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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0203801A I Missile/Air Defense Product Improvement Program							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	1.830	5.112	3.154	-	3.154	3.945	2.999	4.174	3.375	Continuing	Continuing
038: Avenger PIP	-	-	5.112	3.154	-	3.154	3.945	2.999	4.174	3.375	Continuing	Continuing
DT5: Stinger Product Improvement	-	1.830	-	-	-	-	-	-	-	-	-	1.830

A. Mission Description and Budget Item Justification

Project 038 Avenger Product Improvement Program (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 UH-60L Blackhawk helicopter 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 two-man crew to counter Unmanned Aerial Systems (UASs), cruise missiles, attack helicopters, and high performance fixed wing/ rotary wing aircraft. The system fills the line-of-sight rear component of the Forward Area Air Defense (FAAD) system.

These funds are provided for the Avenger PIP to modify the Avenger to ensure viability and sustainability through the end of the useful life. Avenger will remain in the force through the Fiscal Year (FY) 30 timeframe according to the Long Range Investments Requirements Analysis. Avenger fills a capability gap which will be permanently filled by the Indirect Fire Protection Capability Increment 2 Intercept (IFPC2-I) which will be fully fielded in FY30. The Avenger Fire Control Computer (AFCC) will undergo software and hardware upgrades that will enable the system to handle increased targeting capability realized with the latest version of the Forward Area Air Defense (FAAD) early warning system and ensures the system meets the latest Information Assurance (IA) requirements, upgraded analog to digital vehicle intercommunication system and Mode 5 cooperative target identification functions.

Project DT5 Stinger Product Improvement: The Stinger Block I missile is an advanced, fire-and-forget, short-range, man-portable, air defense weapon system. Stinger's mission is to provide the force with low-altitude air defense against fixed and rotary wing aircraft, unmanned aircraft systems (UAS) and cruise missiles (CM). 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 vehicles, helicopters and UAS. The missile is delivered as a certified 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

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Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 7: Operational Systems Development		R-1 Program Element (Number/Name) PE 0203801A I Missile/Air Defense Product Improvement Program			
Document (ORD) for the Stinger Guided Missile System and validated by the Deputy Chief of Staff, G-3/5/7, Current and Future Warfighting Capabilities Division (DAMO-CIC) in memo dated 28 May 2013.					
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	1.577	5.115	3.556	-	3.556
Current President's Budget	1.830	5.112	3.154	-	3.154
Total Adjustments	0.253	-0.003	-0.402	-	-0.402
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.305	-			
• SBIR/STTR Transfer	-0.052	-			
• Adjustments to Budget Years	-	-0.003	-0.402	-	-0.402

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203801A / Missile/Air Defense Product Improvement Program				Project (Number/Name) 038 / Avenger PIP			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
038: Avenger PIP	-	-	5.112	3.154	-	3.154	3.945	2.999	4.174	3.375	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
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 UH-60L Blackhawk helicopter 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 two-man crew to counter Unmanned Aerial Systems (UASs), cruise missiles, attack helicopters, and high performance fixed wing/ rotary wing aircraft. The system fills the line-of-sight rear component of the Forward Area Air Defense (FAAD) system.												
These funds are provided for the Avenger PIP to modify and ensure that Avenger is viable and sustainable through the end of program life. Avenger will remain in the force through the Fiscal Year (FY) 30 timeframe according to the Long Range Investments Requirements Analysis. Avenger fills a capability gap which will be permanently filled by the Indirect Fire Protection Capability Increment 2 Intercept (IFPC2-I) which will be fully fielded in FY31. The Avenger Fire Control Computer (AFCC) will undergo software and hardware upgrades that will enable the system to handle increased targeting capability realized with the latest version of the Forward Area Air Defense (FAAD) early warning system and ensures the system meets the latest Information Assurance (IA) requirements, upgraded analog to digital vehicle intercommunication system and Mode 5 cooperative target identification functions.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2014	FY 2015	FY 2016	
Title: Avenger Modification									-	5.112	3.154	
Description: This funds the effort to upgrade the Avenger Fire Control Computer (AFCC) software and adds new cooperative friendly identification function.												
FY 2015 Plans: Establish allocated and product baselines, and perform engineering design and development activities for platform integration, software upgrades, and capability enhancements. Plan test requirements and conduct limited contractor and government testing. Perform technical assessments, concept studies, cost reduction, risk reduction and development documentation.												
FY 2016 Plans:												

