Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced Development

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	41.599	73.785	48.323	0.000	48.323	57.761	42.566	84.528	88.706	Continuing	Continuing
S49: GROUND SOLDIER SYSTEM (GSS)	21.807	57.293	36.093	0.000	36.093	25.572	17.732	34.885	41.849	Continuing	Continuing
S51: AIRCREW INTEGRATED SYS AD	1.301	0.137	0.141	0.000	0.141	0.145	0.148	0.152	0.155	Continuing	Continuing
S53: CLOTHING AND EQUIPMENT	11.674	8.145	7.106	0.000	7.106	6.572	6.648	6.867	6.945	Continuing	Continuing
S54: SMALL ARMS IMPROVEMENT	1.435	5.624	4.983	0.000	4.983	4.885	4.954	5.070	5.142	Continuing	Continuing
S55: Counter-Defilade Target Engagement	5.382	2.586	0.000	0.000	0.000	20.587	13.084	37.554	34.615	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) for Advanced Component Development and Prototypes manages the Soldier as a system in order to increase combat effectiveness, test and deliver tangible products that save Soldier's lives, and improve Soldier's quality of life. It evaluates, develops, and tests emerging technologies and critical Soldier support systems to reduce technology risk. Project S49 funding (Ground Soldier System) integrates multiple components and leverages emerging technologies to provide overmatching operational capabilities to ground combat Soldiers. Project S51 funding (Aircrew Integrated Systems) supports component development and prototyping of critical Soldier support systems and other combat service support equipment that will improve unit sustainability and combat effectiveness. Project S52 funding (Soldier Support Equipment) supports component development and prototyping of critical Soldier support systems and other combat service support equipment that will improve unit sustainability and combat effectiveness. Project S53 funding (Clothing and Equipment) supports development of state-of-the-art technology to improve tactical and non-tactical clothing and individual equipment to enhance the lethality, survivability, and mobility of the individual Soldier. Project S54 funding (Small Arms Improvement) provides funds to develop, demonstrate and evaluate emerging technology for integration of systems, subcomponents and prototypes designed to enhance lethality, target acquisition, fire control, training effectiveness and reliability for current and future small arms weapon systems and ammunition. Project S55 funding (Counter-Defilade Target Engagement) provides funds to develop, demonstrate and evaluate technology for integration of systems and subcomponents to enhance hit probability to defeat defilade and point area targets at the squad level.

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0603827A: Soldier Systems - Advanced Development

BA 4: Advanced Component Development & Prototypes (ACD&P)

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	41.616	71.832	48.574	0.000	48.574
Current President's Budget	41.599	73.785	48.323	0.000	48.323
Total Adjustments	-0.017	1.953	-0.251	0.000	-0.251
 Congressional General Reductions 		-0.387			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	-1.000			
 Congressional Adds 		3.340			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	0.000	0.000			
 SBIR/STTR Transfer 	0.000	0.000			
 Adjustments to Budget Years 	-0.017	0.000	-0.251	0.000	-0.251

Change Summary Explanation

FY2010 - Congressional Adds - \$1.600 million Acid Alkaline Direct Methanol Fuel Cell \$1.140 million Fire Suppression System\$.600 million Improved HELLHOUND 40mm Low Velocity High Explosive AmmunitionFY2010 - Congressional Directed Reductions--\$1.000 million Unexecutable Growth-Ground Soldier System

DATE: Fobruary 2010

Exhibit K-2A, KD I &E Project Justin	icauon: PD 2	O11 Affily						DATE: February 2010					
APPROPRIATION/BUDGET ACTI	APPROPRIATION/BUDGET ACTIVITY							PROJECT					
2040: Research, Development, Test & I		PE 0603827	A: Soldier Sys	tems - Advan	ced	S49: GROUND SOLDIER SYSTEM (GSS)							
BA 4: Advanced Component Developm	Developmen	t											
COST (\$ in Millions)	FY 2009	FY 2010	FY 2011 Base	FY 2011 FY 2011 OCO Total FY 2012 FY 2013 FY 2014 FY 2015						Cost To			
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost		
S49: GROUND SOLDIER SYSTEM (GSS)	21.807	57.293	36.093	0.000	36.093	25.572	17.732	34.885	41.849	Continuing	Continuing		
Quantity of RDT&E Articles													

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

Exhibit D 24 DDT&F Project Justification, DR 2011 Army

The Ground Soldier System (GSS), is an integrated dismounted leader situational awareness (SA) system for use during combat operations. The system provides unparalleled situational awareness and understanding to the dismounted leader allowing for faster and more accurate decisions in the tactical fight. This translates into Soldiers being at the right place, at the right time, with the right equipment making them more effective, more lethal, and more survivable in the execution of their combat mission. The Increment I of the GSS program focuses on the development of the SA system, improved navigation, and reduced fratricide through the visualization of friendly forces. Under this project three contractors are competing with different prototype designs. A Pre-planned Product Improvement (P3I) will integrate Joint Tactical Radio System (JTRS) when the Small Form Factor ("B") is validated and proven. Increment II will integrate Unified Battle Command and additional capabilities.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	20.470	0.000	0.000	0.000	0.000
FY09: Began developmental engineering, competitive prototyping with three contractors, manufacturing, and systems engineering, assessment, competitive contractor testing (with three contractors) and program management support for Ground Soldier Ensemble (GSE)					
FY 2009 Accomplishments: FY 2009					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanc Development	ed	PROJECT S49: GROU	UND SOLDIER SYSTEM (GSS)			
B. Accomplishments/Planned Program (\$ in Millions)							
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #2		0.000	42.532	0.000	0.000	0.000	
FY10: Continue developmental engineering, competitive prototyping systems engineering, assessment, competitive contractor testing (with support for Ground Soldier Ensemble (GSE)							
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #3		0.000	0.000	13.756	0.000	13.756	
FY11: Prepare for Milestone C and begin integration of Joint Tactical	Radio System (JTRS).						

