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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	83.224	85.054	27.884	-	27.884	62.605	58.339	58.189	54.837	Continuing	Continuing
S58: <i>Soldier Enhancement Program</i>	-	2.815	4.123	3.531	-	3.531	7.623	7.553	6.720	6.978	Continuing	Continuing
S60: <i>Clothing & Equipment</i>	-	4.942	5.447	2.519	-	2.519	4.612	6.967	10.819	10.844	Continuing	Continuing
S61: <i>Acis Engineering Development</i>	-	10.178	14.049	1.742	-	1.742	3.935	3.838	3.894	3.963	Continuing	Continuing
S62: <i>Counter-Defilade Target Engagement - SDD</i>	-	37.352	12.976	7.865	-	7.865	10.834	6.903	7.301	0.987	Continuing	Continuing
S63: <i>Small Arms Improvement</i>	-	13.201	17.836	4.393	-	4.393	14.294	14.408	14.496	17.805	Continuing	Continuing
S64: <i>Common Remotely Operated Wpn Sys (CROWS)</i>	-	-	9.459	2.458	-	2.458	3.447	4.437	3.453	2.730	-	25.984
S70: <i>Personnel Recovery Support System (PRSS)</i>	-	4.090	1.132	0.543	-	0.543	1.123	1.176	1.177	1.180	Continuing	Continuing
VS5: <i>Soldier Protective Equipment</i>	-	10.646	20.032	4.833	-	4.833	16.737	13.057	10.329	10.350	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

Change Summary Explanation:

A. Mission Description and Budget Item Justification

FY 2014 budget request funds Infantry Support Weapons. This program element (PE) Engineering and Manufacturing Development (EMD) manages the Soldier as a system, with the goal of increasing Soldiers' combat effectiveness, increasing survivability, and improving the Soldiers' quality of life. It develops and tests prototypes of weapons, clothing, equipment, and other items useful to support the Soldier.

Project S58 (Soldier Enhancement Program) supports accelerated integration, modernization, and enhancement efforts of lighter, more lethal weapons, and improved Soldier items including lighter, more comfortable load-bearing equipment, field gear, survivability items, communications equipment, and navigational aids.

Project S59 (Soldier Support Equipment) supports system development and prototyping of critical Soldier support systems and other combat service support equipment that will improve unit sustainability and combat effectiveness.

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<p>Project S60 (Clothing and Equipment) supports pre-production development of state-of-the-art individual clothing and equipment to improve the survivability, mobility and sustainment affecting the quality of life of the individual Soldier.</p> <p>Project S61 (Aircrew Integrated Systems) provides System Development programs with improved aviator safety, survivability, and human performance that amplify the warfighting effectiveness and facilitates full-spectrum dominance of the Army aircraft including the AH-64 Apache/Longbow, CH-47 Chinook, UH/HH-60 Blackhawk, Light Utility Helicopter, and Armed Reconnaissance Helicopter.</p> <p>Project S62 (Counter-Defilade Target Engagement) the XM25, Individual Airburst Weapon System (IAWS) delivers a 25mm programmable high explosive airburst (HEAB) round to defeat defilade and point areas targets out to approximately 600 meters. Accurate and lethal engagement of defilade targets at the squad level is the number one capability gap identified by the United States Army Infantry Center (USAIC).</p> <p>Project S63 (Small Arms Improvements) demonstrates engineering development models or integrated commercial items designed to enhance lethality, target acquisition, fire control, training effectiveness, and reliability for small arms weapon systems and ammunition. FY2011 new programs include Improved Weapons Coatings, Personal Defense Weapon, 30 Round 5.56mm Magazine, Modular Handgun and Precision Sniper Rifle.</p> <p>Project S64 (CROWS) continue enhancing CROWS capability and reliability, and to increase its application across combat and tactical platforms. This capability will enhance the Soldier's survivability, lethality and situational awareness.</p> <p>Project S70 (Personnel Recovery Support System) provides system research, development and testing of the Personal Recovery Support System/Personnel Recovery Support Equipment supporting operations to report and locate isolated, missing, detained or captured Soldiers.</p> <p>Project VS5 (Soldier Protective Equipment) supports engineering and manufacturing development of Individual Soldier Ballistic Protection equipment. It will leverage advancements in technology to continue incremental improvements to body armor (to include improved outer tactical vests, plate carriers, and helmets) and other personal protective equipment.</p>		

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>
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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	96.478	79.855	74.510	-	74.510
Current President's Budget	83.224	85.054	27.884	-	27.884
Total Adjustments	-13.254	5.199	-46.626	-	-46.626
• Congressional General Reductions	-5.900	-5.801			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.350	-			
• Other Adjustments 1	-5.004	11.000	-46.626	-	-46.626

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S58: <i>Soldier Enhancement Program</i>	-	2.815	4.123	3.531	-	3.531	7.623	7.553	6.720	6.978	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Years 1990 and 1991. The purpose of the SEP is to evaluate readily available Commercial Off The Shelf (COTS), Government Off The Shelf (GOTS) and Non-Developmental Item (NDI) equipment to increase the combat effectiveness of the Soldier. The SEP uses a Buy, Try and Decide methodology to evaluate (COTS/GOTS/NDI) that have the potential to enhance Soldier combat effectiveness. The SEP provides accelerated integration, modernization, and capability enhancement efforts of lighter, more lethal weapons and munitions, improved engagement optics, sights, lasers and fire controls, improved lighter more comfortable and versatile Soldier individual equipment, survivability enhancement gear, communications equipment and situational awareness aids. Initiatives are submitted by Soldiers and others at any time and are evaluated twice a year.

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

	FY 2013	FY 2014	FY 2015
Title: Soldier Enhancement Program (SEP).	2.515	3.666	3.058
Articles:	-	-	-
Description: Buy and evaluate COTS/GOTS/NDI items with potential to enhance Soldier combat effectiveness.			
FY 2013 Accomplishments: FY 2013 Description: On 23 October 2012 the SEP council approved 6 initiatives for evaluation. These include Quick Release Mount, Thermal Weapon Sight clip-on adapter, Mortar Carrying Backpack, All purpose Adhesive light, and Hands Free Heads device. These items are currently undergoing test and evaluation. Product evaluations include safety testing and confirmation (if needed), and collection and analysis of user feedback/results. Since the 27 February 2012 SEP Council, 52 proposals were submitted for consideration and 11 approved as a SEP initiative. The approved initiatives include machine gun optic recoil rails, machine gun accessory bags, mandible protectors for crew personnel, 40mm extended range munitions, and others. These initiatives were screened using the SEP criteria (COTS/GOTS/NDI) by the SEP Council and are currently undergoing test and evaluation by operational units.			
FY 2014 Plans: On 29 August 2013 the SEP council approved 19 proposals as new initiatives for funding in FY14. These items will undergo test and evaluation. Product evaluations will include: ARES-16 AMG-2 (Lightweight Automatic Machine Gun), Single Point Sling Mount, Combat Shotgun Enhancement Kit, Small Arms Ballistic Chronograph, Precision Guided Firearms, Crew Served Weapon Large Field of View Sight, GAU-19B Weapon Vehicle Integration, M72 Clip-on IR Laser Sight, PD-100 Black Hornet PRS, InstantEye, Datron Scout UAS, Recon Scout XT Throwable Reconnaissance Robot, Milspec Plastics – Cobra Cuffs, Team Stove,			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
<p>Increased Capacity Parachutist Oxygen Bottle, Enhanced Electronic Automatic Activation Device, Military Altimeter, Wild Things Low Loft FASTPACK™ Jacket and MINITS iWitness. These initiatives were screened using the SEP Criteria (COTS/GOTS/NDI) by the SEP Council and will undergo test and evaluation by operational units. Currently SEP is executing 45 initiatives. On 31 October 2013, the SEP Council convened and approved 8 out-of-cycle initiatives in support of US Army Alaska. Anticipate over 100 proposals to be submitted in support of the next SEP Council. Those proposals that meet the SEP criteria (COTS/GOTS/NDI) will be considered by the SEP Council for evaluation as new initiatives. The SEP Council will convene 27 February 2014 to review and approve new program initiatives. Product evaluations will include safety testing, and confirmation (as needed), collection, and analysis of user feedback/results. Anticipate approving and evaluating 15 new initiatives.</p> <p>FY 2015 Plans: Anticipate over 125 proposals to be submitted. Those proposals that meet the SEP criteria will be considered by the SEP Council for evaluation as new initiatives. Product evaluations will include safety testing and confirmation (as needed), collection, and analysis of user feedback/results. Anticipate approving and evaluating 15 initiatives.</p>				
<p>Title: Systems Engineering and Program Management.</p> <p>Description: Systems Engineering and Program Management.</p> <p>FY 2013 Accomplishments: The SEP team received incoming proposals submitted via the SEP web application (http://peosoldier.army.mil/SEP). The SEP team coordinated with industry and US Army TRADOC Proponents to ensure that proposals submitted satisfied user needs and that the materiel alternatives were COTS/GOTS/NDI solutions that can be readily purchased and evaluated. The SEP team performed analysis of incoming proposals in preparation for the FY13 SEP Council meetings that determined which proposals would be evaluated as SEP initiatives. Initiatives completing evaluations received recommendations to either transition the capability to the field or terminate the effort IAW AR79-1. Coordination with US ARMY TRADOC Proponents continues as screening process as well as to help ensure that SEP initiative evaluations inform the requirements process.</p> <p>FY 2014 Plans: The SEP team will evaluate incoming proposals that are submitted via the SEP web application. Additionally, coordination will be performed with industry and US Army TRADOC Proponents to ensure that proposals submitted can satisfy user needs and that the materiel alternatives are COTS/GOTS/NDI solutions that can be readily purchased and evaluated. Analysis of incoming proposals will be performed in preparation for the FY14 SEP Council meetings to determine which proposals will be evaluated as SEP initiatives. Ongoing initiatives completing evaluations will receive recommendations as to whether the capability should transition to become an eventual fielded capability or the effort should be terminated IAW AR 79-1. Coordination with US</p>		<p>Articles:</p> <p>0.300 -</p>	<p>0.457 -</p>	<p>0.473 -</p>

