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

R-1 ITEM NOMENCLATURE

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

PE 0603716D8Z: Strategic Environmental Research and Development Program (SERDP)

DATE: April 2013

BA 3: Advanced Technology Development (ATD)

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	64.220	65.282	72.324	-	72.324	75.832	78.147	83.196	85.047	Continuing	Continuing
P470: Strategic Environmental Research and Development Program (SERDP)	-	64.220	65.282	72.324	-	72.324	75.832	78.147	83.196	85.047	Continuing	Continuing

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Congress established the Strategic Environmental Research and Development Program (SERDP) in 1990 (10 U.S.C. Section 2901-2904) to address Department of Defense (DoD) and Department of Energy (DOE) environmental concerns. It is conducted as a DoD program, jointly planned and executed by the DoD, DOE, and the Environmental Protection Agency (EPA), with strong participation by other Federal agencies, industry, and academia. SERDP's objective is to improve DoD mission readiness and environmental performance by providing new scientific knowledge and cost-effective technologies in the areas of Environmental Restoration, Munitions Response, Resource Conservation and Climate Change, and Weapons Systems and Platforms. SERDP does this by addressing high priority DoD environmental technology requirements. SERDP enhances military operations, improves military systems' effectiveness, enhances military training/readiness, sustains DoD's training and test ranges and installation infrastructure, and helps ensure the safety and welfare of military personnel and their dependents by eliminating or reducing the generation of pollution and use of hazardous materials and reducing the cost of remedial actions and compliance with environmental laws and regulations. As a secondary benefit, SERDP helps solve significant national and international environmental problems. The keys to a growing list of SERDP technological successes are the ability to respond aggressively and proactively to priority defense environmental needs; the pursuit of world-class technical excellence; and an emphasis on constant technology transfer.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	64.565	65.282	66.552	-	66.552
Current President's Budget	64.220	65.282	72.324	-	72.324
Total Adjustments	-0.345	0.000	5.772	-	5.772
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
Congressional Directed Transfers	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Adjustments	-0.345	0.000	5.772	-	5.772

PE 0603716D8Z: Strategic Environmental Research and Development

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^{##} The FY 2014 OCO Request will be submitted at a later date

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Sec	cretary Of Defense	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603716D8Z: Strategic Enviro	nmental Research and Development Program (SERDI
Change Summary Explanation The revised funding levels for FY14 are due to the need to addresincludes additional funding to address high priority issues including development of munitions with fewer environmental impacts.		

PE 0603716D8Z: Strategic Environmental Research and Development

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense								DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)				PE 0603716D8Z: Strategic Environmental				PROJECT P470: Strategic Environmental Research and Development Program (SERDP)				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
P470: Strategic Environmental Research and Development Program (SERDP)	-	64.220	65.282	72.324	-	72.324	75.832	78.147	83.196	85.047	Continuing	Continuing