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advant Development	PE 0603827A: Soldier Systems - Advanced S49: G					
B. Accomplishments/Planned Program (\$ in Millions)			I				
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #4		1.337	0.000	0.000	0.000	0.000	
FY09: Began Governmental Test and Evaluation (T&E) Activities.							
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #5		0.000	11.351	22.337	0.000	22.337	

	01102110011112					
Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010					
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	PROJECT S49: GROUND SOLDIER SYSTEM (GSS)					
B. Accomplishments/Planned Program (\$ in Millions)						
	$oxed{\mathbf{F}}$	Y 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY10 and FY11: Continue Governmental T&E Activities by conduct Tests, and Operational Test.	ing Developmental Tests, Limited User					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

0.000

1.600

0.000

0.000

0.000

UNCLASSIFIED

FY10: Congressional Add for Soldier Power - reprogramming action required to place in proper Programe

Program #6

Element/Project.

FY 2010 Plans: FY 2010

FY 2011 Base Plans: FY 2011 Base

FY 2009

FY 2009 Accomplishments:

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0603827A: Soldier Systems - Advanced	S49: <i>GROU</i>	ND SOLDIER SYSTEM (GSS)
BA 4: Advanced Component Development & Prototypes (ACD&P)	Development		

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

b. Accompositioners/1 fainted 1 rogram (5 in Winnons)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO					
Program #7	0.000	1.810	0.000	0.000	0.000
FY10: Small Business Innovative Research/Small Business Technology Transfer Program (SBIR/SBTTR)					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Accomplishments/Planned Programs Subtotals	21.807	57.293	36.093	0.000	36.093

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	<u>OCO</u>	Total	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: OPA 3, R8050000, Ground	0.000	1.803	110.524	0.000	110.524	235.371	525.390	532.238	540.386	Continuing	Continuing
Soldier System											

D. Acquisition Strategy

The GSS Increment I acquisition concept, which implements the Office of the Secretary of Defense (OSD) guidance on competition in prototyping, takes the GSS program from the approved MS A through the current Technology Development (TD) Phase to a MS C allowing the maximum competition. Following the MS A Decision on February 19, 2009, three

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0603827A: Soldier Systems - Advanced	S49: GROUND SOLDIER SYSTEM (GSS)
BA 4: Advanced Component Development & Prototypes (ACD&P)	Development	
contracts were awarded on April 15, 2009 for the TD Phase. The TD Phase contractors design and fabricate Contractor Furnished Equipment, integ compliance with performance requirements. During Part 2 of TD, the contractor requirements, and a Limited User Test (LUT) to demonstrate the end of the TD phase. Depending on these results, GSS will proceed	grate Government Furnished Property and test their syste ontractors' systems will undergo formal ATEC Develope the ability to achieve operational requirements. Technol-	ems during contractor and government testing to prove mental Testing (DT) to evaluate the ability to achieve ogy maturity and programmatic risk will be assessed a
E. Performance Metrics		
Performance metrics used in the preparation of this justification materia	al may be found in the FY 2010 Army Performance Bud	get Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S49: GROUND SOLDIER SYSTEM (GSS)

Product Development (\$ in Millions)

				FY :	FY 2010				FY 2011 F OCO				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Develop, Integrate and Prototype GSS Increment I	C/CPFF	General Dynamics C4 Systems Inc, Scottsdale, AZ	0.000	6.779		0.000		0.000		0.000	Continuing	Continuing	0
Develop, Integrate and Prototype GSS Increment I - 2	C/CPFF	Raytheon Company McKinney, TX	0.000	6.372		0.000		0.000		0.000	Continuing	Continuing	0
Develop, Integrate and Prototype GSs Increment I	C/CPFF	Rockwell Collins Inc, Cedar Rapids, IA	0.000	6.792		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	19.943		0.000		0.000		0.000			0.000

Remarks

Support (\$ in Millions)

				FY	2010		2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Ground Soldier support	С	Various Location could not be determined.	3.203	15.056		8.026		0.000		8.026	Continuing	Continuing	0
Soldier Power Congressional Add - reprogramming action required.	С	Nothing entered for Activity and Location.	0.000	1.600		0.000		0.000		0.000	Continuing	Continuing	0

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0603827A: Soldier Systems - Advanced

S49: GROUND SOLDIER SYSTEM (GSS)

BA 4: Advanced Component Development & Prototypes (ACD&P)

Development

Support (\$ in Millions)

			FY 2	2010	FY 2 Ba	2011 ase		2011 CO	FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Location could not be determined.											
		Subtotal	3.203	16.656		8.026		0.000		8.026			0.000

Remarks

Test and Evaluation (\$ in Millions)

				FY	2010		2011 ase	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various Testing Organizations	С	ATEC TTC/YPG/DTC/ EPT/ARL-SLAD, etc.	0.000	11.351		22.337		0.000		22.337	Continuing	Continuing	0
	Subtotal		0.000	11.351		22.337		0.000		22.337			0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S49: GROUND SOLDIER SYSTEM (GSS)

Management Services (\$ in Millions)

				FY	2010	FY :	2011 ase	FY :	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Soldier Warrior oversight and integration of GSS program	С	PM Soldier Warrior Ft. Belvoir, VA	1.547	7.533		5.730		0.000		5.730	Continuing	Continuing	0
SBIR/SBTTR	С	Nothing entered for Activity and Location. Location could not be determined.	0.000	1.810		0.000		0.000		0.000	Continuing	Continuing	0
	Subtotal 1.54					5.730		0.000		5.730			0.000

Remarks

	Total Prior Years Cost	FY 2	2010	FY 2		2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.750	57.293		36.093	0.000		36.093	-		0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S49: GROUND SOLDIER SYSTEM (GSS)