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
ARMY TRADOC Proponents continues as screening process as well as to help ensure that SEP initiative evaluations inform the requirements process.			
<i>FY 2015 Plans:</i> The SEP team will evaluate incoming proposals submitted via the SEP web application (http://peosoldier.army.mil/SEP). The SEP team will coordinate with industry and US Army TRADOC Proponents to ensure that proposals submitted satisfied user needs and that the materiel alternatives were COTS/GOTS/NDI solutions that can be readily purchased and evaluated. The SEP team will perform analysis of incoming proposals in preparation for the FY15 SEP Council meetings that determined which proposals would be evaluated as SEP initiatives. Initiatives completing evaluations will receive recommendations to either transition the capability to the field or terminate the effort IAW AR79-1. Coordination with US ARMY TRADOC Proponents continues as screening process as well as to help ensure that SEP initiative evaluations inform the requirements process.			
Accomplishments/Planned Programs Subtotals	2.815	4.123	3.531

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

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPA3 MA6800: <i>Soldier Enhancement - Other Support Equipment - MA6800</i>	6.513	-	1.677	-	1.677	2.305	2.311	2.482	2.485	Continuing	Continuing
• OPA2 BA5300: <i>Soldier Enhancement - Comms & Electronics Equipment - BA5300</i>	-	-	0.294	-	0.294	0.352	0.386	0.490	0.493	Continuing	Continuing
• WTCV GC0076: <i>Soldier Enhancement - Smalls Arms Weapons - GC0076</i>	2.375	1.267	1.682	-	1.682	2.511	2.554	2.779	2.784	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Soldier Enhancement Program (SEP) focuses on Commercial Off The Shelf (COTS), Government Off The Shelf (GOTS) and Non-Developmental Item (NDI) initiatives, Soldier capability enhancements and integration efforts that lend themselves to accelerated acquisition and limited fielding in the near term (three years or less). New SEP candidates are reviewed and approved semi-annually. SEP items are procured from multiple appropriations, i.e., Other Procurement Army (OPA) and Weapons and Tracked Combat Vehicles (WTCV).

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army **Date:** March 2014

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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various	MIPR	PEO Soldier : Ft. Belvoir, VA	11.465	0.300	Mar 2013	0.457	Mar 2014	0.473	Mar 2015	-		0.473	Continuing	Continuing	Continuing
Subtotal			11.465	0.300		0.457		0.473		-		0.473	-	-	-

Remarks
Systems Engineering and Program Management includes in-house engineering support and integration services, conducting technical evaluations, market research and program reviews.

Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various	MIPR	PEO Soldier : Ft. Belvoir, VA	37.798	1.775	Jun 2013	2.484	Jun 2014	1.808	Jun 2015	-		1.808	Continuing	Continuing	Continuing
Subtotal			37.798	1.775		2.484		1.808		-		1.808	-	-	-

Remarks
Candidates for the Soldier Enhancement Program are received, reviewed, and approved semi-annually. Contractual efforts are focused on procuring prototypes for testing.

Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various	MIPR	PEO Soldier : Ft. Belvoir, VA	6.424	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			6.424	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various	MIPR	PEO Soldier : Ft. Belvoir, VA	12.746	0.740	Aug 2013	1.182	Aug 2014	1.250	Aug 2015	-		1.250	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			12.746	0.740		1.182		1.250		-		1.250	-	-	-

Remarks
Testing costs vary annually depending on number and type of items being evaluated.

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	68.433	2.815	4.123	3.531	-	3.531	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
SEP council proposal approval/prioritization 1Q FY13	■																											
Purchase and Test approved proposals 1-2Q FY13	■	■																										
SEP council proposal approval/prioritization 2QFY13		■																										
Purchase and Test approved proposals 3-4Q FY13			■	■																								
SEP council proposal approval/prioritization 4QFY13				■																								
Purchase and Test approved proposals 1-2Q FY14					■	■																						
SEP council proposal approval/prioritization 2Q FY14						■																						
Purchase and Test approved proposals 3-4Q FY14							■	■																				
SEP council proposal approval/prioritization 4QFY14								■																				
Purchase and Test approved proposals 1-2Q FY15									■	■																		
SEP council proposal approval/prioritization 2Q FY15										■																		
Purchase and Test approved proposals 3-4Q FY15											■	■																
SEP council proposal approval/prioritization 4QFY15												■																
Purchase and Test approved proposals 1-2Q FY16													■	■														

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
SEP council proposal approval/prioritization 2Q FY16													■															
Purchase and Test approved proposals 3-4Q FY16													■	■	■	■												
SEP council proposal approval/prioritization 4QFY16															■													
Purchase and Test approved proposals 1-2Q FY17															■	■												
SEP council proposal approval/prioritization 2Q FY17															■													
Purchase and Test approved proposals 3-4Q FY17																	■	■	■	■								
SEP council proposal approval/prioritization 4QFY17																			■									
Purchase and Test approved proposals 1-2Q FY18																			■	■								
SEP council proposal approval/prioritization 2Q FY18																			■									
Purchase and Test approved proposals 3-4Q FY18																					■	■	■	■				

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SEP council proposal approval/prioritization 1Q FY13	1	2013	1	2013
Purchase and Test approved proposals 1-2Q FY13	1	2013	2	2013
SEP council proposal approval/prioritization 2QFY13	2	2013	2	2013
Purchase and Test approved proposals 3-4Q FY13	3	2013	4	2013
SEP council proposal approval/prioritization 4QFY13	4	2013	4	2013
Purchase and Test approved proposals 1-2Q FY14	1	2014	2	2014
SEP council proposal approval/prioritization 2Q FY14	2	2014	2	2014
Purchase and Test approved proposals 3-4Q FY14	3	2014	4	2014
SEP council proposal approval/prioritization 4QFY14	4	2014	4	2014
Purchase and Test approved proposals 1-2Q FY15	1	2015	2	2015
SEP council proposal approval/prioritization 2Q FY15	2	2015	2	2015
Purchase and Test approved proposals 3-4Q FY15	3	2015	4	2015
SEP council proposal approval/prioritization 4QFY15	4	2015	4	2015
Purchase and Test approved proposals 1-2Q FY16	1	2016	2	2016
SEP council proposal approval/prioritization 2Q FY16	2	2016	2	2016
Purchase and Test approved proposals 3-4Q FY16	3	2016	4	2016
SEP council proposal approval/prioritization 4QFY16	4	2016	4	2016
Purchase and Test approved proposals 1-2Q FY17	1	2017	2	2017
SEP council proposal approval/prioritization 2Q FY17	2	2017	2	2017
Purchase and Test approved proposals 3-4Q FY17	3	2017	4	2017
SEP council proposal approval/prioritization 4QFY17	4	2017	4	2017
Purchase and Test approved proposals 1-2Q FY18	1	2018	2	2018
SEP council proposal approval/prioritization 2Q FY18	2	2018	2	2018

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S58 / <i>Soldier Enhancement Program</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Purchase and Test approved proposals 3-4Q FY18	3	2018	4	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S60 / <i>Clothing & Equipment</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S60: <i>Clothing & Equipment</i>	-	4.942	5.447	2.519	-	2.519	4.612	6.967	10.819	10.844	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This funding supports engineering and manufacturing development tasks related to individual clothing, equipment and personnel parachutes with the goal of enhancing the survivability, mobility and quality of life of the individual Soldier. It funds system integration and formal Developmental Testing/Operational Testing of preproduction and production representative systems leveraging advancements in materials, fabrication techniques, moisture management, flame resistance, antimicrobial treatments, insect protection, extreme environmental protection and chemical/biological protection and camouflage to increase the capabilities and durability of tactical and non-tactical clothing and individual equipment.

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

	FY 2013	FY 2014	FY 2015
Title: Soldier Uniforms and Clothing	3.072	3.659	0.519
Articles:	-	-	-
Description: Develop and provide superior and sustainable integrated clothing for the Soldier in a rapidly changing global environment.			
FY 2013 Accomplishments: Environment Clothing and Equipment. Conducted efforts to improve components of the Extended Cold Weather Clothing System (ECWCS) to provide protection to Military Free Fall (MFF) parachutists due to increased altitudes and duration of MFF flights. Tested alternate flame resistant fabrics for use in ECWCS Layer 5 to support deployers in support of Operation Enduring Freedom (OEF). Tactical/Personal Clothing. Conducted technical development of printing and color shade standards required for all uniform fabrics and findings to potentially implement a family of camouflage patterns to replace the current Universal Camouflage Pattern. Completed testing to support transition of Rapid Fielding Initiative Army Combat Pants (ACP) to Program of Record in 3QFY14. (Tested improvements to Army Aircrew Combat Uniform (A2CU) to include collar height to clear skin gap, replacing Velcro on pockets to eliminate foreign objects/debris hazards, and conducted initial fit assessment of female variant. Clothing Bag. Refined designs into the clothing bag, including the Women's Army Service Uniform (ASU), following results of the FY12/13 web survey. Conducted user evaluation of the Army Physical Fitness Uniform (APFU) ensemble to transition to clothing bag and the optional purchase APFU for retail sale in FY14. Conducted technical testing to determine appropriate useable life for clothing bag items. Completed cost benefit analysis for sew-on ASU Shoulder Sleeve Insignia and tabs at direction of Army			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
<p>Uniform Board. Initiated development of an improved garrison Food Service Uniform that incorporates commercial standards for burn protection, stain resistance and professional appearance.</p> <p>Tactical/Personal Clothing. Conducted operational tests of camouflage pattern effectiveness in woodland and transitional environments. Conducted technical development of printing and color shade standards required for all equipment fabrics and findings to implement the Phase IV effort for a family of global camouflage.</p> <p>FY 2014 Plans: Environmental Clothing and Equipment. Obtained a Material Development Decision (MDD) and Milestone (MS) C Decision to transition the Rapid Fielding Initiative Army Combat Glove (ACG) to Program of Record in 1QFY14. Obtained MS C and Full Rate Production Decision in 1QFY14 for the Army Combat Shirt. Conduct photosimulation evaluations of existing transitional camouflage patterns in 2QFY14, to be followed by both photosimulation and field evaluations of existing services' woodland, transitional, and arid patterns in 4QFY14. Conduct evaluation of most effective colors to be used on combat boots, T-shirts and belts used with the combat uniform. Develop shade standards to be used in leather handwear. Develop improvements and test changes to resolve sole traction problems with Intermediate Cold Weather Boots (ICWB) at lower end of temperature range via ECP and spec changes. Finalize production specifications for Mountain Combat Boots Temperate and hot weather variants and obtain MDD and MS C in 4QFY14.</p> <p>Tactical/Personal Clothing. Conduct market survey, technical testing, procure prototypes and user evaluation garments, conduct user evaluation, conduct Pyroman burn tests, and develop patterns for the Army Aircrew Combat Uniform–Alternate (A2CU-A) to transfer to sustainment in 4QFY14. Optimize performance of the deployment camouflage uniform pattern across the Near Infrared spectrum. Will obtain MDD for the Army Combat Pants (ACP) in 3QFY14.</p> <p>Clothing Bag. Will continue to refine designs and incorporate new materials and designs into clothing bag items. Finalize patterns and Technical Data Package for the next generation Army Physical Fitness Uniform providing improved fit, moisture wicking and antimicrobial capabilities. Develop patterns and conduct user evaluation on Army Service Uniform (ASU) to address women's concerns in fit and function of the ASU. Procure prototypes of Garrison Food Service Uniform (GFSU), and will conduct technical testing and user evaluation to incorporate commercial standards for burn protection, stain release, and professional appearance into the GFSU with MS-C anticipated 4QFY14.</p> <p>FY 2015 Plans: Environment Clothing and Equipment. Conduct Developmental Testing and Operational Testing (DT/OT) for FR Cold Weather Ensemble (CWE). Complete materials development and conduct field evaluation of Gen II spectral mitigation enhancement to combat uniforms.</p>				
Title: Individual Equipment		1.870	1.788	2.000

