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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army **DATE:** February 2012

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)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	23.415	53.015	20.733	-	20.733	7.646	11.964	4.047	4.147	Continuing	Continuing
036: <i>PATRIOT PROD IMP PGM</i>	11.064	42.831	-	-	-	-	-	-	-	Continuing	Continuing
038: <i>AVENGER PIP</i>	-	-	-	-	-	6.068	11.964	4.047	4.147	Continuing	Continuing
DF8: <i>DF8</i>	3.021	0.200	-	-	-	-	-	-	-	Continuing	Continuing
DF9: <i>DF9</i>	9.330	-	-	-	-	-	-	-	-	Continuing	Continuing
DT5: <i>STINGER PRODUCT IMPROVEMENT</i>	-	9.984	20.733	-	20.733	1.578	-	-	-	Continuing	Continuing

Note

FY13 is a key year, with the Radar Digital Processor (RDP) development to support near term fielding. RDP provides additional performance, to include Mode 5 IFF (Identification, Friend or Foe) to reduce fratricide potential. The RDP and related software will begin fielding in FY15. The FY14 Requirement for RDP testing and support is \$17M less than the FY13 Requirement as the task completes.

Development and testing of the Upper Tier Debris Mitigation and THAAD - Patriot interoperability efforts also peak in FY13, with the FY14 requirement \$9M less than the FY13 requirement. The anticipated fielding of THAAD underscores the growing complexity of the battle space and the greater need for integration between weapon systems.

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. 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 IAMD architecture.

Project 038 Avenger Product Improvement Program (PIP): Avenger is a highly mobile and transportable surface-to-air missile/gun weapon system mated with a High Mobility Multipurpose Wheeled Vehicle (HMMWV). Mounted on a turret are a .50 caliber M3P machine gun and two Standard Vehicle Missile Launchers (SVMLs). Each SVML contains four STINGER missiles. It is operated by a two-man crew for defense against Rotary Wing (RW) and fixed-Winged (FW) aircraft at low altitude, day or night, and in clear or adverse weather.

The Avenger Product Improvement Program (PIP) provides for the design, development, integration and testing of new LRUs on the Avenger Weapon System.

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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>
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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), RW, and 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 for design, development, test and integration of a proximity fuze assembly into existing Stinger Block I missiles. The proximity fuze assembly provides the capability to meet the Unmanned Aerial System Defense (UAS-D) requirements stated in the Operational Requirements Document for the STINGER Guided Missile System. When integration is completed the Stinger Block I missile with the new developed proximity fuze assembly will have increased capability with a 10 year service life.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	24.280	44.560	46.287	-	46.287
Current President's Budget	23.415	53.015	20.733	-	20.733
Total Adjustments	-0.865	8.455	-25.554	-	-25.554
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.723	-			
• Adjustments to Budget Years	-	-	-25.554	-	-25.554
• Other Adjustments 1	-0.142	8.455	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
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>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
036: <i>PATRIOT PROD IMP PGM</i>	11.064	42.831	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

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 2011	FY 2012	FY 2013
Title: Patriot Product Improvement Articles: Description: Software Improvement for Threat Evolution FY 2011 Accomplishments: Continued Software Improvement for Threat Evolution. FY 2012 Plans: Continued Software Improvement for Threat Evolution and Radar Digital Processor development efforts.	11.064 0	42.831 0	-
Accomplishments/Planned Programs Subtotals	11.064	42.831	-

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

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

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
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>

