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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense	Date: March 2014
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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 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.

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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</i>				Project (Number/Name) P514 / <i>Environmental Security Technology Certification Program</i>			
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: <i>Environmental Security Technology Certification Program</i>	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

(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/Planned Programs (\$ in Millions)

Title: Environmental Technology Demonstration/Validation	FY 2013	FY 2014	FY 2015
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 Management 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	39.444	34.453	28.415

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
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; 3) Characterization, Control, and Treatment of Range Contamination; and 4) Military Munitions Detection, Discrimination, and Remediation.				
Title: Energy Technology Demonstration/Validation Description: Funds are programmed for investments in projects that respond 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 for reduced energy consumption and improved energy security on its installations while reducing energy and operational costs. FY 2013 Accomplishments: In FY 2013 funds were invested in energy projects that constitute the Installation Energy Test Bed Initiative. The test bed program is validating and testing 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 DoD test bed program exploits the Department's existing built infrastructure to test energy efficiency and renewable energy technologies in three areas: component technologies (i.e., HVAC, lighting, distributed energy generation); system approaches to building energy design, control, and management; and installation-level smart micro-grid technologies. It is a distributed test bed designed to evaluate energy technologies under the varied climatic conditions and building types DoD manages. The test beds 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. This process has been developed, piloted, and validated through previous Congressional funding. Information on existing demonstrations can be found at www.serdp-estcp.org. FY 2014 Plans: Funds are planned to continue investments in energy projects that constitute the Installation Energy Test Bed Initiative. The test bed program will validate and test 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 DoD test bed program exploits the Department's existing built infrastructure to test energy efficiency and renewable energy technologies. In Fy 2014 ESTCP solicited proposals in two areas: 1) Smart and Secure Military Installation Energy Management		28.554	32.000	23.047

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014
and 2) Advanced Building Energy Management and Control. It is a distributed test bed designed to evaluate energy technologies under the varied climatic conditions and building types DoD manages. The test beds 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. This process has been developed, piloted, and validated through previous Congressional funding. Information on existing demonstrations can be found at www.serdp-estcp.org. FY 2015 Plans: Funds are planned to continue investments in energy projects that constitute the Installation Energy Test Bed Initiative.			
Accomplishments/Planned Programs Subtotals		67.998	66.453
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.			