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Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0203801A / Missile/Air Defense Product Improvement Program				Project (Number/Name) 038 / Avenger PIP				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Continue to perform engineering design and development activities for platform integration, software upgrades, and capability enhancements. Develop and execute test requirements and conduct limited contractor and government testing on developing modernization parts. Perform technical assessments, concept studies, cost reduction, risk reduction and development documentation.												
Accomplishments/Planned Programs Subtotals										-	5.112	3.154
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• PE 0605456: PE 0605456A, Proj PA3, PAC-3/MSE Missiles	86.223	34.991	2.272	-	2.272	-	-	-	-	-	123.486	
• PE 0102419A: PE 0102419A, Proj E55, Joint Aero Stat Program - EMD Effort	57.976	-	0.002	-	0.002	0.003	0.002	-	-	-	57.983	
• PE 0604319A: PE 0604319A, Proj DU3, IFPC2 (FY12 PE0603305A IFPC II - Intercept)	79.190	96.177	156.523	-	156.523	90.980	58.214	27.663	-	Continuing	Continuing	
• PE 0605457A: PE 0605457A, Proj S40, Army Integrated Air and Missile Defense (AIAMD)	358.192	152.516	214.099	-	214.099	227.103	169.575	153.451	33.424	Continuing	Continuing	
• PE 0604820A: PE 0604820A, Proj E10, Sentinel	1.796	5.221	12.309	-	12.309	11.465	10.971	12.191	30.277	Continuing	Continuing	
• PE 0604741A: PE 0604741A, Proj 126, 146, 149; Air Defense C2I Eng Dev	38.412	15.898	24.569	-	24.569	27.131	20.524	20.018	18.082	Continuing	Continuing	
• SSN C21300: SSN C21300, Stinger Blk I Upgrades	37.252	1.355	2.216	-	2.216	-	-	-	-	-	40.823	
• SSN CE8710: SSN CE8710; Avenger Mods	-	5.611	6.171	-	6.171	37.579	63.312	28.606	-	-	141.279	
Remarks												
This program is an integral part of the Army Air and Missile Defense Modernization strategy.												

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203801A / <i>Missile/Air Defense Product Improvement Program</i>	Project (Number/Name) 038 / <i>Avenger PIP</i>
<u>D. Acquisition Strategy</u> <p>In Fiscal Year (FY) 2015 the Avenger Product Office will award one or more contracts for the modification effort of the Avenger fleet.</p> <p>In Fiscal Year (FY) 2016, the Avenger Product office will continue the development for the modification of the fleet through contracts awarded in FY15. When completed, the Avenger fleet will have been modified to support the Force Development Update (FDU) structure until displaced with a replacement system as called out by the Long Range Investments Requirements Analysis (LIRA) currently called the Indirect Fire Protection Control Increment 2-Intercept Solution (IFPC2-I).</p>		
<u>E. Performance Metrics</u> N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0203801A / <i>Missile/Air Defense Product Improvement Program</i>						Project (Number/Name) 038 / <i>Avenger PIP</i>			
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Avenger Modification	Various	Cruise Missile Defense Systems Project Office : Redstone Arsenal, AL	0.000	-		0.509		0.254		-		0.254	Continuing	Continuing	-
Subtotal			0.000	-		0.509		0.254		-		0.254	-	-	-
Remarks This program supports the Army Integrated Air and Missile Defense (AIAMD) architecture.															
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Avenger Modification	Various	The Boeing Company and Various Others : Huntsville, AL	0.000	-		3.233		2.167		-		2.167	Continuing	Continuing	-
Subtotal			0.000	-		3.233		2.167		-		2.167	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Avenger Modification Service Life Extension Program (SLEP)	Various	The Boeing Company, Aviation and Missile Research Development Engineering Center (AMRDEC) : Huntsville, AL; Redstone Arsenal, AL	0.000	-		1.370		0.733		-		0.733	Continuing	Continuing	-

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Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	-		1.370		0.733		-		0.733	-	-	-

