment in support of military missions and operations as a seamless, integrated sub-system to all manner of platform, which utilizes state-of-the-art chemical, biological, radiological and nuclear (CBRN) protective technologies. The CB Collective Protection systems will be smaller, lighter, less costly, and more easily supported logistically at the crew, unit, ship, and aircraft level. Collective protection platforms include shelters, vehicles, ships, aircraft, buildings, and hospitals. Collective protection programs funded include:

(1) The Collective Protection System (CPS) Backfit Program installs CPS in mission critical medical and command and control spaces on the Navy's Landing Helicopter Dock (LHD) amphibious ship class. (2) The Collective Protected Field Hospitals (CPFH) provides Joint Service medical personnel CBRN collective protection to their medical treatment facilities. The Army's Collectively Protected Deployable Medical System (CP DEPMEDS); the Air Force's Collectively Protected Expeditionary Medical Support (CP EMEDS); and the Navy's Chemically Hardened Expeditionary Medical Facility (CH EMF) converts the service's field hospitals into a fully operational, environmentally controlled, and collectively protected medical treatment facility. The requirement is to sustain medical operations in a CB contaminated environment for 72 hours. (3) The Joint Expeditionary Collective Protection (JECP) provides the joint expeditionary forces a collective protection (CP) capability which is lightweight, compact, modular, and affordable. The JECP

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Exhibit P-40, Budget Line Item Justification: PB 2016	Chemical and Biological De	fense Program	Date: February 2015	
<b>Appropriation / Budget Activity / Budget Sub Activity</b> 0300D: Procurement, Defense-Wide / BA 03: Chemical/ECBDP		P-1 Line Item Number / Titl PHM001 / CB PROTECTION	e: N AND HAZARD MITIGATION	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite	ems:	Other Related Program Elements:	
family of systems allows the application of CP to transportable soft-side personnel groups of varying size, unencumbered by individual protect dust, and sand. (4) Mounted on a platform, the Chemical Biological P combat service support personnel to obtain relief from the continuous	rive equipment (IPE), from effects of trotective Shelter (CBPS) provides a	chemical and biological (CB) agents mobile, contamination free, environr	, toxic industrial materials (TIMs), radiological (R) particles, heat, mentally controlled working area for medical, combat service, and	
Decontamination efforts facilitate the removal and detoxification of corenvironmentally friendly, reduce logistics burdens, and are effective addeveloped which minimize the extent of contamination pickup and transpector	gainst traditional and nontraditional	agents on sensitive and non-sensitive	e equipment. Contamination control techniques have been	
(1) Decontamination Family of Systems (DFoS) General Purpose Decincreased capability to decontaminate/mitigate traditional agents / NT/will procure systems with the capability to protect personnel handling a CHRP provides the warfighter the capability to safely handle, transpor will provide immediate/operational decontamination capabilities for ser	As on personnel, equipment, vehicle and processing human remains con t, and temporarily store or inter con	e interiors/exteriors, terrain, and fixed taminated with Chemical Biological F taminated human remains in a theate	facilities. (2) Contaminated Human Remains Pouch (CHRP) whi Radiological (CBR) contamination for safe intra-theater transport. er of operations. (3) DFoS Joint Sensitive Equipment Wipes (JSE	The
Medical Countermeasures (MCMs) include capabilities to protect the vinfectious diseases, genetically engineered threats, naturally occurring pretreatments/prophylaxes and therapeutics to the warfighter. MCMs post-exposure, pre/post-symptomatic therapeutics such as the Advant performance in multiple environments, and to provide for self-aid/budc Food and Drug Administration (FDA) approval. Medical Countermeas as treatment for nerve agent induced seizures and will be a replacement Globulin Intravenous (VIGIV). (3) Recombinant Botulinum A/B vaccing	g biological phenomena, novel chen in development by the CBDP traditice Anticonvulsant System. A family dy-aid and medical treatment of CBF sure programs funded include; (1) then for the currently fielded Convulsion.	nical agents, and radiological threats. onally fall into one of two categories: -of-systems approach for medical de R casualties. Fielding of prophylactic e Advanced Anticonvulsant System (	Program efforts include core medical efforts aimed at delivering 1) pretreatments/prophylaxes such as a plague vaccine and 2) ifense against threats is required to provide protection, to sustain pre-treatment, and therapeutic drugs and medical devices required (AAS) consists of the drug midazolam in an auto-injector to be use	res ed

LI PHM001 - CB PROTECTION AND HAZARD MITIGATION Chemical and Biological Defense Program

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Exhibit P-40, Budget Line Item Justification: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D: Procurement, Defense-Wide / BA 03: Chemical/Biological Defense / BSA 1: PHM001 / CB PROTECTION AND HAZARD MITIGATION CBDP

ID Code (A=Service Ready, B=Not Service Ready) :	Pro	gran	Elements for Code	B Items:	Oth	er Related Program I	Elements:	
Exhibits Schedule	·		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
JM6677 / ADVANCED ANTICONVULSANT SYSTEM (AAS)	P-5, P-5a, P-21		- / 0.000	- / -	- / 2.500	- / 11.133	- / -	- / 11.133
R12301 / CB PROTECTIVE SHELTER (CBPS)	P-5, P-5a, P-21		- / 0.000	- / -	- / 30.400	- / 15.001	- / -	- / 15.001
MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)	P-5, P-5a, P-21		- / 0.000	- / -	- / 6.948	- / 11.101	- / -	- / 11.101
JN0014 / Collective Protection System Amphibious Backfit (Force Protection)	P-3a		- / -	- / -	- / 15.000	- / -	- / -	- / -
JD0063 / CONTAMINATED HUMAN REMAINS POUCH (CHRP)	P-5		- / 0.000	- / -	- / 3.365	- / 1.542	- / -	- / 1.542
JD0050 / DECONTAMINATION FAMILY OF SYSTEMS (DFoS)	P-5		- / 0.000	- / -	- / 3.450	- /7.254	- / -	- /7.254
JX0005 / DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES)	P-5	В	- / 0.000	- / -	- / 6.412	- / 0.185	- / -	- / 0.185
JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)	P-5, P-5a, P-21		- / 0.000	- / -	- / 15.898	- / 5.864	- / -	- / 5.864
JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)	P-5, P-5a, P-21		- / 0.000	- / -	- / 61.131	- / 60.777	- / -	- / 60.777
JI0002 / JS AIRCREW MASK (JSAM)	P-5, P-5a, P-21	В	- / 0.000	- / -	- / 11.526	- / 24.630	- / -	- / 24.630
Total Gross/Weapon System Cost			- / 0.000	- 1 -	- /156.630	- / 137.487	- 1 -	- / 137.487
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
JM6677 / ADVANCED ANTICONVULSANT SYSTEM (AAS)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / 13.633
R12301 / CB PROTECTIVE SHELTER (CBPS)	P-5, P-5a, P-21		- / 16.950	- / 17.908	- / 22.508	- / 28.556	Continuing	Continuing
MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)	P-5, P-5a, P-21		- / 11.101	- / 11.101	- / 14.000	- / 16.000	Continuing	Continuing
JN0014 / Collective Protection System Amphibious Backfit (Force Protection)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 15.000
JD0063 / CONTAMINATED HUMAN REMAINS POUCH (CHRP)	P-5		- / -	- / -	- / -	- / -	- / -	- /4.907
JD0050 / DECONTAMINATION FAMILY OF SYSTEMS (DFoS)	P-5		- / 10.037	- / 12.621	- /20.817	- / 15.874	Continuing	Continuing
JX0005 / DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES)	P-5	В	- / 0.185	- / 0.185	- / 3.848	- / 10.882	Continuing	Continuing
JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)	P-5, P-5a, P-21		- / 14.381	- / 14.037	- /26.020	- / 25.418	Continuing	Continuing
JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)	P-5, P-5a, P-21		- / 55.118	- / 48.982	- / -	- 1 -	Continuing	Continuing
JI0002 / JS AIRCREW MASK (JSAM)	P-5, P-5a, P-21	В	- / 54.447	- / 61.961	- / 55.136	- / 50.374	Continuing	Continuing
Total Gross/Weapon System Cost			- / 162.219	- / 166.795	- / 146.329	- / 172.122	Continuing	Continuing

<sup>\*</sup>Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

## Justification:

Operational forces across the continuum of global, contingency, special operations/low intensity conflict, counternarcotics, and other high-risk missions have an immediate need to survive and sustain operations in a CB threat environment. Efforts in this BLIN combined provide protective equipment and medical countermeasures that supports protection prior to potential operations and mitigates the hazard if exposed.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

UNCLASSIFIED Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 PHM001 / CB PROTECTION AND HAZARD MITIGATION JM6677 / ADVANCED ANTICONVULSANT SYSTEM (AAS) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : **Prior FY 2016 FY 2016** FY 2016 To **Resource Summary FY 2014** FY 2015 000FY 2017 **FY 2018 FY 2019** FY 2020 Complete Years Base Total Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 2.500 11.133 11.133 13.633 Less PY Advance Procurement (\$ in Millions) \_ \_ \_ Net Procurement (P1) (\$ in Millions) 0.000 2.500 11.133 11.133 13.633 \_ Plus CY Advance Procurement (\$ in Millions) Total Obligation Authority (\$ in Millions) 0.000 2.500 11.133 11.133 13.633 (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Hardware Cost Recurring Cost AAS(†) 0.000 0.018 130.000 2.320 0.018 620.000 10.900 0.018 620.000 10.900 Subtotal: Recurring Cost 0.000 --\_ 2.320 10.900 --\_ 10.900 Subtotal: Hardware Cost 0.000 2.320 10.900 10.900 Support Cost AAS - Management 0.000 0.180 0.233 0.233 Support Subtotal: Support Cost 0.000 0.180 0.233 0.233 \_ \_ Gross/Weapon System 0.000 2.500 11.133 11.133 **FY 2017 FY 2018 FY 2019** FY 2020 To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost Qty Cost Cost Qtv Cost Cost Elements (Each) (\$ K) (Each) (\$ M) (\$ K) (\$ M) Hardware Cost Recurring Cost AAS(†) 13.220 13.220 Subtotal: Recurring Cost -

LI PHM001 - CB PROTECTION AND HAZARD MITIGATION Chemical and Biological Defense Program

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P-1 Line #75

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

**Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

P-1 Line Item Number / Title:

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]: JM6677 / ADVANCED

ANTICONVULSANT SYSTEM (AAS)

ID Code (A=Service Ready, B=Not Service Ready) :

	MDA	P/M	AIS C	ode:
--	-----	-----	-------	------

ID Code (A=Service Rea	dy, b=Not Servi	ice Ready) :							IVI	DAP/IVIAIS	coue.							
		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	e		Total Cos	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.220
Support Cost																		-
AAS - Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.413
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.413
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.633

#### Remarks:

The Advanced Anticonvulsant System (AAS) will consist of the drug midazolam in an autoinjector for use in treating nerve agent induced seizures and will replace the currently fielded Convulsant Antidote for Nerve Agent (CANA) autoinjector, which uses diazepam. Procurement funds will support Initial Operational Capability (IOC) supporting the AAS phase-in/CANA phase-out plan along with transitioning the program to the Defense Logistics Agency (DLA) for sustainment.

In October 2013 the manufacturer notified the government that modifications to the manufacturing line are required, and would result in delays to production. The Government is working with the contract to ensure that manufacturing upgrades are compliant with FDA requirements, and delays are mitigated to the fullest extent possible. The contract will be modified to address these additional requirements, and the program is working to determine the path forward and revised timeline for FDA approval and delivery of IOC/FOC.

Justification: FY16 funding supports procurement of 750K FOC.

