Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 0603859F I Pollution Prevention - Dem/Val

Component Development & Prototypes (ACD&P)

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	-	0.953	0.998	-	-	-	-	-	-	-	Continuing	Continuing
644852: Pollution Prevention	-	0.953	0.998	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Air Force

In FY2016, Project Number 644852 Pollution Prevention was terminated.

A. Mission Description and Budget Item Justification

This project funds R&D activities that demonstrate and prototype alternative weapon system manufacturing, remanufacturing, and maintenance materials and processes that reduce or eliminate hazardous chemicals, materials and waste streams through cost-effective programs and practices, while improving energy efficiency and reducing greenhouse gas emissions. Upon proof of the new process or materials, the resulting product can be transitioned to depot maintenance processes, which results in reduced maintenance costs, reduced depot flow time, and increases asset availability. Specifically, funds target pollution prevention technologies that reduce or eliminate chromium, cadmium, and nickel, as well as reduce or eliminate Hazardous Air Pollutants (HAPS), Volatile Organic Compounds (VOCs), and Class I and II Ozone Depleting Substances (ODS), global warmers and biochemical oxygen demand (BOD) and to increase the use of renewable and alternative fuels.

This effort is in Budget Activity 04, Advanced Component Development and Prototypes, because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	0.953	1.798	1.750	-	1.750
Current President's Budget	0.953	0.998	-	-	-
Total Adjustments	-	-0.800	-1.750	-	-1.750
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-0.800			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments	-	-	-1.750	-	-1.750

Change Summary Explanation

FY2016 program termination due to higher Air Force priorities.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force		Date: Fe	ebruary 2015	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0603859F / Pollution Prevention - Dem/Val			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Title: Low Observable Laser De-coating System		0.350	0.300	-
Description: Investigations and demonstrations to adapt the ALC-deployed who observable coatings used on B-2, F-22, F-35 aircraft and other low observable				
FY 2014 Accomplishments: Transition effort from Strategic Environmental Research and Development Progrequirements to remove low-observable coatings from weapon systems.	gram (SERDP). Qualify lasers against technical			
FY 2015 Plans: Demonstrate ability to successfully remove low-observable coatings.				
FY 2016 Plans: N/A				
Title: Hexavalent Chromium Replacement RDT&E		0.295	0.300	-
Description: Effort to reduce hexavalent chromium in weapon system paints, of Supports AF Environmental Management System (EMS) #1 ranked AF-wide sign 2009-2013 OSHA violations at three ALCs.				
FY 2014 Accomplishments: Investigate technical requirements across multiple weapon systems; identify te alternatives.	chnically feasible hexavalent chromium			
FY 2015 Plans: Demonstrate and validate alternative solutions for specific weapon system produced by the specific weapon system of the specific weapon system by the specific weapon system of the specific weapon sy	esses.			
FY 2016 Plans: N/A				
Title: Cadmium Replacement RDT&E		0.295	0.300	-
Description: Effort to reduce cadmium in weapon system coatings and plating. (EMS) #1 ranked AF-wide significant aspect. Critical element of AF response to				
FY 2014 Accomplishments: Focus on repair operations and Cadmium plated fasteners for substitution.				
FY 2015 Plans:				

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R-1 Program Element (Number/Name) PE 0603859F I Pollution Prevention - Dem/Val	Date: F	ebruary 2015 FY 2015	
PE 0603859F I Pollution Prevention - Dem/Val	FY 2014	EV 2015	
rs.	FY 2014	EV 2015	
rs.		F1 2013	FY 2016
	0.013	-	
availability.			
	-	0.098	-
•			
availability.			
Accomplishments/Planned Programs Subtotals	0.953	0.998	
1	amental aspects; P2 dem/val of technologies to raft availability. availability. amental aspects; P2 dem/val of technologies to raft availability. availability. Accomplishments/Planned Programs Subtotals	availability.	raft availability. availability. - 0.098 mental aspects; P2 dem/val of technologies to raft availability. - availability.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force		Date: February 2015
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 Program Element (Number/Name) PE 0603859F I Pollution Prevention - Dem/Val	
Appropriation/Budget Activity 600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P) E. Acquisition Strategy Pollution Prevention activities are level of effort and use time and materials support contracts.		
		esources are contributing to Air

