Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Secretary Of Defense

R-1 Program Element (Number/Name)

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:

PE 0603851D8Z I Environmental Security Technology Certification Program

Date: February 2015

Advanced Component Development & Prototypes (ACD&P)

Appropriation/Budget Activity

		• •										
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	129.836	64.756	63.871	52.758	-	52.758	54.496	57.807	62.259	63.074	Continuing	Continuing
P514: Environmental Security Technology Certification Program	129.836	64.756	63.871	52.758	-	52.758	54.496	57.807	62.259	63.074	Continuing	Continuing

A. Mission Description and Budget Item Justification

(U) The Environmental Security Technology Certification Program (ESTCP) demonstrates and validates the most promising innovative environmental and energy technologies that target DoD's most urgent needs. Technologies selected are projected to provide a return on the investment through cost savings and improved efficiencies. The program responds to: (1) Congressional concern over the slow pace of remediation of environmentally polluted sites on military installations, (2) Congressional direction to conduct demonstrations specifically focused on emerging new technologies, and (3) the need to improve defense readiness by reducing the drain on the Department's operation and maintenance dollars caused by environmental restoration, waste management, and the cost of energy. Preference for demonstrations is given to technologies that have successfully completed all necessary research and development objectives, and address the highest priority DoD requirements.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	66.453	51.462	52.190	-	52.190
Current President's Budget	64.756	63.871	52.758	-	52.758
Total Adjustments	-1.697	12.409	0.568	-	0.568
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	12.500			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-0.091			
SBIR/STTR Transfer	-1.697	-			
 Program Adjustments 	-	-	0.568	-	0.568

Exhibit R-2A, RDT&E Project Ju	xhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense											Date: February 2015			
Appropriation/Budget Activity 0400 / 4					PE 0603851D8Z I Environmental Security P514 I Env					Number/Name) avironmental Security Technology on Program					
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost			
P514: Environmental Security Technology Certification Program	129.836	64.756	63.871	52.758	-	52.758	54.496	57.807	62.259	63.074	Continuing	Continuing			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

A. Mission Description and Budget Item Justification

Accomplishments/Diamed Drawens (# in Millians)

(U) The Environmental Security Technology Certification Program (ESTCP) demonstrates and validates the most promising innovative environmental and energy technologies that target DoD's most urgent needs. Technologies selected are projected to provide a return on the investment through cost savings and improved efficiencies. The program responds to: (1) Congressional concern over the slow pace of remediation of environmentally polluted sites on military installations, (2) Congressional direction to conduct demonstrations specifically focused on emerging new technologies, and (3) the need to improve defense readiness by reducing the drain on the Department's operation and maintenance dollars caused by environmental restoration, waste management, and the cost of energy. Preference for demonstrations is given to technologies that have successfully completed all necessary research and development objectives, and address the highest priority DoD requirements.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Environmental Technology Demonstration/Validation	33.604	35.236	28.415
Description: Funds are programmed for investments in projects that address priority DoD environmental requirements. The focus of the program is on live site UXO discrimination demonstrations, addressing emerging and recalcitrant cleanup issues, range sustainment technologies, and reducing life cycle costs of DoD weapon systems by eliminating hazardous materials. Accomplishments/plans are described for each FY below.			
FY 2014 Accomplishments: Funds were invested in projects that address priority DoD environmental requirements. Focused new investment topics for FY 2014 included: 1) Remediation of Contaminated Groundwater; 2) In Situ Management of Contaminated Sediments; 3) Airfield Natural Resources Managemen to Reduce Bird Air-Strike Hazard (BASH) Threats; 4) Wastewater Treatment at DoD Facilities; and 5) Military Munitions Detection, Discrimination, and Remediation. Funding in FY 2014 also supports live site UXO demonstrations. This effort will transition innovative technologies that can reduce DoD's military munitions response liabilities by approximately 75% with an expected cost savings of \$10 billion. Details are provided at www.serdp-estcp.org.			
FY 2015 Plans: Funds are planned for continued investment in projects that address priority DoD environmental requirements. New investment topics for FY 2015 include: 1) Remediation of Contaminated Groundwater; 2) In Situ Management of Contaminated Sediments;			

Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Se	cretary Of Defense	Date: F	ebruary 2015	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603851D8Z I Environmental Security Technology Certification Program	Project (Number/N P514 / Environmen Certification Progra	tal Security T	echnology
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
3) Characterization, Control, and Treatment of Range Contamination; a Remediation.	nd 4) Military Munitions Detection, Discrimination, an	d		
FY 2016 Plans: Funds are planned for continued investment in projects that address pr	ority DoD environmental requirements.			
Title: Energy Technology Demonstration/Validation		31.152	28.635	24.34
Description: Funds are programmed for investments in projects that resto increase energy efficiency, reduce installation energy intensity, incresecurity. Emerging energy technologies offer DoD a cost effective opportune consumption and improved energy security on its installations while reduce the invested in energy projects that constitute the Installation E and tests the operational cost and performance of innovative energy testo as to reduce risk, overcome the barriers to deployment, and facilitate exploits the Department's existing built infrastructure to test energy efficiently ESTCP solicited proposals in two areas: 1) Smart and Secure Military I Energy Management and Control. It is a distributed test bed designed conditions and building types DoD manages. The test beds key element systematic and consistent evaluation to determine performance, operator of guidance and design information for future deployment across install validated through previous Congressional funding. Information on existing the install provided through previous congressional funding. Information on existing the install provided through previous congressional funding. Information on existing the install provided through previous congressional funding. Information on existing the install provided through previous congressional funding.	ease the use of renewable energy, and improve energy ortunity to meet these requirements for reduced energy auditional costs. Energy Test Bed Initiative. The test bed program valid chnologies in a real-world integrated building environment wide-scale deployment. The DoD test bed program being and renewable energy technologies. In FY 201 installation Energy Management and 2) Advanced Building energy technologies under the varied climates are: 1) competitive selection of new technologies, 2 ional readiness and life cycle costs, and 3) developmentations. This process has been developed, piloted, and	ates ment 4 Iding atic 2) ent		
FY 2015 Plans: Funds are planned to continue investments in energy and water project	s that constitute the Installation Energy Test Bed Initi	ative.		
FY 2016 Plans: Funds are planned to continue investments in energy and water project	s that constitute the Installation Energy Test Red Initi	ative		
i and are planned to continue investments in energy and water project	Accomplishments/Planned Programs Sub		63.871	52.75
	Accomplishments/Flanned Flograms Sub	10tais 04.730	03.07 1	52.