]	FY :	200	9	I	Y 2	2010	0	I	Y 2	201	1	I	FY 2	201	2	I	FY 2	201	3	I	FY :	201	4]	FY 2	201	5
	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
Milestone A Decision Increment I	#																											
Prototyping/Refinement Increment I		#	#	#	#	#	#	#																				
Developmental Test (DT) Increment I						#																						
Limited User Test (LUT) Increment I							#																					
Milestone C Decision Increment I									#																			Г
Low Rate Initial Production (LRIP) Increment I									#	#	#	#	#															Г
Independent Operational Test and Evaluation (IOTE) Increment I											#	#	#															
Full Rate Production (FRP) Increment I													#															
P3I HMS Integration/Test									#	#	#	#	#	#	#	#	#											
Milestone B Increment II														#														
Development Increment II														#	#	#	#	#	#	#	#	#	#	#	#	#	#	Г
Milestone C Increment II																											#	Г

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army **DATE:** February 2010 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT**

2040: Research, Development, Test & Evaluation, Army PE 0603827A: Soldier Systems - Advanced Development

BA 4: Advanced Component Development & Prototypes (ACD&P)

S49: GROUND SOLDIER SYSTEM (GSS)

Schedule Details

	Sta	art	En	ıd
Event	Quarter	Year	Quarter	Year
Milestone A Decision Increment I	1	2009	1	2009
Prototyping/Refinement Increment I	2	2009	4	2010
Developmental Test (DT) Increment I	2	2010	2	2010
Limited User Test (LUT) Increment I	3	2010	3	2010
Milestone C Decision Increment I	1	2011	1	2011
Low Rate Initial Production (LRIP) Increment I	1	2011	1	2012
Independent Operational Test and Evaluation (IOTE) Increment I	3	2011	1	2012
Full Rate Production (FRP) Increment I	1	2012	1	2012
P3I HMS Integration/Test	1	2011	1	2013
Milestone B Increment II	2	2012	2	2012
Development Increment II	2	2012	3	2015
Milestone C Increment II	3	2015	3	2015

DATE: February 2010

Eximple it 211, its rect rioject sustin	icution. 1 D 2	Olliming							Dille. I con	uary 2010	
APPROPRIATION/BUDGET ACTI					NOMENCLA			PROJECT		TED GVG 4 D	
2040: Research, Development, Test & A		•		PE 06038277	A: Soldier Sys	stems - Advan	ced	S51: AIRCR	<i>EW INTEGRA</i>	ATED SYS AD	'
BA 4: Advanced Component Developm)	Developmen	t								
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S51: AIRCREW INTEGRATED SYS AD	1.301	0.137	0.141	0.000	0.141	0.145	0.148	0.152	0.155	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

This project supports the transition to Engineering Manufacturing Development from advanced component development and prototyping of critical aircrew support systems with improved 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, and Light Utility Helicopter. These programs include Air Soldier System and equipment which are unique and necessary for the sustainment, survivability, and performance of Army aircrews and troops on the future integrated battlefield. Air Warrior Advanced Development was completed with FY 2008 RDTE Project S51 funding. Air Soldier System Advanced Development continues to enhance the transition of these programs from Advanced Development to Engineering Development.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	1.301	0.136	0.141	0.000	0.141
Continue advanced component development of Air Soldier technology improvements and advanced development effort transition to engineering development.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					

APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes B. Accomplishments/Planned Program (\$ in Millions FY 2011 OCO Plans:	s (ACD&P)	I	R-1 ITEM NO PE 0603827A Development			red	PROJECT S51: AIRCR	EW INTEGRA	ATED SYS AD	,
	<u>s)</u>						I .			
FY 2011 OCO Plans:										
FY 2011 OCO Plans:						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO										
Program #2						0.000	0.001	0.000	0.000	0.000
Economic Assumption										
FY 2009 Accomplishments: FY 2009										
FY 2010 Plans: FY 2010										
FY 2011 Base Plans: FY 2011 Base										
FY 2011 OCO Plans: FY 2011 OCO										
		Accomp	olishments/Pla	nned Progran	ns Subtotals	1.301	0.137	0.141	0.000	0.141
C. Other Program Funding Summary (\$ in Millions)	1				- L			l.		
		FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u> <u>FY 2009</u> • Ord. #1: <i>RDTE, A PE 0604601A</i> 12.988 <i>PROJ S61-SDD</i>	FY 2010 14.231	<u>Base</u> 10.295	OCO 0.000	Total 10.295	FY 2012 13.917	FY 2013 14.146	FY 2014 14.402	FY 2015 14.635	Complete Continuing	
48.149	61.572	52.423	0.000	52.423	85.030	80.974	88.329	62.945	Continuing	Continuin

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army PE 0603827A: Soldier Systems - Advanced S51: AIRCREW INTEGRATED SYS AD

BA 4: Advanced Component Development & Prototypes (ACD&P)

Development

0603827A: Soldier Systems - Advanced S51: AIRCREW INTEGRATED SYS AD

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

FY 2011 FY 2011 FY 2011 Cost To

Line Item FY 2009 FY 2010 Base OCO Total FY 2012 FY 2013 FY 2014 FY 2015 Complete Total Cost

