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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>					PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>							
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	-	52.811	20.733	1.578	-	1.578	0.000	0.000	0.000	0.000	Continuing	Continuing
036: <i>PATRIOT PROD IMP PGM</i>	-	42.938	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
DF8: <i>DF8</i>	-	0.194	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
DT5: <i>Stinger Product Improvement</i>	-	9.679	20.733	1.578	-	1.578	0.000	0.000	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

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

Note

PATRIOT Product Improvement Program is now reported under Program Element 077865, DV8.

DF8 Funding was realigned to Program Element 0203808, DS1.

DF9 Funding was realigned to Program Element 0203808, DS2.

A. Mission Description and Budget Item Justification

Project 036 PATRIOT Product Improvement Program (PIP): PATRIOT is an advanced Surface-to-Air guided missile system with a high probability of kill capable of operation in the presence of Electronic Countermeasures (ECM) and able to conduct multiple simultaneous engagements against high performance air breathing targets and ballistic missiles likely to be encountered by US Forces. The PATRIOT Product Improvement Program provides for the upgrade of the PATRIOT System through individual materiel changes. The PATRIOT Product Improvement Program upgrades the PATRIOT system to address operational lessons learned, enhancements to joint force interoperability, and other system performance improvements to provide overmatch capability with the emerging threat. Efforts will be made to expedite PATRIOT materiel solutions (e.g. Radar Digital Processor, Communications Upgrades, Radars on the Net) to both enhance capability and facilitate integration into the Integrated Air Missile Defense (IAMD) architecture.

Project 038 Avenger PIP: The Avenger Air Defense System is a lightweight, highly mobile surface-to-air missile and gun weapon system mounted on a High Mobility Multi-purpose Wheeled Vehicle (HMMWV). The system employs a canopied turret consisting of a gunner position, two gyro-stabilized missile launcher pods containing four STINGER missiles each, a Forward Looking Infrared Receiver (FLIR), a Laser Range Finder (LRF), an Identification Friend or Foe (IFF) system, and a very high rate of fire .50 caliber machine gun. The gun system is used against ground targets and to cover the Stinger missile dead-zone. Avenger is capable of day, night and adverse weather operations, can be transported by Utility Helicopter-60L Blackhawk or C-130 aircraft, is air-droppable and can shoot on the move. The system can also be operated by remote control from a protected position up to 50 meters away from the fire unit. The Avenger system is operated by a crew of two to counter hostile low flying unmanned aerial vehicles (UAVs), cruise missiles, attack helicopters, and high performance fixed winged aircraft. The system fills the line-of-sight rear component of the Forward Area Air Defense (FAAD) system.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army				DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE				
2040: Research, Development, Test & Evaluation, Army		PE 0203801A: Missile/Air Defense Product Improvement Program				
BA 7: Operational Systems Development						
The Avenger PIP provides for the design, development, integration and testing asociated with modernization and added capability to the Avenger Weapon System.						
Project DT5 Stinger Product Improvement: The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, air defense weapon system. It provides low-altitude defense for ground forces against attack or aerial observation by low-flying Unmanned Aerial System (UAS), Cruise Missile (CM), Rotary Wing (RW), and Fixed Winged (FW) threats. Stinger employs an infrared (heat seeking)/ultraviolet seeker to guide to the target. Stinger Block I missiles have extensive infrared counter-countermeasure capabilities and can engage targets from any aspect to include head-on. The missile utilizes a high-explosive, hit-to-kill warhead. Stinger can be fired from the shoulder or from a variety of platforms to include ground vehicles and helicopters. The missile is delivered as a certified wooden round and requires no field testing or maintenance.						
The Stinger Product Improvement provides design, development, test and integration of a Proximity Fuze into the existing Stinger Block I missiles. The Proximity Fuze will improve system effectiveness against the evolving UAS threat. Unmanned Aerial System Defense (UAS-D) is a requirement of the Operational Requirements Document (ORD) for the Stinger Guided Missile System.						
B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		53.015	20.733	7.646	-	7.646
Current President's Budget		52.811	20.733	1.578	-	1.578
Total Adjustments		-0.204	0.000	-6.068	-	-6.068
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Adjustments to Budget Years		0.101	-	-6.068	-	-6.068