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Articles:	-	-	-
<p>Description: Develop and provide superior and sustainable integrated individual equipment for the Soldier in a rapidly changing global environment.</p> <p>FY 2013 Accomplishments: Load Carriage/NBC/Hydration. Completed technical development of the Army Mountaineering Kit (AMK) and obtained successful Milestone C Decision in 3QFY13. Conducted limited user evaluation of Improved MOLLE medic bag with incorporated changes for user community and transitioned to sustainment in 2QFY14. Completed development and evaluation of Individual First Aid Kit II and transitioned to production to support Rapid Fielding Initiative in 4QFY13.</p> <p>Personnel Airdrop. Obtained successful Milestone C for Modular Airborne Weapons Case in 3QFY13. Completed Operational Testing of the Military Free Fall Advanced Ram Air Parachute System (MFF ARAPS) which significantly increases MFF altitude and flight duration.</p> <p>FY 2014 Plans: Personnel Airdrop. Obtained Milestone C decision for MFF ARAPS in 1QFY14. Obtain Pre-EMD Decision anticipated in 2QFY14 and Milestone B decision in 3QFY14 for the Parachute Navigation System (PARANAVSYS) program, with procurement of DT 1 assets anticipated by 3QFY14. The PARANAVSYS will provide Global Positioning System (GPS) navigation capability to MFF parachutists. Will conduct DT 1 testing on PARANAVSYS to include environmental and physical properties testing. Will also procure Developmental Testing (DT) assets and conduct DT on MC-6 Control Lines to improved durability and reduce control line breakages.</p> <p>FY 2015 Plans: Personnel Airdrop. Will procure Developmental Test 2 (DT2) assets and conduct DT testing on PARANAVSYS which provides GPS navigation capabilities to MFF parachutists. Conduct DT/OT for Integrated Load Carriage System. Conduct DT of Individual Water Treatment Device (IWTD) and achieve MS C in 4QFY15.</p>			
Accomplishments/Planned Programs Subtotals	4.942	5.447	2.519

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Clothing and Individual Eqp S53: RDTE, 0603827.S53, Clothing and Equipment	7.096	5.634	1.555	-	1.555	9.364	8.608	7.272	7.467	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Central Funding and Fielding: <i>OMA, 121017, Central Funding and Fielding</i>	51.773	103.460	127.085	-	127.085	126.907	179.862	172.351	188.833	Continuing	Continuing
• Advanced Tactical Parachute System: <i>OPA, MA7801, Advanced Tactical Parachute System</i>	32.765	37.118	26.322	-	26.322	26.515	31.354	46.185	48.860	Continuing	Continuing

Remarks

D. Acquisition Strategy

Acquisition strategies for these programs vary in methods to include the following: (1) Quick fixes in 12-24 months or less from concept to Type Classification (TC); (2) modernization improvements which require limited RDT&E and are completed in more than 24-48 months from inception to Type Classification; and (3) fully integrated development that requires RDT&E funding and is completed in four years or more.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
In-House Support	Various	PM SPIE : Various	7.575	0.450		0.450		-		-		-	Continuing	Continuing	Continuing
Subtotal			7.575	0.450		0.450		-		-		-	-	-	-

Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering Support	Various	NSRDEC : Natick, MA	13.047	0.942		0.900		0.409		-		0.409	Continuing	Continuing	Continuing
Development Contracts	Various	Various : Various	36.912	2.000		2.700		1.210		-		1.210	Continuing	Continuing	Continuing
Subtotal			49.959	2.942		3.600		1.619		-		1.619	-	-	-

Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Misc Support Costs	Various	Various : Various	14.696	0.350		0.250		-		-		-	Continuing	Continuing	Continuing
Subtotal			14.696	0.350		0.250		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Testing	Various	Various : Various	15.058	1.200		1.147		0.900		-		0.900	Continuing	Continuing	Continuing
Subtotal			15.058	1.200		1.147		0.900		-		0.900	-	-	-

			Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			87.288	4.942	5.447	2.519	-	2.519	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Mountaineering Kit User Eval	■																											
Mountaineering Kit MS-C					■																							
Improved Medic Bag Transition to DLA Troop Support					■																							
Integrated Load Carriage Equipment Milestone B													■															
Integrated Load Carriage Equipment DT/OT													■															
Integrated Load Carriage Equipment Milestone C																	■											
IWTD Tech Development	■																											
IWTD Milestone C													■															

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
UNIFORM CLOTHING	1	2010	4	2015
Continue Fabric & FR Upgrades	3	2009	4	2018
Alternate Camo Pattern OT (Phase IV)	1	2012	3	2014
Camo Decision	3	2014	3	2014
Clothing Bag Upgrades and Evaluations	1	2012	4	2018
IPFU Product Improvement	1	2012	3	2015
A2CU Improvements and women's sizing	1	2012	4	2015
Garrison Food Service Uniform Improvements	1	2014	3	2014
Garrison Food Service Uniform Milestone C	2	2015	2	2015
Transition A2CU improvements to DLA Troop Support	3	2014	3	2014
Mountain Combat Boot MS C & transition to sustainment	4	2014	4	2014
FR Cold Weather Ensemble testing	2	2015	2	2016
INDIVIDUAL EQUIPMENT	2	2008	4	2015
High capacity oxygen bottle user eval	1	2016	1	2016
Oxygen Bottle Milestone C	2	2016	2	2016
Military Altimeters user eval	1	2016	1	2016
Military Altimeters Milestone C	2	2016	2	2016
Enhanced EAAD User Eval	1	2016	1	2016
Enhanced EAAD Milestone C	2	2016	2	2016
PARANAVSYS DT/OT	3	2014	1	2018
PARANAVSYS Milestone C	1	2018	1	2018
ARAPS Operational Testing	1	2013	3	2013
ARAPS MS-C	2	2014	2	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S60 / <i>Clothing & Equipment</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
MOLLE Upgrades	1	2013	3	2013
Mountaineering Kit User Eval	1	2013	3	2013
Mountaineering Kit MS-C	3	2013	3	2013
Improved Medic Bag Transition to DLA Troop Support	3	2013	3	2013
Integrated Load Carriage Equipment Milestone B	1	2016	1	2016
Integrated Load Carriage Equipment DT/OT	2	2016	4	2016
Integrated Load Carriage Equipment Milestone C	1	2017	1	2017
IWTD Tech Development	1	2013	4	2013
IWTD Milestone C	4	2015	4	2015

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S61 / <i>Acis Engineering Development</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S61: <i>Acis Engineering Development</i>	-	10.178	14.049	1.742	-	1.742	3.935	3.838	3.894	3.963	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project conducts Engineering and Manufacturing Development (EMD) for the Air Soldier System (Air SS). The Air SS improves Army aircrew safety, survivability, and human performance capabilities. The Air SS Capability Development Document addresses capability gaps identified during combat operations in Iraq and Afghanistan including the physiological effects of weight and bulk, limited situational awareness, and lack of functionally integrated aircrew life support equipment by using a Soldier as a System approach. The Air SS delivers a 25% reduction in the bulk and weight of current Army aircrew survival and mission equipment; improved Situational Awareness (SA); terrain, threat, and obstacle avoidance information; improved heads-up display (HUD) technologies that increase the aviator's ability to operate safely in Degraded Visual Environments; and the capability to perform missions up to 11.0 hours in extreme environmental and chemical/biological threat conditions. The Air SS enhances SA by delivering 3D flight symbology through an enhanced HUD; optimized survival equipment and integrated lightweight body armor; lightweight protective clothing with active thermal protection; and functionally integrated life support and communications-electronics that combines the functionality of, and reduces the bulk of, multiple standalone systems and their disparate batteries. This project also funds the development and test of an Integrated Survival Radio pre-planned product improvement that combines the functionality of the current aircrew survival/rescue radio and intercom radio into a single form factor that will significantly reduce aircrew ensemble weight and bulk. This program does not duplicate any aircraft platform program efforts.