(†) indicates the presence of a P-5a

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LI PHM001 - CB PROTECTION AND HAZARD MITIGATION

Exhibit P-5a, Procurement History and Planning: PB 2016 C	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: JM6677 / ADVANCED ANTICONVULSANT SYSTEM (AAS)

Cost Elements	0 C O F	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost		 RFP Issue Date
AAS <sup>(†)</sup>	201	Meridian Medical Technologies Inc. / Columbia, MD	C / FFP	ACC-APG-NCD, Ft. Detrick, MD	Sep 2015	Dec 2015	130,000	0.018	Y	
AAS <sup>(†)</sup>	201	Meridian Medical Technologies Inc. / Columbia, MD	C/FFP	ACC-APG-NCD, Ft. Detrick, MD	Jan 2016	Apr 2016	620,000	0.018	Y	

<sup>(†)</sup> indicates the presence of a P-21

Exhibit	P-21, Pr	oducti	on Sc	hedul	e: Pl	3 201	6 Ch€	mica'	l and	Biolog	gical [	Defen	se Pr	ogran	1							Dat	e: Feb	ruary	2015				
<b>Approp</b> 0300D /	<b>riation</b> / 03 / 1	Budge	t Acti	vity /	Bud	jet Sı	Jb Ac	tivity	<b>′</b> :					iber / TECT			HAZA	RD N	1ITIG <i>A</i>	OITA	N	JM6	n <b>Num</b> 6677 / <i>I</i> TICON	4DV	ANCE	D	_	AAS	)
		lements Thousands)								Fiscal Y	ear 2015	1										Fiscal `	Year 2016						
			ACCEPT									(	Calendar	Year 201	5								Calend	dar Yea	r 2016				
0 F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
AAS																													
	CBDP	130.000	-	130.000				<u> </u>								Α -	-	-	130.000										
Secondary Distribution	SOCOM	130.000	-	130.000												A -	-	-	130.000										
1 2016	CBDP	620.000	-	620.000																Α -	-	-	150.000	-	150.000	-	150.000	-	170.
Secondary Distribution	SOCOM	620.000	-	620.000																Α -	-	-	150.000	-	150.000	-	150.000	-	170.
	'				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U L	A U G	S E P	B

													U	NCL/	ASSI	FIE	)													
Ex	hibit I	P-21, Pr	oducti	ion Sc	hedu	le: PB	201	6 Che	mica	l and	Biolo	gical l	Defer	ise Pi	ograr	n							Date	e: Fel	bruary	/ 201	5			
	propr 00D/	r <b>iation</b> / 03 / 1	Budge	et Acti	ivity /	Budg	et S	ub Ac	tivity	<b>'</b> :		<b>1 Line</b> IM001						HAZA	ARD N	/IITIG	IOITA	١	JM6	677 <i>I</i>	'ADV	ANCE		DIC]:	(AAS	)
			Elements Thousands	:)							Fiscal `	Year 2017	7										Fiscal Y	ear 2018	3					
				ACCEPT										Calenda	Year 20	17								Cale	ndar Yea	r 2018				
0 0	₹	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	O C T	N O V	DEC	J A N	F E B	M A R	A P R	M A Y	N J	n n	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
AAS																														
		CBDP	130.000	130.000	-	-																								-
	ndary bution	SOCOM	130.000	130.000	-																									-
			620.000	450.000	170.000	150.000	-	20.000																						-
Seco Distri	ndary bution	SOCOM	620.000	450.000	170.000	150.000	-	20.000																						-
		,				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

ANTICONVULSANT SYSTEM (AAS)

	Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFR					Init	ial			Reo	rder	
Ref # MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
Meridian Medical     Technologies Inc     Columbia, MD	1	40,000	150,000	-	4	11	15	-	-	4	4

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

R12301 / CB PROTECTIVE SHELTER
(CBPS)

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAI	IS Code:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	30.400	15.001	-	15.001	16.950	17.908	22.508	28.556	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	30.400	15.001	-	15.001	16.950	17.908	22.508	28.556	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	30.400	15.001	-	15.001	16.950	17.908	22.508	28.556	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	e corresponding	budget request:	s are documente	ed elsewhere.)				•
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	-	-	_	-	-	-	_	-	_	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	P	rior Years	S		FY 2014			FY 2015		FY	′ 2016 Bas	e	FY	′ 2016 OC	0	FY	2016 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost						•				*							~	
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CBPS UP- ARMORED <sup>(†)</sup>	-	-	0.000	-	-	-	728.737	38	27.692	1,139.182	11	12.531	-	-	-	1,139.182	11	12.53
Government Furnished Material	-	-	0.000	-	-	-	-	-	0.500	-	-	0.123	-	-	-	-	-	0.123
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	28.192	-	-	12.654	-	-	-	-	-	12.65
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	28.192	-	-	12.654	-	-	-	-	-	12.65
Support Cost	_																	
Care of Supplies in Storage	-	-	0.000	-	-	-	-	-	-	-	-	0.659	-	-	-	-	-	0.659
First Article Testing	-	-	0.000	-	-	-	-	-	0.340	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	0.000	-	-	-	-	-	0.594	-	-	0.516	-	-	-	-	-	0.516
Integrated Logistics Support	-	-	0.000	-	-	-	-	-	0.613	-	-	0.116	-	-	-	-	-	0.116
Management Support	-	-	0.000	-	-	-	-	-	0.040	-	-	0.750	-	-	-	-	-	0.750
New Equipment Training	-	-	0.000	-	-	-	-	-	0.146	-	-	0.116	-	-	-	-	-	0.116
Total Package Fielding (spares)	-	-	0.000	-	-	-	-	-	0.475	-	-	0.190	-	-	-	-	-	0.190
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	2.208	-	-	2.347	-	-	-	-	-	2.34

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P-1 Line #75

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: R12301 / CB PROTECTIVE SHELTER 0300D / 03 / 1 PHM001 / CB PROTECTION AND HAZARD MITIGATION (CBPS) ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code: Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost** Qty Cost Qty Cost Qty Cost Qty Cost Qty Cost Qty Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) Gross/Weapon System Cost 0.000 30.400 15.001 15.001 FY 2017 FY 2018 FY 2019 **FY 2020** To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Cost Elements** (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (\$ K) Hardware Cost Recurring Cost Prior/Future combined Continuing Continuing 16.950 17.908 22.508 28.556 efforts CBPS UP-ARMORED(†) Government Furnished Material Subtotal: Recurring Cost 16.950 17.908 22.508 28.556 Continuing \_ Continuing Subtotal: Hardware Cost 16.950 17.908 22.508 -28.556 Continuing Continuing Support Cost Care of Supplies in Storage First Article Testing -\_ -\_ \_ -Engineering Support Integrated Logistics Support Management Support \_ -\_ \_ \_ New Equipment Training \_ -\_ \_ -\_ Total Package Fielding (spares) Subtotal: Support Cost ---Gross/Weapon System Continuing Continuing

#### Remarks:

Cost

Prior to FY 2015, the CB PROTECTIVE SHELTER (CBPS) program was reported under CBDP line item (BLIN) PA1600 - COLLECTIVE PROTECTION

17.908

The Services need a highly mobile, self-contained collective protection system which can provide a contamination free working area for Echelon I and II medical treatment facilities and other selected units. The Chemical and Biological Protective Shelter (CBPS) satisfies this need and replaces the M51 Chemical Protective Shelter. The system consists of a Collectively Protected (CP) shelter modularized and integrated

22.508

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16.950

28.556

	ONOLAGON ILD	
Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	cal Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: R12301 / CB PROTECTIVE SHELTER (CBPS)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
into a service selected prime-mover. The system is completely self contain personnel from wearing chemical and biological protective clothing. The sy	ned, self powered, mobile, and adaptable to a variety of missions. CBPS relieves ystem is capable of operating continuously for 72 hours providing a contamination	medical, combat service, and combat service support in free environmentally controlled working area.
Justification: FY16 procures 11 CBPS CB modules.		
(†) indicates the presence of a P-5a		

LI PHM001 - CB PROTECTION AND HAZARD MITIGATION Chemical and Biological Defense Program

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P-1 Line #75

Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: R12301 / CB PROTECTIVE SHELTER (CBPS)

	0		Method/Type or		Award	Date of First	Qty	Unit Cost	_		RFP Issue
Cost Elements	O FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	Now?	Available	Date
CBPS UP-ARMORED <sup>(†)</sup>	201	Smiths Detection / Edgewood, MD	C / FFP	Natick, MA	Apr 2015	Apr 2016	38	728.737	Y		
CBPS UP-ARMORED <sup>(†)</sup>	201	TBD / UNKNOWN	TBD	Natick, MA	Jan 2016	Mar 2017	1	1,139.182	Y		

<sup>(†)</sup> indicates the presence of a P-21

Ex	hibit F	P-21, Pro	oducti	on Sc	hedu	le: Pl	3 201	6 Che	mical	and l	Biolog	gical [	Defen	se Pr	ogran	า							Date	: Feb	ruary	2015				
•	propr 00D / 0	<b>iation</b> / 1 03 / 1	Budge	et Acti	vity /	Bud	get Sı	ub Ac	tivity	:		Line M001						HAZA	RD M	IITIG/	ATION	١		Num 301 / ( PS)					ELTE	ĒR
		Cost El (Units in T	ements housands	)							Fiscal Y	ear 2015											Fiscal Y	ear 2016						
	ACCEPT BAL PRIOR BAL											C	alendar	Year 201	5								Calen	dar Year	2016					
0 0	F R	SERVICE	PROC QTY	TO 1 OCT 2014	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CBF	S UP-AR	MORED	I.	ļ.								-																		
	1 2015	CBDP	.038	-	.038							A -	-	-	-	-	-	-	-	-	-	-	-	.005	.005	.005	.005	.005	.005	.008
	ndary ibution	ARMY	.038	-	.038							A -	-	-	-	-	-	-	-	-	-	-	-	.005	.005	.005	.005	.005	.005	.008
2	2 2016	CBDP	.011	-	.011																Α -	-	-	-	-	-	-	-	-	.011
	ndary ibution	ARMY	.011	-	.011																A -	-	-	-	-	-	-	-	-	.011
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Ex	hibit F	P-21, Pro	oducti	on Sc	hedul	e: PE	2016	6 Che	mical	and	Biolog	ical [	)efen	se P	rograi	m							Date	e: Feb	oruary	201	5			
	propr 00D/0	i <b>ation</b> / 03 / 1	Budge	et Acti	vity / l	Budg	et Su	b Ac	tivity	:	- 1				nber / OTEC			HAZA	ARD N	1ITIG.	ATION	1		301 <i>I</i>	nber / CB Pl				IELTI	ER
			lements Thousands)	)							Fiscal Ye	ar 2017											Fiscal Y	ear 2018						
ACCEPT PRIOR BAL													C	alenda	r Year 20	17				_				Caler	ndar Year	2018				
0 0	F R	SERVICE	PROC QTY	TO 1 OCT 2016	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	E
CBF	PS UP-AR	MORED																		1									1	
	1 2015		.038	.030	.008	.005	.003																							
	ondary ibution	ARMY	.038	.030	.008	.005	.003																							
_	2 2016		.011	-	.011	-	-	-	-	-	.005	.005	.001																	
	ondary ibution	ARMY	.011	-	.011	-	-	-	-	-	.005	.005	.001																	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	n n	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	E

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

R12301 / CB PROTECTIVE SHELTER (CBPS)

			Produc	tion Rates (Each	Month)				Procurement Le	adtime (Months)			
M	FR		MSR For 2016 1-8-5 For 2016 MAX For 201				lni	ial			Red	order	
F	lef					ALT	ALT		Total	ALT	ALT		Total
	#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
		Smiths Detection -	_	_									
		Edgewood, MD	1	5	17	12	3	47	50	-	2	11	13
	2	TBD - UNKNOWN	1	5	17	-	3	10	13	-	3	10	13