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

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary 0	Of Defense		Date: February 2015
0400 / 4	,	, ,	umber/Name) vironmental Security Technology n Program

D. Acquisition Strategy

ESTCP solicits proposals from all DoD organizations, other Federal Agencies, and the commercial sector. Projects are selected based on an annual competitive process through reviews by multi-agency panels.

E. Performance Metrics

Performance in this program is monitored at two levels. At the lowest level, each individual project is measured against technical and financial milestones on a quarterly and annual basis. At a program-wide level, progress is measured against DoD's environmental requirements and the demonstration and transition of technologies that address these requirements.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Offi					2001 Cital y						Duning		February		
Appropriation/Budget Activity 0400 / 4						PE 060	ogram Ele 3851D8Z <i>logy Certi</i>	I Environ	mental S	•	P514 /	(Number Environme ation Prog	ental Sec	urity Tech	nology
Support (\$ in Million	ns)		FY 2	2014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Support Contract	C/IDDQ	HGL : Reston, VA	6.560	2.600		2.600		2.600		-		2.600	Continuing	Continuing	-
	·!	Subtotal	6.560	2.600		2.600		2.600		-		2.600	-	-	-
Test and Evaluation	(\$ in Milli	ions)		FY 2	014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Energy and Water	C/TBD	TBD : TBD	55.661	27.134		28.486		22.368		-		22.368	Continuing	Continuing	j -
Weapons Systems and Platforms	C/TBD	TBD : TBD	17.913	9.278		9.153		7.473		-		7.473	Continuing	Continuing	-
Munitions Response	C/TBD	TBD : TBD	13.876	7.187		7.754		6.117		-		6.117	Continuing	Continuing	-
Environmental Restoration	C/TBD	TBD : TBD	22.959	11.892		10.654		8.900		-		8.900	Continuing	Continuing	-
Resource Conservation and Climate Change	C/TBD	TBD : TBD	12.867	6.665		5.224		5.300		-		5.300	Continuing	Continuing	-
		Subtotal	123.276	62.156		61.271		50.158		-		50.158	-	-	-
			Prior Years	FY 2	014	FY 2	2015	FY 2 Ba			2016 CO	FY 2016 Total	Cost To	Total Cost	Target Value of Contract
			Icais												

Remarks

PE 060385108Z I Environmental Security Technology Certification Program Display	bit R-4, RDT&E Schedule Profile	: PB 2016 Offic	e of the Secretary Of Do	efense			Date: February 2015
1 □ □ Pry 2014 in Progress Reviews 174 days 7 days	oropriation/Budget Activity 0 / 4		PE 0603851D82	Z I Environmental	Security	P514 I Environmental Security Technol	
Project: ESTCP R-4 Date: Mon 7/21/14 Split Summary External Milestone	1 FY 2014 In Progress Re 2 Develop FY 2015 Progr	eviews 174 days? am 218 days? eviews 173 days? am 217 days?	Tue 10/1/13 Fri 5/30/14 Wed 1/1/14 Fri 10/31/14 Wed 10/1/14 Fri 5/29/15 Thu 1/1/15 Fri 10/30/15	4 5 5 5	2014 tr 4 Otr 1 Otr 2	Otr 3 Otr 4	2015 2016 Otr 1 Otr 2 Otr 3 Otr 4 Otr 1 Otr 2
Project: ESTCP R-4 Date: Mon 7/21/14 Split Summary External Milestone							
Project: ESTCP R-4 Date: Mon 7/21/14 Split Summary External Milestone							
Project: ESTCP R-4 Date: Mon 7/21/14 Split Summary External Milestone							
Progress Project Summary Deadline	Project: ESTCP R-4 Date: Mon 7/21/14		Sui			nal Milestone	ф Ф
Page 1		10-10-10-10-10-10-10-10-10-10-10-10-10-1		Page 1			

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Office of the Secretary Of D	Defense		Date: February 2015
Appropriation/Budget Activity 0400 / 4	, ,	, ,	umber/Name) vironmental Security Technology n Program

Schedule Details

	St	tart	En	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
In Progress Reviews				
FY 2014 In Progress Reviews	1	2014	2	2014
FY 2015 In Progress Reviews	4	2014	2	2015
FY 2016 In Progress Reviews	4	2015	2	2016
Develop Program				
Develop FY 2015 Program	1	2014	4	2014
Develop FY 2016 Program	1	2015	4	2015