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

<p>Title: Aircrew Integrated Systems (ACIS) Engineering Development</p> <p align="right">Articles:</p> <p>Description: Integration, evaluation, testing, and qualification of Air Soldier System multi-phased capabilities as technologies mature.</p> <p>FY 2013 Accomplishments: Continued Air Soldier System improvements, integration, evaluation, testing, and qualification including head tracking, Soldier display, aircraft-mounted mission display, Soldier computer module, integrated layered clothing system, and aircraft integration. Primary activities included completion of detail design, manufacture of production representative prototypes and laboratory qualification test activities.</p> <p>FY 2014 Plans:</p>	FY 2013	FY 2014	FY 2015
	10.178	14.049	1.742
	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
<p>Completes the fabrication, manufacture, and test of production-representative hardware for the qualification of the Air Soldier System. Completes Developmental and Operational test of head tracking, Soldier and aircraft mounted displays, Soldier computer modules, and layered clothing integration.</p> <p>FY 2015 Plans: Initiates the design and studies of system pre-planned product improvements which include advanced integrated communications to achieve the full operational capability requirement of reducing bulk and weight by at least 25%.</p>			
Accomplishments/Planned Programs Subtotals	10.178	14.049	1.742

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

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• Aircrew Integrated Sys Adv Dev: <i>RDTE, A PE</i> <i>0603827A, PROJ S51 - Adv Dev</i>	0.141	0.164	0.161	-	0.161	0.153	0.158	0.155	0.200	Continuing	Continuing
• Aircrew Integrated Systems: <i>Aircraft Procurement,</i> <i>Army SSN AZ3110 - ACIS</i>	71.408	45.841	48.081	-	48.081	47.435	47.064	46.605	47.795	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Engineering and Manufacturing Development (EMD) efforts for the Air Soldier System (Air SS) program include the integration, evaluation, testing, and airworthiness qualification of aviator flight display symbology and head tracking technologies that will deliver an initial baseline capability significantly reducing the bulk and weight of Army aircrew life support and survival equipment, and significantly increasing crew member situational awareness in degraded visual environments (DVE). The baseline capability includes survival and environmental protective clothing and equipment, a day/night helmet-mounted flight symbology display, and a new Soldier Power and distribution system for an integrated suite of personal electronics that eliminate multiple batteries, displays, and processors. A pre-planned product improvement (P3I) effort follows delivery of the baseline capability to achieve a 25% bulk and weight reduction. The P3I effort integrates the current CSEL survival radio with the Encrypted Aircraft Wireless Intercom System radio to significantly reduce in aircrew mission equipment bulk and weight and improve cockpit compatibility. Continue development and integration of deferred CPD capabilities. Contracts with industry include both Cost and Firm Fixed Price using full and open competition, each evaluated and selected to appropriately share risk between industry and the government.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				S61 / Acis Engineering Development							
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
PM Administration	Allot	Various Government : Huntsville, Alabama	1.862	0.278		0.712		0.102		-		0.102	Continuing	Continuing	Continuing
Subtotal			1.862	0.278		0.712		0.102		-		0.102	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Air Warrior and Air Soldier System Development	C/TBD	Various Government : Various Locations	39.382	7.332		9.959		1.391		-		1.391	Continuing	Continuing	Continuing
Subtotal			39.382	7.332		9.959		1.391		-		1.391	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Matrix Support	RO	Various Government : Various Locations	2.084	0.754		0.626		0.093		-		0.093	Continuing	Continuing	Continuing
Subtotal			2.084	0.754		0.626		0.093		-		0.093	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental and Operational Testing	RO	Various Activities : Various Locations	6.035	1.814		2.752		0.156		-		0.156	Continuing	Continuing	Continuing
Subtotal			6.035	1.814		2.752		0.156		-		0.156	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Air Soldier System System (Air SS) Dev, Dem and Qual Test																												
Air SS Prelim Design Review(PDR)																												
Air SS Critical Design Review (CDR)																												
Air SS Developmental Testing (DT)																												
Air SS Initial Operational Test & Eval (IOT&E)																												
Air SS Milestone C/Full Rate Production (FRP)																												
Air SS Pre-planned Product Improv (P3I) EMD																												
Prelim Design Review Integrated Survival Radio (ISR)																												
Detailed Design ISR																												
Air SS Critical Design Review (CDR) ISR																												
Air SS Developmental Testing ISR																												
Air SS Follow-on Operational Test & Evaluation improvements (FOT&E)																												
ISR Production Decision																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S61 / <i>Acis Engineering Development</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Air Soldier System System (Air SS) Dev, Dem and Qual Test	1	2012	4	2020
Air SS Prelim Design Review(PDR)	1	2013	1	2013
Air SS Critical Design Review (CDR)	4	2013	4	2013
Air SS Developmental Testing (DT)	1	2014	2	2014
Air SS Initial Operational Test & Eval (IOT&E)	2	2014	3	2014
Air SS Milestone C/Full Rate Production (FRP)	3	2014	3	2014
Air SS Pre-planned Product Improv (P3I) EMD	1	2015	4	2020
Prelim Design Review Integrated Survival Radio (ISR)	4	2015	4	2015
Detailed Design ISR	4	2015	4	2016
Air SS Critical Design Review (CDR) ISR	4	2016	4	2016
Air SS Developmental Testing ISR	2	2017	3	2017
Air SS Follow-on Operational Test & Evaluation improvements (FOT&E)	4	2017	1	2018
ISR Production Decision	2	2018	2	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S62 / <i>Counter-Defilade Target Engagement - SDD</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S62: <i>Counter-Defilade Target Engagement - SDD</i>	-	37.352	12.976	7.865	-	7.865	10.834	6.903	7.301	0.987	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Maneuver Center of Excellence (MCoE), FT Benning, GA (User Community) identifies the Counter Defilade Target Engagement (CDTE) as a critical capability gap for our Soldiers in combat. The number one materiel solution to mitigate the critical capability gap (defeating defilade (hidden) targets from 15-500m) is the XM25. The XM25 provides the Infantry Soldier with a leap-ahead overmatch capability that dramatically increases lethality, range, and capability through the use of a family of programmable 25mm ammunition and allows the Soldier to engage defilade targets with a high degree of accuracy while posing minimal burden, in terms of weight and size. The XM25 fires 25mm munitions including high-explosive airburst (HEAB) and training rounds. The XM25 comes with a target acquisition/fire control that integrates thermal capability with direct-view optics, laser rangefinder, compass, fuze setter, ballistic computer, and internal display. The XM25 has a 500-meter point target range and a 700-meter area target range capable of defeating defilade targets.

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

	FY 2013	FY 2014	FY 2015
Title: Engineering and Manufacturing Development/Fabricate	30.600	8.440	5.000
Articles:	-	-	-
Description: Description: Engineering Development and Fabrication			
FY 2013 Accomplishments: Fabricated and integrated design enhancements to the weapons system and subsystems, target acquisition/fire control (TA/FC) and ammunition identified through contractor subsystem testing and the Forward Operational Assessment (FOA). Assembled prototype systems to include weapon, TA/FC and ammunition for additional government testing. Completed fabrication of thirty-six (36) weapon systems for the second Forward Operational Assessment (FOA) 2.			
FY 2014 Plans: Implement additional system design changes identified through FOA2 corrective actions.			
FY 2015 Plans: Will establish an open system component design to incorporate technical and producible design improvements for critical electronics and optics and reduce integration complexity of components. Conduct post MS-C system level trade studies to improve system effectiveness, as well as explore ECPs to potentially reduce weight, size, and power consumption.			
Title: Engineering and Training Development	1.226	1.075	0.625

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S62 / <i>Counter-Defilade Target Engagement - SDD</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
<p align="right">Articles:</p> <p>Description: Description: Engineering and Training Development</p> <p>FY 2013 Accomplishments: Provided engineering support for weapons systems, subsystems, target acquisition/fire control (TA/FC) and software design enhancements required to perform technical design reviews. Reviews include combined system verification reviews, and production readiness review to update system engineering master plans and integrate technical design efforts. Conducted training efforts for Limited User Test (LUT). Developed new equipment training (NET) and training materials.</p> <p>FY 2014 Plans: Provide Engineering support for weapon systems, subsystems, target acquisition/fire control (TA/FC) and software design enhancements required to perform design reviews to include the system verification review, functional configuration audit, Production Readiness Review, and assess technical progress. Conduct training efforts for the Limited User Test (LUT). Provide engineering support to the development of the virtual training concept for the XM25.</p> <p>FY 2015 Plans: Will continue to provide engineering support for weapon systems, subsystems, target acquisition/fire control (TA/FC) and software design enhancements based on lessons learned from the Limited User Test (LUT). Refine and update the training material based on lessons learned during the LUT soldier training. Provide continued engineering support for the development of the XM25 virtual training concept.</p>	-	-	-
<p>Title: Development / Operational Test and Evaluation Activities</p> <p align="right">Articles:</p> <p>Description: Description: Test and Evaluate</p> <p>FY 2013 Accomplishments: Conducted government and contractor test efforts of weapon system including the target acquisition/fire control (TA/FC) and ammunition that included enhancements to address safety risks and initial contractor system level verification testing.</p> <p>FY 2014 Plans: Conduct government and contractor test efforts of weapon system including the target acquisition/fire control (TA/FC) and ammunition that include, Pre-Production Qualification tests, Electromagnetic Environmental Effects (E3) testing, Simulated Natural Environment Tests, Limited User Testing (LUT), and contractor system level verification testing of the TA/FC design improvements.</p> <p>FY 2015 Plans:</p>	5.148 -	3.073 -	1.842 -

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S62 / <i>Counter-Defilade Target Engagement - SDD</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Will continue to conduct government test activities to evaluate engineering changes to the weapons system; these will include production qualification tests and additional user testing. Government will also evaluate and test efforts related to pre-planned product improvements. Plan, coordinate, and resource Initial Operational Test and Evaluation (IOT&E), Live Fire Test and Evaluation (LFT&E) and Logistics Demonstrations.			
Title: Program Management	0.378	0.388	0.398
Articles:	-	-	-
Description: Description: Program Management			
FY 2013 Accomplishments: Provided Program Management oversight for all government and contractor engineering and test activities and ensured compliance with contract requirements to include timely delivery of products and services.			
FY 2014 Plans: Provide program management, logistical and life cycle support, to organize, coordinate and control program activities leading up to Milestone C and transition to Low Rate Initial Production (LRIP).			
FY 2015 Plans: Will continue to provide Program Management oversight post Milestone C required to test and evaluate engineering changes and pre-planned product improvements to the weapon system.			
Accomplishments/Planned Programs Subtotals	37.352	12.976	7.865