• Ord. #2: Aircraft Procurement, Army

SSN AZ3110 - ACIS

D. Acquisition Strategy

Technologies developed under the Air Soldier System program integrate capabilities including a fully compliant Modular Integrated Helmet and Display System (MIHDS), Chemical, Biological (CB) waste disposal system and reduced weight and bulk. The MIHDS will provide a day heads up display, external audio, don in flight CB protection and advanced laser eye protection. This development effort is accomplished through a combination of contractor and governmental agencies managed within the Air Warrior Product Manager's Office. Continued effort in FY 2010 and beyond provides for Air Warrior Product Manager's Office analysis and evaluation of emerging aircrew safety, survivability, and human performance improvement technologies for application to Army aircrew requirements. These programs are planned to transition into System Development and Demonstration as the Advanced Development effort is completed.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-2A, RDT&E Project Justif	ication: PB 2	011 Army							DATE: Febr	ruary 2010	
2040: Research, Development, Test & E	APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					TURE etems - Advan	ced	PROJECT S53: CLOTH	IING AND EQ	QUIPMENT	
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S53: CLOTHING AND EQUIPMENT	11.674	8.145	7.106	0.000	7.106	6.572	6.648	6.867	6.945	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Funding supports the project development and state-of-the-art technology to improve tactical and non-tactical clothing and individual equipment to enhance the lethality, survivability, mobility, comfort, and sustainment of the individual Soldier.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	8.182	4.233	3.818	0.000	3.818
Individual Soldier Ballistic Protection: (FY09) Initiated and advanced efforts to mature manufacturing readiness level of high-performance polyethylene (Dyneema and Spectra) molding into the Enhanced Combat Helmet (ECH) and transitioned to Engineering and Manufacturing Development. Initiated efforts to leverage and incorporate laser eye protection technology advancements into ballistic goggles and spectacles and assessed capability improvements. Continued incremental improvement of Interceptor Body Armor (IBA) to reduce Soldier load and improve comfort/functionality based on operational feedback. Developed commonality at the component and subsystem levels to provide a modular layered/integrated ballistic protection system and conducted Soldier Protection Demonstration VII to assess enhancements. Initiated efforts to develop and integrate self-diagnostic capability for ballistic inserts. Assessed head protection technologies to mitigate the effects of current and emerging ballistic/blast and non-ballistic impact (crash) threats. (FY10-11) Continue to design, test and evaluate modular hard and soft armor solutions for mission tailor-able PPE including Plate Carriers and Concealable Body Armor. Develop, test and evaluate self-diagnostic capability for ballistic insert integrity and transition to Engineering and Manufacturing Development. Continue to evaluate and improve Soldier PPE including extremity protection from emerging ballistic/blast threats. Conduct extensive ECH characterization (ballistic, compression, impact, accelerated aging, composite integrity and durability) testing. Continue to assess					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	ruary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advance Development	ced	PROJECT S53: CLOTA	HING AND EQ	QUIPMENT	
B. Accomplishments/Planned Program (\$ in Millions)	·					
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
ACH/ECH non-ballistic impact protection technology. Continue to ass accuracy, reliability of data capture, storage and distribution.	ess helmet sensor technologies to improve					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #2		1.047	2.556	2.153	0.000	2.153
Soldier Uniforms and Clothing: (FY09) Conducted component level test representative systems leveraging advancements in materials, nanotechromanagement, fire resistance, antimicrobial treatments, insect protection, advancements in chemical/biological protection to increase the capability tactical clothing such as the Fire Resistant Environmental Ensemble (FR all Fire Resistant (FR) uniforms. Proved out commonality across as brough provide a modular integrated uniform/clothing system from skin out and technologies and domestically available fabrics relevant to FR, FREE in new technologies to monitor health and improve soldier lethality, survival affordability and mobility and comfort in combat and training/admin entesting. Investigate combat boot improvements.	and a spectrum of users as possible to head-to-toe. (FY10-11) Investigate new approvements, and T-Shirts. Investigate ability, reduce weight and improve					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advan- Development	ced	PROJECT S53: CLOTH	HING AND EQ	QUIPMENT	
B. Accomplishments/Planned Program (\$ in Millions)			•			
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #3 Individual Equipment: (FY09) Conducted component level testing of p systems utilizing advancements in technology for load bearing equipm water filtration and NBC hydration, and other mission essential and/or Proved out as much commonality as feasible across a broad spectrum of prototypes and conduct user assessment to advance the technology for new technologies and fabrics relative to Soldier equipment such as load Biological, Chemical (NBC) gear. Conduct early user evaluation of School Conduct Limited user Evaluation (LUE) on improved Soldier Knee and FY 2009 Accomplishments: FY 2010 Plans: FY 2010	ent, hydration technologies including mission specific equipment for Soldiers. of user and mission scenarios. Purchase navigational aid. (FY10-11) Investigate d bearing equipment, gloves and Nuclear, oldier on-the-move hydration systems.	2.180	0.979	0.900	0.000	0.900

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanced Development	d	PROJECT S53: CLOTH	ING AND EQ	QUIPMENT	
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4		0.000	0.200	0.235	0.000	0.235
to conduct extended missions in extreme (hot) environments. Procure	ed initial prototypes for FY 10 initial					
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #5	11 Base 11 OCO Plans: 11 OCO 12 Cooling: (FY09) Conducted trade-off analysis and initial integration providing Soldiers enhanced ability uct extended missions in extreme (hot) environments. Procured initial prototypes for FY 10 initial nent in a relevant environment. (FY10-11) Conduct Human Factors Testing of prototypes and transition to 19 Accomplishments: 10 09 Plans: 11 Base 11 OCO Plans: 11 OCO		0.177	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S53: CLOTHING AND EQUIPMENT

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

	EX 2000	EX 2010	FY 2011	FY 2011	FY 2011
	FY 2009	FY 2010	Base	OCO	Total
FY 2009 Accomplishments:					
FY 2009					
FY 2010 Plans:					
FY 2010					
EV 2011 D. DI					
FY 2011 Base Plans:					
FY 2011 Base					
FY 2011 OCO Plans:					
FY 2011 OCO					
112011000					
Accomplishments/Planned Programs Subtotals	11.674	8.145	7.106	0.000	7.106

