

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**May 2009**

**BUDGET ACTIVITY**  
**5 - System Development and Demonstration**

**PE NUMBER AND TITLE**  
**0604601A - Infantry Support Weapons**

COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	59602	58064	74814	Continuing	Continuing
033 ADV CREW SVC WPN	9662	7973	1968		19603
S58 SOLDIER ENHANCEMENT PROGRAM	15252	16814	4890	Continuing	Continuing
S60 CLOTHING & EQUIPMENT	12463	13809	9753	Continuing	Continuing
S61 ACIS ENGINEERING DEVELOPMENT	10422	14638	10513	Continuing	Continuing
S62 Counter-Defilade Target Engagement - SDD			21865	Continuing	Continuing
S63 SMALL ARMS IMPROVEMENT	6801	4830	24504	Continuing	Continuing
S64 COMMON REMOTELY OPERATED WPN SYS (CROWS)	5002				5002
S70 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)			1321	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** FY 2010/2011 budget request funds Infantry Support Weapons. This program element (PE) for System Development and Demonstration (SDD) 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 033 (Advanced Crew Served Weapon) develops the Lightweight .50 Caliber Machine Gun which enables the Soldier to effectively suppress and incapacitate exposed personnel targets out to 2,000 meters as well as providing a capability to defeat light armored vehicles out to 1,500 meters. The new .50 Caliber weapon will reduce weight and recoil, and eliminate manual adjustment of headspace and timing.

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.

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.

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

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Utility Helicopter, and Armed Reconnaissance Helicopter.

Project S62 (Counter-Defilade Target Engagement-SDD) 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).

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.

Project S64 (CROWS) funds will be applied to 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.

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.

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<u><b>B. Program Change Summary</b></u>	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	63026	42414	46805
Current BES/President's Budget (FY 2010)	59602	58064	74814
<b>Total Adjustments</b>	<b>-3424</b>	<b>15650</b>	<b>28009</b>
Congressional program reductions		-190	
Congressional rescissions			
Congressional increases		15840	
Reprogrammings	-1665		
SBIR/STTR Transfer	-1759		
Adjustments to Budget Years			28009

**Change Summary Explanation:**

FY 2009: Congressional Adds: \$8.0 million for Lightweight Caliber .50 Machine Gun (LW50MG), \$2.8 million for Next-generation Combat Helmet Development, \$1.6 million for Headborne Energy Analysis and Diagnostic System (HEADS), \$1.44 million for Next Generation High Performance Ballistic Materials and Technologies Providing 7.62mm Small Arms Protection for US Armed Forces Helmets, and \$2 million for Composite Bottles for Survival Egress Air.

FY 2010: Funding increase to support the Counter Defilade Target Engagement System and Personnel Recovery Support System. \$9.9 million for Carbine Competition.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>033</b>
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
033      ADV CREW SVC WPN	9662	7973	1968		19603

**A. Mission Description and Budget Item Justification:** This project develops the Lightweight .50 Caliber Machine Gun which will meet the US Army/SOCOM requirements for a Lightweight Enhanced .50 Caliber Machine Gun. The project will result in the development of a lightweight .50 Caliber machine gun system enabling the Soldier to effectively suppress and incapacitate exposed personnel targets out to 2,000 meters, as well as providing a capability to defeat lightly armored vehicles out to 1,500 meters. Successful development of the Lightweight .50 Caliber Machine Gun will increase the warfighter's lethality while significantly reducing tactical load and supportability costs. The new .50 Caliber weapon will reduce weight and recoil, and eliminate manual adjustment of headspace and timing.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Award Development Contract	1778	6416	
Design Weapon System Hardware	3106	453	
Fabricate Weapon System Hardware	3200	427	
Establish Interface Controls	378	100	
Integrated Logistics Support	700	253	200
Conduct Weapon System Design Test	500	100	1768
Small Business Innovative Research/Small Business Technology Transfer Program		224	
<b>Total</b>	<b>9662</b>	<b>7973</b>	<b>1968</b>

<u>B. Other Program Funding Summary</u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
WTCV, G12800, Lightweight .50 Caliber Machine Gun			977		977

Comment:

**C. Acquisition Strategy** In support of the US Army Infantry Center (USAIC) Capability Production Document (CPD) for Enhanced .50 Caliber Machine Gun (M2A1), the Lightweight .50 Caliber Machine Gun will be developed. Milestone C is scheduled fourth quarter FY2010. The development contractor is General Dynamics Armament and Technical Products (GDATP) of Burlington, Vermont. The Acquisition Strategy (Sole Source), Acquisition Plan, and Milestone B were approved by the Milestone Decision Authority (MDA) - PEO Soldier.

