Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Chemical and Biological Defense Program

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 7: Operational Systems Development

PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)

DATE: February 2011

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	6.089	6.634	15.956	-	15.956	9.872	8.440	18.437	25.194	Continuing	Continuing
IP7: INDIVIDUAL PROTECTION (OP SYS DEV)	-	-	-	-	-	-	0.494	2.467	1.470	Continuing	Continuing
IS7: INFORMATION SYSTEMS (OP SYS DEV)	1.284	1.821	6.911	-	6.911	6.032	4.565	4.264	6.261	Continuing	Continuing
MB7: MEDICAL BIOLOGICAL DEFENSE (OP SYS DEV)	-	-	5.448	-	5.448	0.492	0.493	8.851	15.459	Continuing	Continuing
TE7: TEST & EVALUATION (OP SYS DEV)	4.805	4.813	3.597	-	3.597	3.348	2.888	2.855	2.004	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element supports developmental efforts to upgrade systems in the Department of Defense (DoD) Chemical Biological Defense Program that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

Efforts in this program element support the upgrade of fielded CB defense equipment against emerging chemical threat agents and toxic industrial chemicals. Specifically this program includes: (1) the upgrade and modernization of information systems; (2) the Joint Program Executive Office for Chemical Biological Defense (JPEO-CBD) Software Support Activity (SSA); (3) the upgrade and modernization of medical systems; and (4) revitalization and technical upgrade of existing instrumentation and equipment at Dugway Proving Ground (DPG).

BA7 reductions in support of the DoD Efficiency Initiatives for FY12 include: Program management support reduced (-\$0.128M).

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Chemical and Biological Defense Program

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)

BA 7: Operational Systems Development

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	6.172	6.634	9.317	-	9.317
Current President's Budget	6.089	6.634	15.956	-	15.956
Total Adjustments	-0.083	-	6.639	-	6.639
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
Reprogrammings	0.001	-			
SBIR/STTR Transfer	-0.075	-			
Other Adjustments	-0.009	-	6.639	-	6.639

Change Summary Explanation

Funding: FY10 - Adjustments less than 10% of total program.

FY12 - Program realignments to support high priority CBDP and DoD program initiatives (-\$2,869K IP5; +\$5,252K IS7; +\$5,457K MB7; -\$1,176K TE7); Economic Assumptions (-\$10K IS7; -\$9K MB7; -\$6K TE7)

Schedule: N/A

Technical: N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Bio	DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0607384BP: CHEMICAL/BIOLOGICAL	IP7: INDIVIDUAL PROTECTION (OP SYS		
BA 7: Operational Systems Development	DEFENSE (OP SYS DEV)	DEV)		

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
IP7: INDIVIDUAL PROTECTION (OP SYS DEV)	-	-	-	-	-	-	0.494	2.467	1.470	Continuing	Continuing
Quantity of RDT&E Articles											

Note

This R-2A Plan is strictly for planning purposes; no funds are requested in this FY

A. Mission Description and Budget Item Justification

N/A

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: N/A	-	-	-
FY 2010 Accomplishments: N/A			
Accomplishments/Planned Programs Subtotals	-	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Biological Defense Program											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development				PE 0607384	IOMENCLAT 4BP: <i>CHEMI</i> (OP SYS DE	CAL/BIOLO	GICAL	PROJECT IS7: INFORMATION SYSTEMS (OP SYS DEV)					
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost		
IS7: INFORMATION SYSTEMS (OP SYS DEV)	1.284	1.821	6.911	-	6.911	6.032	4.565	4.264	6.261	Continuing	Continuing		
Quantity of RDT&E Articles													

A. Mission Description and Budget Item Justification

This Project provides for the upgrade and modernization of fielded Information Systems including the Joint Effects Model (JEM) and the Joint Warning and Reporting Network (JWARN). Also this Project provides for the JPEO-CBD Software Support Activity (SSA).

The 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: counterforce, passive defense, accident and/or incidents; high altitude releases, urban Nuclear Biological Chemical (NBC) environments; building interiors, and human performance degradation. Battle space commanders and first responders must have a Chemical, Biological, Radiological, Nuclear (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.

The Joint Warning and Reporting Network (JWARN) will provide the Joint Forces with a comprehensive Integrated Early Warning, Analysis and Response capability to minimize the effects of hostile CBRN attacks, as well as accidents and incidents. It will provide the operational capability to employ CBRN warning technology which will collect, analyze, identify, locate, report, and disseminate warnings. JWARN will be compatible and integrated with Joint Service C4ISR Systems. JWARN will transition from platform specific Common Operating Environment (COE) standards to a Web-based Service Oriented Architecture (SOA). JWARN will also provide an expansion of sensors that will connect to JWARN, increased automation of message handling, improved false alarm filtering, integration of route-planning calculator, and interoperability with additional C2 systems. JWARN will be located in Command and Control Centers at the appropriate level and will be employed by CBRN defense specialists and other designated personnel. This employment will transfer data automatically from existing and future sensors to provide commanders with the capability to support operational decision making in a CBRN environment. JWARN will provide additional data processing to support the production of plans and reports, and access to specific CBRN information to improve the efficiency of limited CBRN personnel assets. JWARN will integrate existing sensors into a sensor network or host C2 system, but does not provide the sensors that will be employed in the operating environment. The JWARN capability described above will be developed utilizing an incremental approach based on Service requirements and host system architecture.