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-5, Cost	Analysis	s: PB 20	16 Chem	nical and Bi	ological D	efense Progr	am						Date: Fe	ebruary 2	2015		
<b>Appropriation / B</b> 0300D / 03 / 1	Budget A	ctivity /	Budget \$	Sub Activi		-1 Line Item HM001 / CB				ZARD MIT	GATIO	N	MA0401 INTEGR	mber / T / CBRN ATED P BLE (UIF	UNIFOR ROTECT	RM -	
ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :						М	DAP/MAI	S Code:							
Resource S	Summary	,	Prior Years	FY 2014	FY 201	FY 2016 Base	FY 20 OCC	I	7 2016 Fotal	FY 2017	FY 20	18 F	Y 2019	FY 202	To 0 Comp	_	Total
Procurement Quantity (Un	its in Each)		-	-		-		-	-	-		-	-		-	-	-
Gross/Weapon System Co	ost (\$ in Millior	ıs)	0.000	-	6.9	48 11.10	1	-	11.101	11.101	1	1.101	14.000	16.0	000 Continu	uing	Continuing
Less PY Advance Procure	ement (\$ in Mi	llions)	-	-		-		-	-	-		-	-		-	-	-
Net Procurement (P1) (\$ in	n Millions)		0.000	-	6.9	48 11.10	1	-	11.101	11.101	1	1.101	14.000	16.0	000 Continu	uing	Continuing
Plus CY Advance Procure	ement (\$ in Mil	lions)	-	-		-		-	-	-		-	-		-	-	-
Total Obligation Authori	ty (\$ in Millions	5)	0.000	-	6.9	48 11.10	1	-	11.101	11.101	1	1.101	14.000	16.0	000 Contin	uing	Continuing
	(The	following F	Resource Sun	nmary rows are	for information	al purposes only.	The correspo	onding budg	get requests	are document	ed elsewhe	re.)				1	
									_	_		_	-		-	-	-
Initial Spares (\$ in Millions)			-	-		-		-	- 1		1						
Initial Spares (\$ in Millions) Gross/Weapon System U	nit Cost (\$ in	Thousands)	-	-				-	-	-		-	-		-	-	-
	in this Exhibit	1	ot be exact or	add, due to ro			FY 2015		-	- Y 2016 Base			- Y 2016 OC			- / 2016 T	
Gross/Weapon System U	in this Exhibit	: P-5 may no	ot be exact or	add, due to ro	unding.	al Unit Cost	FY 2015  Qty (Each)		-		Total					- 2016 T  Qty (Each)	
Gross/Weapon System University of the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotals or Totals in the Subtotal or Totals in the Subtotal or Totals in the Subtotal or Total or	in this Exhibit	P-5 may no	ot be exact or s Total Cost	add, due to ro	unding. 7 2014 To Qty Co	al Unit Cost	Qty	- Total Cost	- F	Y 2016 Base	Total Cost	F Jnit Cost	Qty	Total Cost	F) Unit Cost	Qty	otal Total Cost
Gross/Weapon System University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University Systems University S	in this Exhibit	P-5 may no	ot be exact or s Total Cost	add, due to ro	unding. 7 2014 To Qty Co	al Unit Cost	Qty	- Total Cost	- F	Y 2016 Base	Total Cost	F Jnit Cost	Qty	Total Cost	F) Unit Cost	Qty	Total Cost
Cost Elements  Hardware Cost Recurring Cost Prior/Future combined efforts	in this Exhibit	P-5 may no	ot be exact or s Total Cost	add, due to ro	unding. 7 2014 To Qty Co	al Unit Cost	Qty	- Total Cost	- F	Y 2016 Base	Total Cost	F Jnit Cost	Qty	Total Cost	F) Unit Cost	Qty	Total Cost (\$ M)
Cost Elements  Hardware Cost Recurring Cost Prior/Future combined efforts  UIPE 1 Protective Garment(†)	in this Exhibit	P-5 may no Prior Years Qty (Each)	ot be exact or  S  Total Cost (\$ M)	add, due to ro	unding.  ' 2014  Outy Co Each) (\$	al Unit Cost	Qty (Each)	Total Cost (\$ M)	F Unit Cost	Y 2016 Base  Qty (Each)	Total Cost (\$ M)	F Jnit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Cost Elements  Hardware Cost  Recurring Cost  Prior/Future combined efforts  UIPE 1 Protective Garment(†)  Subtotal: Recurring Cost	Unit Cost	P-5 may no Prior Year: Qty (Each)	ot be exact or s  Total Cost (\$ M)  - 0.000 0.000	unit Cost	unding.  ' 2014  Outy Co Each) (\$	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	- Unit Cost (\$ κ) - 0.517	Qty (Each)	Total Cost (\$ M)  - 9.408 9.408	F Jnit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	FY Unit Cost (\$ κ)  - 0.517	Qty (Each)	Total Cost (\$ M)
Cost Elements  Cost Elements  Hardware Cost  Recurring Cost  Prior/Future combined efforts  UIPE 1 Protective Garment(†)  Subtotal: Recurring Cost  Subtotal: Hardware Cost	Unit Cost	P-5 may no Prior Year: Qty (Each)	ot be exact or  S  Total Cost (\$ M)	r add, due to ro  FY  Unit Cost (\$ K)	unding.  ' 2014  Outy Co Each) (\$	al st (\$ K)  0.510	Qty (Each)	Total Cost (\$ M)	- Unit Cost (\$ κ)	Qty (Each)	Total Cost (\$ M)	F Jnit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	FY Unit Cost (\$ κ)	<b>Qty</b> (Each)	Total Cost (\$ M)
Cost Elements  Cost Elements  Hardware Cost  Recurring Cost  Prior/Future combined efforts  UIPE 1 Protective Garment(f)  Subtotal: Recurring Cost  Subtotal: Hardware Cost Support Cost	Unit Cost	P-5 may no Prior Year: Qty (Each)		Unit Cost (\$ K)	unding.  ' 2014  Outy Co Each) (\$	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	- Unit Cost (\$ K)	Qty (Each)  - 18,199	Total Cost (\$ M)	F Jnit Cost (\$ K)	Qty (Each)	CO Total Cost (\$ M)	F \ Unit Cost (\$ κ)	Qty (Each)	Total Cost (\$ M)
Cost Elements  Cost Elements  Hardware Cost  Prior/Future combined efforts  UIPE 1 Protective Garment(f)  Subtotal: Recurring Cost  Subtotal: Hardware Cost  Support Cost  Production Lot Testing	Unit Cost (\$ K)	P-5 may no Prior Year: Qty (Each)		Unit Cost (\$K)	unding.  ' 2014  Outy Co Each) (\$	- Unit Cost (\$\sigma\$) 0.510		Total Cost (\$ M)	- Unit Cost (\$ κ) - 0.517	Qty (Each)	Total Cost (\$ M)  - 9.408 9.408 9.408	F Jnit Cost (\$ K)	Qty (Each)	CO Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System University Subtotals or Totals in Cost Elements  Hardware Cost  Prior/Future combined efforts  UIPE 1 Protective Garment (†)  Subtotal: Recurring Cost  Subtotal: Hardware Cost  Support Cost  Production Lot Testing  Program Management	Unit Cost (\$ K)	P-5 may no Prior Year: Qty (Each)		Unit Cost (\$K)	unding.  ' 2014  Outy Co Each) (\$	- Unit Cost (\$\sigma\$) 0.510		Total Cost (\$ M)  5.471 5.471 5.471 0.163 0.713	- Unit Cost (\$ κ) - 0.517	Qty (Each)	Total Cost (\$ M)  - 9.408 9.408 9.408 0.260 1.129	F Jnit Cost (\$ K)	Qty (Each)	CO Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Cost Elements  Cost Elements  Hardware Cost  Prior/Future combined efforts  UIPE 1 Protective Garment(f)  Subtotal: Recurring Cost  Subtotal: Hardware Cost  Support Cost  Production Lot Testing	Unit Cost (\$ K)	P-5 may no Prior Year: Qty (Each)		Unit Cost (\$K)	unding.  ' 2014  Outy Co Each) (\$	- Unit Cost (\$\sigma\$) 0.510		Total Cost (\$ M)	- Unit Cost (\$ κ) - 0.517	Qty (Each)	Total Cost (\$ M)  - 9.408 9.408 9.408	F Jnit Cost (\$ K)	Qty (Each)	CO Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)

ID Code (A=Service Read	dy, B=Not Servi	ice Ready) :							MI	DAP/MAIS	S Code:							
		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	e		Total Cost	t
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost						,											,	
Recurring Cost																		
Prior/Future combined efforts	-	-	11.101	-	-	11.101	-	-	14.000	-	-	16.000		Continuing			Continuing	
UIPE 1 Protective Garment <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	11.101	-	-	11.101	-	-	14.000	-	-	16.000		Continuing			Continuing	
Subtotal: Hardware Cost	-	-	11.101	-	-	11.101	-	-	14.000	-	-	16.000		Continuing			Continuing	
Support Cost																		
Production Lot Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	11.101	-	-	11.101	-	-	14.000	-	-	16.000		Continuing			Continuing	

#### Remarks:

... .

Prior to FY 2015, the CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE) program was reported under CBDP line item (BLIN) GP1000 - INDIVIDUAL PROTECTION

The Uniform Integrated Protection Ensemble (UIPE) is a Chemical, Biological, Radiological, Nuclear (CBRN) protective system offering the capability to select a tailored material solution based on the expected threat level commensurate with operational mission requirements. Where appropriate, a family of systems approach that meets the scope of UIPE individual protection capability needs will be utilized. The objective of UIPE is to fully integrate CBRN and toxic industrial material (TIM) protections into an ensemble, identical in fit and form to the combat uniform (including mask - helmet integration and protective boots and gloves), thus negating the need for separate protective ensemble components. This integrated protection approach will result in increased warfighter operational performance in a CBRN environment. The UIPE program will develop, integrate, test, procure and field incremental capability solutions that are modular in function and offer improvements in form and fit over current systems; the program will explore trade-space in areas such as protection level, heat stress, durability, antimicrobial properties, flame resistance, launderability, self-detoxification, and protection time in order to provide capabilities that afford maximum utility to the warfighter. Where appropriate modeling and simulation tools will be used to lower UIPE program risks, reduce costs, and ensure a high confidence in selected technologies. UIPE is aimed specifically at providing enhanced individual protection capabilities to the warfighter through reduction of physiological and psychological effects associated with CBRN protective garment thermal burden, weight, and bulk. The UIPE program will consider modernization in order to ensure that the warfighter retains access to state of the art capability to support future operational mission requirements.

The UIPE Increment 1 (UIPE 1) protective system offers the capability to select a tailored material solution based on the expected threat level commensurate with operational mission requirements. This ability to tailor the type and level of the protective system will result in optimized protection, thereby minimizing physiological and psychological burdens associated with the weight, bulk, thermal strain, and encumbrance of wearing CBRN protective equipment on the Warfighter and affording the lowest impact on the operational mission. UIPE 1 will be designed to permit efficient communications, be compatible with current and developmental CBRN protective component systems, and retain CBRN protection capability after exposure to petroleum, oils, lubricants, and other environmental contaminants. UIPE 1 may include hooded and non-hooded variants and will be compatible with current clothing and equipment, including load-bearing equipment, helmets, headwear, footwear, body cooling systems, and protective masks of the respective Service and Special Operational Forces.

UNCLASSIFIED
Page 18 of 56

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologica	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)
ID O. I.	MD A D/MAIO O	

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

Justification: FY16 procures 18,199 UIPE Increment 1 garments to meet Joint Service CBRN equipment requirements.

RDT&E Code B Item: 0603884BP/Proj IP4; 0604384BP/Proj IP5

IP4/UIPE: RDT&E; FY15 - 2.852M; FY16 - 4.217M; FY17 - 0.400M

IP5/UIPE: RDT&E FY14 and Prior - 6.751M; FY17 - 3.835M; FY18 - 4.197M; FY19 - 6.329M; FY20 - 1.799M; FY21 - 4.459M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

UIPE - Integrated DT/OT (Mar 2012 to Dec 2012)

UIPE - Milestone C / LRIP: Jun 2013

UIPE - Approved CPD: Jul 2013

UIPE - Operational Test & Evaluation (Sep 2013 to Dec 2013)

LI PHM001 - CB PROTECTION AND HAZARD MITIGATION

UIPE - Full Rate Production: Jan 2014

UIPE - SOCOM IOC: Mar 2016

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016 C	Chemical and Biologic	cal Defense Program		Date: Fe	ebruary 2015		
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Num PHM001 / CB PRO	ber / Title: ΓΕCTION AND HAZARE	) MITIGATION	MA0401 INTEGF	Imber / Title [D I / CBRN UNIF RATED PROTE BLE (UIPE)	ORM -	

Cost Elements	0 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost			RFP Issue Date
UIPE 1 Protective Garment <sup>(†)</sup>		2015	Tennessee Apparel Corporation / Tullahoma, TN	C / FFP	RDECOM, Natick, MA	Jan 2015 <sup>(1)</sup>	Nov 2015	10,728	0.510	Y	Feb 2011	
UIPE 1 Protective Garment <sup>(†)</sup>		2016	Tennessee Apparel Corporation / Tullahoma, TN	C / FFP	RDECOM, Natick, MA	Jan 2016 <sup>(2)</sup>	Apr 2016	18,199	0.517	Y	Feb 2011	

<sup>(†)</sup> indicates the presence of a P-21

## Footnotes:

<sup>(1)</sup> Opt 2

<sup>(2)</sup> Opt 3

xhi	ibit F	P-21, Pro	oducti	on Sc	hedul	e: PE	3 201	6 Che	emical	and	Biolog	gical [	Defen	se Pr	ogran	า							Date	: Feb	ruary	2015				
	•		Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:	1 -							HAZA	RD M	ITIGA	ATION	I	MA04	401 / :GRA	CBR TED	N UN PRO1	FOR	M -		
				)							Fiscal Y	ear 2015											Fiscal Ye	ar 2016						
	ACCEPT											C	alendar	Year 201	5								Calend	dar Year	2016					
ACCEPT							Α	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		
PE 1	1 Protec	tive Garment															,				,		·			·				
1	2015	CBDP	10.728	-	10.728				A -	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	.728						-
		SOCOM	10.728	-	10.728				A -	-	-	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	.728						_
1	2016	CBDP	18.199	-	18.199																Α -	-	-	1.272	2.000	2.000	2.000	2.000	2.000	6.927
		SOCOM	18.199	-	18.199																A -	-	-	1.272	2.000	2.000	2.000	2.000	2.000	6.927
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U L	A U G	S E P	B A L
	M F R #	M F R # FY PE 1 Protect 1 2015 condary tribution	Cost El (Units in 7)  M F R # FY SERVICE  PE 1 Protective Garment  1 2015 CBDP  condary tribution  1 2016 CBDP  condary SOCOM	Cost Elements (Units in Thousands)  M F R FY SERVICE QTY  PE 1 Protective Garment  1 2015 CBDP 10.728 condary tribution 10.728 1 2016 CBDP 18.199 condary SOCOM	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements	Cost Elements	P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Item   P-1 Line Ite	Cost Elements	Cost Elements	Cost Elements	Cost Elements	P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZA	P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD M	P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD MITIGA	P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD MITIGATION	P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD MITIGATION	P-1 Line Item Number / Title:	P-1 Line Item Number / Title:	P-1 Line   Item Number / Title:	Post   Process   P-1 Line Item Number / Title:	P-1 Line Item Number / Title:	P-1 Line   Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD MITIGATION   Item Number / Title:   DODIC]:   MA0401 / CBRN UNIFORM   INTEGRATED PROTECTION ENSEMBLE (UIPE)	