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)**

**May 2009**

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604601A - Infantry Support Weapons**

PROJECT

**033**

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604601A - Infantry Support Weapons</b>								<b>033</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Primary Hardware	SS /CPFF	Gen Dyn and Arm Tech Prod, Burlington, VT		8203	3Q	6515	3Q				14718		
Subtotal:				8203		6515					14718		
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Development (Weapon and Mount)	MIPR	RDECOM-RDEC,Picatinny Arsenal,NJ		1259	2Q	1250	2-4Q	518	1Q		3027		
Subtotal:				1259		1250		518			3027		
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Development Test/Limited User Test (DT/LUT)	MIPR	ATC, Aberdeen PG, MD						1250	2Q		1250		
Subtotal:								1250			1250		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Program Management	In House			180	3-4Q	208	3-4Q	180	1-4Q		568		
Travel	In House			20	3-4Q			20	1-4Q		40		
Subtotal:				200		208		200			608		

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604601A - Infantry Support Weapons**

PROJECT

**033**

**Project Total Cost:**

**9662**

**7973**

**1968**

**19603**

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**033**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
Award Development Contract																																
Design Weapon System Hardware																																
Fabricate Weapon System Hardware																																
Establish Interface																																
ILS/Training																																
Conduct Weapon System Design Validation Test																																
Award Development Contract																																
Design Weapon System Hardware																																
ILS Training																																
ILS/Training/Log Demo																																
Conduct Initial Operational Test and Evaluation (IOTE)																																
Milestone C/TC LRIP																																
TC Std																																

# Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT	
<b>5 - System Development and Demonstration</b>		<b>0604601A - Infantry Support Weapons</b>						<b>033</b>	
<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	
Award Development Contract	2Q - 4Q	1Q - 4Q	1Q						
Design Weapon System Hardware	3Q - 4Q	1Q - 2Q							
Fabricate Weapon System Hardware	4Q	1Q							
Establish Interface	2Q - 4Q								
ILS/Training	3Q - 4Q	1Q - 4Q							
Conduct Weapon System Design Validation Test		2Q - 4Q							
Award Development Contract		3Q							
Design Weapon System Hardware			1Q - 4Q						
ILS Training			1Q - 2Q						
ILS/Training/Log Demo			2Q						
Conduct Initial Operational Test and Evaluation (IOTE)				1Q - 4Q					
Milestone C/TC LRIP			4Q						
TC Std				4Q					