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	<u>oco</u>	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: RDTE, 0604601A.S60,	18.636	15.273	9.711	0.000	9.711	10.343	9.621	5.930	5.999	Continuing	Continuing
Clothing and Equipment											
• Ord. #2: OMA, 121017, Central	94.076	70.305	71.664	0.000	71.664	75.371	79.178	78.685	80.828	Continuing	Continuing
Funding and Fielding											
• Ord. #3: OPA, MA7801, Advanced	40.941	39.066	41.591	0.000	41.591	46.598	45.430	45.651	46.614	Continuing	Continuing
Tactical Parachute System											

D. Acquisition Strategy

Programs will pursue normal transition to Engineering and Manufacturing Development (EMD) and production. This Project will continue to exercise competitively awarded contracts using best value source selection procedures.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanced Development	PROJECT S53: CLOTHING AND EQUIPMENT
E. Performance Metrics		
Performance metrics used in the preparation of this justification material	may be found in the FY 2010 Army Performance Budg	get Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0603827A: Soldier Systems - Advanced Development

S53: CLOTHING AND EQUIPMENT

BA 4: Advanced Component Development & Prototypes (ACD&P)

Product Development (\$ in Millions)

				FY :	2010		2011 ase	FY 2011 OCO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various	С	Natick Soldier Center Natick, MA	5.173	1.138		1.020		0.000	1.020	Continuing	Continuing	0
Various - 2	С	Various Location could not be determined.	7.442	3.200		2.830		0.000	2.830	Continuing	Continuing	0
	•	Subtotal	12.615	4.338		3.850		0.000	3.850			0.000

Remarks

Support (\$ in Millions)

				FY 2	2010	FY 2 Ba	2011 ase	FY 2 OC	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Misc Support Costs	С	Various Location could not be determined.	2.957	0.750		0.550		0.000		0.550	Continuing	Continuing	0
		Subtotal	2.957	0.750		0.550		0.000		0.550			0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603827A: Soldier Systems - Advanced
Development
Development

Test and Evaluation (\$ in Millions)

				FY	2010		2011 ase	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various	С	Various Location could not be determined.	2.090	1.157		1.316		0.000		1.316	Continuing	Continuing	0
		Subtotal	2.090	1.157		1.316		0.000		1.316			0.000

Remarks

Management Services (\$ in Millions)

withing chieff ber vices	(ψ 111 1/11111)	, 11 (3)											
						FY	2011	FY	2011	FY 2011			
				FY 2	2010	Ba	ase	O	CO	Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
In-House Support	С	PM Ft Belvoir VA	2.410	1.900	11wara Bate	1.390		0.000	Tiwara bate	1.390	Continuing	Continuing	0
		Subtotal	2.410	1.900		1.390		0.000		1.390			0.000

Remarks

	Total Prior Years Cost	FY 2		2011 FY	2011 FY 2011 CO Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	20.072	8.145	7.106	0.000	7.10	6		0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

	<u> </u>	FY :	2009)	F	Y 2	201	0]	TY 2	201	1	F	Y 2	2012	2	F	FY 2	201	3	F	Y	201	4	I	TY 2	201	5
	1	т —	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
Transition Spiral to EMD									#																			
Integrate advanced materials & components - Spiral II into EMD										#	#	#	#	#	#	#	#											
Transition Spiral II to EMD																	#											
Integrate advanced materials & components - Spiral III into EMD																	#	#	#	#	#	#	#	#	#			
Transition Spiral III to EMD																									#			
Evaluate non-ceramic systems											#																	
Fabricate/test 7.62 Helmet Engineering Dev Models			#																									
Transition 7.62 to EMD				#																								
Evaluate/test enhanced non-ballistic impact protection				#	#	#	#	#																				
Transition improved non-ballistic impact protection to EMD					#																							
Dev Fully Integrated Head Protection Sys Mat & Components & Spiral I into EMD								#	#	#	#	#	#	#	#	#	#											
Transition Spiral I to EMD																	#											
Dev Fully Integrated Head Protection Sys Mat & Components & Spiral II into EMD																		#	#	#	#	#	#	#	#			
Transition Spiral II to EMD - 2																									#			
								#	#	#	#	#	#															

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

]	FY:	FY 2009		FY 2010			0	FY 2011			1	FY 2012				FY 2013			3	FY 2014			4	FY 2015			
	1	2	3	4	1	2	3	4	1	2	3	4		2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Develop and Test NDTE Sofware Upgrades and Transition to EMD - Spiral I																												
Transition Spiral I to EMD - 2													#															
Develop and Test NDTE Sofware Upgrades and Transition to EMD - Spiral II														#	#	#	#	#	#									
Transition Spiral II to EMD - 3																			#									
Develop and Test NDTE Sofware Upgrades and Transition to EMD - Spiral III																				#	#	#	#	#	#			
Transition Spiral III to EMD - 2																									#			
Lightweight Performance Hood Development	#	#	#																									
JSLIST Upgrade																				#	#	#	#					
Army Combat Pants Upgrade (FR ACU Trouser PIP)			#	#	#	#	#	#	#	#	#	#	#	#	#													
Pulse & Respiration Shirt Prototype										#	#	#	#	#	#	#	#	#	#									
Army Combat Shirt Improvements Evaluation			#	#	#																							
Combat Boot Improvements					#	#	#	#	#	#																		
Soldier Knee & Elbow Protection System (SKEPS)		#	#	#	#	#	#	#	#	#	#																	
IWTD Development and Test					#	#	#	#	#	#	#																	
ATEC Evaluation - IWTD					#	#	#	#	#	#	#																	
Transition IWTD to EMD											#																	
NBC Hydration - Increment III								#	#	#	#	#	#															

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

]	FY 2009		FY 2009		FY 2010		FY 2011			FY 2012			2	FY 2013			3	FY 2014			1	FY 2015					
	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
IWTD - Increment II												#	#	#	#	#	#											
ATEC Evaluation - Increment II Water Purification and Refill in Field							#	#	#																			
JC3/Chemical Gloves/Hydration Development																	#	#	#	#	#	#						
Face Gel (FR) Development			#	#	#	#	#	#	#	#	#																	
Test/Evaluate Prototype Development Models					#	#																						
Transition Soldier Cooling to EMD							#																					