The JPEO-CBD SSA is a JPEO-CBD enterprise-wide, user developmental support and service organization focusing on development assistance and net-centric interoperability. The SSA provides the CBRN Warfighter with Joint Service solutions for Integrated Architectures, Information Assurance, Verification, Validation and Accreditation (VV&A) and Data Management; interoperable and integrated net-centric, Service-oriented, composable solutions for CBD; and infusion of latest technologies into programs of record. CBRN user community and related communities of interest have need for CBRN "plug and play" capability to allow interoperability and re-configurability across the enterprise. The requirement for net-centric, composable solutions provides the near term foundation for the

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and		DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)	PROJECT IS7: INFORMATION SYSTEMS (OP SYS DEV)				
Warfighter's ability to communicate his CBRN solutions and interope with related agencies and to reduce the Warfighter's CBRN footprin	·	so supports	a longer term	ability to inte	roperate	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012	
Title: 1) JEM Command and Control (C2) Modernization Efforts			-	-	0.796	
FY 2012 Plans: Modernize fielded JEM software due to changing C2 host architecture required, interoperable platforms. Perform test and evaluation of upd		ant on				
Title: 2) JEM Pre-Planned Product Improvement (P3I)			-	-	2.000	
FY 2012 Plans: Develop, test, and integrate previously fielded JEM software with scie to improve JEM accuracy and precision. Improve JEM architecture a deficiency resolution.						
Title: 3) JWARN			-	-	1.687	
Description: System Modernization/Update Development						
FY 2012 Plans: Initiate engineering and manufacturing development to upgrade exist interoperability, efficiency and functionality within the targeted C2 sys		ain				
Title: 4) JWARN			-	-	0.223	
Description: Program Management Support						
FY 2012 Plans: Continue JWARN program financial management, scheduling, planni	ing and reporting support to modernization effort.					
Title: 5) JWARN			-	-	0.337	
Description: Test and Evaluation						
FY 2012 Plans: Initiate required government developmental testing on JWARN software	are updates and modernization efforts.					
Title: 6) JWARN			-	-	0.336	
Description: Technical Support						

	nibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Biological Defense Program						
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)	PROJECT IS7: INFORMATION SYSTEMS (OP SYS DEV					
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012		
FY 2012 Plans: Initiate engineering and technical support efforts to support JWARN n	nodernization.						
Title: 7) SSA Policies, Standards and Guidelines			0.332	0.456	0.403		
FY 2010 Accomplishments: Provided Policies, Standards & Guidelines to Federal Information Seccentification support.	curity Management Act (FISMA) and J6 Interoperal	bility					
FY 2011 Plans: Provide ISP development support for JPEO-CBD programs. Continue Steering Group Support. Provide guidance and support to JPEO-CBD requirements.							
FY 2012 Plans: Continue to provide ISP development support for JPEO-CBD program Support. Continue to provide guidance and support to JPEO-CBD programments.							
Title: 8) SSA Integrated Architecture			0.414	0.580	0.462		
FY 2010 Accomplishments: Used a federated approach to create a comprehensive framework of Enterprise. Identified host system requirements and derived formal d		CBD's IT					
FY 2011 Plans: Provide and update program of record integrated architectures. Prov Common CBRN Sensor Interface (CCSI) Standard updates. Provide enterprise tools and common capabilities to ensure relevance across	CCSI reference implementation. Provide support						
FY 2012 Plans: Continue to provide and update program of record integrated architecimplementation assistance. Continue to support CCSI updates. Consupport of enterprise tools and common capabilities to ensure relevant	tinue to provide CCSI reference implementation. C	ontinue					
Title: 9) SSA Chemical, Biological, Radiological, Nuclear (CBRN) Date	ta Model		0.415	0.612	0.465		
FY 2010 Accomplishments:							

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and		DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)		PROJECT IS7: INFORMATION SYSTEMS (OP SYS DEV)			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012	
Continued to provide Data Model Implementation Guidance. Develop guidance including reference implementation.	ped and provided CBRN Data Model implementation	n				
FY 2011 Plans: Provide CBRN Data Model implementation guidance including referer programs with implementation of the CBRN data model. Support Data including requirements for data elements in relation to Bio-surveillance						
FY 2012 Plans: Continue to provide Data Model Implementation Guidance. Continue guidance including reference implementation. Continue to analyze re CBRN data model. Continue to support data model changes. Support	on of the					
Title: 10) SSA Information Assurance			0.123	0.173	0.202	
FY 2010 Accomplishments: Provided System Security Management Procedures to obtain Informa for developed JPEO-CBD IT programs. Ensured compliance with Info Accreditation (C&A) practices related to Security Awareness and Train Plans for JEM and JWARN. Obtained authorization to operate (ATO) acceptable. Validated IA controls and documented findings to mainta						
FY 2011 Plans: Continue providing Information Assurance Site Compliance Testing for Certification/Acceptance products and services for JPEO-CBD programmer.	surance					
FY 2012 Plans: Continue providing Information Assurance Site Compliance Testing for Certification/Acceptance products and services.	or JPEO-CBD. Continue to provide Information Ass	surance				
	Accomplishments/Planned Programs	Subtotals	1.284	1.821	6.911	