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 2013 Army										DATE: February 2012			
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 Base		FY 2013 OCO		FY 2013 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
Government Program Management	Various	RSA:various	25.955	0.535		-		-		-	0.000	26.490	Continuing
U.S. Contracts	C/FFP	Intuitive Research and Technology Corp. (IRTC):Huntsville, AL	1.028	0.377		-		-		-	0.000	1.405	Continuing
Subtotal			26.983	0.912		-		-		-	0.000	27.895	
Remarks Non-Applicable (N/A); Redstone Arsenal (RSA)													
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
Software Improvement for Threat Evolution	Various	Multiple:Multiple	68.997	5.773		-		-		-	0.000	74.770	0.000
Radar Digital Processor (RDP)	Various	Raytheon:Massachusetts	-	35.400		-		-		-	0.000	35.400	0.000
Subtotal			68.997	41.173		-		-		-	0.000	110.170	0.000
Remarks Sole Source-Firm Fixed Price (SS-FFP)													
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
RDEC and Other Govt Agencies	Various	RSA:Various	103.891	0.746		-		-		-	0.000	104.637	Continuing
Subtotal			103.891	0.746		-		-		-	0.000	104.637	
Remarks Aviation and Missile Command (AMCOM), Research and Development and Engineering Center (RDEC)													

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army									DATE: February 2012		
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			
	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	199.871	42.831		-		-		-	0.000	242.702	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
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>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
PDB 7 Fielding (Modernized Adjunct Processor) IOC																												
Radar Digital Processor Development																												
PDB 8 (RDP)																												
Evolutionary Development Program																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
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>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
PDB 7 Fielding (Modernized Adjunct Processor) IOC	1	2013	1	2013
Radar Digital Processor Development	1	2012	4	2014
PDB 8 (RDP)	1	2016	1	2016
Evolutionary Development Program	1	2013	4	2015

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
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 038: <i>AVENGER PIP</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
038: <i>AVENGER PIP</i>	-	-	-	-	-	6.068	11.964	4.047	4.147	Continuing	Continuing
Quantity of RDT&E Articles											

Note
Project 038 Avenger Production Improvement Program (PIP) - is a New Start FY 2014.

A. Mission Description and Budget Item Justification
Funds are provided for Avenger PIP.

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

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

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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[illegible]

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)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Title: DF8		3.021	0.200	-
Articles:		0	0	
Description: Funding is provided for the following effort				
FY 2011 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.				
FY 2012 Plans: 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		3.021	0.200	-

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

N/A

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-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
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 DF9: <i>DF9</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
DF9: <i>DF9</i>	9.330	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

Note
DF9 Funding was realigned to Program Element 0203808, DS2

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 2011	FY 2012	FY 2013
Title: DF 9 <div style="text-align: right;">Articles:</div> Description: Funding is provided for the following effort FY 2011 Accomplishments: Information for 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.	9.330 0	-	-
Accomplishments/Planned Programs Subtotals	9.330	-	-

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

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-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
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)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
DT5: STINGER PRODUCT IMPROVEMENT	-	9.984	20.733	-	20.733	1.578	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