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0203801A: Missile/Air Defense Product Improvement Program				PROJECT 036: PATRIOT PROD IMP PGM			
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
036: PATRIOT PROD IMP PGM	-	42.938	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 ^{##} The FY 2014 OCO Request will be submitted at a later date												
Note PATRIOT Product Improvement Program is now reported under Program Element 677865, DV8.												
A. Mission Description and Budget Item Justification Project 036: PATRIOT is an advanced Surface-to-Air guided missile system with a high probability of kill capable of operation in the presence of Electronic Countermeasures (ECM) and able to conduct multiple simultaneous engagements against high performance air breathing targets and ballistic missiles likely to be encountered by US Forces. The PATRIOT Product Improvement Program provides for the upgrade of the PATRIOT System through individual materiel changes. These improvements focus on the evolving threat and will provide a more robust capability and the foundation upon which future improvements can more readily be incorporated with minimal hardware changes. Efforts will be made to expedite Patriot materiel solutions (e.g. Radar Digital Processor, Communications Upgrades, Radars on the Net) to both enhance capability and facilitate integration into the IAMD architecture.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: PATRIOT Product Improvement Description: Software Improvement for Threat Evolution FY 2012 Accomplishments: FY2012 PATRIOT Product Improvement (PIP) funds continued Software Improvement for Threat Evolution and Radar Digital Processor (RDP) development efforts.									42.938 0	0.000	0.000	
Accomplishments/Planned Programs Subtotals									42.938	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions) N/A Remarks												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>	PROJECT 036: <i>PATRIOT PROD IMP PGM</i>
D. Acquisition Strategy The design objective of the PATRIOT system was to provide a baseline system capable of modification to cope with continuing threat evolution. This program minimizes technological risks and provides a means of enhancing system capability through planned upgrades of deployed systems. The PATRIOT Product Improvement program upgrades the PATRIOT system to address operational lessons learned, enhancements to joint force interoperability and communications, and other system performance improvements to provide overmatch capability against the emerging threat. Upgrades are implemented through individual hardware and software materiel changes and fielded incrementally. This program encompasses several changes which will require the use of a variety of acquisition methods to develop, test, procure and field.		
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0203801A: Missile/Air Defense Product Improvement Program						PROJECT 036: PATRIOT PROD IMP PGM			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Program Management	Various	RSA:various	25.955	0.535	Feb 2012	-		-		-		-	0.000	26.490	Continuing
U.S. Contracts	C/FFP	Intuitive Research and Technology Corp. (IRTC):Huntsville, AL	1.028	0.377	Feb 2012	-		-		-		-	0.000	1.405	Continuing
Subtotal			26.983	0.912		0.000		0.000		0.000		0.000	0.000	27.895	
Remarks Non-Applicable (N/A); Redstone Arsenal (RSA)															
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Improvement for Threat Evolution	Various	Multiple:Multiple	68.997	5.773	Feb 2012	-		-		-		-	0.000	74.770	0.000
Radar Digital Processor (RDP)	Various	Raytheon:Massachusetts	0.000	35.400	Feb 2012	-		-		-		-	0.000	35.400	0.000
Subtotal			68.997	41.173		0.000		0.000		0.000		0.000	0.000	110.170	0.000
Remarks Sole Source-Firm Fixed Price (SS-FFP)															
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RDEC and Other Govt Agencies	Various	RSA:Various	103.891	0.853	Feb 2012	-		-		-		-	0.000	104.744	Continuing
Subtotal			103.891	0.853		0.000		0.000		0.000		0.000	0.000	104.744	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>				PROJECT 036: <i>PATRIOT PROD IMP PGM</i>				

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks Aviation and Missile Command (AMCOM), Research and Development and Engineering Center (RDEC)															
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			199.871	42.938		0.000		0.000		0.000		0.000	0.000	242.809	
Remarks															