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• G16101: (G16101) <i>Integrated Air Burst Weapon System Family</i>	0.463	-	-	-	-	-	9.932	15.087	25.327	Continuing	Continuing
• E92500: (E92500) <i>CTG, 25MM, XM1083 High Explosive Air Burst (HEAB)</i>	4.506	0.001	-	-	-	-	0.198	2.180	4.957	Continuing	Continuing
• E92510: (E92510) <i>CTG, 24MM, XM1081 Target Practice (TP)</i>	-	-	-	-	-	-	-	0.396	0.892	Continuing	Continuing

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S62 / <i>Counter-Defilade Target Engagement - SDD</i>

D. Acquisition Strategy

The XM25 transitioned from the Technology and Development phase to Engineering and Manufacturing Development (EMD) phase by achieving Milestone B in December 2010. The EMD phase completes development of the XM25 and verifies training solutions for the Milestone C approval currently scheduled for 1Qtr15. Research and Development acquisition strategy is to use sole source contracting with ATK (formerly known as Alliant Techsystems), Plymouth, MN. RDT&E initiatives will continue post Milestone C for engineering changes and pre-planned product improvements to include family of munitions and target acquisition/fire control development.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604601A / Infantry Support Weapons				Project (Number/Name) S62 / Counter-Defilade Target Engagement - SDD							
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 Management	Various	Performed by Government : Various Activities	2.215	0.378	Feb 2013	0.388	Mar 2014	0.398	Jan 2015	-		0.398	Continuing	Continuing	Continuing
Subtotal			2.215	0.378		0.388		0.398		-		0.398	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Design, Develop & Fabricate	SS/CPFF	ATK : Plymouth, MN	65.335	30.600	Nov 2012	8.440	Mar 2014	5.000	Feb 2015	-		5.000	Continuing	Continuing	Continuing
Subtotal			65.335	30.600		8.440		5.000		-		5.000	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Engineering Support	Various	Various : Multiple	6.230	1.096	Feb 2013	0.955	Mar 2014	0.555	Jan 2015	-		0.555	Continuing	Continuing	Continuing
Training Development Support	MIPR	PEO STRI : PEO STRI	0.600	0.130	Feb 2013	0.120	Mar 2014	0.070	Jan 2015	-		0.070	Continuing	Continuing	Continuing
Subtotal			6.830	1.226		1.075		0.625		-		0.625	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Developmental/System Tests and Articles	SS/CPFF	Performed by Contractor : ATK, Plymouth, MN	14.854	-		-		-		-		-	-	14.854	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army											Date: March 2014				
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>					Project (Number/Name) S62 / <i>Counter-Defilade Target Engagement - SDD</i>				

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental/Operational Tests	Various	Performed by Government : Various Activities	5.481	5.148	Feb 2013	3.073	Mar 2014	1.842	Dec 2014	-		1.842	Continuing	Continuing	Continuing
Subtotal			20.335	5.148		3.073		1.842		-		1.842	-	-	-

Remarks
In FY 2015, funding will be used to continue target acquisition/fire control and family of munitions development and operational test efforts on engineering changes to weapon systems.

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	94.715	37.352	12.976	7.865	-	7.865	-	-	-

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S62 / <i>Counter-Defilade Target Engagement - SDD</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Design, Develop & Fabricate	1	2011	4	2018
Engineering and Training Development	1	2011	4	2018
Development Tests & Evaluation	1	2011	4	2018
Program Management	1	2011	4	2019
Forward Operational Assessment (FOA) 2	2	2013	3	2013
MS C/Type Classification-Limited Procurement	1	2015	1	2015
Production Qualification Test (PQT)	4	2015	1	2016
Initial Operational Test & Evaluation (IOT&E)	3	2016	1	2017
Low Rate Initial Production (LRIP)-IOT&E	1	2015	2	2017
Type Classification - Standard	2	2017	2	2017
Full Rate Production (FRP)	2	2017	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S63 / <i>Small Arms Improvement</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S63: <i>Small Arms Improvement</i>	-	13.201	17.836	4.393	-	4.393	14.294	14.408	14.496	17.805	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

New starts in FY 2015 include Miniguns and transitions Individual Non-Lethal System and Protective Coatings from Program Element 0603827A Project S54.

A. Mission Description and Budget Item Justification

The Small Arms Improvement Engineering and Manufacturing Development (EMD) program provides funds to transition components or prototypes from Small Arms Improvement, Project S54, Program Element 0603827A, (Budget Activity 4) and other domestic and foreign sources of small arms weapons to demonstrate, test and evaluate capability near or at planned operational requirements. Small arms systems include weapons ranging up to 40 millimeter in caliber. Current and future efforts focus on system improvements designed to enhance lethality, target acquisition, fire control, training effectiveness and reliability of weapons to include ammunition when developing and/or evaluating standard and non-standard weapons. Focus areas include system development, integration, demonstration, test and evaluate components, prototypes and operational system prototypes of small arms weapons and/or enhancements. Benefits include continuous improvements to small arms weapons, fire control equipment, optics, gun barrels, ancillary equipment, training devices, component mounts, weapon mounts, and weapon/ammunition interface of current small arms fleet or new weapon systems.

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

	FY 2013	FY 2014	FY 2015
Title: New Weapons	5.953	2.350	4.193
Articles:	-	-	-
Description: Description: Development of new weapons			
FY 2013 Accomplishments: Individual Carbine Competition: Concluded in FY 2013. Precision Sniper Rifle (PSR): Generated PSR requirements document and cost-benefit analysis.			
FY 2014 Plans: Precision Sniper Rifle (PSR): Support requirements document comment adjudication from 1-Star Joint Capabilities Integration and Development System (JCIDS) staffing as well as cost-benefit analysis exercises to support program decision making. FY2014 New Start Squad Designated Marksman Rifle (SDM): Supports requirement definition and analysis process. Modular Handgun System (MHS): Select commercially available Modular Handgun System (MHS) for the Army. Conduct Phase I Developmental and Operational Testing on the selected MHS. Update Acquisition Plan and Systems Engineering Plan as required.			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
<p>FY2014 New Start M3 Multi-Role Anti-Armor Anti-Personnel Weapon System (MAAWS): Conduct testing, evaluation, and documentation required for Type Classification Standard.</p> <p>FY 2015 Plans: Modular Handgun System (MHS): Conduct Phase II bid sample testing, continue test and evaluation and review and reduce test data. Prepare and plan for transition from research, development, test and evaluation (RDT&E) to low rate initial production (LRIP). Miniguns: Will evaluate various externally powered weapons, including miniguns, for suitability and performance, and potential standardization on remote weapon stations.</p>				
<p>Title: Small Arms Weapons Enhancements</p> <p>Description: Description: Enhancements and developments of small arms weapons</p> <p>FY 2013 Accomplishments: M4 Carbine Product Improvement Program: Awarded hardware delivery orders to conduct final test and evaluation of the rail system. Weapons Reliability Program: Transitioned initiative from Small Arms Improvement, Project S54, Program Element 0603827A (Budget Activity 4). Completed design of experiments, magazine prototype modifications and contract modifications and initiated test planning and coordination for magazine confirmatory test. Small Arms Signature Reduction (SASR) Suppressor Technology: Completed Human Eye Flash Detection Experiment. Human Research and Engineering Directorate/Army Research Laboratory (HRED/ARL) Technology Program Agreement approved. Improved Weapons Cleaning Kits: Awarded competitive contract for the updated cleaning kits. Compact Semi-Automatic Sniper System (CSASS): Completed strategy and procurement package for lightweight compact Semi-Automatic Sniper System (SASS) in accordance with Pre-Planned Product Improvement (P3I) provisions of the SASS ORD. Material solution may be large scale SASS (M110) Engineering Change Proposal (ECP) or new weapon system. Sniper Upgrades: Continued system testing and evaluation of components enhancements of the M110 Semi-Automatic Sniper System, M110E1 Compact Semi-Automatic Sniper Systems and XM2010 Enhanced Sniper Rifle. Shock Reduction: Completed assessment of 3D recoil and shock spectrum measurement techniques to determine viability of introducing new standard for testing small arms weapons for felt recoil and weapon device shock survivability.</p> <p>FY 2014 Plans: M4 Carbine Product Improvement Program (PIP):</p>		3.749	5.295	0.100
		Articles:	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
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Comprehensive technical testing will be performed during second quarter FY 2014. A limited user evaluation (LUE) will be conducted early third quarter FY 2014. A cost-benefit analysis and down selection evaluation will be completed in fourth quarter FY 2014. Production decision (if applicable) in late fourth quarter FY 2014.

Small Arms Signature Reduction (SASR) Suppressor Technology: Development of operational relevant human perception model for suppressor's flash and noise measurement. Review of current Military Standard (MIL-STD) and test Operational Procedure for measuring suppressor performances.

Compact Semi-Automatic Sniper System (CSASS): Down select CSASS competitors from competitive evaluation/testing phase to conduct system testing and user evaluation. Perform down-selection of most qualified vendors and award a single competitive contract.

Weapons Reliability Program: Took receipt of 1,000 prototype magazines from Center Industries and began confirmatory test at Aberdeen Test Center. Test planned to conclude in third quarter FY 2014 and scoring of final results in third and fourth quarter FY 2014.

Implement new test standard of measuring small arms felt recoil. Continue studies and evaluate increased barrel life/chrome replacement, protective coatings, and reduced recoil. Assess weapons reliability testing of functional impact with the introduction of enhanced performance ammunition on current small caliber weapon designs. Areas of potential impact include weapon system reliability, durability, and maintainability. Transition barrel twist optimization from Small Arms Improvement, Project S54, Program Element 0603827A (Budget Activity 4).

FY 2014 New Start Powered Rail: Development consisting of integrating Commercial Off-The-Shelf (COTS) components on powered rail platform in order to evaluate system level performance; system level integration efforts to further develop the components and ensure that the foundational architecture is sufficient for future applications; and optimizing power and data management to support integration of various data applications amongst peripherals.

FY 2014 New Start Gain Twist Rifling: Support testing and data analysis of delivered prototype hardware.

