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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
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Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
0400: Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)	PE 0603851D8Z / Environmental Security Technology Certification Program											
COST (\$ in Millions)	Prior Years ⁽⁺⁾	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	269.024	51.380	52.491	54.583	-	54.583	58.647	59.550	60.717	61.994	Continuing	Continuing
P514: Environmental Security Technology Certification Program	263.024	51.380	52.491	54.583	-	54.583	58.647	59.550	60.717	61.994	Continuing	Continuing

⁽⁺⁾ The sum of all Prior Years is \$6.000 million less than the represented total due to several projects ending

A. Mission Description and Budget Item Justification

(U) The Environmental Security Technology Certification Program (ESTCP) demonstrates and validates promising and 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	51.380	52.491	54.433	-	54.433
Current President's Budget	51.380	52.491	54.583	-	54.583
Total Adjustments	0.000	0.000	0.150	-	0.150
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• DTIC Offset	-	-	0.150	-	0.150

Change Summary Explanation

Funding realigned to other programs. Other reductions in FY 18 is a result of department efficiency and economic assumptions adjustments.

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense										Date: May 2017		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0603851D8Z / Environmental Security Technology Certification Program				Project (Number/Name) P514 / Environmental Security Technology Certification Program			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P514: Environmental Security Technology Certification Program	263.024	51.380	52.491	54.583	-	54.583	58.647	59.550	60.717	61.994	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

(U) The Environmental Security Technology Certification Program (ESTCP) demonstrates and validates promising and 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 2016	FY 2017	FY 2018
Title: Environmental Technology Demonstration/Validation	31.290	27.247	32.223
Description: Funds are programmed for investments in projects that address priority DoD environmental requirements. The focus of the program is on live site unexploded ordnance (UXO) in the underwater environment, 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 2016 Accomplishments: Funds were invested in projects that address priority DoD environmental requirements. Focused new investment topics for FY 2016 include: 1) Management of Contaminated Groundwater and 2) Detection, Classification, and Remediation of Military Munitions in Underwater Environments. Details are provided at www.serdp-estcp.org .			
FY 2017 Plans: Funds are planned for continued investment in projects that address priority DoD environmental requirements and new Investments in technology for the most challenging remaining groundwater restoration sites, scale up demonstrations for Underwater Unexploded Ordnance, and demonstrations of environmentally benign surface engineering technology at larger scales.			
FY 2018 Plans:			

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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603851D8Z / <i>Environmental Security Technology Certification Program</i>	Project (Number/Name) P514 / <i>Environmental Security Technology Certification Program</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017
Funds are planned for continued investment in projects that address priority DoD environmental requirements and new Investments in technology for the most challenging remaining groundwater restoration sites, scale up demonstrations for Underwater Unexploded Ordnance, and demonstrations of environmentally benign surface engineering technology at larger scales.			
Title: Energy Technology Demonstration/Validation Description: Funds are programmed for investments in energy projects that constitute the Installation Energy Test Bed Initiative. This initiative responds to Congressional direction for the Department to increase energy efficiency, reduce installation energy intensity, increase the use of renewable energy, and improve energy security. Emerging energy technologies offer DoD a cost effective opportunity to meet these requirements on its installations while reducing energy and operational costs. The DoD test bed program validates and tests the operational cost and performance of innovative energy technologies in a real-world integrated building environment so as to reduce risk, overcome the barriers to deployment, and facilitate wide-scale deployment. The test bed program exploits the Department's existing built infrastructure to evaluate energy efficiency and renewable energy technologies under the varied climatic conditions and building types DoD manages. The test bed's key elements are: 1) competitive selection of new technologies, 2) systematic and consistent evaluation to determine performance, operational readiness and life cycle costs, and 3) development of guidance and design information for future deployment across installations. FY 2016 Accomplishments: Funds were invested in energy and water projects that constitute the Installation Energy Test Bed Initiative. In FY 2016, ESTCP solicited proposals for funding in two areas: 1) Energy Generation, Storage, Dispatch and Management on Military Installations and 2) Cybersecure Connectivity for Energy System Components and Military Installation Energy Infrastructure. Details are provided at www.serdp-estcp.org . FY 2017 Plans: Funds are planned to continue investments in energy and water projects that constitute the Installation Energy Test Bed Initiative. FY 2018 Plans: Funds are planned to continue investments in energy and water projects that constitute the Installation Energy Test Bed Initiative.		20.090	25.244
Accomplishments/Planned Programs Subtotals		51.380	52.491
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			

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<p><u>D. Acquisition Strategy</u></p> <p>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.</p> <p><u>E. Performance Metrics</u></p> <p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Office of the Secretary Of Defense													Date: May 2017		
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Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Support Contract	C/IDDQ	Noblis : Falls Church, VA	11.760	2.666		2.425		2.380		-		2.380	Continuing	Continuing	-
Subtotal			11.760	2.666		2.425		2.380		-		2.380	-	-	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Energy and Water	C/Various	Various : Various	112.610	18.762		24.032		23.743		-		23.743	Continuing	Continuing	-
Weapons Systems and Platforms	C/Various	Various : Various	37.344	9.936		8.011		9.226		-		9.226	Continuing	Continuing	-
Munitions Response	C/Various	Various : Various	29.433	3.945		4.005		5.300		-		5.300	Continuing	Continuing	-
Environmental Restoration	C/Various	Various : Various	46.121	11.299		9.012		10.051		-		10.051	Continuing	Continuing	-
Resource Conservation and Resiliency	C/Various	Various : Various	25.756	4.772		5.006		3.883		-		3.883	Continuing	Continuing	-
Subtotal			251.264	48.714		50.066		52.203		-		52.203	-	-	-
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			263.024	51.380		52.491		54.583		-		54.583	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Office of the Secretary Of Defense			Date: May 2017
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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Office of the Secretary Of Defense			Date: May 2017
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603851D8Z / Environmental Security Technology Certification Program	Project (Number/Name) P514 / Environmental Security Technology Certification Program	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>In Progress Reviews</i>				
FY 2015 In Progress Reviews	1	2015	3	2015
FY 2016 In Progress Reviews	1	2016	3	2016
FY 2017 In Progress Reviews	1	2017	3	2017
<i>Develop Program</i>				
Develop FY 2016 Program	1	2015	4	2015
Develop FY 2017 Program	1	2016	4	2016