Арр	ropr	P-21, Pro	oducti										O.	NCL	433															
		riation /		on Sc	hedul	e: PE	3 2016	6 Chei	mical	and	Biolo	gical	Defer	nse P	rogra	m							Date	e: Feb	oruary	201	5			
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				ACCEPT										Calenda	r Year 20	)17								Caler	ndar Year	2018				
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UIPE 1	1 Protec	ctive Garment									'			_			'			'	'									
		CBDP	10.728	10.728	-																									<u>_</u>
Second Distribu		SOCOM	10.728	10.728	-																									.
1	2016	CBDP	18.199	11.272	6.927	2.000	2.000	2.000	.927																					-
Secona Distribu		SOCOM	18.199	11.272	6.927	2.000	2.000	2.000	.927																					
						0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J J	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	U U	A U G	S E P	B A L

Exhibit P-21, Production Schedule: PB 2016 Chemical and	Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: MA0401 / CBRN UNIFORM INTEGRATED PROTECTION ENSEMBLE (UIPE)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFF	2					Init	ial			Reo	rder	
Ref					ALT	ALT		Total	ALT	ALT		Total
#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
1	Tennessee Apparel											
	Corporation - Tullahoma, TN	1,700	3,000	5,000	-	9	7	16	-	3	3	6

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-3a, Individual Modification: PB 2016 Chemical and	Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Modification Number / Title: JN0014 / Collective Protection System Amphibious Backfit

Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
-	-	-	-	-	-	-	-	-	-	-	-
-	-	15.000	-	-	-	-	-	-	-	-	15.000
-	-	-	-	-	-	-	-	-	-	-	-
-	-	15.000	-	-	-	-	-	-	-	-	15.000
-	-	-	-	-	-	-	-	-	-	-	-
-	-	15.000	-	-	-	-	-	-	-	-	15.000
Resource Sum	mary rows are fo	or informational p	urposes only. Tl	ne corresponding	g budget request	s are documente	ed elsewhere.)	1	:		
-	-	-	-	-	-	-	-	-	-	-	-
=	-	-	=	-	-	-	-	-	-	-	-
	Years	Years FY 2014	Years         FY 2014         FY 2015           -         -         -           -         -         15.000           -         -         -           -         -         -           -         -         -           Resource Summary rows are for informational p         -	Years         FY 2014         FY 2015         Base           -         -         -         -           -         -         15.000         -           -         -         -         -           -         -         -         -           Resource Summary rows are for informational purposes only. The purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpose of the purpos	Years         FY 2014         FY 2015         Base         OCO           -         -         -         -         -         -           -         -         15.000         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           Resource Summary rows are for informational purposes only. The corresponding         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total           -         -         -         -         -           -         -         15.000         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           Resource Summary rows are for informational purposes only. The corresponding budget request           -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017           -         -         -         -         -         -         -         -           -         -         15.000         -         -         -         -         -           -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -           Resource Summary rows are for informational purposes only. The corresponding budget requests are documented and purposes only. The corresponding budget requests are documented and purposes.	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018           -         -         -         -         -         -         -         -           -         -         15.000         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           -         -         -         -         -         -         -         -         -           Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         <t< td=""><td>Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td></t<></td>	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td>Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td></t<>	Years         FY 2014         FY 2015         Base         OCO         Total         FY 2017         FY 2018         FY 2019         FY 2020         Complete           -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -

## **Description:**

The Collective Protection System (CPS) will be installed on LHD class ships (1-8) in the Combat Information Center (CIC), two medical spaces, and a casualty decontamination area. CPS Backfit efforts will include ship surveys, engineering design analysis, detail design Shipboard Installation Drawings (SIDs), development of modular installation packages, procurement of hardware, logistic warehousing and staging, and installation via Alteration Installation Teams (AITs). Procurement of government furnished equipment (GFE) is required. The CPS Backfit installation process is designed to maximize flexibility in procuring, receiving, warehousing, and assembling the necessary material and equipment to meet the challenges associated with changing ship availabilities. Each quantity denotes a protected zone.

Development	Status/Major Development Milestones	
Date	Title	Description
Sep 2015	LHD-8 (USS MAKIN ISLAND)	

Exhibit P-3a, Individual Modification: PE	3 2016 Che	mical and	Biological	Defense P	rogram				Date: Feb	ruary 2015	,	
Appropriation / Budget Activity / Budge 0300D / 03 / 1	t Sub Acti	vity:		tem Numb CB PROT		ND HAZAF	RD MITIGA	TION		ion Numbe Collective F us Backfit		System
Models of Systems Affected: LHD class	ships	Modifi	cation Typ	e: Force F	Protection		Re	lated RDT	&E PEs:			,
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Financial Plan	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)
Procurement												
Modification Item 1 of 1: Collective Protection System Amphibious Backfit												
B Kits												
Recurring												
Equipment	- 1 -	- 1 -	3 / 9.183	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	3 / 9.183
Subtotal: Recurring	- / -	- / -	3/9.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3/9.183
Subtotal: Collective Protection System Amphibious Backfit	- / -	- / -	3/9.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3/9.183
Subtotal: Procurement, All Modification Items	- / -	- / -	3/9.183	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 9.183
Support (All Modification Items)												
Other	- 1 -	- 1 -	- / 0.617	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- / 0.617
Subtotal: Support	- / -	- / -	- /0.617	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.617
Installation				-							-	
Modification Item 1 of 1: Collective Protection System Amphibious Backfit	- 1 -	- 1 -	4 / 5.200	- / -	- 1 -	- / -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	4 / 5.200
Subtotal: Installation	- / -	- / -	4 / 5.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.200

15.000

Total

Total Cost (Procurement + Support + Installation)

15.000

Exhibit P-3a, Individual Modification: PB 2016 Chemical and Biological Defense Program **Date:** February 2015 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Modification Number / Title: 0300D / 03 / 1 JN0014 / Collective Protection System PHM001 / CB PROTECTION AND HAZARD MITIGATION Amphibious Backfit Modification Item 1 of 1: Collective Protection System Amphibious Backfit Manufacturer Information Manufacturer Name: TBD Manufacturer Location: TBD Administrative Leadtime (in Months): 2 Production Leadtime (in Months): 10 FY 2014 FY 2015 FY 2016 FY 2018 **Dates** FY 2017 FY 2019 FY 2020 Contract Dates Mar 2015

Nov 2015

#### Installation Information

**Delivery Dates** 

Method of Implementation: Alteration Installation Teams (AITs).

				FY 2016	FY 2016	FY 2016					То	
	Prior Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Installation Cost	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)	Qty (Each) I Total Cost (\$ M)
Prior Years	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- / -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2014	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2015	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2016	- 1 -	- 1 -	4 / 5.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4 / 5.200
FY 2017	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2018	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2019	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
FY 2020	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
To Complete	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -
Total	- 1 -	- 1 -	4 / 5.200	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	- 1 -	4 / 5.200

#### Installation Schedule

			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			FY 2	2019			FY 2	020			
	PYS	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	тс	Tot
In	28	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Out	28	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION
REMAINS POUCH (CHRP)

ID Code (A=Service Ready, B=Not Service Ready)	:					MDAP/MA	IS Code:					
_	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	3.365	1.542	-	1.542	-	-	-	-	-	4.907
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	3.365	1.542	-	1.542	-	-	-	-	-	4.907
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	3.365	1.542	-	1.542	-	-	-	-	-	4.907
(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		<u> </u>		·
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	F	Prior Years	S		FY 2014			FY 2015		FY	2016 Bas	e	F۱	′ 2016 OC	0	FY	2016 Tota	al
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost											'					,	,	
Recurring Cost																	-	
CHRP System	-	-	0.000	-	-	-	0.611	450	0.275	0.610	1,050	0.641	-	-	-	0.610	1,050	0.64
CHRP Variant E System	-	-	0.000	-	-	-	4.425	113	0.500	-	-	-	-	-	-	-	-	-
First Article/Production Testing	-	-	0.000	-	-	-	-	-	1.074	-	-	0.586	-	-	-	-	-	0.586
Government Furnished Materials	-	-	0.000	-	-	-	-	-	0.505	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	2.354	-	-	1.227	-	-	-	-	-	1.22
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	2.354	-	-	1.227	-	-	-	-	-	1.227
Support Cost				·													*	
Program Management Support	-	-	0.000	-	-	-	-	-	1.011	-	-	0.315	-	-	-	-	-	0.315
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	1.011	-	-	0.315	-	-	-	-	-	0.315
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	3.365	-	-	1.542	-	-	-	-	-	1.542

P-1 Line #75

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]:
JD0063 / CONTAMINATED HUMAN

REMAINS POUCH (CHRP)

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready) :

	MD	AP	/MAIS	Code:
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ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :						_	IVI	DAP/IVIAIS	coue.							
		FY 2017			FY 2018					FY 2020		To	o Comple	te	-	Total Cost	t	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Hardware Cost		`																
Recurring Cost	_																	
CHRP System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.916
CHRP Variant E System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.500
First Article/Production Testing	-	-	_	-	-	-	-	-	-	-	-	_	-	-	-	-	-	1.660
Government Furnished Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.505
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.581
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.581
Support Cost		,											'					
Program Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.326
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.326
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	4.907

#### Remarks:

The Contaminated Human Remains Pouch (CHRP) will procure systems with the capability to protect personnel handling and processing human remains contaminated with Chemical Biological Radiological (CBR) contamination for safe intra-theater transport. The CHRP provides the warfighter the capability to safely handle, transport, and temporarily store or inter contaminated human remains in a theater of operations.

Justification: FY16 funds will procure 1,050 CHRP systems.

P-1 Line #75

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION
OF SYSTEMS (DFoS)

ID Code (A=Service Ready, B=Not Service Ready)						MDAP/MA	IS Code:					
	Prior			FY 2016	FY 2016	FY 2016					То	
Resource Summary	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	3.450	7.254	-	7.254	10.037	12.621	20.817	15.874	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	3.450	7.254	-	7.254	10.037	12.621	20.817	15.874	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	3.450	7.254	-	7.254	10.037	12.621	20.817	15.874	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	e corresponding	budget request	s are documente	ed elsewhere.)	•			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost						,									,			
Recurring Cost	_																	
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DFOS GPD - GPD - General Purpose Decontaminants	-	-	0.000	-	-	-	0.030	28,336	0.850	0.030	73,296	2.199	-	-	-	0.030	73,296	2.
DFOS JSEW - JSEW - Equipment Decontamination			0.000				0.011	190,379	1.999	0.011	204 500	3.062				0.011	291,588	2.0
Wipes	-	-			-	-	0.011	190,379			291,588		-	-	-	0.011	291,588	
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	2.849	-	-	5.261	-	-	-	-	-	5.
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	2.849	-	-	5.261	-	-	-	-	-	5.
Support Cost																		
GPD Production Lot Testing	-	-	0.000	-	-	-	-	-	0.047	-	-	0.150	-	-	-	-	-	0
GPD Program Management Support	-	-	0.000	-	-	-	-	-	0.103	-	-	0.268	-	-	-	-	-	0.
JSEW Production Lot Testing	-	-	0.000	-	-	-	-	-	0.200	-	-	0.380	-	-	-	-	-	0
JSEW Engineering Support	-	-	0.000	-	-	-	-	-	-	-	-	0.720	-	-	-	_	-	0.

UNCLASSIFIED
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**UNCLASSIFIED** Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program **Date:** February 2015 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 0300D / 03 / 1 JD0050 / DECONTAMINATION FAMILY PHM001 / CB PROTECTION AND HAZARD MITIGATION OF SYSTEMS (DFoS) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost** Qty Qty Cost Qty Cost Qty Cost Qty Cost Qty Cost Cost **Cost Elements** (Each) (Each) (\$ M) (Each) (Each) (Each) (Each) (\$ K) (\$ K) (\$ M) JSEW Program Management Support 0.000 0.251 0.475 0.475 Subtotal: Support Cost 0.000 0.601 1.993 1.993 -----------Gross/Weapon System Cost 0.000 3.450 7.254 7.254

		FY 2017		FY 2018			FY 2019			FY 2020			To	o Complet	e	Total Cost		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Tota Cos									
Hardware Cost																	'	
Recurring Cost																		
Prior/Future combined efforts	-	-	10.037	-	-	12.621	-	-	20.817	-	-	15.874		Continuing			Continuing	
DFOS GPD - GPD - General Purpose Decontaminants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DFOS JSEW - JSEW - Equipment Decontamination Wipes	-	-	-	-	-	-		-	-	,	-	-	-		-	_	-	
Subtotal: Recurring Cost	-	-	10.037	-	-	12.621	-	-	20.817	-	-	15.874		Continuing			Continuing	
Subtotal: Hardware Cost	-	-	10.037	-	-	12.621	-	-	20.817	-	-	15.874		Continuing			Continuing	
Support Cost																		
GPD Production Lot Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GPD Program Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSEW Production Lot Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSEW Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	
JSEW Program Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	_	-	10.037	_	_	12.621	_	_	20.817	_	_	15.874		Continuing			Continuing	

UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: JD0050 / DECONTAMINATION FAMILY OF SYSTEMS (DFoS)
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
Remarks:	taminant (CPD) Program will provide thorough and operational decontamination	conshilition for Hardened Military Equipment (HME)

The Decontamination Family of Systems (DFoS) - General Purpose Decontaminant (GPD) Program will provide thorough and operational decontamination capabilities for Hardened Military Equipment (HME), to include tactical vehicles, shipboard surfaces, crew-served weapons, and individual weapons, in hostile and non-hostile environments where it is reasonable to expect chemical, biological, radiological, and nuclear (CBRN) and Non-Traditional Agents (NTA) weapons will be employed or Toxic Industrial Materials (TIMs) may be encountered. The GPD will be employed within the integrated battle space as a means to decontaminate hazards posing threats to military personnel and operations including peacekeeping, stability and support, or consequence management operations. The GPD will be applied directly to the contaminated surface and be capable of reducing/neutralizing Chemical and Biological (CB) contamination to thorough levels within thirty (30) minutes of application. The GPD will be compatible with hardened materials consistent with those found on a Detailed Equipment Decontamination (DED) line. The GPD will be safe, suitable and compatible with HME and be operable in all operational environments that have been exposed to CB contamination.