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Environmental Restoration	17.068	17.967	18.697
Description: Environmental Restoration (ER) reduces DoD's liabilities by developing technologies for the cost-effective detection, characterization, containment, and remediation of contamination in soil, sediments, and water.			
FY 2012 Accomplishments: New research initiatives focused on the highest priority DoD requirements to reduce DoD's liabilities by developing technologies for the cost-effective detection, characterization, containment, and remediation of contamination in soil, sediments, and water. Specific Statements of Need were released and projects initiated that will address the development of sustainable wastewater treatment processes for forward operating bases and assessing the environmental fate and impacts of insensitive munitions compounds. Details are available at www.serdp-estcp.org.			
EV 2013 Plans			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense		DATE: /	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603716D8Z: Strategic Environmental Research and Development Program (SERDP) PROJECT P470: Strategic Environmental Re and Development Program (SERD				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
New research initiatives will focus on the highest priority DoD requirement for the cost-effective detection, characterization, containment, and reme Specific Statements of Need were released and proposals are being sel dioxane-contaminated groundwater and improved remediation technology groundwater. Details are available at www.serdp-estcp.org.	ediation of contamination in soil, sediments, and wate lected that will address in situ remediation of 1,4-	er.			
FY 2014 Plans: New research initiatives will focus on the highest priority DoD requireme for the cost-effective detection, characterization, containment, and reme					
Title: Munitions Response (MR)			8.496	8.396	9.117
Description: Munitions Response (MR) develops detection, discriminat Ordnance (UXO) to address the significant DoD liability in the Military M to improve active range clearance and to reduce generation of UXO dur FY 2012 Accomplishments: New research initiatives focused on the highest priority DoD requirement during departs a signal processing supporting technologies, and processing accomplishments.	unitions Response Program. Investments are also noting live fire testing and training operations. Into in underwater UXO detection and discrimination,				
advanced sensors, signal processing, supporting technologies, and prot remediating UXO on land and underwater. Statements of Need were re Details are available at www.serdp-estcp.org.					
FY 2013 Plans: New research initiatives will focus on the highest priority DoD requireme advanced sensors, signal processing, supporting technologies, and prot remediating UXO on land and underwater. Statements of Need were re issues. Details are available at www.serdp-estcp.org.	tocols to reduce the costs associated with detecting a	and			
FY 2014 Plans: New research initiatives will focus on the highest priority DoD requireme advanced sensors, signal processing, supporting technologies, and protremediating UXO on land and underwater.					
Title: Resource Conservation and Climate Change (RC)			21.545	21.839	24.324
Description: Resource Conservation and Climate Change (RC) developed training and testing ranges.	ps the science and technologies required to sustain				
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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secreta	ary Of Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603716D8Z: Strategic Environmental Research and Development Program (SERDP)	PROJECT P470: Strategic Environmental Research and Development Program (SERDP)			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: New research initiated in FY 2012 included assessing the impacts of clir the understanding of the behavioral ecology of cetaceans; developing furestore forested ecosystems on Department of Defense (DoD) lands; and for populations of species of relevance to DoD resource managers. A diffound at www.serdp-estcp.org.	undamental and applied science required to manage nd improving our understanding of source-sink dynar	and nics			
FY 2013 Plans: New research initiatives will focus on the highest priority DoD requirements sustain training and testing ranges and respond to requirements in the 2 impacts to DoD installations. Specific Statements of Need were released these issues. Details are available at www.serdp-estcp.org.	2010 QDR, including the assessment of climate char	nge			
FY 2014 Plans: New research initiatives will focus on the highest priority DoD requirements sustain training and testing ranges and respond to requirements in the 2 impacts to DoD installations.					
Title: Weapons Systems and Platforms (WP)			17.111	17.080	20.186
Description: Weapons Systems and Platforms (WP) develops technologassociated with the manufacturing, maintenance, and use of DoD weapoliabilities and their associated costs and impacts.					
FY 2012 Accomplishments: New initiatives included the development of chemical agent resistant poinsensitive secondary explosives; waste-to-energy converters for overse of tin-whisker-mitigating conformal coatings. A description of all WP projectop.org.	eas contingency operations; and assessing the reliab				
FY 2013 Plans: New research initiatives will focus on the highest priority DoD requirement waste and emissions associated with the manufacturing, maintenance, a future environmental liabilities and their associated costs and impacts. Such the development of non-isocyanate Polymers for Military Topcoats, Ionic	and use of DoD weapons systems and platforms to r Specific Statements of Need were released to addre	educe			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0603716D8Z: Strategic Environmental	P470: Stra	tegic Environmental Research
BA 3: Advanced Technology Development (ATD)	Research and Development Program (SERDP)	and Develo	opment Program (SERDP)
	•	•	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
submunitions, and the application of synthetic biological techniques for energetic materials. Details are available at www.serdp-estcp.org.			
FY 2014 Plans: New research initiatives will focus on the highest priority DoD requirements to develop technologies and materials that reduce the waste and emissions associated with the manufacturing, maintenance, and use of DoD weapons systems and platforms to reduce future environmental liabilities and their associated costs and impacts.			
Accomplishments/Planned Programs Subtotals	64.220	65.282	72.324

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance in this program is monitored at two levels. At the lowest level, each of the more than 160 individual projects is measured against both 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 development of technologies that address these requirements as well as the transition of these technologies to either to demonstration and validation programs or to direct use in the field.

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