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S58</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
S58 SOLDIER ENHANCEMENT PROGRAM	15252	16814	4890	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** This program supports accelerated integration, modernization, and enhancement efforts of lighter, more lethal weapons, including improved optics, sights, and fire controls; and improved soldier items including lighter, more comfortable load-bearing equipment, field gear, survivability items, communications equipment, and navigational aids. Soldiers are managed in three categories: dismounted Soldiers, combat crews (air and ground), and other Soldiers. Projects are generally completed in three years or less.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY08-FY10: Accomplishments and Current Plan include evaluation and procurement of prototypes and/or test for the following Soldier Equipment Items: Enhanced Hearing Protection, Parachute Electronic Activation Device, Parachute Oxygen Mask, and On-The-Move Hydration System, Aircrew Laser Pointer, Ghillie Suit, Concealable Body Armor Demo, Clip on Sniper Night Sight, and Mounted Soldier Body Armor Demonstration and Mountain Boots and Sniper Detection Kit.	3693	7138	1330
FY08-FY10: Accomplishments and Current Plan include evaluation and procurement of prototypes and/or test for the following Soldier Weapons Items: 12 Ga Non-lethal Extended Range Round, 40 MM Extended Range Non-lethal Round, Close Quarters Battle Kit Re-compete, Modular Accessory Shotgun System, XM320 Genade Launcher Module, Advanced Sniper Accessory Kit, the M2 Quick Change Barrel Kit, M68 CCO Re-Competition.	6490	2823	500
FY08-FY10: Continue in-house engineering support services, conduct technical evaluations and program reviews.	1737	2527	1207
FY08-FY10: Initiate market surveys and/or evaluations on new items to commence development and demonstration. New items initiated will continue evaluation/procurement of new prototypes.	1971	1792	1300
FY08-FY10: Current Plan includes evaluation and procurement of prototypes and/or test for Soldier equipment and Lethality programs that will be reviewed in a semi-annual review scheduled for Feb 2009 which could include: Individual Force Protection System, SmartCard Explosives Detection Reader, Engineer Equipment Set: Urban Operations, Platoon, Range Finders with Angle Range Compensation (ARC), Zerust, Combat Cushion, ACCU-SHOT MONOPOD, Bio-Degradable, Self Neutralizing AP Mine, Weapons Magazine Well Cover, Portable Boresight Fixture, Enhanced - Laser Module Unit (E-LMU) Bullet Proof Universal Weapons Mount, Tactical Equipment Lanyard Kit, SandHopper, Flame Resistant Clothing (Socks), Sand Bagger Fixture, V-Pac Vests, In-Ear Noise Reduction Headphones, Improved Helmet Chinstrap, Enhanced Bed Net System, Model 863 M-4 Tactical Padded Hard Case, Hammer Mechanism For Firearms, Canine Dental Enhancement, Improved Bed Net System, Dustoff Modular Weapon Protection System, Tempus IC from RDT Ltd, Load-Ready, (Posture Orange), Michaelosheld, Steiner 10x42 R Binoculars #650, SmartBagger, Expanding Point Munitions for Small Arms, RYNOSKIN Insect Protection Suit, Glosshade, Improved MEDEVAC GTA, M16/M4 Family Weapons ID Band, MVMS (Mobile Surveillance TV-System), Free-Floating Rail System for M4/M16, Designated Marksman Precision Trigger.	1361	2109	553
Small Business Innovative Research/Small Business Technology Transfer Programs		425	
<b>Total</b>	<b>15252</b>	<b>16814</b>	<b>4890</b>

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**0604601A - Infantry Support Weapons**

**PROJECT**  
**S58**

<u><b>B. Other Program Funding Summary</b></u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
OPA3, MA68000, Soldier Enhancement	20662	9898	4500	Continuing	Continuing
OPA2, BA5300, Soldier Enhancement	10123	7545	5020	Continuing	Continuing
WTCV, GC0076, Small Arms (SEP)	4394	1250	5131	Continuing	Continuing
WTCV, GZ1290, Squad Automatic Wpn (Mods)	44275	22134	7196	Continuing	Continuing
WTCV, GZ2800, M16 Rifle Mods	5905	1181	4285	Continuing	Continuing
WTCV, GB3007, M4 Carbine Mods	17594	16746	17885	Continuing	Continuing
WTCV, GO1500, Sniper Rifle	414	223	229	Continuing	Continuing
WTCV, GC0925, Mods	2772	3763	6310	Continuing	Continuing
PAA, F47500, 7.62mm AP	10000	10000	10000	Continuing	Continuing
PAA, F47600, 5.65mm AP				Continuing	Continuing
OMA, 121017, Central Funding & Fielding	110684	92606	89100	Continuing	Continuing
WTCV, G14904 - M4 Carbine	178341	150610	62738	Continuing	Continuing

Comment:

**C. Acquisition Strategy** The Soldier Enhancement Program (SEP) focuses on developmental initiatives and integration efforts that lend themselves to accelerated acquisition and fielding in the near term (within three years). New SEP candidates are reviewed and approved semi-annually. SEP items are procured from multiple appropriations, i.e., OMA, OPA, WTCV, and PAA.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604601A - Infantry Support Weapons</b>							<b>S58</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	Various	TBD	25275	6580	1-3Q	8979	1-3Q	1795	1-3Q		42629	
Subtotal:			25275	6580		8979		1795			42629	
Remarks: Candidates for the Soldier Enhancement Program are received, reviewed, and approved semi-annually. Contractual efforts are focused on procuring prototypes for testing.												
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	Various	TBD	3051	1672	1-4Q	2896	1-4Q	805	1-4Q		9324	
Subtotal:			3051	1672		2896		805			9324	
Remarks: Support costs vary annually depending on the type of items that are being evaluated. Research, Development, and Engineering Centers support to evaluate these items also varies annually depending on the number and types of items.												
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	Various		4842	3965	1-3Q	2543	1-3Q	1590			14449	
Subtotal:			4842	3965		2543		1590			14449	
Remarks: Testing costs vary annually depending on number and type of items being evaluated.												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
In-House	MIPR	PEO Soldier, Ft Belvoir, Va	5936	3035	1-4Q	2396	1-4Q	700	1-4Q		12817	
Subtotal:			5936	3035		2396		700			12817	
Remarks: Costs vary annually depending on number and type of items being evaluated.												

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S58**

<b>Project Total Cost:</b>	<b>39104</b>	<b>15252</b>		<b>16814</b>		<b>4890</b>		<b>79219</b>
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<b>Schedule Detail (R4a Exhibit)</b>		<b>May 2009</b>
<b>BUDGET ACTIVITY</b>	<b>PE NUMBER AND TITLE</b>	<b>PROJECT</b>
<b>5 - System Development and Demonstration</b>	<b>0604601A - Infantry Support Weapons</b>	<b>S58</b>
<b><u>Schedule Detail:</u></b> Not applicable for this item.		

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S60</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
S60 CLOTHING & EQUIPMENT	12463	13809	9753	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** Funding supports pre-production development of state-of-the-art individual clothing and equipment to improve the survivability, mobility, comfort, and sustainment affecting the quality of life of the individual Soldier.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Individual Soldier Ballistic Protection: (FY08-09) Continued efforts to integrate incremental capability improvements into Interceptor Body Armor related to technology maturity & operational feedback. Evaluated & guided industries to product improve commercial ballistic eyewear & selected the most viable for incorporation of standard prescription carriers & protection against lasers. Tested advanced photo chromic technology & dielectric stack technology to ballistic protective lenses. Continue system integration & formal Developmental/Operational Testing (DT/OT) of pre-production and production representative systems applying advanced ballistic materials to increase Soldier survivability while decreasing weight, cube & cost. Assess head protection technologies & integration of technologies to mitigate the effects of high speed ballistic blunt trauma & enhance non-ballistic impact (crash) protection from current & emerging ballistic/blast threats. Prove out commonality at the component & subsystem levels to provide a modular layered/integrated ballistic protection system & spiral in new technologies as they mature. Continue assessment of NDTE Prototype/Engineering Development models performance & reliability baseline. (FY10-11) Improve fit/function, heat management, & reduce weight of Improved Outer Tactical Vest (IOTV). Continue with prove out commonality at the component & subsystem levels & spiral in new technologies as they mature. Procure test equip to conduct data analysis & blast testing on protective items. Continue with NDTE software improvements. Make NDTE production decision & begin initial fielding. Continue to improve ballistic & advanced laser protection on combat eyewear. Improve lens coatings to improve scratch & fog resistance.	6693	9578	5130
Soldier Uniforms and Clothing: (FY08-09) Conduct system integration and formal DT/OT of preproduction and production representative systems leveraging advancements in materials, nanotechnology, fabrication techniques, moisture management, fire resistance, antimicrobial treatments, insect protection, extreme environmental protection and advancements in chemical/biological protection to increase the capabilities and durability of tactical and non-tactical clothing such as the improved Fire Resistant (FR) Army Combat Uniform (ACU) and the Army Aviation Combat Uniform. Prove out commonality across as broad a spectrum of users as possible to provide a modular integrated uniform/clothing system from skin out and head-to-toe. (FY10-11) Conduct Limited User Evaluation (LUE) on FR FHC on a common fabric for Army Aviator Combat Uniform/Improved Combat Vehicle Crewman (A2CU/iCVC) uniforms. Conduct product improvements for clothing bag items. Conduct user evaluations of clothing bag items. Continue current technology regarding Signature Management for the combat uniform including thermal, infrared and visual effects required for the uniform to meet warfighter requirements. Continue to assess improved Fire Resistant (FR) materials and apply to gloves. Publish an updated FR glove Approved Products List (APL). System Engineering Change Proposals (ECPs) and technology insertions to update components and synergy of Generation (GEN) IV Extended Cold Weather Clothing System (ECWCS).	2309	1604	2000
Individual Equipment: (FY08-09) Conduct Engineering Manufacturing Development (EMD) of preproduction and production representative systems utilizing advancements in technology for load bearing equipment, hydration technologies including water filtration	3461	1996	2298