The The Decontamination Family of Systems (DFoS) - Joint Service Equipment Wipe (JSEW) Program will provide Warfighters with an immediate/operational decontamination capability for sensitive and non-sensitive equipment that has been exposed to chemical agents/contamination. There is currently no documented decontamination capability that is non-destructive to sensitive equipment. The JSEW will be applied directly to contaminated sensitive and non-sensitive equipment and will be capable of removing gross contamination within five minutes following application. The JSEW will provide the means to minimize or negate the vulnerability to and effects of chemical attacks for peacekeeping, stability and support or consequence management operations.

Justification: FY16 funds will procure 73,300 gallons of GPD chemical and biological (CB) agent thorough decontaminants for hardened military equipment and 291,619 JSEW chemical agent equipment decontamination wipes for sensitive and non-sensitive equipment.

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 PHM001 / CB PROTECTION AND HAZARD MITIGATION JX0005 / DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : B **FY 2016 Prior FY 2016 FY 2016** To **Resource Summary FY 2014** FY 2015 000Total FY 2017 **FY 2018 FY 2019** FY 2020 Years Base Complete Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 6.412 0.185 0.185 0.185 0.185 3.848 10.882 Continuing Continuing Less PY Advance Procurement (\$ in Millions) \_ Net Procurement (P1) (\$ in Millions) 0.000 6.412 0.185 0.185 0.185 0.185 3.848 10.882 Continuing Continuing \_ Plus CY Advance Procurement (\$ in Millions) \_ Total Obligation Authority (\$ in Millions) 0.000 6.412 0.185 0.185 0.185 0.185 3.848 10.882 Continuina Continuina (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) \_ Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost** Qty **Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Cost Qty Cost Cost Cost **Cost Elements** (\$ M) (Each) (\$ M) (Each) (\$ M) (\$ M) (\$ M) (Each) (Each) (\$ M) (\$ K) (\$ K) (\$ K) (Each) (\$ K) (Each) (\$ K) (\$ K) Hardware Cost Recurring Cost Prior/Future combined efforts VAC BOT -Consistency Lot Production 0.000 6.227 Subtotal: Recurring Cost 0.000 \_ 6.227 \_ \_ Subtotal: Hardware Cost 0.000 6.227 Package Fielding Cost Recurring Cost Vaccinia Immune Globulin-Support Costs 0.000 0.185 0.185 0.185 Subtotal: Recurring Cost 0.000 0.185 0.185 0.185 --\_ ------Subtotal: Package Fielding 0.185 Cost 0.000 0.185 0.185 Gross/Weapon System 0.000 6.412 0.185 0.185

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]:
JX0005 / DOD BIOLOGICAL VACCINE
PROCUPEMENT (VACCINES)

Date: February 2015

														PROCU	KEIVIEIN	I (VACC	IINES)	
ID Code (A=Service Rea	dy, B=Not Servi	ice Ready) : <b>E</b>	3						MI	DAP/MAIS	Code:							
		FY 2017			FY 2018			FY 2019	,		FY 2020		To	o Complet	e		Total Cost	t .
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Hardware Cost																		1
Recurring Cost	_																	
Prior/Future combined efforts	-	-	0.185	-	-	0.185	-	-	3.848	-	-	10.882	2	Continuing			Continuing	
VAC BOT - Consistency Lot Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.185	-	-	0.185	-	-	3.848	-	-	10.882	?	Continuing			Continuing	
Subtotal: Hardware Cost	-	-	0.185	-	-	0.185	-	-	3.848	-	-	10.882	?	Continuing			Continuing	
Package Fielding Cost																		
Recurring Cost																		
Vaccinia Immune Globulin-Support Costs	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	_
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Package Fielding Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	_	-	0.185	_	-	0.185	_	_	3.848	-	-	10.882	!	Continuing			Continuing	

#### Remarks:

Prior to FY 2015, the DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES) program was reported under CBDP line item (BLIN) MA0800 - JOINT BIO DEFENSE PROGRAM (MEDICAL)

The biological vaccine procurement program is critical for national defense. These products directly support the Secretary of Defense program to maintain a DoD capability to acquire and stockpile adequate quantities of all Biological Warfare (BW) vaccines to protect the programmed force against validated BW agents. Items currently in the stockpile are the FDA licensed Anthrax Vaccine Adsorbed (AVA), Smallpox vaccine, and Vaccinia Immune Globulin Intravenous (VIGIV). Funding supports vaccine and licensed biologic production, quality assurance and control, equipment validation, process change management, documentation control, and all FDA license maintenance and post-approval commitments (Phase 4 clinical trials). The annual vaccination program for the Services is funded by the Defense Health Program.

Justification: FY15 and FY16 funds procure the biologic VIGIV support for shipping costs associated with emergency use product. Funds are also required for the Recombinant Botulinum A/B Vaccine Program to manufacture consistency lots at the new Contract Manufacturing Organization. These consistency lots will be fielded to support IOC.

RDT&E Code B Item: 0603884BP/Proj MB4; 0604384BP/Proj MB5

MB4/VAC BOT: RDT&E FY14 and Prior - 106.426M; FY21 - 14.084M

MB4/VACCINES: RDT&E FY14 and Prior - 59.662M

MB5/VAC BOT: RDT&E FY14 and Prior - 236.825M; FY15 - 52.562M; FY16 - 16.774M; FY17 - 13.607M; FY18 - 37.625M; FY19 - 49.633M; FY20 - 46.732M MB5/VAC PLG: RDT&E FY14 and Prior - 313.677M; FY15 - 36.214M; FY16 - 17.498M; FY17 - 47.298M; FY18 - 43.739M; FY19 - 10.324M; FY20 - 9.659M

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologic	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: JX0005 / DOD BIOLOGICAL VACCINE PROCUREMENT (VACCINES)
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
MB5/VACCINES: RDT&E FY14 and Prior - 74.717M	·	

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]:

PHM001 / CB PROTECTION AND HAZARD MITIGATION

JP1111 / JOINT EXPEDITIONARY
COLLECTIVE PROTECTION (JECP)

ID Code (A=Service Ready, B=Not Service Ready):

MDAP/MAIS Code:

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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	15.898	5.864	-	5.864	14.381	14.037	26.020	25.418	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	15.898	5.864	-	5.864	14.381	14.037	26.020	25.418	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	15.898	5.864	-	5.864	14.381	14.037	26.020	25.418	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	e corresponding	g budget request	s are documente	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

	P	rior Years	3	FY 2014			FY 2015		FY	' 2016 Bas	se	F۱	/ 2016 OC	0	FY	2016 Tot	al	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost							,											
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tent Kit 2 <sup>(†)</sup>	-	-	0.000	-	-	-	143.857	7	1.007	146.333	12	1.756	-	-	-	146.333	12	1.7
Structure Kit - Improved <sup>(†)</sup>	-	-	0.000	-	-	-	105.333	12	1.264	107.167	6	0.643	-	-	-	107.167	6	0.6
STANDALONE SHELTER - Stand Alone - Large <sup>(†)</sup>	-	-	0.000	-	-	-	232.826	23	5.355	236.667	9	2.130	-	-	-	236.667	9	2.1
STANDALONE SHELTER - GFE Generators	-	-	0.000	-	-	-	29.739	23	0.684	30.222	9	0.272	-	-	-	30.222	9	0.2
TRANSPORT ISLOLATION SYSTEM - Isolation Modules <sup>(†)</sup>	-	-	0.000	-	-	-	141.682	22	3.117	-	_	-	-	_	-	-	-	
Spares	-	-	0.000	-	-	-	-	-	0.084	-	-	0.048	-	-	-	-	-	0.0
Engineering Changes/ Refurbish (TIS)	-	-	0.000	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	13.011	-	-	4.849	-	-	-	-	-	4.8
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	13.011	-	-	4.849	-	-	-	-	-	4.8

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: JP1111 / JOINT EXPEDITIONARY 0300D / 03 / 1 PHM001 / CB PROTECTION AND HAZARD MITIGATION COLLECTIVE PROTECTION (JECP) MDAP/MAIS Code: ID Code (A=Service Ready, B=Not Service Ready) : Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 **FY 2015 FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total **Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost** Qty **Unit Cost** Qty Qty Cost Qty Cost Qty Cost Qty Cost Cost Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) Logistics Cost Recurring Cost 0.000 1.121 Systems Engineering -Technical Data 0.000 0.001 0.001 0.001 Subtotal: Recurring Cost 0.000 1.122 \_ 0.001 \_ -0.001 Subtotal: Logistics Cost 0.000 1.122 0.001 0.001 Support Cost Program Management and Support 0.000 1.732 0.961 0.961 Engineer Changes/ Modifications 0.000 0.033 0.053 0.053 0.000 1.765 1.014 Subtotal: Support Cost --\_ 1.014 Gross/Weapon System Cost 0.000 15.898 5.864 5.864 FY 2017 FY 2018 FY 2019 FY 2020 To Complete **Total Cost** Total Total Total Total Total Total **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qtv Cost Cost Elements (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) Hardware Cost Recurring Cost Prior/Future combined Continuina Continuina efforts 14.381 14.037 26.020 25.418 Tent Kit 2<sup>(†)</sup> \_ Structure Kit -Improved<sup>(†)</sup> STANDALONE SHELTER - Stand Alone - Large(†) STANDALONE SHELTER - GFE Generators **TRANSPORT** ISLOLATION SYSTEM - Isolation Modules<sup>(†)</sup> Spares

LI PHM001 - CB PROTECTION AND HAZARD MITIGATION Chemical and Biological Defense Program

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P-1 Line #75

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]:
JP1111 / JOINT EXPEDITIONARY
COLLECTIVE PROTECTION (JECP)

Date: February 2015

														OOLLL	/ I I V L I	INOTEOT	1011 (02	01 )
ID Code (A=Service Read	dy, B=Not Serv	ice Ready) :							M	DAP/MAIS	Code:							
		FY 2017			FY 2018			FY 2019	'		FY 2020		Te	o Complet	te	•	Total Cost	ŧ
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Engineering Changes/ Refurbish (TIS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.381	-	-	14.037	-	-	26.020	-	-	25.418		Continuing	,		Continuing	
Subtotal: Hardware Cost	-	-	14.381	-	-	14.037	-	-	26.020	-	-	25.418		Continuing			Continuing	
Logistics Cost								,				•						
Recurring Cost																		
Systems Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Technical Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Logistics Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Cost												•			,			
Program Management and Support	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-
Engineer Changes/ Modifications	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System	_	_	14.381	_	_	14.037	_	_	26.020	_	_	25.418		Continuing	,		Continuing	

#### Remarks:

Prior to FY 2015, the JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP) program was reported under CBDP line item (BLIN) PA1600 - COLLECTIVE PROTECTION

Joint Expeditionary Collective Protection (JECP) provides the Joint expeditionary forces a collective protection (CP) capability which is lightweight, compact, modular, and affordable. The JECP family of systems (FoS) include tent kits, structure kits, and standalone shelters that allow the application of CP to transportable soft-side shelters, enclosed spaces of opportunity, and remote austere locations as a standalone resource. JECP is capable of protecting personnel groups of varying size, unencumbered by individual protective equipment (IPE), from effects of chemical and biological (CB) agents, radiological (R) particles, toxic industrial materials (TIMs), heat, dust, and sand.

Tent kits consist of a CB protective liner, airlock system, and a CB filtration blower system. Tent Kit-1 interfaces with the US Navy's Base-X 303 and 305 general purpose tents and all organic Base-X equipment including the environmental control unit and power systems. Tent Kit-2 interfaces with the Air Force Small Shelter System (ASSS) general purpose tents and all organic ASSS equipment including the environmental control unit and power systems.

Structure kits may include a floorless CB protective liner or a CB protective liner with a floor, an airlock system, and a CB filtration blower system. Structure Kit-Improved (SK-I) is retrofitted to structures such as office buildings, warehouses, or hangars that provide coherent walls and roofing, ventilation systems, doors and windows, and power. Structure Kit-Unimproved (SK-UI)/Standalone Shelter System-Medium (SA-M) are retrofitted to structures such as huts, sheds or other rudimentary structures (SK-UI) that do not have any available electrical power, but provide environmental and other basic elemental protection. This configuration uses a passive CP system relying on natural airflow through protective panels.