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>				PROJECT DF8: <i>DF8</i>			
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
DF8: <i>DF8</i>	-	0.194	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 ^{##} The FY 2014 OCO Request will be submitted at a later date												
Note DF8 Funding was realigned to Program Element 0203808, DS1.												
A. Mission Description and Budget Item Justification This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: DF8 Articles:										0.194 0	0.000	0.000
Description: Funding is provided for the following effort FY 2012 Accomplishments: Program will be reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.												
Accomplishments/Planned Programs Subtotals										0.194	0.000	0.000
C. Other Program Funding Summary (\$ in Millions) N/A												
Remarks												
D. Acquisition Strategy N/A												
E. Performance Metrics Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>							R-1 ITEM NOMENCLATURE PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>					PROJECT DF8: <i>DF8</i>			

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DF8	TBD	TBD:TBD	0.000	0.194		-		-		-		-	0.000	0.194	0.000
Subtotal			0.000	0.194		0.000		0.000		0.000		0.000	0.000	0.194	0.000

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.194	0.000	0.000	0.000	0.000	0.000	0.194	0.000

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0203801A: Missile/Air Defense Product Improvement Program				PROJECT DT5: Stinger Product Improvement			
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
DT5: Stinger Product Improvement	-	9.679	20.733	1.578	-	1.578	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
This effort funds the design, development and testing of the Stinger Proximity Fuze (Prox Fuze) and integrates the Proximity Fuze into the Stinger Block I missile.												
A. Mission Description and Budget Item Justification												
The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, air defense weapon system. It provides low-altitude defense for ground forces against attack or aerial observation by low-flying Unmanned Aerial System (UAS), Cruise Missile (CM), Rotary Wing (RW), and Fixed-Wing (FW) threats. Stinger employs an infrared (heat seeking)/ultraviolet seeker to guide to the target. Stinger Block I has extensive infrared counter-countermeasure capabilities and can engage targets from any aspect to include head-on. The missile utilizes a high-explosive, hit-to-kill warhead. Stinger can be fired from the shoulder or from a variety of platforms to include ground vehicles and helicopters. The missile is delivered as a certified wooden round and requires no field testing or maintenance.												
The Stinger Product Improvement provides design, development, test and integration of a Proximity Fuze into the existing Stinger Block I missiles. The Proximity Fuze will improve system effectiveness against the evolving UAS threat. Unmanned Aerial System Defense (UAS-D) is a requirement of the Operational Requirements Document (ORD) for the Stinger Guided Missile System.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Proximity Fuze (Prox Fuze) Development and Integration									9.454	15.383	1.010	
									0	0		
Description: This effort funds the design and development of a Prox Fuze and integrates it into existing STINGER Block I missiles.												
FY 2012 Accomplishments: Developed requirements, defined functionality, established allocated and product baselines, and performed preliminary detail design and development of a Prox Fuze and integration methods and processes. Performed producibility engineering, build brass boards and conduct component and subsystem test. Performed technical assessments, concept studies, cost reduction, risk reduction, threat analysis, and required documentation.												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0203801A: Missile/Air Defense Product Improvement Program	PROJECT DT5: Stinger Product Improvement		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Complete design and development of Prox Fuze and Block I missile integration method and processes. Integrate warhead with Prox Fuze and integrate warhead/Prox Fuze assembly into existing Stinger Block I missiles for Guided Test Vehicles and All-Up-Rounds for testing. Perform technical assessments, concept studies, cost reduction, risk reduction, and develop required documentation. FY 2014 Plans: Complete integration efforts allowing for final revisions and developing the required documentation to support.				
Title: Test and Evaluation Description: This effort funds Government and contractor Developmental and Operational tests. FY 2013 Plans: Perform government and contractor Developmental and Operational flight test, test for hazard classification, lethality, and fuze board. FY 2014 Plans: Complete Developmental and Operational flight testing as well as required safety and lethality testing.		Articles: 0.000	4.650 0	0.511
Title: Management Support Description: This effort funds government management and technical support. FY 2012 Accomplishments: Provide government management, technical and administrative support for the program in FY 2012. FY 2013 Plans: Provide government management, technical and administrative support for the program in FY 2013. FY 2014 Plans: Provide government management, technical and administrative support for the program in FY 2014.		Articles: 0.225 0	0.700 0	0.057
Accomplishments/Planned Programs Subtotals		9.679	20.733	1.578