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

JEM

Exhibit R-2A, RDT&E Project Justification: Pl	Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Biological Defense Program							
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE	PROJECT					
0400: Research, Development, Test & Evaluation	n, Defense-Wide	PE 0607384BP: CHEMICAL/BIOLOGICAL	IS7: INFOR	MATION SYSTEMS (OP SYS DEV)				
BA 7: Operational Systems Development		DEFENSE (OP SYS DEV)						

The Joint Effects Model (JEM) is following an evolutionary acquisition approach that will allow rapid fielding of existing technologies while further research and development (R&D) continues in order to mature the technologies required for subsequent versions of JEM. JEM is now being fielded in increments of capabilities. Each increment will retain the functionality of the preceding increment. The JEM development effort will be aligned with the evolving Joint Program Executive Office for Chemical Biological Defense (JPEO-CBD) architectures and technologies, as well as, with Service Command and Control (C2) systems. JEM will develop three distinct increments of software. JEM is a web-services based application and has been granted an Interoperability Certificate by the Joint Interoperability Test Command (JITC). The program plans to award competitive contracts using fixed price or cost-plus as appropriate.

JWARN

JWARN will develop and provide Integrated Early Warning capabilities to specified (Common Operating Environment (COE-based)) operational-level Service Command and Control (C2) systems at the Global Command and Control System (GCCS) level, extend the integration effort into the Service tactical (non COE-based) C2 systems, provide connectivity to legacy and newly developed sensors, and complete the development of JWARN.

JWARN will extend these baseline capabilities to emerging, net-centric, Service C2 systems and Service CBRN sensors and detectors as they are developed and fielded. JWARN will also ensure CBRN warning and reporting capabilities remain synchronized with the changing demands of the Warfighter while keeping pace with evolving C2 systems and their architectures, and will further evolve by integrating next generation sensors, detectors and emerging Medical and Biological Surveillance requirements into the CBRN Enterprise.

SSA

The JPEO-CBD Software Support Activity (SSA) is a JPEO-CBD user support organization spanning and supporting all Joint Project Managers (JPMs) and JPEO-CBD Directorates. The SSA provides enterprise-wide services and coordination across all JPEO-CBD Programs of Record (PORs) that contain data or software, or are capable of linking to the Global Information Grid (GIG). The SSA facilitates interoperability, integration, and supportability of existing and developing IT and National Security Systems (NSS) across the JPEO and all JPMs.

Phase 1a identifies JPEO-CBD JPMs and programs that deal with data or software, and have an IT component. This will be followed by coordination with the JPMs and programs to facilitate the concepts of interoperability, integration and supportability of enterprise-wide services. Next follows work with user communities to develop and demonstrate enterprise-wide common architectures, products and services. (BA5 - System Development and Demonstration).

Phase 1b established management and control measures for tracking and reporting progress of the various elements described in Phases 1 and 2. This includes establishing, tracking, and performing configuration management of inventories and databases of IT systems and their states of interoperability and information assurance compliance. (BA6 - RDT&E Management Support).

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Bi	ological Defense Program	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0607384BP: CHEMICAL/BIOLOGICAL	IS7: INFORMATION SYSTEMS (OP SYS DEV)
BA 7: Operational Systems Development	DEFENSE (OP SYS DEV)	
Phase 2 will support the application of the enterprise-wide architecture products and services. (BA7 - Operational Systems Development).	es, products and services into the programs, with v	refification of compliance with the defined
E. Performance Metrics		
N/A		

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Chemical and Biological Defense Program

ological Defense Program

R-1 ITEM NOMENCLATURE

PROJECT

PROJECT

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 7: Operational Systems Development

PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)

IS7: INFORMATION SYSTEMS (OP SYS DEV)

Product Development (velopment (\$ in Millions)		FY 2	2011	FY 2012 1 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** JEM - SW SB - JEM	MIPR	Various:	-	-		2.796	Feb 2012	-		2.796	Continuing	Continuing	0.000
** JWARN - SW S - JWARN	C/CPAF	TBD:	-	-		1.686	Feb 2012	-		1.686	Continuing	Continuing	0.000
** SSA - HW S - Development Services	MIPR	SPAWAR System Center:San Diego, CA	1.393	0.609	Nov 2010	0.702	Nov 2011	-		0.702	Continuing	Continuing	0.000
	*	Subtotal	1.393	0.609		5.184		-		5.184			0.000

Support (\$ in Millions)				FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** JWARN - TD/D SB - JWARN	MIPR	Various:	-	-		0.337	Feb 2012	-		0.337	0.336	0.673	0.000
** SSA - ES S - Develop Support Activities	MIPR	SPAWAR Systems Center:San Diego, CA	1.444	0.628	Nov 2010	0.320	Nov 2011	-		0.320	0.000	2.392	0.000
		Subtotal	1.444	0.628		0.657		-		0.657	0.336	3.065	0.000

Test and Evaluation (\$ i	n Millions)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** JWARN - DTE SB - JWARN	MIPR	Various:	-	-		0.337	Feb 2012	-		0.337	0.336	0.673	0.000
** SSA - OTHT S - Integration Verification and Valuation (IV&V)	MIPR	SPAWAR Systems Center:San Diego, CA	1.554	0.584	Nov 2010	0.510	Nov 2011	-		0.510	0.000	2.648	0.000
		Subtotal	1.554	0.584		0.847		-		0.847	0.336	3.321	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Chemical and Biological Defense Program