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S53: CLOTHING AND EQUIPMENT

Schedule Details

	Sta	art	En	ıd
Event	Quarter	Year	Quarter	Year
Transition Spiral to EMD	1	2011	1	2011
Integrate advanced materials & components - Spiral II into EMD	2	2011	1	2013
Transition Spiral II to EMD	1	2013	1	2013
Integrate advanced materials & components - Spiral III into EMD	1	2013	1	2015
Transition Spiral III to EMD	1	2015	1	2015
Evaluate non-ceramic systems	3	2011	3	2011
Fabricate/test 7.62 Helmet Engineering Dev Models	3	2009	3	2009
Transition 7.62 to EMD	4	2009	4	2009
Evaluate/test enhanced non-ballistic impact protection	4	2009	4	2010
Transition improved non-ballistic impact protection to EMD	1	2010	1	2010
Dev Fully Integrated Head Protection Sys Mat & Components & Spiral I into EMD	4	2010	1	2013
Transition Spiral I to EMD	1	2013	1	2013
Dev Fully Integrated Head Protection Sys Mat & Components & Spiral II into EMD	2	2013	1	2015
Transition Spiral II to EMD - 2	1	2015	1	2015
Develop and Test NDTE Sofware Upgrades and Transition to EMD - Spiral I	4	2010	1	2012
Transition Spiral I to EMD - 2	1	2012	1	2012
Develop and Test NDTE Sofware Upgrades and Transition to EMD - Spiral II	2	2012	3	2013
Transition Spiral II to EMD - 3	3	2013	3	2013

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

	Sta	ırt	E	nd	
Event	Quarter	Year	Quarter	Year	
Develop and Test NDTE Sofware Upgrades and Transition to EMD - Spiral III	4	2013	1	2015	
Transition Spiral III to EMD - 2	1	2015	1	2015	
Lightweight Performance Hood Development	1	2009	3	2009	
JSLIST Upgrade	4	2013	3	2014	
Army Combat Pants Upgrade (FR ACU Trouser PIP)	3	2009	3	2012	
Pulse & Respiration Shirt Prototype	2	2011	3	2013	
Army Combat Shirt Improvements Evaluation	3	2009	1	2010	
Combat Boot Improvements	1	2010	2	2011	
Soldier Knee & Elbow Protection System (SKEPS)	2	2009	3	2011	
IWTD Development and Test	1	2010	3	2011	
ATEC Evaluation - IWTD	1	2010	3	2011	
Transition IWTD to EMD	3	2011	3	2011	
NBC Hydration - Increment III	4	2010	1	2012	
IWTD - Increment II	4	2011	1	2013	
ATEC Evaluation - Increment II Water Purification and Refill in Field	3	2010	1	2011	
JC3/Chemical Gloves/Hydration Development	1	2013	2	2014	
Face Gel (FR) Development	3	2009	3	2011	
Test/Evaluate Prototype Development Models	1	2010	2	2010	
Transition Soldier Cooling to EMD	3	2010	3	2010	

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APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLAT							URE PROJECT								
2040: Research, Development, Test & E	Evaluation, Ar	my		PE 0603827A: Soldier Systems - Advanced					S54: SMALL ARMS IMPROVEMENT						
BA 4: Advanced Component Developm	ent & Prototy	pes (ACD&P))	Developmen	t										
			FY 2011	FY 2011	FY 2011										
COST (\$ in Millions)	FY 2009	FY 2010	Base	осо	Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To					
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost				
S54: SMALL ARMS IMPROVEMENT	1.435	5.624	4.983	0.000	4.983	4.885	4.954	5.070	5.142	Continuing	Continuing				
Quantity of RDT&E Articles															

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

The Small Arms Improvement program provides funds to study, develop, demonstrate and evaluate emerging technology for integration of systems, subcomponents and prototypes with weapons/ammunition. Small arms include weapons/ammunition ranging up to 40 millimeter. Current and future efforts focus on improvements designed to enhance lethality, target acquisition, fire control, training effectiveness and reliability of weapons/ammunition. Focus areas include studying, developing, demonstrating and evaluating light-weight materials, concealants, scouting, observation, lethal and non-lethal ammunition, and equipment. Benefits include improvements to weapons, fire control equipment, optics, training devices, component mounts, weapon mounts, and ammunition. New starts in FY2011 consists of the following new initiatives; Suppressors, Lead Free Barrel Twist, Light Weight MG and Sub-Compact Weapons.

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	0.000	0.000	0.000	0.000	0.000
Small Arms Weapons Enhancements					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010					
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advar Development	aced	PROJECT S54: SMALI	L ARMS IMPR	OVEMENT				
B. Accomplishments/Planned Program (\$ in Millions)	'		1						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total			
FY 2011 OCO Plans: FY 2011 OCO									
Program #2 Design, Development and Engineering FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.668	1.090	0.714	0.000	0.714			
Program #3 - Prototype Fabrication FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010		0.000	0.000	0.560	0.000	0.560			

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: Febr	ruary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanced Development		PROJECT S54: SMALL ARMS IMPROVEMENT		
B. Accomplishments/Planned Program (\$ in Millions)		,			
	FY 200	9 FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #4	0.2	56 0.200	0.735	0.000	0.73
- Testing and Evaluation					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #5	0.0	0.000	0.000	0.000	0.00
Ammunition					
FY 2009 Accomplishments: FY 2009					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: Febr	uary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanced Development	PROJECT S54: SMALI	PROJECT S54: SMALL ARMS IMPROVEMENT		
B. Accomplishments/Planned Program (\$ in Millions)	·				
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #6	0.100	0.260	0.000	0.000	0.000
- Design, Development and Engineering					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #7	0.020	0.520	0.000	0.000	0.000
- Prototype Fabrication					