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	016 Air F	orce							-	Date:	February	2015		
Appropriation/Budg 3600 / 4		R-1 Program Element (Number/Name) PE 0603859F I Pollution Prevention - Dem/ Val Project (Number/Name) 644852 I Pollution Prevention														
Product Developme	ent (\$ in M	illions)		FY 2	2014	FY 2	015		2016 ise		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 Complete	Total Cost	Target Value of Contrac	
Air Force Research Lab	Various	Various : Various,	-	0.924		0.998		-		-		-	Continuing	Continuing	ТВ	
		Subtotal	-	0.924		0.998		-		-		-	-	-	-	
Support (\$ in Million	าร)			FY 2	2014	FY 2	015		2016 ise		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 Contrac	
Air Force Research Lab	Various	Various : Various	-	-		-		-		-		-	Continuing	Continuing	TBI	
		Subtotal	-	-		-		-		-		-	-	-	-	
Test and Evaluation	t and Evaluation (\$ in Millions)			FY 2014		FY 2015			FY 2016 Base		2016	FY 2016				
	٠.			FY 2	2014	FY 2	015	Ва	ise	00	CO	Total				
Cost Category Item	Contract Method & Type		Prior Years	FY 2	Award Date	FY 2	Award Date	Ba Cost	Award Date	Cost	Award Date	Total	Cost To	Total Cost	Value of	
Cost Category Item Air Force Research Lab	Contract Method	Performing			Award		Award		Award		Award		Complete	Cost	Target Value of Contrac	
	Contract Method & Type	Performing Activity & Location			Award		Award		Award		Award		Complete	t To Total Va		
	Contract Method & Type Various	Performing Activity & Location Various : Various Subtotal			Award Date		Award Date	Cost - - FY 2	Award Date	Cost - - FY 2	Award		Complete	Cost	Value of Contrac	
Air Force Research Lab	Contract Method & Type Various	Performing Activity & Location Various : Various Subtotal		Cost - -	Award Date	Cost - -	Award Date	Cost - - FY 2	Award Date	Cost - - FY 2	Award Date	Cost FY 2016	Complete	Cost	Value of Contract TB - Target Value of	
Air Force Research Lab Management Service	Contract Method & Type Various ces (\$ in N Contract Method	Performing Activity & Location Various : Various Subtotal fillions)	Years - - - Prior	Cost -	Award Date	Cost -	Award Date	Cost - - FY 2 Ba	Award Date	Cost -	Award Date	Cost FY 2016 Total	Complete Continuing - Cost To	Cost Continuing - Total Cost	Target Value of Contract	
Air Force Research Lab Management Servic Cost Category Item	Contract Method & Type Various ces (\$ in N Contract Method & Type	Performing Activity & Location Various : Various Subtotal lillions) Performing Activity & Location	Years - - - Prior	Cost FY 2	Award Date	Cost FY 2	Award Date	Cost FY 2 Ba	Award Date	Cost	Award Date	Cost FY 2016 Total	Complete Continuing - Cost To Complete	Cost Continuing - Total Cost	Target Value of Contract	
Air Force Research Lab Management Servic Cost Category Item	Contract Method & Type Various ces (\$ in N Contract Method & Type	Performing Activity & Location Various : Various Subtotal lillions) Performing Activity & Location Various : Various,	Years - - - Prior	Cost FY 2 Cost 0.029	Award Date 2014 Award Date	Cost FY 2 Cost	Award Date 015 Award Date	Cost FY 2 Ba Cost FY 2	Award Date	Cost FY: Of	Award Date	Cost FY 2016 Total	Complete Continuing - Cost To Complete	Cost Continuing - Total Cost	Target Value of Contract TBI	

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xhibit R-4, RDT&E Schedule Profile: PB	3 2016 Air	Fo	rce																				Dat	e: Fe	ebru	ary	201	5	
Appropriation/Budget Activity 3600 / 4																				Number/Name) Pollution Prevention									
	ſ	Ī	FY 2	2014			FY	2015	5		FY	2016	<u> </u>		FY	201	7		FY	201	8		FY 2019 FY 202				2020	0	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Requirements ID											,					·					,	,					,		
Potential Alternatives																													
Test Plan																													
Testing																													
Test Report																													
Demonstration																													
Final Report																													

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
, , ,	` ` ,	, ,	umber/Name) Pollution Prevention

Schedule Details

	St	End			
Events	Quarter	Year	Quarter	Year	
Requirements ID	1	2015	4	2015	
Potential Alternatives	1	2015	4	2015	
Test Plan	1	2015	4	2015	
Testing	1	2014	4	2016	
Test Report	1	2014	4	2016	
Demonstration	1	2014	4	2018	
Final Report	1	2019	1	2019	

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