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

Project Cost Totals

4.391

1.821

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV)

6.911

PROJECT

IS7: INFORMATION SYSTEMS (OP SYS DEV)

6.911

0.000

Management Services	s (\$ in Millio	ns)		FY:	2011		2012 ise	FY 2		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** JWARN - PM/MS S - JWARN	MIPR	Various:	-	-		0.223	Feb 2012	-		0.223	0.223	0.446	0.000
		Subtotal	-	-		0.223		-		0.223	0.223	0.446	0.000
			Total Prior Years Cost	FY:	2011		2012 ise	FY 2		FY 2012 Total	Cost To	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Chemical and Biological Defense Program

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide
BA 7: Operational Systems Development

DATE: February 2011

R-1 ITEM NOMENCLATURE
PE 0607384BP: CHEMICAL/BIOLOGICAL
DEFENSE (OP SYS DEV)

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2	016
	1 2 3	4 1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2	3 4
** JEM - JEM Increment 1 - Operational Systems Development								
** JWARN - JWARN Inc 1 - Full Deployment Decision								
JWARN Inc 1 - Initial Operational Capability (Software)								
JWARN Inc 1 - Full Operational Capability								
** SSA - SSA - Sustain Common Components products, process and services							ľ	

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Chemical and Biological Defense Program

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0607384BP: CHEMICAL/BIOLOGICAL

DEFENSE (OP SYS DEV)

PROJECT

IS7: INFORMATION SYSTEMS (OP SYS DEV)

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
** JEM - JEM Increment 1 - Operational Systems Development	4	2010	4	2015
** JWARN - JWARN Inc 1 - Full Deployment Decision	4	2010	1	2011
JWARN Inc 1 - Initial Operational Capability (Software)	4	2010	3	2011
JWARN Inc 1 - Full Operational Capability	3	2011	3	2014
** SSA - SSA - Sustain Common Components products, process and services	1	2010	4	2015

Exhibit K-ZA, KD rac r roject ous	tilleation. 1	2012 01101	ilicai alla bio	Jogical Dele	noc i rogian	!			DAIL. I CO	uary 2011					
APPROPRIATION/BUDGET ACTIV	/ITY		-	R-1 ITEM N	IOMENCLAT	TURE		PROJECT							
0400: Research, Development, Tes	t & Evaluatio	n, Defense-l	Vide	PE 060738	4BP: <i>CHEMI</i>	ICAL/BIOLO	GICAL	MB7: MEDI	CAL BIOLO	GICAL DEFE	ENSE (OP				
BA 7: Operational Systems Develop	oment			R-1 ITEM NOMENCLATURE PE 0607384BP: CHEMICAL/BIOLOGICAL DEFENSE (OP SYS DEV) PROJECT MB7: MEDICAL BIOLOGICAL DEFENSE (OSYS DEV) PROJECT BIOLOGICAL BIOLOGICAL DEFENSE (OSYS DEV) PROJECT BIOLOGICAL BIOLOGICAL BIOLOGICAL DEFENSE (OSYS DEV) PROJECT BIOLOGICAL BIOLOGICAL BIOLOGICAL BIOLOGICAL BIOLOGICAL BIOLOGICAL BI											
COST (\$ in Millions)			FY 2012	FY 2012	FY 2012				Cost To						
COST (\$ III WIIIIOIIS)	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	PROJECT MB7: MEDICAL BIOLOGICAL DEFENSE (CSYS DEV) Cost To Complete Total C							
MB7: MEDICAL BIOLOGICAL	-	-	5.448	-	07384BP: CHEMICAL/BIOLOGICAL MB7: MEDICAL BIOLOGICAL DEFENSE SYS DEV) 012 FY 2012 Cost To Complete Total FY 2013 FY 2014 FY 2015 FY 2016										
DEFENSE (OP SYS DEV)															
Quantity of RDT&F Articles			PE 0607384BP: CHEMICAL/BIOLOGICAL MB7: MEDICAL BIOLOGICAL DEFENSE SYS DEV) FY 2012 FY 2012 FY 2012 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 Complete Total												

A. Mission Description and Budget Item Justification

Exhibit R-2A RDT&F Project Justification: PB 2012 Chemical and Biological Defense Program.

This Project provides for the upgrade and modernization of fielded Medical Biological defense equipment/systems including the Joint Biological Agent Identification and Diagnostic System (JBAIDS).