		DATE: Febr	ruary 2010	
R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanced Development			COVEMENT	
·				
FY 200	9 FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
0.3	91 0.500	0.000	0.000	0.000
0.0	0.000	0.000	0.000	0.000
	PE 0603827A: Soldier Systems - Advanced Development FY 2009	PE 0603827A: Soldier Systems - Advanced Development	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advanced Development FY 2009 FY 2010 FY 2011 Base 0.391 0.500 0.000	PE 0603827A: Soldier Systems - Advanced Development S54: SMALL ARMS IMPROVEMENT

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	ruary 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advance Development	ced	PROJECT S54: SMALL	ARMS IMPR	OVEMENT	
B. Accomplishments/Planned Program (\$ in Millions)			'			
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Fire Control						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #10		0.000	1.104	1.086	0.000	1.086
- Design, Development and Engineering						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

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APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT								
2040: Research, Development, Test & Evaluation, Army	PE 0603827A: Soldier Systems - Advanced	S54: SMALL ARMS IMPROVEMENT								
BA 4: Advanced Component Development & Prototypes (ACD&P)	Development									
B. Accomplishments/Planned Program (\$ in Millions)										

FY 2011 FY 2011 FY 2011 FY 2009 OCO Total FY 2010 Base 0.000 1.039 0.908 0.000 0.908 Program #11 Prototype Fabrication FY 2009 Accomplishments: FY 2009 *FY 2010 Plans:* FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO Program #12 0.000 0.550 0.820 0.000 0.820 Testing and Evaluation FY 2009 Accomplishments: FY 2009 *FY 2010 Plans:* FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0603827A: Soldier Systems - Advanced	S54: SMALL ARMS IMPROVEMENT
BA 4: Advanced Component Development & Prototypes (ACD&P)	Development	
R Accomplishments/Planned Program (\$\sin Millions)	·	·

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #13	0.000	0.220	0.160	0.000	0.160
- Demonstration					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #14	0.000	0.141	0.000	0.000	0.000
Small Business Innovative Research/Small Business Technology Transfer Programs.					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2010 5 1 5 1 5 1	DE 0.000074 G III G I	GEA GIVALL ADIAG HADDONELAENE

2040: Research, Development, Test & Evaluation, Army PE 0603827A: Soldier Systems - Advanced BA 4: Advanced Component Development & Prototypes (ACD&P)

Development

S54: SMALL ARMS IMPROVEMENT

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals	1.435	5.624	4.983	0.000	4.983

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

			<u>FY 2011</u>	<u>FY 2011</u>	<u>FY 2011</u>					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	<u>oco</u>	Total	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: RDTE S63, Program	5.787	27.704	19.805	0.000	19.805	18.231	14.404	14.481	14.438	Continuing	Continuing
Flowant 0604601A Infantry Support											

Element 0604601A - Infantry Support

Weapons

D. Acquisition Strategy

Primary strategy is to study, develop, demonstrate and evaluate emerging technologies that will ultimately lead to enhancing/improving the small arms inventory.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0603827A: Soldier Systems - Advanced

S54: SMALL ARMS IMPROVEMENT

BA 4: Advanced Component Development & Prototypes (ACD&P)

Development

Product Development (\$ in Millions)

				FY	2010		2011 ase	FY :	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development	C/TBD	Various Location could not be determined.	3.756	0.980		1.468		0.000		1.468	Continuing	Continuing	0
		Subtotal	3.756	0.980		1.468		0.000		1.468			0.000

Remarks

Support (\$ in Millions)

	-,												,
				FY	2010	FY	2011 ase	FY	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date		Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering	С	Various Location could not be determined.	1.724	3.594		1.890		0.000		1.890	Continuing	Continuing	0
		Subtotal	1.724	3.594		1.890		0.000		1.890			0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0603827A: Soldier Systems - Advanced

S54: SMALL ARMS IMPROVEMENT

BA 4: Advanced Component Development & Prototypes (ACD&P)

Development

Test and Evaluation (\$ in Millions)

				FY	2010	FY :	2011 ase		2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing	С	Various Location could not be determined.	1.706	0.710		1.255		0.000		1.255	Continuing	Continuing	0
		Subtotal	1.706	0.710		1.255		0.000		1.255			0.000

Remarks

Management Services (\$ in Millions)

		/									1		
				FY	2010		2011 ase	FY:	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	С	PM SW Location could not be determined.	0.525	0.340		0.370		0.000		0.370	Continuing	Continuing	0
		Subtotal	0.525	0.340		0.370		0.000		0.370			0.000

Remarks

								1	
	Total Prior Years Cost		2010	FY 2011 Base	FY:		Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	7.711	5.624		4.983	0.000	4.98	3		0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 20	11 Army					DA	TE: Februa	ry 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Arr BA 4: Advanced Component Development & Prototyp				M NOMENCLATURE 827A: Soldier Systems - nent		JECT SMALL AR	MS IMPRO	VEMENT	
	Total Prior Years Cost	FY 20	010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Remarks									

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S54: SMALL ARMS IMPROVEMENT

		FY	2009)	I	FY 2	201	0	1	Y 2	201	1	FY 2012			FY 2013			3	FY 2014			4	FY 2015			5	
	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
Lead Free Barrel Twist								#	#	#	#	#	#	#	#													
Suppressors								#	#	#	#	#	#	#	#													
Light Weight MG								#	#	#	#	#	#	#	#	#	#	#	#									
Weapons Upgrades												#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
Sub-Compact Weapons								#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#					
Optics Upgrades												#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
Integrated Fire Control Small Arms				#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#									

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army
BA 4: Advanced Component Development & Prototypes (ACD&P)

