Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force

R-1 ITEM NOMENCLATURE

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

PE 0603112F: Advanced Materials for Weapon Systems

DATE: April 2013

BA 3: Advanced Technology Development (ATD)

APPROPRIATION/BUDGET ACTIVITY

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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	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	-	60.626	47.890	39.572	-	39.572	35.229	33.649	38.072	38.184	Continuing C	Continuing
632100: Laser Hardened Materials	-	22.209	11.564	20.450	-	20.450	19.531	16.170	17.735	17.480	Continuing C	Continuing
633153: Non-Destructive Inspection Development	-	3.788	8.413	6.766	-	6.766	4.831	4.870	4.962	5.052	Continuing C	Continuing
633946: Materials Transition	-	30.980	27.020	12.356	-	12.356	10.867	12.609	15.375	15.652	Continuing C	Continuing
634918: Deployed Air Base Demonstrations	-	3.649	0.893	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing C	Continuing

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### A. Mission Description and Budget Item Justification

This program develops and demonstrates materials technology for transition into Air Force systems. The program has four projects which develop: (1) hardened materials technologies for the protection of aircrews and sensors; (2) non-destructive inspection and evaluation technologies; (3) transition data on structural and non-structural materials for aerospace applications; and (4) airbase operations technologies including deployable base infrastructure, force protection, and fire fighting capabilities. Efforts in the program have been coordinated through the Department of Defense (DoD) Science and Technology (S&T) Executive Committee process to harmonize efforts and eliminate duplication. This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	60.719	47.890	29.672	-	29.672
Current President's Budget	60.626	47.890	39.572	-	39.572
Total Adjustments	-0.093	0.000	9.900	-	9.900
<ul> <li>Congressional General Reductions</li> </ul>	-	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	_	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
Congressional Adds	-	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	0.000			
Reprogrammings	0.750	0.000			
SBIR/STTR Transfer	-0.843	0.000			
Other Adjustments	0.000	0.000	9.900	-	9.900

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)			
Congressional Add Details (\$ in Millions, and Includes General Re	FY 2012	FY 2013	
Project: 633946: Materials Transition			
Congressional Add: Silicon Carbide Composites Research		12.500	0.000
Congressional Add: Advanced Materials Research		8.500	0.000
	Congressional Add Subtotals for Project: 6339	21.000	0.000

## **Change Summary Explanation**

Increase in FY14 is due to increased emphasis on laser protection for aircrew and aerospace systems and on sustainment materials and process technologies to decrease lifecycle costs of Air Force systems.

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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Congressional Add Totals for all Projects

21.000

0.000

	Exhibit R-2A, RDT&E Project Ju		DATE: April 2013											
	APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE PROJECT				•			
3600: Research, Development, Test & Evaluation, Air Force							PE 0603112F: Advanced Materials for 632100: La				aser Hardened Materials			
BA 3: Advanced Technology Development (ATD)						Weapon Systems								
	COST (\$ in Millions)	All Prior			FY 2014	FY 2014	FY 2014					Cost To	Total	
	σσοι (ψ πι πιπιστισ)	Years	FY 2012	FY 2013 <sup>#</sup>	Base	oco##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Cost	
	632100: Laser Hardened	-	22.209	11.564	20.450	-	20.450	19.531	16.170	17.735	17.480	Continuing	Continuing	
	Materials													

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## A. Mission Description and Budget Item Justification

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

This project develops and demonstrates advanced materials technologies that enhance protection for Air Force aircrews to ensure safety and to enable aircrews to perform required missions in threat environments. Advanced materials technologies are also developed and demonstrated to enhance protection for Air Force sensors and systems to ensure safety, survivability, and operability in threat environments.