JBAIDS is an evolutionary development program. Increment 1 will be a rapid development and fielding effort to deliver a critical capability to identify bacterial and viral agents to the field in the shortest time. Increment 1 development effort focuses on militarizing and hardening of critical identification technologies based on a Commercial off-the-shelf (COTS) item and on obtaining FDA clearance for the assays and hardware. BA7 efforts include the development of additional surveillance and diagnostic assays for the JBAIDS Block 1 platform.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: 1) JBAIDS	-	-	4.475
FY 2012 Plans: Initiate development and integration of additional surveillance assay and diagnostic kits (replacement for Burkholderia surveillance assay).			
Title: 2) JBAIDS	-	-	0.424
FY 2012 Plans: Conduct annual Federal Information Security Management Act (FISMA) software compliance certifications and parts obsolescence.			
Title: 3) JBAIDS	-	-	0.549
FY 2012 Plans: Initiate Pre-Emergency Use Authorizations (EUA) packages for Ebola disease.			
Accomplishments/Planned Programs Subtotals	-	-	5.448

DATE: February 2011

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Bio	ological Defense Program		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0607384BP: CHEMICAL/BIOLOGICAL	MB7: MEDI	CAL BIOLOGICAL DEFENSE (OP
BA 7: Operational Systems Development	DEFENSE (OP SYS DEV)	SYS DEV)	

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

JBAIDS

The Government JBAIDS program office plans an open competitive source selection to select the contractor to design and manufacture the additional surveillance assay kits to detect food and water pathogens (e.g., E coli, Salmonella, Cryptosporidium) along with diagnostic kits to detect Tier 2 Joint Operational Requirements Document (JORD) threat agents. Also, the JBAIDS program office plans to work with and MIPR funds to another JPEO-CBD activity (JPM-IS) to conduct the annual JBAIDS Federal Information Security Management Act (FISMA) software compliance certification in addition to any logistics sustainment issues associated with parts obsolescence. Additionally, the JBAIDS program office plans to partner with and MIPR funds to the US Army Medical Institute of Infectious Diseases (USAMRIID) to development FDA Pre-Emergency Use Authorization (EUA) packages for (e.g., Ebola, Marburg, and Smallpox diseases) that could be used as biological warfare threats to DoD military forces. JBAIDS program office will award a sole-source contract to the JBAIDS prime contractor, Idaho Technology Inc., to replace laptops and software operating systems in 340 deployed JBAIDS worldwide due to parts obsolescence and unsupportable Microsoft software (Microsoft XP Professional).

MCMI

MCM products will be developed by the private sector, academia and the government and transitioned to the Technical Center of Excellence (TCE) for manufacture as product maturity aligns with readiness of the facility and its operating structure. Rights to Intellectual Property will be required for subsequent advanced development and manufacturing (Government Purpose Rights). The Government intends to partner with multiple private companies and educational institutions. The TCE establishment will be formalized by competitively entering into an agreement under Other Transaction Authority (OTA) that is expected to allow the sharing of costs to meet objectives, and provide the availability of excess capacity. Innovative incentive provisions and cost sharing arrangements will be explored via interaction with industry through a Request For Information (RFI), industry day(s) and a Draft Request For Proposal (RFP) prior to release of the final solicitation.

E. Performance Metrics

N/A

				U	NCLASS	SIFIED							
Exhibit R-3, RDT&E Pro	ject Cost	Analysis: PB 2012 C	Chemical ar	d Biologic	cal Defens	e Program				DAT	E: Februar	y 2011	
APPROPRIATION/BUDO 0400: <i>Research, Develop</i> BA 7: <i>Operational Syster</i>	oment, Tes	t & Evaluation, Defen	se-Wide	PE	0607384B	MENCLAT P: <i>CHEMIC</i> P SYS DE	CAL/BIOLC	OGICAL	PROJI MB7: I SYS D	MEDICAL	BIOLOGIC	AL DEFEN	ISE (OP
Product Development ((\$ in Millio	ns)		FY 2	2011	FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
** JBAIDS - HW S - Assay development	C/FFP	TBD:	-	-		3.255	May 2012	-		3.255	Continuing	Continuing	0.000
		Subtotal	-	-		3.255		-		3.255			0.000
Support (\$ in Millions)				FY 2011		FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
** JBAIDS - ES S - Software Update	C/FFP	Idaho Technology Inc.:Salt Lake City, UT	-	-		0.325	May 2012	-		0.325	0.000	0.325	0.000
		Subtotal	-	-		0.325		-		0.325	0.000	0.325	0.000
Test and Evaluation (\$	in Millions	s)		FY 2011		FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** JBAIDS - OTHT S - EUA packages	MIPR	USAMRIID:Fort Detrick, MD	-	-		0.449	Feb 2012	-		0.449	0.000	0.449	0.000
		Subtotal	-	-		0.449		-		0.449	0.000	0.449	0.000
Management Services	(\$ in Millio	ons)		FY 2	2011	FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** JBAIDS - PM/MS S - Project Management	MIPR	TBD:	-	-		0.150	Feb 2012	-		0.150	0.000	0.150	0.000
PM/MS S - Project Management	РО	Goldbelt Raven:LLC, Frederick	-	-		0.769	May 2012	-		0.769	0.000	0.769	0.000
PM/MS C - Joint Program Executive Office	Allot	JPEO:Falls Church, VA	-	-		0.500	Feb 2012	-		0.500	0.000	0.500	0.000
		Subtotal	-	-		1.419		-		1.419	0.000	1.419	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 C	Chemical and E	Biological Defens	e Program			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defendance BA 7: Operational Systems Development	se-Wide	R-1 ITEM NOI PE 0607384B DEFENSE (O	P: CHEMICAL	E ./BIOLOGICAL	PROJECT MB7: MED SYS DEV)	ICAL BIOLOGICAL DEFENSE (OP
	Total Prior	<u> </u>				Target

