Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense

Appropriation/Budget Activity

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: March 2014

Advanced Component Development & Prototypes (ACD&P)

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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	61.838	67.998	66.453	51.462	-	51.462	52.190	54.130	57.549	62.143	Continuing	Continuing
P514: Environmental Security Technology Certification Program	61.838	67.998	66.453	51.462	-	51.462	52.190	54.130	57.549	62.143	Continuing	Continuing

[#] The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

(U) 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	75.941	71.453	60.414	-	60.414
Current President's Budget	67.998	66.453	51.462	-	51.462
Total Adjustments	-7.943	-5.000	-8.952	-	-8.952
Congressional General Reductions	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
FY 13 Program Adjustment	-7.943	-	-	-	-
FY 14 Program Reduction	-	-5.000	-	-	-
FY 15 Strategic Efficiency Reduction	-	-	-8.952	-	-8.952

Change Summary Explanation

FY 13 and 14 program decreases are a result of General Congressional reductions.

FY 2015 Funding decreased to match the department's mission priorities.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of Defense								Date: March 2014				
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0603851D8Z I Environmental Security Technology Certification Program				Project (Number/Name) P514 I Environmental Security Technology Certification Program			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P514: Environmental Security Technology Certification Program	61.838	67.998	66.453	51.462	-	51.462	52.190	54.130	57.549	62.143	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

^{*} The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

B Accomplishments/Planned Programs (\$ in Millions)

(U) 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/Flamed Frograms (\$ in millions)	F1 2013	FY 2014	F1 2015
Title: Environmental Technology Demonstration/Validation	39.444	34.453	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 2013 Accomplishments: In FY 2013 projects were funded to address priority DoD environmental requirements. Focused new investment topics for FY 2013 included: 1) Remediation of Contaminated Groundwater; 2) In Situ Management of Contaminated Sediments; 3) Characterization, Control, and Treatment of Range Contamination; 4) Watershed Management Tools for DoD Installations; 4) Alternatives to Cadmium Plating in Manufacturing and Maintenance of Weapons Systems; and 5) Military Munitions Detection, Discrimination, and Remediation. Details are provided at www.serdp-estcp.org			
FY 2014 Plans: Funds are planned for continued investment in projects that address priority DoD environmental requirements. Focused new investment topics for FY 2014 include: 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			

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EV 2012 EV 2014 EV 2015

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Se	ecretary Of Defense	Dat	e: March 2014			
Appropriation/Budget Activity 0400 / 4	P514 I Environ	oject (Number/Name) i14 I Environmental Security Technology ertification Program				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 201	3 FY 2014	FY 2015		
supports live site UXO demonstrations. This effort will transition in response liabilities by approximately 75% with an expected cost sa estcp.org.		tions				
FY 2015 Plans: Funds are planned for continued investment in projects that addre topics for FY 2015 include: 1) Remediation of Contaminated Grour 3) Characterization, Control, and Treatment of Range Contaminating Remediation.	ndwater; 2) In Situ Management of Contaminated Sedimer	nts;				
Title: Energy Technology Demonstration/Validation		28.	32.000	23.04		
Description: Funds are programmed for investments in projects the to increase energy efficiency, reduce installation energy intensity, security. Emerging energy technologies offer DoD a cost effective consumption and improved energy security on its installations while FY 2013 Accomplishments: In FY 2013 funds were invested in energy projects that constitute the is validating and testing the operational cost and performance of intenvironment so as to reduce risk, overcome the barriers to deploy program exploits the Department's existing built infrastructure to the three areas: component technologies (i.e., HVAC, lighting, distribution design, control, and management; and installation-level smart mice evaluate energy technologies under the varied climatic conditions are: 1) competitive selection of new technologies, 2) systematic are readiness and life cycle costs, and 3) development of guidance and This process has been developed, piloted, and validated through process	increase the use of renewable energy, and improve energy opportunity to meet these requirements for reduced energy energy and operational costs. The Installation Energy Test Bed Initiative. The test bed promovative energy technologies in a real-world integrated by ment, and facilitate wide-scale deployment. The DoD test est energy efficiency and renewable energy technologies in ted energy generation); system approaches to building entro-grid technologies. It is a distributed test bed designed the and building types DoD manages. The test beds key element does not evaluation to determine performance, operated design information for future deployment across installation environment of the information on existing the constitute the Installation Energy Test Bed Initiative. The reformance of innovative energy technologies in a real-world the barriers to deployment, and facilitate wide-scale deployment infrastructure to test energy efficiency and renewable energy energy and renewable energy efficiency and renewable energy.	gy ogram uilding bed n ergy o ents ional tions.				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Office	e of Secretary Of Defense		Date: N	/larch 2014	
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603851D8Z I Environmental Security Technology Certification Program	Project (Number/Name) P514 I Environmental Security Technolo Certification Program			
under the varied climatic conditions and building types DoD r of new technologies, 2) systematic and consistent evaluation costs, and 3) development of guidance and design informatic	It is a distributed test bed designed to evaluate energy technomanages. The test beds key elements are: 1) competitive select to determine performance, operational readiness and life cycles on for future deployment across installations. This process has sional funding. Information on existing demonstrations can be for	ologies etion e been	FY 2013	FY 2014	FY 2015
FY 2015 Plans: Funds are planned to continue investments in energy project	s that constitute the Installation Energy Test Bed Initiative.				

Accomplishments/Planned Programs Subtotals

67.998

66.453

51.462

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

N/A

Remarks

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.