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203801A: Missile/Air Defense Product Improvement Program				PROJECT DT5: Stinger Product Improvement			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• PE0604869A: Proj M06, Patriot.MEADS Compined Aggregate Program (CAP)	389.630	400.861								0.000	790.491
• PE0605456A: Proj PA3, Pac-3/ MSE Missile	88.909	69.029	69.175		69.175	130.348	63.975	65.771	66.638	Continuing	Continuing
• SSN C53101: MSE Missile	74.953	12.850	546.210		546.210	541.584	560.687	566.757	671.624	Continuing	Continuing
• PE0102419A: Proj E55, JLENS	327.338	190.422	64.450		64.450	32.100	23.850	24.330		0.000	662.490
• PE0605455A: Proj S35, SLAMRAAM	1.529									0.000	1.529
• PE 0604319A: Proj DU3, IFPC2 (FY 2011/2012 PE0603305A IFPC II- Intercept)	9.269	76.039	79.232		79.232	107.587	146.463	151.769	159.700	Continuing	Continuing
• PE0605457A: Proj S40, Army Integrated Air and Missile Defense (AIAMD)	270.180	262.211	345.410		345.410	372.000	222.940	143.196	80.103	Continuing	Continuing
• SSN BZ5075: Army IAMD Battle Command system (IBCS)			20.980		20.980	101.830	327.100	492.820	455.390	Continuing	Continuing
• PE 0208053: Proj 635, Joint Tact Grd Station - PI (MIP)	27.586	31.738	14.109		14.109	2.903	8.134	7.642	8.957	Continuing	Continuing
• PE 0604820A: Proj E10, Sentinel	2.885	3.486	1.944		1.944	1.927	2.953	3.007	3.053	Continuing	Continuing
• PE 0604741A: Proj 126, 146, 149; Air Defense C2I Eng Dev	82.932	73.333	37.409		37.409	14.670	15.171	14.409	7.315	Continuing	Continuing
Remarks											
This program is a supporting system of the Army Integrated Air and Missile Defense (IAMD) architecture.											
D. Acquisition Strategy											
In FY 2012 the Stinger Based Systems (SBS) Product Office awarded a Proximity Fuze (Prox Fuze) development contract for the design, development, test and integration of a Proximity Fuze into existing Stinger Block I missiles. The Proximity Fuze will improve system effectiveness against the evolving UAS threat. Unmanned Aerial System Defense (UAS-D) is a requirement of the Operational Requirements Document (ORD) for the Stinger Guided Missile System.											
E. Performance Metrics											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0203801A: Missile/Air Defense Product Improvement Program						PROJECT DT5: Stinger Product Improvement			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Mgt/Admin	Various	CMDS PO:Huntsville, AL	0.000	0.225		0.700		0.057		-		0.057	0.000	0.982	0.000
Subtotal			0.000	0.225		0.700		0.057		0.000		0.057	0.000	0.982	0.000
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Proximity Fuze Development	MIPR	Picatinny Arsenal:Picatinny Arsenal, NJ	0.000	9.454	May 2012	15.383		1.010		-		1.010	0.000	25.847	0.000
Subtotal			0.000	9.454		15.383		1.010		0.000		1.010	0.000	25.847	0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Test & Evaluation	Various	CMDS Project Office:Redstone Arsenal,AL; White Sands Missile Range, NM	0.000	-		4.650		0.511		-		0.511	0.000	5.161	0.000
Subtotal			0.000	0.000		4.650		0.511		0.000		0.511	0.000	5.161	0.000
Project Cost Totals			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	9.679		20.733		1.578		0.000		1.578	0.000	31.990	0.000
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>			R-1 ITEM NOMENCLATURE PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>		
			PROJECT DT5: <i>Stinger Product Improvement</i>		

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Technology Demonstrations																												
Proximity Fuze Development																												
Critical Design Review																												
Operational Test Readiness Reviews																												
Developmental Testing/Operational Testing																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0203801A: <i>Missile/Air Defense Product Improvement Program</i>	PROJECT DT5: <i>Stinger Product Improvement</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technology Demonstrations	2	2012	2	2012
Proximity Fuze Development	3	2012	2	2014
Critical Design Review	4	2013	4	2013
Operational Test Readiness Reviews	1	2014	2	2014
Developmental Testing/Operational Testing	3	2014	3	2014