	Total Prior Years Cost		FY 2		2012 FY 2012 CO Total	Cost To Complete Total Co	Target Value of st Contract
Project Cost Totals	-	-	5.448	-	5.448		0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 (Chem	ical	and Bi	olog	ical	Defe	nse	Prog	gra	m										DA	/TE	: Feb	วruar	ry 20)11		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	Defer	nse-	Wide		F	R-1 IT PE 06 D <i>EFE</i>	0738	84B	P:	CHE	MICA	AL/B	IOL	OGI	CAL		M	ROJI B7: <i>N</i> YS D	ИЕС	OICA	L B	IOLC)GIC	;AL	DEF	ENS	SE (OI
		FY 2	010		FY	2011	ı		F۱	/ 20′	12		FY	2013	3		FY	2014	ļ.		FY	2015	5		FY 2	016	
	1	2	3 4	1	2	2 3	4	1	1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
** JBAIDS - JBAIDS - Pre-Emergency Use Authorization Packages																											
JBAIDS - Software compliance certification																											
JBAIDS - Surveillance & diagnostic assay kits																											
JBAIDS - Replace/update laptops & operating systems																											

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Chemical and Biological Defense Program

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

R-1 ITEM NOMENCLATURE
PE 0607384BP: CHEMICAL/BIOLOGICAL
PE 0607384BP: CHEMICAL/BIOLOGICAL
PE 0607384BP: CHEMICAL/BIOLOGICAL

BA 7: Operational Systems Development

| Development | Development | DEFENSE (OP SYS DEV)

MB7: MEDICAL BIOLOGICAL DEFENSE (OP SYS DEV)

Schedule Details

	St	tart	End		
Events	Quarter	Year	Quarter	Year	
** JBAIDS - JBAIDS - Pre-Emergency Use Authorization Packages	2	2012	4	2016	
JBAIDS - Software compliance certification	2	2012	4	2016	
JBAIDS - Surveillance & diagnostic assay kits	2	2012	4	2012	
JBAIDS - Replace/update laptops & operating systems	2	2015	4	2015	

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Biological Defense Program								DATE: Febi	uary 2011			
0400: Research, Development, Test & Evaluation, Defense-Wide				11.100=				PROJECT TE7: TEST	CT EST & EVALUATION (OP SYS DEV)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost	
TE7: TEST & EVALUATION (OP SYS DEV)	4.805	4.813	3.597	-	3.597	3.348	2.888	2.855	2.004	Continuing	Continuing	
Quantity of RDT&E Articles												

A. Mission Description and Budget Item Justification

This Project provides revitalization and technology upgrades of existing instrumentation and equipment at Dugway Proving Ground (DPG), a Major Range and Test Facility Base (MRTFB), in support of their Chemical Biological test mission.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: 1) DPG - MRTFB	0.905	0.866	0.647
FY 2010 Accomplishments: Provided upgrades of the Life Sciences Test Facility instrumentation and equipment at Dugway Proving Ground (DPG), in support of their CB defense mission. This was the only U.S. facility equipped to test with aerosolized Bio-Safety Level 3 (BSL-3) agents. Upgrades and technology enhancements included the following: (1) Replacement of a Scanning Electron Microscope and light microscopes; (2) Replacement of Aerodynamic Particle Sizers with newer Fluorescent Aerodynamic Particle Sizers; (3) Full characterization of biological aerosols in various conditions inside the test chambers; (4) An automated liquid aerosol dissemination systems that will vary concentrations of aerosols in chamber and field clouds; (5) Procured aerosol samplers for chamber and field testing; (6) Continued upgrades/improvements to the Containment Aerosol Chamber (CAC) with capability to create environmental conditions with varying combinations of air temperature and relative humidity; and, (7) Continued procurement of microbiological laboratory equipment needed to utilize new Bio-Safety Level 3 laboratories.			
FY 2011 Plans: Continue to provide upgrades of the Life Sciences Test Facility instrumentation and equipment at Dugway Proving Ground (DPG), in support of their CB defense mission. This is the only U.S. facility equipped to test with aerosolized Bio-Safety Level 3 (BSL-3) agents. Upgrades and technology enhancements include the following: (1) Regular replacement of aging Aerodynamic Particle Sizers with newer Fluorescent Aerodynamic Particle Sizers; (2) Full characterization of biological aerosols in various conditions out in the field; (3) An automated dry powder dissemination system that will vary the concentration of aerosols in test chambers and in the field; (4) Procure aerosol samplers for chamber and field tests; (5) Enhancing genotyping system to determine genetic identity of biological samples and procure genotyping analysis software to determine genetic identity of biological samples; (6) Upgrade aerosol particles generation capabilities for standoff and point detector characterization; and, (7) Procurement of microbiological laboratory equipment needed to fully utilize Bio-Safety Level 3 laboratories.			
FY 2012 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and E	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0607384BP: CHEMICAL/BIOLOGICAL	TE7: TEST	& EVALUATION (OP SYS DEV)
BA 7: Operational Systems Development	DEFENSE (OP SYS DEV)		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Continue to provide upgrades of the Life Sciences Test Facility instrumentation and equipment at Dugway Proving Ground (DPG), in support of their CB defense mission. This is the only U.S. facility equipped to test with aerosolized Bio-Safety Level 3 (BSL-3) agents. Upgrades and technology enhancements include the following: (1) Regular replacement of aging Aerodynamic Particle Sizers with newer Fluorescent Aerodynamic Particle Sizers; (2) Full characterization of biological aerosols in various conditions out in the field; (3) An automated dry powder dissemination system that will vary the concentration of aerosols in test chambers and in the field; (4) Procure aerosol samplers for chamber and field tests; (5) Enhancing genotyping system and procure genotyping analysis software to determine genetic identity of biological samples; (6) Upgrade aerosol particles generation capabilities for standoff and point detector characterization; and, (7) Procurement of microbiological laboratory equipment needed to fully utilize Bio-Safety Level 3 laboratories.			
Title: 2) DPG - MRTFB	1.020	1.059	0.792
FY 2010 Accomplishments: Provided for modernization of existing instrumentation and equipment in the major test chambers at DPG, in support of the CB defense mission. These consisted of the following: (1) the Materiel Test Facility which was a unique test chamber where real-world decontamination operations were tested; (2) Building 4165, which housed updated chemical-surety test facilities and laboratories used to test chemical protective material with chemical agents and simulants; and (3) Bldg 3445, which housed two large chambers used to test large panel decontaminants, filter systems, and Individual Protection Equipment (IPE) in a chemical environment. Modernization of instrumentation in the chambers included: (1) Continued development of a chemical aerosol generation and sampling capability; (2) Characterization of improved and/or articulated testing fixtures; (3) Enhanced toxic industrial chemical detection and control capability; and (4) Initial enhancements in preparation for Non Traditional Agent test capability.			
FY 2011 Plans: Continue to provide for modernization of existing instrumentation and equipment in the major test chambers at DPG, in support of the CB defense mission. These consist of the following: (1) the Materiel Test Facility which is a unique test chamber where real-world decontamination operations can be tested; (2) Building 4165, which houses updated chemical-surety test facilities and laboratories used for the testing of chemical protective material with chemical agents and simulants; and (3) Bldg 3445, which houses two large chambers where testing of large panel decontaminants, filter systems, and Individual Protection Equipment (IPE) in a chemical environment can be conducted; and the (4) Aerosol Test Facility, which houses chemical simulant vapor test chamber and an aerosol test chamber. Modernization of instrumentation in the chambers included: (1) Continue development of a chemical aerosol generation and sampling capability; and (2) Characterization of improved and/or articulated testing fixtures;			