PE 0603827A: Soldier Systems - Advanced
Development

Development

Schedule Details

	St	art	En	ıd
Event	Quarter	Year	Quarter	Year
Lead Free Barrel Twist	4	2010	3	2012
Suppressors	4	2010	3	2012
Light Weight MG	4	2010	3	2013
Weapons Upgrades	4	2011	3	2015
Sub-Compact Weapons	4	2010	3	2014
Optics Upgrades	4	2011	3	2015
Integrated Fire Control Small Arms	4	2009	3	2013

Exhibit R-2A, RDT&E Project Justif	fication: PB 2	011 Army							DATE: February 2010			
APPROPRIATION/BUDGET ACTI 2040: Research, Development, Test & I		74433			NOMENCLA	TURE stems - Advan	and	PROJECT				
BA 4: Advanced Component Developm)	Development		siems - Auvan	cea	S55: Counter-Defilade Target Engagement						
COST (\$ in Millions)	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate			FY 2015 Estimate	Cost To Complete	Total Cost				
S55: Counter-Defilade Target Engagement	5.382	2.586	0.000	0.000	0.000	20.587	13.084	37.554	34.615	Continuing	Continuing	
Quantity of RDT&E Articles												

A. Mission Description and Budget Item Justification

The XM25, Individual Airburst Weapon System (IAWS) delivers a 25mm programmable high explosive airburst (HEAB) round to explode near or directly on target to significantly increase hit probability to defeat defilade and point area targets out to approximately 600 meters. The IAWS includes an integrated, multifunctional, all environment, full-solution target acquisition/fire control system. Independent analysis expects a 600% increase to down range effectiveness. The technology provides the Soldier a leap-ahead capability to defeat defilade targets while significantly reducing collateral damage without the use of a mortar, artillery, or air-to-surface weapon systems. The IAWS has been identified by the U.S. Army Infantry Center's (USAIC) Joint Capabilities Integration and Development System (JCIDS) analysis as the number one material approach to mitigate the Counter Defilade Target Engagement (CDTE) gap (accurate and lethal engagement of defilade at squad level).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	0.996	2.000	0.000	0.000	0.000
Design, Develop and Fabricate					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: Febr	uary 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Advance Development	ced	PROJECT S55: Counte	er-Defilade Target Engagement		
B. Accomplishments/Planned Program (\$ in Millions)	,		1			
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO						
Program #2		0.000	0.300	0.000	0.000	0.000
Engineering Evaluation and Training Development						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #3		0.000	0.213	0.000	0.000	0.000
Program Management						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: Febr	uary 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603827A: Soldier Systems - Adva. Development	nced	PROJECT S55: Counte	ECT ounter-Defilade Target Engagement			
B. Accomplishments/Planned Program (\$ in Millions)							
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #4		4.380	0.000	0.000	0.000	0.000	
Congressional add for High Explosive Air Burst (HEAB) 25mm Amr	nunition incorrectly placed in Project S55						
FY 2009 Accomplishments: FY 2009							
FY 2010 Plans: FY 2010							
FY 2011 Base Plans: FY 2011 Base							
FY 2011 OCO Plans: FY 2011 OCO							
Program #5		0.006	0.073	0.000	0.000	0.000	
Small Business Innovative Research/Small Business Technology Tran	nsfer Programs						
FY 2009 Accomplishments: FY 2009							

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army DATE: Febru									
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT							
2040: Research, Development, Test & Evaluation, Army	PE 0603827A: Soldier Systems - Advanced	S55: Counter-Defilade Target Engagement							
BA 4: Advanced Component Development & Prototypes (ACD&P)	Development								

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Accomplishments/Planned Programs Subtotals	5.382	2.586	0.000	0.000	0.000

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	<u>oco</u>	Total	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: <i>RDTE: PE 0604601A</i> ,	0.000	21.865	34.416	0.000	34.416	10.237	0.605	0.000	0.000	0	67.123
Project S62											
• Ord. #2: WTCV: G16100	0.000	0.000	0.000	0.000	0.000	42.005	46.841	62.049	94.072	0	244.967

D. Acquisition Strategy

The XM25 IAWS will achieve Milestone B in 3Q FY2010, transitioning to Engineering and Manufacturing Development (EMD) phase. The EMD phase will complete development of the XM25 IAWS and verify training solution for the Milestone C approval in FY 2012. Research and Development acquisition strategy is to use sole source contracting with ATK, Plymouth, MN.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0603827A: Soldier Systems - Advanced Development

S55: Counter-Defilade Target Engagement

BA 4: Advanced Component Development & Prototypes (ACD&P)

Product Development (\$ in Millions)

				FY :	2010	FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Design, Develop & Fabricate	С	ATK Minneapolis, MN	0.000	2.000		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	2.000		0.000		0.000		0.000			0.000

Remarks

Support (\$ in Millions)

				FY	2010	FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Support	С	Army Research Laboratory Aberdeen Proving Ground, MD	0.000	0.300		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	0.300		0.000		0.000		0.000			0.000

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603827A: Soldier Systems - Advanced Development Development

Management Services (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	С	PM Soldier Weapons Picatinny Arsenal, NJ	0.000	0.286		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	0.286		0.000		0.000		0.000			0.000

Remarks

	Total Prior Years Cost	FY 2	2010			2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	2.586		0.000	0.000		0.000			0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603827A: Soldier Systems - Advanced

Development

PROJECT

S55: Counter-Defilade Target Engagement

	FY 2009		FY 2010			FY 2011			FY 2012			FY 2013			FY 2014			1	FY 2015									
	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
MS B						#																						

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army	DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
2040: Research, Development, Test & Evaluation, Army	PE 0603827A: Soldier Systems - Advanced	S55: Counte	r-Defilade Target Engagement	
BA 4: Advanced Component Development & Prototypes (ACD&P)	Development			

Schedule Details

	Sta	art	End			
Event	Quarter	Year	Quarter	Year		
MS B	2	2010	2	2010		