Standalone large shelter (SA-L) is an all encompassing active CP shelter for multi-service use for up to 20 people. SA-L provides a general purpose tent system, chemical and biological (CB) protective liner, an airlock system, a CB filtration blower system, an environmental control unit and all necessary power and ancillary equipment.

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological	Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: JP1111 / JOINT EXPEDITIONARY COLLECTIVE PROTECTION (JECP)

ID Code (A=Service Ready, B=Not Service Ready) :

MDAP/MAIS Code:

The Transport Isolation System (TIS) provides an aeromedical evacuation capability to transport up to 12 patients that have contagious and/or infectious diseases (e.g. Ebola) while protecting the aircrew, airframe and all other support personnel from infection. C-17 and C-130 aircraft will provide air transport of the TIS and personnel. The users of the TIS will be USTRANSCOM. TIS will be leveraged in support of future CBRN protection technologies.

Justification: FY16 procures 27 JECP systems in the following configurations: 12 tent kit 2s, 6 shelter kit-improved, and 9 standalone large shelters. The employment of JECP is a strategic deterrence against enemy use of CBR agents or TIMs, and will reduce the need for personnel and equipment decontamination.

RDT&E Code B Item: 0604384BP/Proj CO5

CO5/JECP: RDT&E FY14 and Prior - 91.550M; FY15 - 4.617M; FY16 - 7.361M

DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES

JECP - Capability Production Document (CPD): Jan 2013

JECP - Milestone C LRIP Decision: Feb 2013

JECP - Low-Rate Initial Production Contract Option: Sep 2013

JECP - Production Verification Testing (PVT) (Apr 2014 to Apr 2015)

JECP - Multi-service Operational Test and Evaluation I (Apr 2015 to May 2015)

JECP - Multi-service Operational Test and Evaluation II (Jan 2016 to Mar 2016)

JECP - Full Rate Production Decision Review: Oct 2016

JECP - Initial Operational Capability: Sep 2021

JECP - Full Operational Capability: Sep 2030

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

COLLECTIVE PROTECTION (JECP)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	Date Revision	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)		Now?	Available	Date
Tent Kit 2 <sup>(†)</sup>		2015	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Apr 2015 <sup>(3)</sup>	Dec 2015	7	143.857	Y		Feb 2008
Tent Kit 2 <sup>(†)</sup>		2016	Leidos / Abingdon, MD	C/FFP	Aberdeen, MD	Nov 2015	Jun 2016	12	146.333	Υ		
Structure Kit - Improved <sup>(†)</sup>		2015	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Apr 2015 <sup>(4)</sup>	Feb 2016	12	105.333	Y		Feb 2008
Structure Kit - Improved <sup>(†)</sup>		2016	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Nov 2015	Jun 2016	6	107.167	Υ		
STANDALONE SHELTER - Stand Alone - Large <sup>(†)</sup>		2015	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Apr 2015 <sup>(5)</sup>	Oct 2015	23	232.826	Y		Feb 2008
STANDALONE SHELTER - Stand Alone - Large <sup>(†)</sup>		2016	Leidos / Abingdon, MD	C / FFP	Aberdeen, MD	Nov 2015	Apr 2016	9	236.667	Y		
TRANSPORT ISLOLATION SYSTEM - Isolation Modules <sup>(†)</sup>		2015	Production Products Inc. / St Louis, MO	SS/FFP	Natick, MA	Nov 2014	Jan 2015	22	141.682	Y		Oct 2014

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

<sup>(3)</sup> - LRIP

<sup>(5)</sup> - LRIP

<sup>&</sup>lt;sup>(4)</sup> - LRIP

	P-21, Pr	oducti	on Sc	hodul	o. DE	201	6 Cha	mical	and	Riolo	nical I	Jofon	co Dr	aran								Date	· Feb	ruary	2015				
Appropi	riation /									P-1	Line	Item	Num	ber /	Title:			_				Item	Num	ber /	Title	[DOD			
0300D /	03 / 1									PH	M001	/ CB	PRO	TECT	ION A	AND H	HAZA	RD M	ITIGA	AOIT	I	1				ECT			')
		lements Thousands)	1							Fiscal Y	ear 2015											Fiscal Ye	ar 2016						
			ACCEPT	T								C	Calendar	Year 201	5								Calend	dar Year	2016				
O F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Tent Kit 2																													
1 2015		.007	-	.007							Α -	-	-	-	-	-	-	-	.003	.004									_
Secondary Distribution	AF	.007	-	.007							A -	-	-	-	-	-	-	-	.003	.004									
1 2016	CBDP	.012	-	.012														A -	-	-	-	-	-	-	.002	.005	.005		-
Secondary Distribution	AF	.012	-	.012														A -	-	-	-	-	-	-	.002	.005	.005		_
Structure Kit		, ,															1												
2 2015		.012	-	.012							Α -	-	-	-	-	-	-	-	-	-	.003	.003	.003	.003					_
Secondary	ARMY	.009	-	.009							Α -	-	-	-	-	-	-	-	-	-	.003	.003	.003	-					-
Distribution	AF	.003	-	.003							Α -	-	-	-	-	-	-	-	-	-	-	-	-	.003					-
2 2016		.006	-	.006														A -	-	-	-	-	-	-	.006				<u> </u>
Secondary Distribution	ARMY AF	.004	-	.004														A -	-	-	-	-	-	-	.004				-
STANDALON	IE SHELTER	- Stand Alo	ne - Large	,												l	l												
3 2015	CBDP	.023	-	.023							Α -	-	-	-	-	-	.004	.004	.004	.005	.002	.002	.002				-		-
Secondary	ARMY	.017	-	.017							Α -	-	-	-	-	-	.004	.004	.004	.005	-	-	-						-
Distribution	NAVY	.006	-	.006							Α -	-	-	-	-	-	-	-	-	-	.002	.002	.002						-
3 2016	CBDP	.009	-	.009														A -	-	-	-	-	.005	.004					-
Secondary Distribution	ARMY	.009	-	.009														A -	-	-	-	-	.005	.004					-
TRANSPORT	ISLOLATION	SYSTEM	- Isolation	Modules																									
4 2015	CBDP	.022	-	.022		A -	-	.021	.001																				-
Secondary Distribution	AF	.022	-	.022		A -	-	.021	.001																				-
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	JUN	J J	A U G	S E P	O C T	N O V	D E C	J A N	FEB	M A R	A P R	M A Y	JUN	N N	A U G	S E P	B A L

LI PHM001 - CB PROTECTION AND HAZARD MITIGATION Chemical and Biological Defense Program

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P-1 Line #75

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

JP1111 / JOINT EXPEDITIONARY
COLLECTIVE PROTECTION (JECP)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFI	र					Ini	tial			Reo	rder	
Re	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
	1 Leidos - Abingdon, MD	5	20	45	-	6	5	11	-	1	5	6
	2 Leidos - Abingdon, MD	5	20	45	-	6	5	11	-	1	5	6
	3 Leidos - Abingdon, MD	5	20	45	-	6	5	11	-	1	5	6
	4 Production Products Inc St Louis, MO	12	20	24	-	1	1	2	-	-	-	-

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 0300D / 03 / 1

P-1 Line Item Number / Title:

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]: JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)

ID Code (A=Service Ready, B=Not Service Ready) :

	MD	AP	/MAIS	Code:
--	----	----	-------	-------

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	61.131	60.777	-	60.777	55.118	48.982	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	61.131	60.777	-	60.777	55.118	48.982	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	61.131	60.777	-	60.777	55.118	48.982	-	-	Continuing	Continuing
(The following	Resource Sumi	mary rows are fo	or informational p	ourposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)		:		i
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

				FY 2014			FY 2015		FY	/ 2016 Bas	se	FY	/ 2016 OC	0	FY	2016 Tot	al	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JSGPM - Ground/Ship (M50) <sup>(†)</sup>	-	-	0.000	-	-	-	0.249	144,000	35.856	0.255	156,600	39.933	-	-	-	0.255	156,600	39.933
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	35.856	-	-	39.933	-	-	-	-	-	39.933
Subtotal: Hardware Cost	-	-	0.000	-	-	-	-	-	35.856	-	-	39.933	-	-	-	-	-	39.933
Support Cost	,																	
Engineering Support	-	-	0.000	-	-	-	-	-	2.830	-	-	2.100	-	-	-	-	-	2.100
System Fielding Support (Total Package Fielding (TPF), First Destination Transportation (FDT) & N	-	-	0.000	-	-	-	-	-	4.756	-	-	2.794	-	-	-	-	-	2.794
Initial Spares	-	-	0.000	-	-	-	-	-	10.926	-	-	9.850	-	-	-	-	-	9.850
Gov't Program Management	-	-	0.000	-	-	-	-	-	6.113	-	-	5.100	-	-	-	-	-	5.100
Production Acceptance Test	-	-	0.000	-	-	-	-	-	0.650	-	-	1.000	-	-	-	-	-	1.000
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	25.275	-	-	20.844	-	-	-	-	-	20.844
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	-	61.131	-	-	60.777	-	-	-	-	-	60.777

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P-1 Line #75

202

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

0300D / 03 / 1

PHM001 / CB PROTECTION AND HAZARD MITIGATION

Item Number / Title [DODIC]: JI0003 / JOINT SERVICE GENERAL

203

PURPOSE MASK (JSGPM)

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:

		FY 2017			FY 2018			FY 2019			FY 2020		T	o Complet	e		Total Cost	
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Prior/Future combined efforts	-	-	55.118	-	-	48.982	-	-	-	-	-	-		Continuing			Continuing	
JSGPM - Ground/Ship (M50) <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-
Subtotal: Recurring Cost	-	-	55.118	-	-	48.982	-	-	-	-	-	-		Continuing			Continuing	
Subtotal: Hardware Cost	-	-	55.118	-	-	48.982	-	-	-	-	-	-		Continuing			Continuing	
Support Cost	,																	
Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System Fielding Support (Total Package Fielding (TPF), First Destination Transportation (FDT) & N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gov't Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	55.118	-	-	48.982	-	-	-	-	-	-		Continuing			Continuing	

#### Remarks:

Prior to FY 2015, the JOINT SERVICE GENERAL PURPOSE MASK (JSGPM) program was reported under CBDP line item (BLIN) GP1000 - INDIVIDUAL PROTECTION

The Joint Service General Purpose Mask (JSGPM) is a lightweight, protective Nuclear Biological Chemical (NBC) mask system. It incorporates state-of-the-art technology to protect the U.S. Joint Forces from anticipated threats. The JSGPM provides above-the-neck, head/eye/respiratory protection against Chemical and Biological (CB) agents, radioactive particles, and Toxic Industrial Materials (TIMs). The mask design is optimized to minimize impact on the wearer's performance, and to maximize its ability to interface with fielded and future Joint Service equipment and protective clothing. The JSGPM mask system replaces the M40/M42 series of masks for Army and Marine ground and combat vehicle operations and the MCU-2/P series for Air Force and Navy ground and shipboard applications. In addition, the JSGPM replaces the M45 mask in the Land Warrior program. This can significantly reduce the number of masks that will have to be logistically supported by the Department of Defense. The M50 is the ground/ship version of the JSGPM. The M51 is the combat vehicle crewman version of the JSGPM. The M53 is the special operation version of the JSGPM.

Justification: FY16 funds support procurement of 156,600 JSGPM Ground/Ship (M-50) masks to support Army requirements.