	01102/10011 125				
Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and	Biological Defense Program		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	PROJEC TE7: TES	T ST & EVALUA	TION (OP S	YS DEV)	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
and (3) Continue enhancement of toxic industrial chemical detection a detection capability.	and test capability; and (4) Non-Traditional Agent to	est and			
FY 2012 Plans: Continue to provide for modernization of existing instrumentation and of the CB defense mission. These consist of the following: (1) the Ma real-world decontamination operations can be tested; (2) Building 416 laboratories used for the testing of chemical protective material with c Facility, which houses chemical simulant vapor test chamber and an a chambers included: (1) Continue development of a chemical aerosol of improved and/or articulated testing fixtures; and (3) Continue enhance capability; and (4) Non-Traditional Agent test and detection capability	ateriel Test Facility which is a unique test chamber 65, which houses updated chemical-surety test facilithemical agents and simulants; and the (3) Aerosol aerosol test chamber. Modernization of instrument generation and sampling capability; and (2) Charac neement of toxic industrial chemical detection and	where ilities and Test ation in the cterization			
Title: 3) DPG - MRTFB			1.058	1.059	0.792
FY 2010 Accomplishments: Enhanced existing instrumentation and equipment at the Target S, Do their CB defense mission. The CB Test Grids are critical for all Devel Efforts are to address requirements not addressed by the PD TESS T Increased resolution and coverage areas for meteorological monitoring management to support monitoring and testing without affecting eagle meteorology equipment and other equipment outside of the standard systems for TICs and aerosols.	lopmental Tests/Operational Tests of CB defense s Test Grid project. Modernization efforts included: (ing and unique testing requirements; (2) Required rates and migratory birds; (3) Wireless network to support the support of the s	systems. 1) aptor port			
FY 2011 Plans: Continue to enhance existing instrumentation and equipment at the T support of their CB defense mission. Efforts are to address requiremed CB Test Grids are critical for all Developmental Tests/Operational Test will include: (1) Development of NTA field simulants and monitoring e and standoff referee systems; (3) Add testing capability to support expandagement and control to support testing without affecting eagles a	ents not addressed by the PD TESS Test Grid projects of CB defense systems. Continuing modernizal quipment; (2) Increased TIC testing capability for be panded use of agent like organisms (ALO); and (4)	ect. The tion efforts oth point			
FY 2012 Plans: Continue to enhance existing instrumentation and equipment at the T support of their CB defense mission. Efforts are to address requiremed CB Test Grids are critical for all Developmental Tests/Operational Tests.	ents not addressed by the PD TESS Test Grid proj	ect. The			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and	d Biological Defense Program		DATE: Feb	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 7: Operational Systems Development	PROJECT TE7: TEST o	& EVALUA	TION (OP SY	'S DEV)	
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2010	FY 2011	FY 2012
will include: (1) Development of NTA field simulants and monitoring and standoff referee systems; (3) Add testing capability to support exmanagement and control to support testing without affecting eagles a	xpanded use of agent like organisms (ALO); and (4) Ra				
Title: 4) DPG - MRTFB			1.822	1.829	1.366
FY 2010 Accomplishments: Provided for revitalization and upgrade of existing instrumentation ar Dugway Proving Ground (DPG), in support of their CB test mission. of detectors, decontaminants, and protective systems to defend again and field instrumentation with current technology to include: (1) Charadvanced air purification fixture and novel closures fixture; (2) Upgratem decontamination fixture; (3) Installation support for a dynamic technology to include: (4) Characterization of upgrate toxic industrial chemical test capability.	The Combined Chemical Test Facility tests the capabi inst toxic chemical agents. This project upgrades analy- racterization of new and upgraded test fixtures such as ided control systems for small chambers such as the si- est chamber for work with surety agents and toxic chem	ility lytical s the mall nicals			
FY 2011 Plans: Provides for revitalization and upgrade of existing instrumentation and Dugway Proving Ground (DPG), in support of their CB test mission. of detectors, decontaminants, and protective systems to defend again and field instrumentation with current technology to include: (1) Char control systems for small chambers; (3) Installation support for the net (CBART) capability.	The Combined Chemical Test Facility tests the capabi inst toxic chemical agents. This project upgrades anal- racterization of new and upgraded test fixtures; (2) Upg	ility lytical graded			
FY 2012 Plans: Provides for revitalization and upgrade of existing instrumentation and Dugway Proving Ground (DPG), in support of their CB test mission. detectors, decontaminants, and protective systems to defend agains field instrumentation with current technology to include: (1) Characte control systems for small chambers.	The Combined Chemical Test Facility tests the capabit toxic chemical agents. This project upgrades analytic	ility of cal and			
		ubtotals	4.805	4.813	3.597