Title: Aerospace Systems Protection	18.122	5.996	10.800
<b>Description:</b> Develop and demonstrate materials technologies that enhance hardening for sensors, avionics, and components to increase survivability and mission effectiveness of aerospace systems.			
FY 2012 Accomplishments:  Continued to evaluate and prioritize advanced optical coatings and optical power limiter technologies as protection against laser and directed energy threats aimed at sensors and avionics. Transitioned most mature coatings and optical limiter technologies for next generation targeting platforms. Initiated demonstrations of promising coating technologies into next generation of persistent surveillance sensor designs as well as demonstrated strategies to mitigate directed energy damage for Visible/Near Infrared (Vis/NIR) detectors and Short Wave Infrared (SWIR) detectors that are critical for Intelligence, Surveillance, and Reconnaissance (ISR) sensors. Continued testing of damage limiting semiconductor materials in test bed configuration to determine viability for protection of tactical and strategic space sensors and for SWIR systems. Assessed vulnerability of current seekers/munitions against emerging countermeasure threats.			
FY 2013 Plans:  Continue demonstrations of viable coating and hardened focal planes for future persistent surveillance sensor designs as well as continue demonstrating strategies to mitigate directed energy damage for Vis/NIR, SWIR, and Mid Wave Infrared (MWIR) detectors critical to ISR sensors. Demonstrate damage-limiting semiconductor materials in a test bed configuration representing protection of both Vis/NIR and SWIR ISR sensors. Employ computation materials science to model materials characteristics to increase accuracy and shorten design cycle time of coatings and dyes for use in sensor hardening.			
FY 2014 Plans:			

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FY 2012

FY 2013

FY 2014

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)	<b>PROJE</b> 632100		dened Materia	als	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Ensure process repeatability and perform demonstrations of protection continue demonstrating strategies to mitigate directed energy damage to image quality performance due to hardening insertion of damage-lin Continue to employ computation materials science to model materials cycle time of coatings for use in sensor hardening. Initiate air systems	for Vis/NIR, SWIR, and MWIR detectors. Assess implifying semiconductor materials in a test bed configurate characteristics to increase accuracy and shorten des	oacts ation. sign			
Title: Aircrew Protection			4.087	5.568	9.65
<b>Description:</b> Develop and demonstrate materials technologies that en to enable aircrews to perform required missions in a threat environment <b>FY 2012 Accomplishments:</b> Developed and demonstrated personnel protection technologies, include technologies specific for visor applications against visible and SWIR dilimiter technologies and next generation dye concepts for the personner.	nt.  ding tailored rugate coatings and liquid crystal mater rected energy laser threats. Also investigated emergel protection across the visible and SWIR. Continued	ials ing			
evaluate performance and initiate process development of optical coat <i>FY 2013 Plans:</i> Continue development and demonstration of personnel protection tech and SWIR spectral bands. Fabricate and demonstrate performance of configurations. Characterize eye protection technologies using computant perform demonstrations of personnel protection technologies in re	nnologies for daytime operation across the visible/NIF agile optical coatings and dyes for use in daytime visitational materials science tools. Insure process repe	sor			
FY 2014 Plans: Continue development and demonstration of personnel protection technological for use in night-time applications. Characterize eye protection technological continue to improve process repeatability and perform demonstrations environments.	nnologies. Transition agile optical coatings and dyes ogies using computational materials science tools.	ration			
	Accomplishments/Planned Programs Su	btotals	22.209	11.564	20.45

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

N/A

Remarks

# D. Acquisition Strategy

Not Applicable.

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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APPROPRIATION/BUDGET ACTIVITY  3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)  E. Performance Metrics  R-1 ITEM NOMENCLATURE PE 0603112F: Advanced Materials for Weapon Systems  PROJECT 632100: Laser Hardened Materials for Weapon Systems	Materials
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 cor Force performance goals and most importantly, how they contribute to our mission.	ntributing to Air

PE 0603112F: Advanced Materials for Weapon Systems Air Force

Exhibit R-2A, RDT&E Project Ju		DATE: April 2013										
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)					R-1 ITEM NOMENCLATURE PE 0603112F: Advanced Materials for Weapon Systems				PROJECT 633153: Non-Destructive Inspection Development			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
633153: Non-Destructive Inspection Development	-	3.788	8.413	6.766	-	6.766	4.831	4.870	4.962	5.052	Continuing	Continuing

