Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0603859F: Pollution Prevention

BA 4: Advanced Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	13.565	10.396	2.534	0.000	2.534	2.566	2.598	2.630	2.661	Continuing	Continuing
644852: Pollution Prevention	13.565	10.396	2.534	0.000	2.534	2.566	2.598	2.630	2.661	Continuing	Continuing

A. Mission Description and Budget Item Justification

Funds will be used to target 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.

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 the emphasis is on proving component and subsystem maturity prior to integration in major and complex systems and may involve risk reduction initiatives.

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	2.877	10.396	0.000	0.000	0.000
Current President's Budget	13.565	10.396	2.534	0.000	2.534
Total Adjustments	10.688	0.000	2.534	0.000	2.534
 Congressional General Reductions 		0.000			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
Congressional Adds		0.000			
 Congressional Directed Transfers 		0.000			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
 Other Adjustments 	10.688	0.000	2.534	0.000	2.534

UNCLASSIFIED

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

FY 2011

FY 2011

FY 2011

FY 2011

FY 2011

FY 2011

FY 2012

FY 2014

FY 2015

FY 2015

FY 2015

FY 2016

FY 2016

FY 2017

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
644852: Pollution Prevention	13.565	10.396	2.534	0.000	2.534	2.566	2.598	2.630	2.661	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

Funds will be used to target 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.

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 the emphasis is on proving component and subsystem maturity prior to integration in major and complex systems and may involve risk reduction initiatives.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: RCRA	13.565	10.396	2.534	0.000	2.534
FY 2009 Accomplishments: In FY 2009: Resource Conservation and Recovery Act (RCRA) Subtitle C - Hazardous Waste Compliance Burden Reduction, Clean Air Act Compliance Burden Reduction, Clean Water Act Compliance Burden Reduction					
FY 2010 Plans: In FY 2010: Continuation of above activities.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603859F: Pollution Prevention

PROJECT

644852: Pollution Prevention

B. Accomplishments/Planned Program (\$ in Millions)

		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans:						
In FY 2011: Continuation of above activities.						
FY 2011 OCO Plans:						
In FY 2011 OCO: Not applicable						
	Accomplishments/Planned Programs Subtotals	13.565	10.396	2.534	0.000	2.534

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

			FY 2011	FY 2011	FY 2011					Cost To	
Line Item	FY 2009	FY 2010	Base	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• PE Not Provided (10930):	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Activity Not Provided

D. Acquisition Strategy

Pollution Prevention activities are level of effort and use time and materials support contracts.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603859F: Pollution Prevention

PROJECT

644852: Pollution Prevention

Product Development (\$ in Millions)

				FY 2	010	FY 2 Ba	2011 ise	FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Force Research Lab	Various	Various Various	9.373	8.275	May 2010	0.455	May 2011	0.000		0.455	Continuing	Continuing	Continuing
		Subtotal	9.373	8.275		0.455		0.000		0.455			

Remarks

Support (\$ in Millions)

				FY 2	2010	FY 2 Ba		FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Force Research Lab	Various	Various Various	1.747	0.667	May 2010	1.720	May 2011	0.000		1.720	Continuing	Continuing	Continuing
		Subtotal	1.747	0.667		1.720		0.000		1.720			

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

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R-1 ITEM NOMENCLATURE

PE 0603859F: Pollution Prevention

PROJECT

644852: Pollution Prevention

Management Services (\$ in Millions)

				FY 2	2010	FY 2 Ba	-	FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Force Research Lab	Various	Various Various	0.582	0.158	Sep 2010	0.200	Sep 2011	0.000		0.200	Continuing	Continuing	Continuing
		Subtotal	0.582	0.158		0.200		0.000		0.200			

Remarks

Test and Evaluation (\$ in Millions)

				FY 2	2010	FY 2 Ba	-	FY 2		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Air Force Research Lab	Various	Various Various	1.863	1.296	May 2010	0.159	Sep 2011	0.000		0.159	Continuing	Continuing	Continuing
		Subtotal	1.863	1.296		0.159		0.000		0.159			

Remarks

	Total Prior Years Cost	FY 2	2010		2011 se	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	13.565	10.396		2.534		0.000	2.534			

Remarks

Total Prior Years Cost may include only FY 2009 data.

R-1 Line Item #45 Page 5 of 7

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603859F: Pollution Prevention

PROJECT

644852: Pollution Prevention

Pollution Prevention Demonstration Schedules

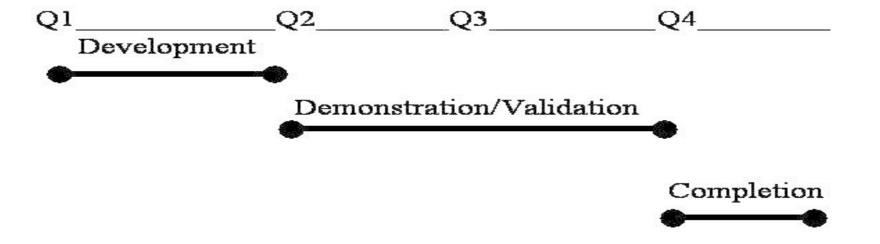


Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603859F: Pollution Prevention

PROJECT

644852: Pollution Prevention

Schedule Details

	St	art	Eı	nd
Event	Quarter	Year	Quarter	Year
Development	1	2009	1	2011
Prototype	2	2009	3	2011
Contract Completion	4	2009	4	2011