Exhibit R-2A, RDT&E Project Justification: PB 2012 Chemical and Bio	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0607384BP: CHEMICAL/BIOLOGICAL	TE7: TEST	& EVALUATION (OP SYS DEV)
BA 7: Operational Systems Development	DEFENSE (OP SYS DEV)		

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

T&E UPGRAD

T&E Range Instrumentation/Technology Upgrades is a continuing project. It provides for technical upgrades to DPG capabilities for Chemical and Biological training and testing DoD Chemical and Biological (CB) materiel, weapons, and weapons systems from concept through production.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Chemical and Biological Defense Program

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0607384BP: CHEMICAL/BIOLOGICAL

DEFENSE (OP SYS DEV)

PROJECT

TE7: TEST & EVALUATION (OP SYS DEV)

Test and Evaluation (\$ i	n Millions	3)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
** T&E UPGRAD - OTHT S - Technology Upgrades - DPG, UT	MIPR	Dugway Proving Grounds:DPG, UT	14.429	4.813	Feb 2011	3.597	Feb 2012	-		3.597	0.000	22.839	0.000
		Subtotal	14.429	4.813		3.597		-		3.597	0.000	22.839	0.000
			Total Prior Years Cost	FY :	2011		2012 se		2012 CO	FY 2012 Total	Cost To	Total Cost	Target Value of Contract
	_	Project Cost Totals	14.429	4.813		3.597		-		3.597	0.000	22.839	0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Chemical and Biological Defense Program

APPROPRIATION/BUDGET ACTIVITY
0400: Research, Development, Test & Evaluation, Defense-Wide
BA 7: Operational Systems Development

DATE: February 2011

R-1 ITEM NOMENCLATURE
PE 0607384BP: CHEMICAL/BIOLOGICAL
DEFENSE (OP SYS DEV)

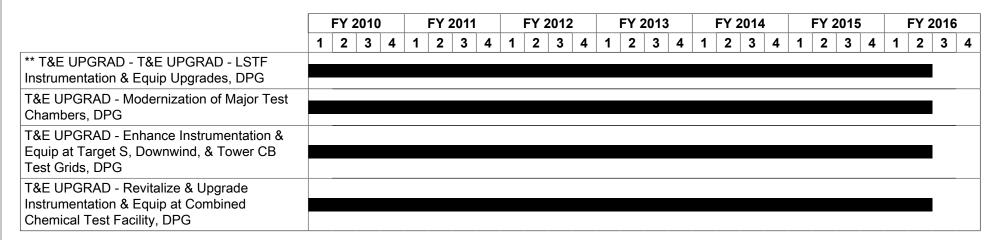


Exhibit R-4A, RDT&E Schedule Details: PB 2012 Chemical and Biological Defense Program

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0607384BP: CHEMICAL/BIOLOGICAL

DEFENSE (OP SYS DEV)

PROJECT

TE7: TEST & EVALUATION (OP SYS DEV)

Schedule Details

	St	art	Eı	nd
Events	Quarter	Year	Quarter	Year
** T&E UPGRAD - T&E UPGRAD - LSTF Instrumentation & Equip Upgrades, DPG	1	2010	2	2016
T&E UPGRAD - Modernization of Major Test Chambers, DPG	1	2010	2	2016
T&E UPGRAD - Enhance Instrumentation & Equip at Target S, Downwind, & Tower CB Test Grids, DPG	1	2010	2	2016
T&E UPGRAD - Revitalize & Upgrade Instrumentation & Equip at Combined Chemical Test Facility, DPG	1	2010	2	2016