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### A. Mission Description and Budget Item Justification

Assemblishments/Diamed Dreaments/f in Millions

This project develops and demonstrates advanced nondestructive inspection/evaluation (NDI/E) technologies to monitor performance integrity and to detect failure causing conditions in weapon systems components and materials. NDI/E capabilities greatly influence and/or limit many design, manufacturing, and maintenance practices. This project provides technology to satisfy Air Force requirements to extend the lifetime of current systems through increased reliability and cost-effectiveness at field and depot maintenance levels. Equally important is assuring manufacturing quality, integrity, and safety requirements.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Advanced Engine Inspection Technologies	1.023	1.772	1.300
<b>Description:</b> Develop and demonstrate advanced technologies to improve capabilities to inspect for cracks and other damage to extend the total safe life of turbine engines.			
FY 2012 Accomplishments: Investigated NDI/E approaches to measure material properties to extend the life and increase durability of fracture-critical gas turbine engine components.			
FY 2013 Plans: Develop NDI/E approaches to nondestructively measure material properties, detect and characterize materials and damage state for the purpose of extending the life and increasing durability of fracture critical gas turbine engine components.			
FY 2014 Plans: Continue development of NDI/E approaches to nondestructively measure material properties, detect and characterize materials and damage state for the purpose of extending the life and increasing durability of fracture critical gas turbine engine components.			
Title: Low-Observable Inspection Technologies	0.421	0.541	0.466
<b>Description:</b> Develop and demonstrate advanced inspection technologies supporting low-observable (LO) systems to enhance affordability and ensure full performance and survivability.			
FY 2012 Accomplishments:			

PE 0603112F: Advanced Materials for Weapon Systems
Air Force

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE:	April 2013		
PROPRIATION/BUDGET ACTIVITY 10: Research, Development, Test & Evaluation, Air Force 3: Advanced Technology Development (ATD)  R-1 ITEM NOMENCLATURE PE 0603112F: Advanced Materials for Weapon Systems  PROJECT 633153: Non-Destructive Inspection Development						
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014	
Advanced inspection methods and sensor technology for signature a	and material integrity of next generation LO material sys		-			
FY 2013 Plans: Develop and demonstrate inspection methods and sensor technology generation LO material systems. Develop, demonstrate, and validate positions that enable/ensure signature assessment.		ct				
FY 2014 Plans: Continue to develop and demonstrate inspection methods and sensor and next generation LO material systems. Continue to develop, demonstrate positions that enable/ensure signature assessment.	· · · · · · · · · · · · · · · · · · ·	-				
Title: Advanced System Monitoring Technologies			2.344	6.100	5.00	
<b>Description:</b> Develop and demonstrate advanced systems status mosensing to gain continuous awareness of the state of key subsystems	· ·	led				
FY 2012 Accomplishments: Continued to transition smart sensor technologies for wiring health are inspection tools for assessing the structural health of airframes.	nalysis. Continued to transition field and depot-level					
FY 2013 Plans: Continue to develop and transition augmented field and depot-level in of airframes. Integrate computational materials science tools with life Demonstrate and transition advanced turbine engine process/status	prediction methods to increase accuracy of life predict					
FY 2014 Plans:						
Transition augmented field and depot-level inspection technologies for computational materials science tools with life prediction methods to and transition advanced turbine engine process/status monitoring technologies.	increase accuracy of life prediction. Continue to demor					
	Accomplishments/Planned Programs Su	htotale	3.788	8.413	6.76	

N/A

**Remarks** 

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force	DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
3600: Research, Development, Test & Evaluation, Air Force	PE 0603112F: Advanced Materials for	633153: Non-Destructive Inspection	on-Destructive Inspection		
BA 3: Advanced Technology Development (ATD)	Weapon Systems	Development			
D. Acquisition Strategy					
Not Applicable					

Not Applicable.