Note

This effort funds the design, development and testing of the STINGER Proximity 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 for design, development, test and integration of a proximity fuze assembly into existing Stinger Block I missiles. The proximity fuze assembly provides the capability to meet the Unmanned Aerial System Defense (UAS-D) requirements stated in the Operational Requirements Document for the STINGER Guided Missile System. When integration is completed the Stinger Block I missile with the new developed proximity fuze assembly will have increased capability with a 10 year service life.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Proximity Fuze Development	-	9.454	15.383
Articles:		0	
Description: This effort funds the design and development of a Proximity Fuze assembly and integrates into existing STINGER Block I missiles			
FY 2012 Plans: Develop requirements, define functionality, establish allocated and product baselines, and perform detail design and development of proximity fuze and integration methods and processes. Perform producibility engineering, build brass boards and conduct component and subsystem test. Perform 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 2013 Army									DATE: February 2012		
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 2011	FY 2012	FY 2013
Complete design and development of proximity fuze and Block I missile integration method and processes. Integrate warhead with proximity fuze and integrate warhead/proximity 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.											
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, international test operating procedures, lethality, and fuze board.									-	-	4.650
Title: Management Support Description: This effort funds government management and technical support. FY 2012 Plans: 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.									-	0.530 0	0.700
Articles:											
Accomplishments/Planned Programs Subtotals									-	9.984	20.733
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE0604869A: Proj M06, Patriot.MEADS Compined Aggregate Program (CAP)	450.584	389.630	400.861		400.861					Continuing	Continuing
• PE0605456A: Proj PA3, Pac-3/ MSE Missile	121.475	88.909	69.029		69.029		130.348	63.975	65.771	Continuing	Continuing
• SSN C53101: MSE Missile		74.953	12.850		12.850		505.084	596.387	566.757	Continuing	Continuing
• PE0102419A: Proj E55, JLENS	399.477	327.338	190.422		190.422		32.480	24.130	24.612	Continuing	Continuing
• PE0605455A: Proj S35, SLAMRAAM	18.358	1.529								Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
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 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• SSN C81002: SLAMRAAM Launcher	2.355									Continuing	Continuing
• PE 0604319A: Proj DU3, IFPC2 (FY 2011/2012 PE0603305A IFPC II- Intercept)	4.143	9.269	76.039		76.039		122.355	146.463	151.769	Continuing	Continuing
• SSN WK5053: FAAD GBS	258.413	3.958	7.980		7.980					Continuing	Continuing
• PE0605457A: Proj S40, Army Integrated Air and Missile Defense (AIAMD)	246.691	270.180	262.211		262.211		394.260	210.580	135.072	Continuing	Continuing
• SSN BZ5075: Army IAMD Battle Command system (IBCS)							103.453	281.828	426.582	Continuing	Continuing
• PE 0208053: Proj 635, Joint Tact Grd Station - PI (MIP)	12.005	27.586	31.738		31.738		8.006	8.134	8.314	Continuing	Continuing
• SSN BZ8401: Joint Tactical Ground Station (JTAGS)	9.227	1.199	2.680		2.680		4.432	4.496	4.768	Continuing	Continuing
• PE 0604820A: Proj E10, Sentinel		2.885	3.486		3.486		1.948	2.972	3.022	Continuing	Continuing
D. Acquisition Strategy											
In FY 2012 the Stinger Based Systems (SBS) Product Office will award a proximity fuze development contract for the design, development, test and integration of a proximity fuze assembly into existing Stinger Block I missiles. The proximity fuze assembly provides the capability to meet the Unmanned Aerial System Defense (UAS-D) requirements stated in the Operational Requirements Document for the STINGER Guided Missile System. When integration is completed the Stinger Block I missile with the new developed proximity fuze assembly will have increased capability with a 10 year service life.											
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 2013 Army										DATE: February 2012			
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 Base		FY 2013 OCO		FY 2013 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
Program Mgt/Admin	Various	CMDS PO:Huntsville, AL	-	0.530		0.700		-		0.700	Continuing	Continuing	0.000
Subtotal			-	0.530		0.700		-		0.700			0.000
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
Proximity Fuze Development	MIPR	Crane Navel Surface Warfare, and Picatinny Arsenal:Crane ,IA and Picatinny Arsenal, NJ	-	9.454		15.383		-		15.383	Continuing	Continuing	Continuing
Subtotal			-	9.454		15.383		-		15.383			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
Contractor Test and Evaluation	MIPR	Crane Navel Surface Warefare Center:Crane, IA	-	-		0.400		-		0.400	Continuing	Continuing	Continuing
Government Test & Evaluation	Various	CMDS Project Office:Redstone Arsenal,AL; White Sands Missile Range, NM	-	-		4.250		-		4.250	Continuing	Continuing	0.000
Subtotal			-	-		4.650		-		4.650			
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	9.984		20.733		-		20.733			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army						DATE: February 2012			
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>			
	Total Prior Years Cost	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks									

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army												DATE: February 2012			
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 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Contract Award																												
Proximity Fuze Preliminary Design Review																												
Proximity Fuze Critical Design Review																												
Proximity Fuze Development (PFD)																												
PFD Development/Operational Test																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
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
Contract Award	3	2012	3	2012
Proximity Fuze Preliminary Design Review	4	2012	4	2012
Proximity Fuze Critical Design Review	2	2013	2	2013
Proximity Fuze Development (PFD)	2	2012	2	2014
PFD Development/Operational Test	4	2013	2	2014