FY 2015 Plans:
Will continue studies and evaluate increased barrel life/chrome replacement, protective coatings, reduced recoil, and Individual Non-Lethal Systems.

Title: Ammunition	2.122	2.881	-
Articles:	-	-	-
Description: Description: Improvement of small arms ammunition			
FY 2013 Accomplishments: XM1112 Airburst Non Lethal Munition (ANLM):			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Resolved technical issues with batteries and circuit boards, verified battery and circuit boards performance, and rebuilt hardware for integration test. FY 2014 Plans: XM1112 Airburst Non Lethal Munition (ANLM): Complete integration test, conduct Critical Design Review (CDR) and build Developmental Test (DT) Hardware. FY2014 New Start XM1116 12 Gauge Non Lethal Extended Range: Prepare for the Type Classification package which at this point is still awaiting the approved Capability Production Document (CPD) in Joint Capabilities Integration and Development System (JCIDS) staffing. Will evaluate the rounds performance with the M26. Evaluate effect of new ammunition on small arms weapons.				
Title: Combat Optics Description: Description: Improvement of combat optics FY 2013 Accomplishments: Transitioned Squad Common Optic from Small Arms Improvement, Project S54, Program Element 0603827A, (Budget Activity 4). FY 2014 Plans: Squad Common Optic (SCO): Draft acquisition plan and operational assessment of Commercial Off-The-Shelf (COTS) optics to validate a common power optic across weapon platforms. FY2014 New Start Mounted Machine Gun Optic (MMO): Evaluate current technology and Off the Shelf Items to verify claims and determine if all MMO Capability Development Document (CDD) requirements can be met by said current technology. Develop Acquisition Strategy and plan to support CDD and provide Analysis of Alternatives for stakeholders.		Articles: 0.575 -	0.825 -	- -
Title: Fire Control Description: Description: Improvement of small arms fire control FY 2013 Accomplishments: M320 Grenade Launcher: Acquisition Plan and Acquisition Strategy approved second quarter FY 2013. Grenadier Sighting System (GSS): Market survey released third quarter FY 2013. GSS Industry Day number one conducted fourth quarter FY 2013 and GSS Program strategy revised fourth quarter FY 2013. FY 2014 Plans:		Articles: 0.802 -	6.485 -	- -

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Grenadier Sighting System (GSS): Revise GSS program documentation to reflect change in strategy from a Non Developmental Item (NDI) to Research and Development effort. Conduct Industry Day and release final Request for Proposal (RFP) in third quarter FY 2014.			
Integrated Ballistic Reticule System (IBRS): Complete transition of the integrated fire control for small arms program from Small Arms Improvement, Project S54, Program Element 0603827A, (Budget Activity 4) and initiate engineering manufacturing development phase. Evaluate hyperspectral tracking of targets.			
Title: Research and Analysis Description: Research and analysis of small arms FY 2015 Plans: Conduct Market Research and Cost Benefit Analysis of ongoing small arms initiatives to refine requirements and identify multiple solution sets. The following programs will be evaluated in FY 2015; Grenadier Sighting System, Compact Semi-Automatic Sniper System, Carl Gustaf M3, 12 Gauge and 40mm Non-Lethal ammunition, powered rail, mounted machinegun optic, squad common optic, Integrated Ballistic Reticule System, Squad Designated Marksman Rifle and Small Business Innovative Research enhancements.	-	-	0.100
Accomplishments/Planned Programs Subtotals	13.201	17.836	4.393

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Small Arms Improvement: <i>RDTE S54, Program Element 0603827A - Soldier Systems - Advanced Development</i>	4.533	4.258	1.029	-	1.029	8.441	6.296	5.624	7.613	Continuing	Continuing
• M4 Carbine MODS: <i>WTCV, GB3007, M4 Carbine MODS</i>	27.207	8.300	3.446	-	3.446	27.953	21.270	21.567	13.426	Continuing	Continuing
• M16 Rifle Mods: <i>WTCV, GZ2800, M16 Rifle MODS</i>	2.959	2.136	1.952	-	1.952	1.784	1.339	1.737	3.479	Continuing	Continuing
• Sniper Rifle MODS: <i>WTCV, GZ1500, Sniper Rifle MODS</i>	14.094	7.017	4.079	-	4.079	8.706	5.416	8.169	8.943	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>
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C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• M249 SAW MODS: <i>WTCV, GZ1290, M249 Squad Automatic Weapon (SAW) MODS</i>	4.989	7.608	5.546	-	5.546	4.169	6.325	5.757	5.767	Continuing	Continuing
• M240 Medium Machine Gun MODS: <i>WTCV, GZ1300, M240 Medium Machine Gun MODS</i>	6.797	2.719	4.635	-	4.635	4.236	4.814	4.963	4.971	Continuing	Continuing
• M2 .50 CAL Heavy Machine Gun MODS: <i>WTCV, GB4000, M2 .50 CAL Heavy Machine Gun MODS</i>	39.921	33.691	25.296	-	25.296	44.365	65.443	57.171	13.959	Continuing	Continuing
• Modification Less Than \$5.0M: <i>WTCV, GC0925, Modifications Less Than \$5.0M</i>	3.068	1.569	2.089	-	2.089	3.768	3.211	3.521	3.527	Continuing	Continuing
• Handgun: <i>WTCV, G15325, Handgun</i>	-	0.300	3.957	-	3.957	3.970	9.933	9.925	9.932	Continuing	Continuing

Remarks

In support of Small Arms Requirements, components or prototypes developed in Small Arms Improvement, Project S54, Program Element 0603827A, (Budget Activity 4) is transitioned to Small Arms Improvement, Project S63, Program Element 0604601A, (Budget Activity 5) to conduct engineering and manufacturing development. Once the component, prototype or operational prototype achieves Milestone C and type classification the item transitions to small arms weapon production or modification program.

D. Acquisition Strategy

Primary strategy is to mature and finalize design efforts, award Research, Development, Test and Evaluation (RDT&E) hardware contracts, and test and evaluate systems that result in type classification and follow-on production contract awards.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>
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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management	Allot	PM Soldier Weapons, : Picatinny Arsenal	6.517	1.000	Apr 2013	0.500	Mar 2014	0.500	Mar 2015	-		0.500	Continuing	Continuing	Continuing
Travel	MIPR	PM Soldier Weapons, : Picatinny Arsenal	0.784	0.250	May 2013	0.050	Mar 2014	0.103	Mar 2015	-		0.103	Continuing	Continuing	Continuing
Subtotal			7.301	1.250		0.550		0.603		-		0.603	-	-	-

Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Fabrication	C/TBD	Various : Multiple Contractors	0.000	0.250	May 2013	1.200	Mar 2014	0.450	Mar 2015	-		0.450	Continuing	Continuing	Continuing
Hardware Development	MIPR	Army Research Development Engineering Centers, : Multiple	7.129	0.075	Feb 2013	0.750	Mar 2014	-		-		-	Continuing	Continuing	Continuing
Subtotal			7.129	0.325		1.950		0.450		-		0.450	-	-	-

Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering	MIPR	Army Research Development Engineering Centers, : Multiple	26.822	4.500	Apr 2013	8.412	Mar 2014	0.820	Mar 2015	-		0.820	Continuing	Continuing	Continuing
Logistics	MIPR	TACOM, : Warren	2.595	0.351	Apr 2013	1.200	Mar 2014	0.200	Mar 2015	-		0.200	Continuing	Continuing	Continuing
Human Research and Engineering	MIPR	Army Research Laboratory, : Aberdeen Proving Ground	2.322	0.100	Apr 2013	0.500	Mar 2014	0.200	Mar 2015	-		0.200	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Individual Carbine Competition	██████████																											
Modular Handgun	██████████																											
Precision Sniper Rifle	██████████																											
M3 Multi-Role Anti-Armor Anti-Personnel Weapon System (MAAWS)					██																							
Squad Designated Marksman Rifle (SDM)					██																							
Miniguns									██																			
Combat Lightweight Automatic Weapon System (CLAWS)													██															
Gain Twist Rifling	████████████████████																											
Small Arms Signature Reduction (SASR) Suppressor Technology	████████████████████																											
Improved Weapons Coating	████████████████████												██															
Powered Rail	████████████████████												██															
Weapon Upgrades and Accessories	████████████████████				████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
XM1112 40MM Airburst Non-Lethal	████████████████████																											
XM1116 12 Gauge Non-Lethal Extended Range					████████████████████																							
Squad Common Optic					████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
Mounted Machine Gun Optic	████████████████████				████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
Optics Upgrades and Re-Competition	████████████████████				████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
Grenadier Sighting System for the M320 Grenade Launcher	████████████████████				████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
Integrated Ballistic Reticle System (IBRS)					████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
Fire Control Upgrades	████████████████████				████████████████████				████████████████████				████████████████████				████████████████████				████████████████████							
RESEARCH AND ANALYSIS									████████████████████				████████████████████				████████████████████				████████████████████							

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S63 / <i>Small Arms Improvement</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Individual Carbine Competition	1	2010	4	2013
Modular Handgun	1	2012	4	2015
Precision Sniper Rifle	1	2012	4	2015
M3 Multi-Role Anti-Armor Anti-Personnel Weapon System (MAAWS)	1	2014	4	2016
Squad Designated Marksman Rifle (SDM)	1	2014	4	2017
Miniguns	1	2015	4	2017
Combat Lightweight Automatic Weapon System (CLAWS)	1	2016	4	2019
Gain Twist Rifling	1	2013	4	2014
Small Arms Signature Reduction (SASR) Suppressor Technology	1	2011	4	2015
Improved Weapons Coating	1	2011	4	2017
Powered Rail	1	2013	4	2017
Weapon Upgrades and Accessories	1	2008	4	2019
XM1112 40MM Airburst Non-Lethal	1	2010	4	2015
XM1116 12 Gauge Non-Lethal Extended Range	1	2014	4	2015
Squad Common Optic	1	2014	4	2016
Mounted Machine Gun Optic	1	2013	4	2016
Optics Upgrades and Re-Competition	1	2008	4	2019
Grenadier Sighting System for the M320 Grenade Launcher	1	2009	4	2015
Integrated Ballistic Reticle System (IBRS)	1	2014	4	2016
Fire Control Upgrades	1	2008	4	2019
RESEARCH AND ANALYSIS	1	2015	4	2019
Research and Analysis of Small Arms	1	2015	4	2015

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S64 / <i>Common Remotely Operated Wpn Sys (CROWS)</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S64: <i>Common Remotely Operated Wpn Sys (CROWS)</i>	-	-	9.459	2.458	-	2.458	3.447	4.437	3.453	2.730	-	25.984
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Maneuver Support Center of Excellence (MSCoE) at FT Leonard Wood, MO (user community) has identified continued development of the Common Remotely Operated Weapon Station (CROWS) as a critical improvement for the Soldier in the combat environment. By addressing the capability gap of non-turreted, lightly armored vehicles where the gunner is exposed to enemy fire, the current CROWS system provides the ability to rapidly and accurately locate and engage the enemy while allowing platform gunners to remain under armor, thereby providing greater protection and increasing overall lethality.