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-	5.112	3.154	-	3.154	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																Date: February 2015																
Appropriation/Budget Activity										R-1 Program Element (Number/Name)										Project (Number/Name)												
2040 / 7										PE 0203801A / Missile/Air Defense Product Improvement Program										038 / Avenger PIP												
Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020							
	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				
Mode 5/Identification Friend or Foe (IFF) Development																																
Voice Intercom Communication (VIC) Development																																
Mode 5/VIC Production Representative Articles (PRA)																																
Mode5/IFF & VIC3 Integration and testing																																
Mode5/IFF & VIC Log/Maintenance Demo																																
Avenger Fire Control Computer-Revision (AFCC-R) Development																																
AFCC-R Production Representative Articles (PRA)																																
AFCC-R Integration & Testing																																
AFCC-R Log/Maintenance Demo																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203801A / <i>Missile/Air Defense Product Improvement Program</i>	Project (Number/Name) 038 / <i>Avenger PIP</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Mode 5/Identification Friend or Foe (IFF) Development	2	2015	2	2016
Voice Intercom Communication (VIC) Development	1	2016	2	2016
Mode 5/VIC Production Representative Articles (PRA)	4	2015	3	2016
Mode5/IFF & VIC3 Integration and testing	2	2016	2	2016
Mode5/IFF & VIC Log/Maintenance Demo	2	2016	2	2016
Avenger Fire Control Computer-Revision (AFCC-R) Development	3	2016	3	2018
AFCC-R Production Representative Articles (PRA)	1	2018	1	2018
AFCC-R Integration & Testing	2	2018	2	2018
AFCC-R Log/Maintenance Demo	2	2018	3	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203801A / Missile/Air Defense Product Improvement Program				Project (Number/Name) DT5 / Stinger Product Improvement			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DT5: Stinger Product Improvement	-	1.830	-	-	-	-	-	-	-	-	-	1.830
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
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. Stinger's mission is to provide the force with low-altitude air defense against fixed and rotary wing aircraft, unmanned aircraft systems (UAS) and cruise missiles (CM). 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 vehicles, helicopters and UAS. The missile is delivered as a certified 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 and validated by the Deputy Chief of Staff, G-3/5/7, Current and Future Warfighting Capabilities Division (DAMO-CIC) in memo dated 28 May 2013.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Title: Proximity Fuze (Prox Fuze) Development and Integration										1.010	-	-
Description: This effort funds the design and development of a Prox Fuze and integrates it into existing STINGER Block I missiles.												
FY 2014 Accomplishments: Complete integration efforts allowing for final revisions and developing the required documentation to support materiel release.												
Title: Test and Evaluation										0.764	-	-
Description: This effort funds Government and contractor Developmental and Operational tests.												
FY 2014 Accomplishments: Complete flight testing as well as required safety and lethality testing in support of materiel release.												
Title: Management Support										0.056	-	-
Description: This effort funds government management and technical support.												

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203801A / <i>Missile/Air Defense Product Improvement Program</i>	Project (Number/Name) DT5 / <i>Stinger Product Improvement</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015
FY 2014 Accomplishments: Provide government management, technical and administrative support for the program in FY 2014.			
Accomplishments/Planned Programs Subtotals		1.830	-
C. Other Program Funding Summary (\$ in Millions)			
Line Item	FY 2014	FY 2015	FY 2016 Base
• SSNC21300: SSN C21300, Stinger Blk I Upgrades	37.252	1.355	2.216
			FY 2016 OCO
			-
			FY 2016 Total
			2.216
			FY 2017
			-
			FY 2018
			-
			FY 2019
			-
			FY 2020
			-
			Cost To Complete
			-
			Total Cost
			40.823
Remarks			
D. Acquisition Strategy			
In Fiscal Year (FY) 12 the Stinger Based Systems (SBS) Product Office utilized Picatinny Arsenal to award 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 Unmanned Aerial System (UAS) threat. UAS Defense (UAS-D) is a requirement of the Operational Requirements Document (ORD) for the Stinger Guided Missile System and validated by the Deputy Chief of Staff, G-3/5/7, Current and Future Warfighting Capabilities Division (DAMO-CIC) in memo dated 28 May 2013.			
E. Performance Metrics			
N/A			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army													Date: February 2015		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203801A / Missile/Air Defense Product Improvement Program					Project (Number/Name) DT5 / Stinger Product Improvement					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Mgt/Admin	SS/ Various	CMDS PO : Huntsville, AL	0.925	0.056		-		-		-		-	-	0.981	-
Subtotal			0.925	0.056		-		-		-		-	-	0.981	-
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Proximity Fuze Development	MIPR	Picatinny Arsenal : Picatinny Arsenal, NJ	21.967	1.010		-		-		-		-	-	22.977	-
Subtotal			21.967	1.010		-		-		-		-	-	22.977	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Test & Evaluation	Various	CMDS Project Office : Redstone Arsenal, AL and Eglin Air Force Base, FL	4.650	0.764		-		-		-		-	-	5.414	-
Subtotal			4.650	0.764		-		-		-		-	-	5.414	-
Project Cost Totals			Prior Years 27.542	FY 2014 1.830		FY 2015 -		FY 2016 Base -		FY 2016 OCO -		FY 2016 Total -	Cost To Complete -	Total Cost 29.372	Target Value of Contract -
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																Date: February 2015												
Appropriation/Budget Activity										R-1 Program Element (Number/Name)								Project (Number/Name)										
2040 / 7										PE 0203801A / Missile/Air Defense Product Improvement Program								DT5 / Stinger Product Improvement										
Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Proximity Fuze (Prox Fuze) Development																												
Component Level Qualifications (CLQ)																												
Proximity Flight Readiness Reviews (PFRR)																												
(1) Proximity Flight Test (PFT)																												
(2) Final Army Fuze Safety Review Board (AFSRB)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Proximity Fuze (Prox Fuze) Development	3	2012	2	2014
Component Level Qualifications (CLQ)	1	2014	2	2014
Proximity Flight Readiness Reviews (PFRR)	2	2014	3	2014
Proximity Flight Test (PFT)	3	2014	3	2014
Final Army Fuze Safety Review Board (AFSRB)	3	2014	3	2014