## **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.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force  DATE: April 2013													
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT			
3600: Research, Development, To	PE 0603112F: Advanced Materials for				633946: Materials Transition								
BA 3: Advanced Technology Deve	elopment (A	ITD)			Weapon Systems								
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
633946: Materials Transition	_	30.980	27.020	12.356	_	12.356	10.867	12.609	15.375	15.652	Continuing	Continuing	

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## A. Mission Description and Budget Item Justification

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

This project develops and demonstrates advanced materials and processing technologies for fielded and planned Air Force weapon, airframe, and propulsion applications. Advanced materials and processes that have matured beyond applied research are characterized, critical data are collected, and critical evaluations in the proposed operating environment are performed. This design and scale-up data improves the overall affordability of promising materials and processing technologies, providing needed initial incentives for their industrial development.

217 to compliant to the transfer of the terminal of		0.0	1 1 2017
Title: Air Vehicle Materials Technologies	4.934	6.320	7.721
<b>Description:</b> Develop and demonstrate materials and processes technologies for air vehicle and subsystems to enhance lift, propulsion, LO performance, power generation management, and affordability of air vehicles.			
FY 2012 Accomplishments:  Demonstrated high rate production-capable processes for producing large area, high quality diamond windows for airborne high power microwave directed energy weapons. Developed materials enabling critical components for next-generation airborne high energy lasers that are solid state, electrically-powered, and significantly higher efficiency. Advanced validation of processing methods and lifing tools for graded microstructure turbine engine disk concepts. Advanced validation of processing methods and lifing methodologies for advanced high temperature silicon carbide (SiC)/SiC-based composites. Developed and validated next generation NDE/I sensor systems for advanced LO material systems.			
FY 2013 Plans: Continue to advance validation of processing methods and lifing tools for graded microstructure turbine engine disk concepts. Transition validation of next generation NDE/I sensor systems for advanced LO material systems. Develop advanced materials and processes for mature materials technologies to enhance mission effectiveness, air vehicle performance, and efficiency.			
FY 2014 Plans: Continue to advance validation of processing methods and lifing tools for ceramic matrix composites and graded microstructure turbine engine disk concepts. Continue to transition validated next generation NDE/I sensor systems for advanced LO material			

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PE 0603112F: Advanced Materials for Weapon Systems

FY 2012 | FY 2013 | FY 2014

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603112F: Advanced Materials for Weapon Systems	<b>PROJ</b> 63394	ECT 6: Materials Transition		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
systems. Continue to develop advanced materials and processes for effectiveness, air vehicle performance, and efficiency.	mature materials technologies to enhance mission				
Title: Lifecycle and Sustainment Technologies			0.750	0.000	0.000
<b>Description:</b> Develop and demonstrate materials and process technologies of Air Force systems.	ologies to enhance sustainability and decrease lifecycle	e costs			
FY 2012 Accomplishments:  Demonstrated and transitioned innovative technologies for bare base	utilities.				
FY 2013 Plans: Work completed in FY12.					
<b>FY 2014 Plans:</b> N/A					
Title: High Temperature Material Technologies			4.296	1.000	2.635
<b>Description:</b> Develop and demonstrate affordable, novel high temper concepts to enable future defense capabilities for prompt global strike					
FY 2012 Accomplishments:  Advanced multi-material structure to optimally address operational ter systems from advanced ceramics, ceramic matrix composites, hybrids		on			
FY 2013 Plans: Continue to advance multimaterial structure to optimally address oper protection systems.	rational temperature zones for hot structure and therma	al			
FY 2014 Plans: Develop and demonstrate multimaterial structures to optimally address expendable thermal protection systems made out of advanced ceram and intermetallics.		tals,			
Title: Adapative Turbine Engine Technologies			0.000	19.700	2.000
<b>Description:</b> Develop and demonstrate material and process technol engine propulsion and subsystem integration.	ogies to increase power and efficiency for adaptive tur	bine			

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJEC	PROJECT		
3600: Research, Development, Test & Evaluation, Air Force	PE 0603112F: Advanced Materials for	633946:	Materials	Transition	
BA 3: Advanced Technology Development (ATD)	Weapon Systems				
	·				
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014
FY 2012 Accomplishments:					
N/A					

**Accomplishments/Planned Programs Subtotals** 

**Congressional Adds Subtotals** 

Transition production processes and materials to enable an adaptive turbine engine prototype. Perform critical evaluations of
technology in the operating environment.