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2016	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: JI0003 / JOINT SERVICE GENERAL PURPOSE MASK (JSGPM)

Coat Flamoute	0 0	FY	Contractor and Location	Method/Type or	Lacation of BCO	Award	Date of First	Qty	Unit Cost	Specs Avail	Revision	RFP Issue
Cost Elements	О	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)	NOW?	Available	Date
JSGPM - Ground/Ship (M50) <sup>(†)</sup>		2015	AVON Protection Systems Inc. / Cadillac, MI	C / FPIF	RDECOM, APG, MD	Dec 2014 <sup>(6)</sup>	Mar 2015	144,000	0.249	Υ		
JSGPM - Ground/Ship (M50) <sup>(†)</sup>		2016	AVON Protection Systems Inc. / Cadillac, MI	C / FPIF	RDECOM, APG, MD	Dec 2015 <sup>(7)</sup>	Mar 2016	156,600	0.255	Υ		

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

<sup>(6)</sup> Opt 4

<sup>(7)</sup> Opt 4

Exhibit I	P-21, Pro	oducti	on Sc	hedul	e: PE	3 201	6 Che	emica	l and	Biolog	gical E	)efens	e Pro	ogran	1							Date	: Feb	ruary	2015	,			
<b>Appropr</b> 0300D /	r <b>iation</b> / 1 03 / 1	Budge	t Acti	vity /	Budç	get S	ub Ac	tivity	<b>:</b>			Item I / CB F					HAZA	RD M	IITIGA	AOITA	I	J1000	03 / J	OINT	Title SER' SK (J	VICE	GĒN	ERAL	-
		ements housands)								Fiscal Y	ear 2015											Fiscal Ye	ar 2016						
			ACCEPT									Ca	alendar	Year 201	5								Calen	dar Yea	2016				
M O F C R O # FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JSGPM - Gro	und/Ship (M50	))								'	,								,										
1 2015	CBDP	144.000	-	144.000			Α -	-	-	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000								-
Secondary Distribution	ARMY	144.000	-	144.000			A -	-	-	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000								-
1 2016	CBDP	156.600	-	156.600															Α -	-	-	13.050	13.050	13.050	13.050	13.050	13.050	13.050	65.2
Secondary Distribution	ARMY	156.600	-	156.600															A -	-	-	13.050	13.050	13.050	13.050	13.050	13.050	13.050	65.2
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U I	A U G	S E P	B A

											UN	ICL	ASS	IFIE	D														
P-21, Pro	oducti	on Sc	hedu	le: PB	2016	3 Che	mical	and l	Biolo	gical [	Defen	se P	rogra	ım								Dat	t <b>e</b> : Fe	bruar	y 201	5			
	Budge	et Acti	vity /	Budg	et Su	ıb Ac	tivity:	ı		-		-		-		ID HA	λZΑI	RD N	ЛITIG	ATIO	N	JIO	003 / 、	JOIN	T SEF	RVICE	GĒN		.L
		)							Fiscal \	/ear 2017												Fiscal	Year 2018	3					
												Calenda	ar Year 2	017					_				Cale	ndar Ye	ar 2018			_	
SERVICE	PROC QTY	TO 1 OCT 2016	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	Ŋ	J U	A U G		E	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
und/Ship (M50	0)												'					,											
	144.000	144.000	-																										-
	144.000	144.000	-						ı																				-
	156.600	91.350	65.250																										-
ARMY	156.600	91.350	65.250	13.050	13.050	13.050	13.050	13.050																					-
				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J L				O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	n n	A U G	S E P	B A L
	Cost E (Units in 1	Cost Elements (Units in Thousands,  SERVICE PROC SERVICE QTY  und/Ship (M50)  CBDP 144.000  ARMY 144.000  CBDP 156.600  ARMY	Cost Elements (Units in Thousands)    Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)	Cost Elements (Units in Thousands)   P-1	Cost Elements (Units in Thousands)	P-21, Production Schedule: PB 2016 Chemical and Biological Defendation / Budget Activity / Budget Sub Activity:    Cost Elements (Units in Thousands)	P-21, Production Schedule: PB 2016 Chemical and Biological Defense P   Fiation / Budget Activity / Budget Sub Activity: P-1 Line Item Nur   PHM001 / CB PRO  Cost Elements (Units in Thousands)    Cost Elements (Units in Thousands)	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Programation / Budget Activity / Budget Sub Activity:    Cost Elements (Units in Thousands)	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  Fiation / Budget Activity / Budget Sub Activity:  O3 / 1     P-1 Line Item Number / Title PHM001 / CB PROTECTION   PHM001 / CB PROTECTION   PHM001 / CB PROTECTION   PROC OCT AS OF C O E A E A P A U U U U SERVICE QTY 2016 1 OCT T V C N B R R Y N L G	P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AN	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  riation / Budget Activity / Budget Sub Activity:  03 / 1    P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HA   Cost Elements	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  Fiation / Budget Activity / Budget Sub Activity:  O3 / 1     P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZA    PHM001 / CB PROTECTION AND HAZA    PHM001 / CB PROTECTION AND HAZA    PHM001 / CB PROTECTION AND HAZA    PHM001 / CB PROTECTION AND HAZA    PHM001 / CB PROTECTION AND HAZA    Calendar Year 2017	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  Fiation / Budget Activity / Budget Sub Activity:  O3 / 1     P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD N   P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   PHM001 / CB PROTECTION AND HAZARD N   P	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program  riation / Budget Activity / Budget Sub Activity: 03 / 1  P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIG.  Cost Elements (Units in Thousands)  Fiscal Year 2017  PRIOR PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D ACCEPT PRIOR TO 1 DUE O N D A B R R Y N L G P T V C O C N B R R Y N L G P T V C O C O C N B R R Y N L C D D D D D D D D D D D D D D D D D D	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    Fiscal Year 2017	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    Fiscal Year 2017	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    Patient	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    Date: Fe	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    Date: Februar	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    P-1 Line Item Number / Title:	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD MITIGATION   PROPOSE MASK (JSGP   P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    P-1 Line Item Number / Title:   PHM001 / CB PROTECTION AND HAZARD MITIGATION   PURPOSE MASK (JSGPM)	P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program    P-1 Line Item Number / Title:	

Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION
PURPOSE MASK (JSGPM)

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MFR						Init	ial			Reo	rder	
Ref					ALT	ALT		Total	ALT	ALT		Total
#	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1	Prior to Oct 1	After Oct 1	Mfg PLT	After Oct 1
1	AVON Protection Systems											
	Inc Cadillac, MI	8,333	17,000	21,554	-	3	10	13	-	2	3	5

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program Date: February 2015 Appropriation / Budget Activity / Budget Sub Activity: Item Number / Title [DODIC]: P-1 Line Item Number / Title: 0300D / 03 / 1 PHM001 / CB PROTECTION AND HAZARD MITIGATION JI0002 / JS AIRCREW MASK (JSAM) ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code: **FY 2016 FY 2016 FY 2016** To Prior **Resource Summary Years FY 2014** FY 2015 Base OCO **Total** FY 2017 **FY 2018 FY 2019** FY 2020 Complete Total Procurement Quantity (Units in Each) Gross/Weapon System Cost (\$ in Millions) 0.000 -11.526 24.630 24.630 54.447 61.961 55.136 50.374 Continuing Continuing Less PY Advance Procurement (\$ in Millions) Net Procurement (P1) (\$ in Millions) 0.000 11.526 24.630 24.630 54.447 55.136 50.374 \_ 61.961 Continuing Continuing Plus CY Advance Procurement (\$ in Millions) \_ Continuing Total Obligation Authority (\$ in Millions) 0.000 11.526 24.630 24.630 54.447 61.961 55.136 50.374 Continuina (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) Gross/Weapon System Unit Cost (\$ in Thousands) Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding. **Prior Years** FY 2014 FY 2015 **FY 2016 Base FY 2016 OCO** FY 2016 Total Total Total Total Total Total Total Qty **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost **Unit Cost** Qty Cost Cost Elements (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) Hardware Cost Recurring Cost Prior/Future combined efforts JSAM RW MPU-5 Hardware - LRIP(†) 0.000 4.500 1,240 4.498 558 2.510 4.498 558 2.510 5.580 JSAM SA - MM53 -LRIP(†) 0.000 2.316 2,549 5.904 2.316 2,549 5.904 JSAM TA - Mask -LRIP(†) 0.000 13.019 529 6.887 13.019 529 6.887 Subtotal: Recurring Cost 0.000 5.580 15.301 15.301 Non Recurring Cost JSAM FW - A/ P22P-14(A) - USAF Readiness<sup>(†)</sup> 0.000 12.400 140 1.736 Subtotal: Non Recurring Cost 0.000 1.736 Subtotal: Hardware Cost 0.000 7.316 15.301 \_ 15.301

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0.287

0.000

Logistics Cost

Recurring Cost

JSAM RW MPU-5 -

Tooling

0.020

0.020

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:

ID Code (A=Service Ready, B=Not Service Ready) : B

PHM001 / CB PROTECTION AND HAZARD MITIGATION

JI0002 / JS AIRCREW MASK (JSAM)

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

MDAP/MAIS Code:

	F	Prior Years	5		FY 2014			FY 2015		F۱	/ 2016 Bas	se	F۱	/ 2016 OC	0	FY	2016 Tot	tal
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
JSAM RW MPU-5 - Initial Spares/Fielding Components	-	-	0.000	-	-	-	-	-	1.672	-	-	1.173	-	-	-	-	-	1.
Subtotal: Recurring Cost	-	-	0.000	-	-	-	-	-	1.959	-	-	1.193	-	-	-	-	-	1.
Subtotal: Logistics Cost	-	-	0.000	-	-	-	-	-	1.959	-	-	1.193	-	-	-	-	-	1.
Support Cost																		
JSAM RW MPU-5 - Program Management	-	-	0.000	-	-	-	-	-	1.038	-	-	0.927	-	-	-	-	-	0.
JSAM RW MPU-5 - Engineering Support	-	-	0.000	-	-	-	-	-	0.339	-	-	0.340	-	-	-	-	-	0
JSAM RW MPU-5 - Integrated Logistics Support	-	-	0.000	-	-	-	-	-	0.676	-	-	0.679	-	-	-	-	-	C
JSAM SA MM53 - Program Management	-	-	0.000	-	-	-	-	-	-	-	-	1.146	-	-	-	-	-	1
JSAM SA MM53 - Engineering Support	-	-	0.000	-	-	-	-	-	-	-	-	0.637	-	-	-	-	-	
JSAM SA MM53 - Integrated Logistics Support	-	-	0.000	-	-	-	-	-	-	-	-	0.089	-	-	-	-	-	
JSAM SA MM53 - NET Training	-	-	0.000	-	-	-	-	-	-	-	-	0.325	-	-	-	-	-	
JSAM SA MM53 - Initial Spares/Components	-	-	0.000	-	-	-	-	-	-	-	-	0.686	-	-	-	-	-	
JSAM TA Mask - Program Management	-	-	0.000	-	-	-	-	-	-	-	-	1.029	-	-	-	-	-	
JSAM TA Mask - Engineering Support	-	-	0.000	-	-	-	-	-	-	-	-	0.521	-	-	-	-	-	
JSAM TA Mask - Integrated Logistics Support	-	-	0.000	-	-	-	-	-	-	-	-	0.364	-	-	-	-	-	(
JSAM TA Mask - NET Training	-	-	0.000	-	-	-	-	-	-	-	-	0.113	-	-	-	-	-	(
JSAM TA AP22P-14(A) ECP Program Management Support	-	-	0.000	-	-	-	-	-	0.198	-	-	-	-	-	-	-	-	
JSAM TA Mask - Initial Spares/Components	-	-	0.000	-	-	-	-	-	-	-	-	1.280	-	-	-	-	-	
Subtotal: Support Cost	-	-	0.000	-	-	-	-	-	2.251	-	-	8.136	-	-	-	-	-	i
Gross/Weapon System Cost	-	-	0.000	-	-	-	-	_	11.526	-	_	24.630	-	-	_	_	-	24

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

Date: February 2015

Item Number / Title [DODIC]:

JI0002 / JS AIRCREW MASK (JSAM)

ID Code (A=Service Read	dy, B=Not Servi	ce Ready) : <b>E</b>	<u> </u>						M	DAP/MAIS								
		FY 2017			FY 2018			FY 2019			FY 2020		To	o Complet	е	1	Total Cost	
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Tota Cos (\$ M
Hardware Cost			ı						l.					ll				
Recurring Cost																		
Prior/Future combined efforts	-	_	54.447	-	-	61.961	-	-	55.136	-	-	50.374		Continuing			Continuing	
JSAM RW MPU-5 Hardware - LRIP <sup>(†)</sup>	-	-	-	-	-	-	_	-	-	-	_	_	-	-	_	-	-	
JSAM SA - MM53 - LRIP <sup>(†)</sup>	_	_	_	-	_	_	_	_	_	_	_	_	_	-		-	_	
JSAM TA - Mask -	_		_	-	_		_	_	_	_	-	_	_	-		-	_	
Subtotal: Recurring Cost	-	-	54.447	-	-	61.961	-	-	55.136	-	-	50.374		Continuing			Continuing	
Non Recurring Cost										I.			l			1		
JSAM FW - A/ P22P-14(A) - USAF Readiness <sup>(†)</sup>	_	_	-	_	-	_	_	-	-	-	_	_	-	-	-	_	-	
Subtotal: Non Recurring Cost	-	_	-	-	-	-	_	_	-	-	-	_	-	-	-	-	-	
Subtotal: Hardware Cost	-	-	54.447	-	-	61.961	-	-	55.136	-	-	50.374		Continuing		<u> </u>	Continuing	
Logistics Cost			J.										Į.					-
Recurring Cost																		
JSAM RW MPU-5 - Tooling	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSAM RW MPU-5 - Initial Spares/Fielding Components	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Logistics Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support Cost																		
JSAM RW MPU-5 - Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSAM RW MPU-5 - Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSAM RW MPU-5 - Integrated Logistics Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSAM SA MM53 - Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JSAM SA MM53 - Engineering Support	_	_	_	_	_	_	_	_	_	_	_	_	_		<u> </u>	_	_	

Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

Date: February 2015

Item Number / Title [DODIC]:

PHM001 / CB PROTECTION AND HAZARD MITIGATION

JI0002 / JS AIRCREW MASK (JSAM)

ID Code (A=Service Ready, B=Not Service Ready) : B MDAP/MAIS Code: FY 2017 FY 2018 FY 2019 FY 2020 **Total Cost** To Complete Total Total Total Total Total Total **Unit Cost Unit Cost** Qty Cost **Unit Cost** Qty Cost Unit Cost Qtv Cost **Unit Cost** Qty Cost Unit Cost Qty Cost Qty Cost **Cost Elements** (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$ K) (Each) (\$ M) JSAM SA MM53 -Integrated Logistics Support JSAM SA MM53 - NET Training JSAM SA MM53 - Initial Spares/Components JSAM TA Mask Program Management JSAM TA Mask Engineering Support JSAM TA Mask Integrated Logistics Support JSAM TA Mask - NET Training JSAM TA AP22P-14(A) ECP Program Management Support JSAM TA Mask - Initial Spares/Components Subtotal: Support Cost \_ \_ \_ -Gross/Weapon System Continuing Continuing 54.447 61.961 55.136 50.374 Cost

#### Remarks:

Prior to FY 2015, the JS AIRCREW MASK (JSAM) program was reported under CBDP line item (BLIN) GP1000 - INDIVIDUAL PROTECTION

The Joint Service Aircrew Mask (JSAM) system is a lightweight Chemical, Biological, Radiological and Nuclear (CBRN) protective mask consisting of mask, filter, blower, and accessories incorporating state-of-the-art technology to protect U.S. Forces from anticipated threats. The JSAM systems will be developed to support multiple aircraft platforms which will integrate with aircraft subsystems: Aircrew Life Support Equipment (ALSE), seating, portable aircrew systems, restraint systems, night vision goggles (NVGs), and communications systems. The mask is optimized to minimize impact on the wearer's performance, maximize its ability to interface with aircrew protective clothing, and provide improved field of view when compared to current protective masks.