While addressing obsolescence, additional modifications to address operational concerns identified in the Operational Test Agency Milestone Assessment Report (OMAR) and user community feedback in contingency operations will be developed and integrated into the CROWS system, to include: improved system survivability for optics; vehicle commander display and firing override ability; future generation Forward Looking Infrared (FLIR); auto-zoom; auto-tracking; auto-detection and targeting; integration of future weapon systems; improved sensors for increased situational awareness; through-sight video recording; improved rounds counter; integration of Escalation of Force (EOF) capabilities. In addition to these capabilities, development efforts will be pursued, to include improvements to component reliability that will extend system life and design changes that will limit the cost and quantity of parts and reduce the system's logistics footprint.

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

	FY 2013	FY 2014	FY 2015
Title: Technology Refresh and Obsolescence	-	8.364	0.793
Articles:	-	-	-
Description: Description: Technology Refresh and Obsolescence			
FY 2014 Plans: As a prerequisite to developing improvements involving enhanced sensors, infrared sights, video capabilities and situational awareness, the contractor designs and fabricates an improved fire control unit (FCU) processor, to include ethernet channels in the system's slip ring, in order to facilitate the greater data through-put required.			
FY 2015 Plans: Contractor will complete design and fabrication of an improved fire control unit (FCU) processor, to include ethernet channels in the system's slip ring, in order to facilitate the greater data through-put required.			
Title: Engineering Support	-	0.645	0.805

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S64 / <i>Common Remotely Operated Wpn Sys (CROWS)</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Articles:		-	-	-
Description: Description: Government Engineering Support.				
FY 2014 Plans: Provides engineering support and oversight of design improvements; preparation of the performance specifications for the contractor; development of new processor and slip-ring that facilitates target acquisition and designation, command override, infrared and video capabilities.				
FY 2015 Plans: Will continue to provide engineering support and oversight of design improvements and contractor performance; development of enhanced sensors, infrared sights, video capabilities and situational awareness.				
Title: Development Test and Evaluation		-	-	0.110
Description: Description: Test and Evaluation				
FY 2015 Plans: Will develop testing and evaluation criteria and documentation and conduct initial developmental testing and evaluation of improvements.				
Title: Program Management		-	0.450	0.750
Articles:		-	-	-
Description: Description: Program Management.				
FY 2014 Plans: The program management office and the proponents in the user community at the Maneuver Support Center provide oversight of product design and development, to include engineering support, contract actions and test activities throughout the fiscal year.				
FY 2015 Plans: The program management office and the proponents in the user community at the Maneuver Support Center will continue to provide oversight of product design and development, to include engineering support, contract actions and test activities throughout the fiscal year. Program management office will facilitate test events at various government laboratories to test prototype units of the improved fire control unit processor and system slip ring, in order to quantify performance with the most current sensors and effectors, and manages the life cycle of the program to include future acquisition and sustainment plans.				
Accomplishments/Planned Programs Subtotals		-	9.459	2.458

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S64 / <i>Common Remotely Operated Wpn Sys (CROWS)</i>

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

Line Item	FY 2013	FY 2014	FY 2015	FY 2015	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Cost To	
			Base	OCO	Total					Complete	Total Cost
• CROWS (G04700, W&TCV): <i>W&TCV, G04700, CROWS</i>	56.650	41.563	8.409	-	8.409	8.436	8.443	8.437	16.388	-	148.326

Remarks

D. Acquisition Strategy

The Common Remotely Operated Weapon Station (CROWS) uses a single-step acquisition approach in its strategy. The CROWS achieved Type Classification Standard in 3QFY11, Full Materiel Release in 3QFY12 and Full Rate Production in 4QFY12, in accordance with the Capability Production Document (CPD) Increment One (1), as clarified in June 2009.

The program objective is to continue developing, improving and fielding the CROWS on Up-Armored High Mobility Multipurpose Wheeled Vehicles (UA-HMMWV), M1A2 Abrams Main Battle Tank and other combat vehicles to the Army Acquisition Objective (AAO) in accordance with the Basis of Issue Plan (BOIP). In addition, the program supports new and emerging urgent requirements like the integration of the Mine Resistant Ambush Protected (MRAP) family of vehicles, ground combat systems, Joint Lightweight Tactical Vehicles (JLTV) and fixed site mounting systems.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				S64 / Common Remotely Operated Wpn Sys (CROWS)							
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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 Management	MIPR	PM Soldier Weapons : Picatinny Arsenal, NJ	0.053	-		0.450	Mar 2014	0.750	Mar 2015	-		0.750	Continuing	Continuing	-
Subtotal			0.053	-		0.450		0.750		-		0.750	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Technology Refresh and Obsolescence	SS/FFP	Kongsberg Protech Systems USA : Johnstown, PA	0.000	-		8.364	Aug 2014	0.793	Mar 2015	-		0.793	Continuing	Continuing	-
Subtotal			0.000	-		8.364		0.793		-		0.793	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Engineering Support	MIPR	ARDEC : Picatinny Arsenal, NJ	0.103	-		0.645	Mar 2014	0.805	Mar 2015	-		0.805	Continuing	Continuing	-
Subtotal			0.103	-		0.645		0.805		-		0.805	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Test Planning and Execution	Various	Various : Multiple	0.017	-		-		0.110	Mar 2015	-		0.110	Continuing	Continuing	-
Subtotal			0.017	-		-		0.110		-		0.110	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S64 / <i>Common Remotely Operated Wpn Sys (CROWS)</i>

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Contractor Design and Fabrication																												
Engineering Support (Government)																												
Development Test & Evaluation																												
Program Management																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S64 / <i>Common Remotely Operated Wpn Sys (CROWS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Contractor Design and Fabrication	4	2014	3	2016
Engineering Support (Government)	2	2014	4	2019
Development Test & Evaluation	3	2015	4	2019
Program Management	2	2014	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>				Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
S70: <i>Personnel Recovery Support System (PRSS)</i>	-	4.090	1.132	0.543	-	0.543	1.123	1.176	1.177	1.180	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

This project provides the continued maturation of PRSS products that enable operations to report and locate isolated, missing, detained or captured Soldiers. The PRSS program consists of the enhancement of existing products to ensure continued successful interoperability within the relevant theater of operations and the Continental United States (CONUS), and the demonstration of a production representative encrypted Personnel Recovery Device (PRD) that operates over a secure architecture.

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

	FY 2013	FY 2014	FY 2015
Title: Development of Personnel Recovery Support System (PRSS)	4.090	1.132	0.543
Articles:	-	-	-
Description: Integration, evaluation, testing, and qualification of PRSS products to ensure continued successful interoperability within the relevant theater of operation, and development of a PRD that operates over a secure architecture.			
FY 2013 Accomplishments: Successfully completed development of a prototype PRD and receiver and conducted PRSS 1b system level test and evaluation.			
FY 2014 Plans: Continue PRSS 1b system level test and evaluation, and begin integration of receivers onto the communications infrastructure of mission partners at various locations.			
FY 2015 Plans: Complete integration and test of receivers onto the communications infrastructure. Conduct evaluation and test of PRD production representative articles in support of competitive production contract downselect.			
Accomplishments/Planned Programs Subtotals	4.090	1.132	0.543

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Personnel Recovery Support Sys OPA: <i>Other Procurement, Army, G01101-Personnel Recovery Support System (PRSS)</i>	11.207	26.526	16.728	-	16.728	14.948	11.700	11.107	6.831	Continuing	Continuing
• Aircrew Integrated Systems APA: <i>Aircraft Procurement, Army AZ3110-ACIS includes funding of Personnel Recovery Support Equipment aircraft mods</i>	71.408	45.841	-	-	-	-	-	-	-	-	117.249

Remarks

Aircraft Procurement, Army SSN of AZ3110 - ACIS primarily includes the funding of traditional Aircrew Integrated Systems efforts including Air Warrior and Air Soldier System requirements; as well as support Personnel Recovery Support System (PRSS) platform interoperability production program through FY2014.

D. Acquisition Strategy

Execute PRSS program development effort for performance optimization through contracts with industry and Military Interdepartmental Purchase Requests to other Governmental agencies. Perform continuing development and test of new waveforms on an annual basis to mitigate potential security compromises to the PRSS system.