### FY 2014 Plans:

FY 2013 Plans:

Complete materials and production processes assessments for an adaptive turbine engine prototype.

	FY 2012	FY 2013
Congressional Add: Silicon Carbide Composites Research	12.500	0.000
FY 2012 Accomplishments: Conducted Congressionally-directed effort.		
FY 2013 Plans: N/A		
Congressional Add: Advanced Materials Research	8.500	0.000

FY 2012 Accomplishments: Conducted Congressionally-directed effort.

FY 2013 Plans: N/A

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

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

N/A

#### Remarks

## D. Acquisition Strategy

Not Applicable.

### **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.

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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**DATE:** April 2013

9.980

27.020

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	Exhibit R-2A, RDT&E Project Ju	stification:	: PB 2014 A	Air Force							DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM	NOMENCL	ATURE		<b>PROJECT</b>					
3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)					PE 060311 Weapon S		ced Material	s for	634918: <i>D</i>	eployed Air	Base Demo	onstrations		
	COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
	634918: Deployed Air Base	-	3.649	0.893	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### A. Mission Description and Budget Item Justification

This project develops and demonstrates advanced, rapidly deployable airbase technologies that enable agile combat support by reducing airbase manpower requirements, reducing airbase setup times and improving the protection and survivability of deployed Air Force Expeditionary (AFE) warfighters. Affordable, efficient technologies are developed and demonstrated to provide deployable infrastructure, weapon system support, blast and munition force protection and firefighting capability for deployed AEF operations.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Deployable Airbase Infrastructure	1.591	0.000	0.000
<b>Description:</b> Demonstrate and transition deployable infrastructure airbase technologies, to reduce airlift and manpower requirements, setup time, and sustainment costs in support of AEF operations.			
FY 2012 Accomplishments: Characterized, demonstrated, and fabricated airbase alternative energy generation, power grid conditioning, and distribution methods. Characterized and developed best practices for aircraft operating surface evaluation and repair technologies. Characterized, fabricated, and demonstrated aircraft operating surface high operating temperature materials and technologies.			
FY 2013 Plans: Work completed in FY12. Future work in this area transitioned to the Air Force Civil Engineering Center.			
<b>FY 2014 Plans:</b> N/A			
Title: Deployable Airbase Force Protection	2.058	0.893	0.000
<b>Description:</b> Demonstrate and transition technologies to provide force protection and fire fighting capability for deployed AEF operations.			
FY 2012 Accomplishments:			

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

			: Deployed Air Base Den	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 3: Advanced Technology Development (ATD)	R-1 ITEM NOMENCLATURE PE 0603112F: Advanced Materials for Weapon Systems	PROJECT 634918: Deployed	' Air Base De	monstrations
B. Accomplishments/Planned Programs (\$ in Millions)  Characterized and maintained competency for fabrication and demon against blast and fragmentation. Characterized and developed technicombustion.	•		FY 2013	FY 2014
FY 2013 Plans: Transitioned work to the Air Force Civil Engineering Center.				
FY 2014 Plans: Work completed in FY13. Future work in this area transitioned to the	Air Force Civil Engineering Center.			

**Accomplishments/Planned Programs Subtotals** 

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

N/A

#### Remarks

## D. Acquisition Strategy

Not Applicable.

### **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.

PE 0603112F: Advanced Materials for Weapon Systems Air Force

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DATE: April 2013

3.649

0.893

0.000