The JSAM Rotary Wing (RW) Mask Protective Unit 5 (MPU-5(V)/P) will provide head, eye, respiratory, and CB protection and "don in flight" capability for general purpose, rotary wing aircrew in all four Services and the US Coast Guard.

The JSAM Apache (MPU-6(V)/P) aircrew mask provides head, eye, respiratory and Chemical-Biological (CB) protection for U.S. Army AH-64A/D Apache aircrew as part of the JSAM Family of Systems. JSAM MPU-6(V)/P replaces the legacy M-43 and M-48. It is compatible with the Joint Protective Aircrew Ensemble (JPACE) and the Apache Integrated Helmet and Display Sighting System (IHADSS). It provides flame and thermal protection, and reduces heat stress imposed by existing CB protective masks. The system is capable of being donned and doffed while in flight.

The JSAM for Tactical Aircraft (JSAM TA) will provide CB pressure breathing for altitude and anti-G protection. The JSAM for Strategic Aircraft (JSAM SA) will provide CB protection for aircrew positions that only need pressure breathing for altitude. Both the JSAM TA and JSAM SA will provide flame resistance, JSAM TA will provide demist/emergency demist.

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Exhibit P-5, Cost Analysis: PB 2016 Chemical and Biologica	al Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 0300D / 03 / 1	P-1 Line Item Number / Title: PHM001 / CB PROTECTION AND HAZARD MITIGATION	Item Number / Title [DODIC]: J10002 / JS AIRCREW MASK (JSAM)
D Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
Justification: FY16 will procure 2,549 JSAM SA MM53 Low Rate Initial Produ FY16 will also procure 557 JSAM Rotary Wing (RW) MPU-5 LRIP assets.	uction (LRIP) masks and 529 JSAM TA Masks for LRIP to meet Joint Service CI	BRN equipment and operational testing requirements.
RDT&E Code B Item: 0604384BP/Proj IP5		
DEVELOPMENT/TEST STATUS AND MAJOR MILESTONES		
JSAM FW - JSAM TA - AP22P(A) ECP Integration (Apr 2013 to Sep 2015) JSAM FW - JSAM TA - AP22P(A) Safe to Fly Certification (Jun 2014 to Sep JSAM FW - JSAM TA - AP22P(A) USAF Variant Purchase: Oct 2014 JSAM RW - USA/USAF Airworthiness Testing (Oct 2012 to Sep 2015) JSAM RW - USN/USMC Airworthiness Testing (Oct 2012 to Sep 2016) JSAM RW - USN/USMC Airworthiness Testing (Oct 2012 to Sep 2016) JSAM RW - MS C/ Low Rate Initial Production (LRIP) (Dec 2014 to Sep 201 JSAM RW - Multi Service Operational Test and Evaluation (MOT&E) USA/U JSAM RW - Multi Service Operational Test and Evaluation (MOT&E) USN/U JSAM RW - USA IOC: Dec 2016 JSAM RW - USAF IOC: Jul 2016 JSAM RW - USAF IOC: Sep 2018 JSAM RW - USAF FOC: Sep 2018 JSAM RW - USAF FOC: Sep 2016 JSAM RW - USAF FOC: Jan 2024 JSAM SA - MS C / Low Rate Initial Production (Jul 2016 to Jun 2019) JSAM SA - Operational Testing (Sep 2016 to Mar 2017) JSAM SA - LRIP 1 (Sep 2016 to Mar 2017) JSAM SA - LRIP 2 (Sep 2017 to Dec 2017) JSAM SA - LRIP 3 (Jun 2018 to Sep 2018) JSAM SA - LRIP 4 (Mar 2019 to Jun 2019) JSAM SA - LRIP 4 (Mar 2019 to Jun 2019) JSAM SA - HRIP 4 (Mar 2019 to Jun 2019) JSAM TA - Full and Open Comparative Gate Testing (Jun 2015 to Mar 2016 JSAM TA - Full Operational Capability: Mar 2022 JSAM TA - Full Operational Capability: Mar 2022 JSAM TA - Initial Operational Capability: Sep 2018 JSAM TA - Full Rate Production (FRP) (Jun 2019 to Sep 2022)	7) ISAF (Feb 2015 to May 2015) ISMC (Oct 2015 to Mar 2017)  8) In 2019)	

(†) indicates the presence of a P-5a

**UNCLASSIFIED** 

P-1 Line #75

Exhibit P-5a, Procurement History and Planning: PB 2016 C	Chemical and Biological Defense Program	Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
0300D / 03 / 1	PHM001 / CB PROTECTION AND HAZARD MITIGATION	JI0002 / JS AIRCREW MASK (JSAM)

	0			Method/Type or		Award	Date of First	Qty	Unit Cost	Specs Avail	RFP Issue
Cost Elements	0	FY	Contractor and Location	Funding Vehicle	Location of PCO	Date	Delivery	(Each)	(\$ K)		Date
JSAM RW MPU-5 Hardware - LRIP <sup>(†)</sup>		2015	AVOX Systems Inc. / Lancaster, NY	SS / FPIF	RDECOM, APG, MD	Mar 2015	Aug 2015	1,240	4.500	Y	
JSAM RW MPU-5 Hardware - LRIP <sup>(†)</sup>		2016	AVOX Systems Inc. / Lancaster, NY	SS / FPIF	RDECOM, APG, MD	Apr 2016 <sup>(8)</sup>	Jul 2016	558	4.498	Y	
JSAM SA - MM53 - LRIP <sup>(†)</sup>		2016	AVON Protection Systems Inc. / Cadillac, MI	SS/FFP	RDECOM, APG, MD	Aug 2016	Nov 2016	2,549	2.316	N	
JSAM TA - Mask - LRIP <sup>(†)</sup>		2016	TBD / UNKNOWN	C / FPIF	RDECOM, APG, MD	Jan 2016	Apr 2016	529	13.019	N	
JSAM FW - A/P22P-14(A) - USAF Readiness <sup>(†)</sup>		2015	Cam Lock Limited / Aldershot Hampshire, UK	SS/FFP	NAVAIR, Patuxent River, MD	Oct 2014	Dec 2014	140	12.400	Y	

<sup>(†)</sup> indicates the presence of a P-21

#### Footnotes:

<sup>&</sup>lt;sup>(8)</sup> Opt 1

	P-21, Pro																	_					: Feb						
<b>Appropr</b> i 0300D / 0		Budge	et Acti	vity /	Bud	get Sı	ub Ac	tivity	•	- 1		Item / CB				ND H	AZAF	RD M	ITIGA	TION			<b>Num</b> 02 / J					ISAM	1)
		lements housands	)							Fiscal Y	ear 2015			,							F	iscal Ye	ear 2016						
M			ACCEPT PRIOR	BAL								С	alendar	Year 201	5								Calend	dar Year	2016				
O F C R O # FY	SERVICE	PROC QTY	TO 1 OCT 2014	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JSAM RW MP	U-5 Hardware	e - LRIP				'				'																			
1 2015	CBDP	1.240	-	1.240						Α -	-	-	-	-	.150	.100	.090	.090	.090	.090	.090	.090	.130	.160	.160				-
	ARMY	.200	-	.200						Α -	-	-	-	-	-	-	-	-	-	-	-	-	.040	.080	.080				-
Secondary	AF	.950	-	.950						Α -	-	-	-	-	.070	.090	.090	.090	.090	.090	.090	.090	.090	.080	.080				-
Distribution	МС	.030	-	.030						Α -	-	-	-	-	.030	-	-	-	-	-	-	-	-	-	-				-
	NAVY	.060	-	.060						Α -	-	-	-	-	.050	.010	-	-	-	-	-	-	-	-	-				-
1 2016	CBDP	.558	-	.558																			Α -	-	-	.090	.090	.090	.28
Secondary	ARMY	.280	-	.280																			Α -	-	-	.045	.045	.045	_
Distribution	AF	.278	-	.278																			A -	-	-	.045	.045	.045	.14
JSAM SA - MN																													1
2 2016	CBDP	2.549	-	2.549		-																					A -	-	2.54
Secondary Distribution	AF	1.275	-	1.275		-																					Α -	-	1.27
	NAVY	1.274	-	1.274																							Α -	-	1.27
JSAM TA - Ma	CBDP	.529		.529		1														A -	_	-	.089	.088	.088	.088	.088	.088	
	AF	.265		.265		-														A -	-	-	.045	.000	.000	.066	.044	.000	_
Secondary Distribution	NAVY	.264	-	.264		1														A -	-	-	.043	.044	.044	.044	.044	.044	_
JSAM FW - A/			adiness	.204																,,			.011	.011	.044	.044	.011	.011	
4 2015		.140	-	.140	Α -	_	.070	.070		_																			T -
Secondary Distribution	AF	.140	-	.140	A -	-	.070	.070																					-
		'			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

Exhibit P-2	21, Prod	ductio	on Sc	hedul	le: PB	2016	6 Che	emical	and	Biolo	gical I	Defen	se Pi	ograr	n							Date	e: Fel	oruary	2015	5			
Appropriati 0300D / 03 /		udge	t Acti	vity /	Budg	et Sı	ıb Ac	tivity	:					ber /		: AND I	HAZA	RD M	1ITIG/	OITA	J			n <b>ber</b> /				JSAM	Л)
	Cost Eler																												$\Box$
	(Units in The		ACCEPT							FISCAI Y	ear 2017		Calonda	Year 20	17				_	I		FISCAI Y	ear 2018	ndar Yea	r 2018				+
M O F C R			PRIOR TO 1 OCT	BAL DUE AS OF	0	N O	D E	J A	F E	M	A P	M A	J	J U	A	S E	0	N O	D E	J A	F E	M A	A P	M A	J U	J	A U	S E	i i
		QTY	2016	1 OCT	Т	٧	С	N	В	R	R	Y	N	L	G	Р	Т	٧	С	N	В	R	R	Y	N	L	G	Р	ı
JSAM RW MPU-5 I	Hardware -	- LRIP																											
1 2015 CBI	BDP	1.240	1.240	-																									
ARM	RMY	.200	.200	-																									
Secondary AF		.950	.950	-																									
Distribution MC		.030	.030	-																									
NAV	VY	.060	.060	-				_																					
1 2016 CBI	BDP	.558	.270	.288	.090	.100	.098																						
Secondary ARM	RMY	.280	.135	.145	.045	.050	.050																						
Distribution AF		.278	.135	.143	.045	.050	.048																						
JSAM SA - MM53 -	- LRIP																												
2 2016 CBI	BDP	2.549	-	2.549	-	.200	-	-	-	-	-	-	.783	1.566		_													
Secondary AF	:	1.275	-	1.275	-	.100	-	-	-	-	-	-	.392	.783															
Distribution NA\	VY	1.274	-	1.274	-	.100	-	-	-	-	-	-	.391	.783															
JSAM TA - Mask -	- LRIP																												
3 2016 CBI	BDP	.529	.529	-																									
Secondary AF	:	.265	.265	-																									
Distribution NA\	VΥ	.264	.264	-																									
JSAM FW - A/P22F	2P-14(A) - U	SAF Rea	diness																										
4 2015 CBI	BDP	.140	.140	-																									
Secondary AF Distribution		.140	.140	-																									
		•			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U L	A U G	S E P	A L

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Exhibit P-21, Production Schedule: PB 2016 Chemical and Biological Defense Program

Appropriation / Budget Activity / Budget Sub Activity:

0300D / 03 / 1

P-1 Line Item Number / Title:
PHM001 / CB PROTECTION AND HAZARD MITIGATION

JI0002 / JS AIRCREW MASK (JSAM)

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
ИFR					_	Initia	ıl			Reor	der	
Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
	AVOX Systems Inc Lancaster, NY	80	250	400	-	5	10	15	-	3	3	(
	AVON Protection Systems Inc Cadillac, MI	200	1,000	2,000	-	3	3	6	-	3	3	(
3	TBD - UNKNOWN	50	200	300	-	3	2	5	-	3	2	
	Cam Lock Limited - Aldershot Hampshire, UK	60	167	333	-	7	2	9	-	3	2	

<sup>(‡)</sup> Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).