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				S70 / Personnel Recovery Support System (PRSS)							
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
PM Administration	Allot	Various Government : Huntsville, Alabama	0.581	0.136		0.050		0.052		-		0.052	Continuing	Continuing	Continuing
Subtotal			0.581	0.136		0.050		0.052		-		0.052	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Personnel Recovery Support System Development Systems Engineering	MIPR	Various Organizations : Various Locations	3.295	3.312		0.310		0.120		-		0.120	Continuing	Continuing	Continuing
Subtotal			3.295	3.312		0.310		0.120		-		0.120	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Matrix Support	MIPR	Various Organizations : Various Locations	0.972	0.291		0.337		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.972	0.291		0.337		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Developmental Testing	MIPR	Various Organizations : Various Locations	0.600	0.351		0.435		0.371		-		0.371	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Personnel Recovery Support System (PRSS) Development Oversight	[REDACTED]																											
PRSS Development and Test	[REDACTED]																											
PRSS Prototype Hardware Build and Integration	[REDACTED]																											
PRSS Upgrades & Adaptations to New Platforms	[REDACTED]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) S70 / <i>Personnel Recovery Support System (PRSS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Personnel Recovery Support System (PRSS) Development Oversight	1	2010	4	2019
PRSS Development and Test	1	2010	4	2019
PRSS Prototype Hardware Build and Integration	3	2010	3	2015
PRSS Upgrades & Adaptations to New Platforms	1	2015	4	2019

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
VS5: <i>Soldier Protective Equipment</i>	-	10.646	20.032	4.833	-	4.833	16.737	13.057	10.329	10.350	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This funding supports the System Development and Demonstration (SDD) phase of Engineering and Manufacturing Development (EMD) tasks related to Individual Soldier Ballistic Protection. It funds system integration and formal Developmental Testing/Operational Testing (DT/OT) of production representative systems leveraging advancements in technology to continue incremental improvements (sizing, functionality, heat management and reduction of weight/bulk) of body armor, and the transition of new technologies into production as they mature. It funds efforts to assess head protection component technologies to mitigate the effects of ballistic/blast and non-ballistic impact (crash) threats. It also funds effort to increase eyewear ballistic/blast protection, and transition products to production.

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

	FY 2013	FY 2014	FY 2015
Title: Soldier Protective Equipment	10.646	20.032	4.833
Articles:	-	-	-
Description: Funding line established in FY12. Effort was previously executed in Program Element 0604601 S60. Effort is to increase the Warfighter lethality and mobility, by optimizing Soldier protection while effectively managing all life cycle aspect of Personal Protective Equipment (PPE).			
FY 2013 Accomplishments: Completed System Capability & Manufacturing Process Demonstration (SC&MPD) phase for the Family of Concealable Body Armor (FoCBA) and received a Type Classification (Milestone C) decision in 2QFY13. Obtained a Materiel Development Decision (MDD) for the Soldier Protection System (SPS) in 1QFY13 and a Milestone B Decision in 3QFY13. Awarded SPS Transition Combat Eye Protection (TCEP) and Vital Torso Protection System (VTPS) development contracts in 4QFY13. FY13 efforts concentrated on the integration of more mature VTPS, TCEP and Torso Protection (TP) subsystems to enhance SPS form, fit and comfort for all Soldiers. Initiated requalification efforts in 1QFY13 to the Authorized Protective Eyewear List (APEL) including the Universal Prescription Lens Carrier requirement. Released APEL re-qualification notice to industry in 3QFY13. Received APEL candidate submissions, initiated characterization, and physical property testing in 4QFY13.			
FY 2014 Plans: Complete characterization testing and initiate Soldier Human Factors Evaluations of APEL requalification candidates in 2QFY14. Complete APEL/QPL requalification program (including Universal Prescription Lens Carrier) by 4QFY14. Initiate and complete Soldier Protective System (SPS) TCEP Human Factors testing of Phase I (DT 1) prototypes by 1QFY14. Initiate and complete TCEP DT 1 ballistic testing by 2QFY14 and exercise 2nd Contract Option of TCEP development contract by 3QFY14. Awarded			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
<p>SPS Integrated Head Protection System (IHPS) development contracts in 1QFY14. Awarded the Torso Protection (TP) Subsystem development contracts in 2QFY14. Continue SPS System Capability & Manufacturing Process Demonstration (SC&MPD) activities. FY14 efforts will focus on the completion of Vital Torso Protection (VTP) Characterization Testing by 3QFY14, and awarding Phase II contract options to support continued refinement and integration (build-test-fix-build) of the SPS subsystems. Conduct Critical Design Reviews and award contract options for formal Developmental Test (DT) hardware, Human Factors and System-Level test items to conduct SPS DT/OT through 2QFY15. Support development of the SPS Capability Production Document and prepare for a Milestone C Decision (Type Classification - Low Rate Initial Production (OMA, 121017, Central Funding and Fielding) by 3QFY15.</p> <p>FY 2015 Plans: Initiate development of SPS subsystems and components transitioned from Advanced Component Development and Prototypes (ACD&P) and Integrated System Design (ISD). Complete DT/OT of SPS Subsystems (VTP, TP, IHPS, TCEP) and achieve a Milestone C Decision (Type Classification - Low Rate Initial Production (OMA, 121017, Central Funding and Fielding) by 3QFY15. Continue to evaluate component and subsystem technologies across the PPE portfolio (extremities, torso and vital torso, head and face protection) from emerging ballistic/blast threats. Continue efforts to reduce SPS weight and bulk at the system, subsystem and component level. Continue efforts to increase durability and functional service life. Continue development of ballistic inserts for female and small statured Soldiers through 1QFY16 as the components and subsystems mature.</p>			
Accomplishments/Planned Programs Subtotals	10.646	20.032	4.833

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• VS4 6.4 RDTE: <i>RDTE, 0603827A.VS4, Soldier Protective Equipment</i>	14.513	3.686	2.690	-	2.690	5.447	5.267	4.427	4.441	-	40.471
• OMA: <i>OMA, 121017, Central Funding & Fielding</i>	51.773	103.460	127.085	-	127.085	126.907	179.862	172.351	188.833	-	950.271

Remarks

D. Acquisition Strategy

Acquisition strategies vary in methods to include the following: (1) Low Risk Enhancements in 12-24 months or less to integrate, validate and make a production decision; (2) modernization (through spares) improvements which require limited RDT&E funding and are completed in 24-48 months and inserted as engineering changes to existing or pending production contracts; and (3) fully integrated development that requires substantial RDT&E funding and is completed in four years or more.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0604601A / Infantry Support Weapons				VS5 / Soldier Protective Equipment							
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
SETA Support	Various	PM SPE : various	0.200	0.300		0.400		-		-		-	Continuing	Continuing	-
Subtotal			0.200	0.300		0.400		-		-		-	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Dev/Integ Contracts	Various	Various : Various	1.276	7.518		15.197		2.413		-		2.413	Continuing	Continuing	-
Prod Sys Engineering Spt	MIPR	various : various	0.669	0.828		1.096		0.530		-		0.530	Continuing	Continuing	-
Subtotal			1.945	8.346		16.293		2.943		-		2.943	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Misc Support Costs	MIPR	Various : Various	0.600	0.600		0.600		-		-		-	-	1.800	-
Subtotal			0.600	0.600		0.600		-		-		-	-	1.800	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
DT/Ballistic & OT Test Costs	SS/TBD	Various DTC & OTC : Various DTC & OTC	1.114	1.400		2.739		1.890		-		1.890	Continuing	Continuing	-
Subtotal			1.114	1.400		2.739		1.890		-		1.890	-	-	-
Project Cost Totals			3.859	10.646		20.032		4.833		-		4.833	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
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<u>Remarks</u>									
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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Complete development of Family of Concealable Body Army (FoCBA)	■																											
FoCBA Milestone C Decision		■																										
SPS Material Development Decision (MDD)	■																											
SPS Milestone B decision			■																									
Initiate/complete APEL/QPL requalification Program			■	■	■	■	■																					
SPS SC&MPD phase			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award SPS Protective Eyewear and Vital Torso Contracts				■																								
Award SPS Integrated Head Protection System Contract					■	■																						
Award SPS Torso & Extremity Protection Contract						■	■																					
SPS Critical Design Review (CDR)							■	■																				
Award SPS components/subsystem contract options for DT/OT Hardware									■	■																		
Conduct Phase II SPS System Level DT/OT 1									■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
SPS Milestone C Decision																												
Initiate SPS Incr/SC&MPD Improvements thru FY19																												
SPS system testing (ballistic & non ballistic; FOT&E) thru FY19																												
SPS CDRs/PRRs - 1 Transition mature subsystems to production FY15																												
SPS CDRs/PRRs - 2 Transition mature subsystems to production FY16																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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

SPS CDRs/PRRs - 3 Transition mature subsystems to production FY17	█																											
SPS CDRs/PRRs - 4 Transition mature subsystems to production FY18	█																											
SPS CDRs/PRRs - 5 Transition mature subsystems to production FY19	█																											
Award SPS ISSS DT/OT Contract options	█																											
Conduct ISSS DT/OT 2	█																											
ISSS MS C	█																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army **Date:** March 2014

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604601A / <i>Infantry Support Weapons</i>	Project (Number/Name) VS5 / <i>Soldier Protective Equipment</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Complete development of Family of Concealable Body Army (FoCBA)	1	2013	1	2013
FoCBA Milestone C Decision	2	2013	2	2013
SPS Material Development Decision (MDD)	1	2013	1	2013
SPS Milestone B decision	3	2013	3	2013
Initiate/complete APEL/QPL requalification Program	3	2013	2	2014
SPS SC&MPD phase	3	2013	2	2015
Award SPS Protective Eyewear and Vital Torso Contracts	4	2013	4	2013
Award SPS Integrated Head Protection System Contract	1	2014	1	2014
Award SPS Torso & Extremity Protection Contract	2	2014	2	2014
SPS Critical Design Review (CDR)	3	2014	3	2014
Award SPS components/subsystem contract options for DT/OT Hardware	4	2014	4	2014
Conduct Phase II SPS System Level DT/OT 1	4	2014	2	2015
SPS Milestone C Decision	3	2015	3	2015
Initiate SPS Incr/SC&MPD Improvements thru FY19	4	2015	4	2019
SPS system testing (ballistic & non ballistic; FOT&E) thru FY19	2	2016	4	2019
SPS CDRs/PRRs - 1 Transition mature subsystems to production FY15	3	2015	3	2015
SPS CDRs/PRRs - 2 Transition mature subsystems to production FY16	3	2016	3	2016
SPS CDRs/PRRs - 3 Transition mature subsystems to production FY17	3	2017	3	2017
SPS CDRs/PRRs - 4 Transition mature subsystems to production FY18	3	2018	3	2018
SPS CDRs/PRRs - 5 Transition mature subsystems to production FY19	3	2019	3	2019
Award SPS ISSS DT/OT Contract options	1	2016	1	2016
Conduct ISSS DT/OT 2	2	2016	4	2016
ISSS MS C	1	2017	1	2017