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and Nuclear, Biological, Chemical (NBC) hydration, and other mission essential and/or mission specific equipment for Soldiers. Prove out as much commonality as feasible across a broad spectrum of user and mission scenarios. Purchase equipment and conduct pilot testing for Radio Frequency Identification (RFID). (FY10-11) Continue to refine design and incorporate new material/technology that pertains to form, fit, and function of the Rucksack. Continue to serve the Airborne community by developing equipment that is tailorable to Airborne operations. Purchase navigational aid and advanced ram air parachute test items and conduct developmental testing and operational testing. Continue to certify lights for the Approved Family of Flashlight List (AFFL) Certification Program.			
Soldier Cooling: (FY08-09) Conduct system integration and conduct testing of prototype/engineering development models to demonstrate advanced lightweight, low power cooling systems for use with Nuclear, Biological, and Chemical (NBC) and ballistic protection ensembles in an operationally relevant environment. Prove out courses of action from trade-off analyses and system integration providing Soldiers enhanced ability to conduct missions for longer periods of time in extreme environments. (FY10-11) Integrate enhanced capabilities and conduct initial DT/OT.			
Small Business Innovative Research/Small Business Technology Transfer Programs			
Total			
		12463	9753

<b><u>B. Other Program Funding Summary</u></b>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
RDTE, 0603827.S53, Clothing and Equipment	13619	6549	7047	Continuing	Continuing
OMA, 121017, Central Funding and Fielding	118231	95576	88872	Continuing	Continuing

Comment:

**C. Acquisition Strategy** Acquisition strategies will vary in methods: (1) Quick fixes in 12-24 months or less from concept to Type Classification (TC), (2) modernization improvements which require limited RD&E and will be completed in more than 24-48 months from inception to Type Classification, and (3) fully integrated development that will require substantial RDT&E funding and will be completed in four years or more.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604601A - Infantry Support Weapons							S60		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	MIPRS	Natick Soldier Center, Natick, MA	6100	1539	1-3Q	1070	1-3Q	1200	1-3Q	Cont.	Cont.	
Various	Contracts	Various	8249	5400	1-3Q	6760	1-3Q	4329	1-3Q	Cont.	Cont.	
Subtotal:			14349	6939		7830		5529		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Misc Support Costs	MIPR	Various	5529	2200	1-2Q	2145	1-2Q	1833	1-2Q	Cont.	Cont.	
Subtotal:			5529	2200		2145		1833		Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	MIPRS	Various	3821	1756	1-3Q	2303	1-3Q	1495	1-3Q	Cont.	Cont.	
Subtotal:			3821	1756		2303		1495		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
In-House Support		PM Ft Belvoir, VA	2357	1568	1-4Q	1531	1-4Q	896	1-4Q	Cont.	Cont.	
Subtotal:			2357	1568		1531		896		Cont.	Cont.	

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604601A - Infantry Support Weapons**

PROJECT

**S60**

**Project Total Cost:**

**26056**

**12463**

**13809**

**9753**

**Cont.**

**Cont.**

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S60**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
<b>BALLISTIC</b>																																
Recertify Combat Eyewear Protection (APEL)	█																															
(1) APEL Recertification																																
Recertify Combat Eyewear Protection (APEL)													█																			
(2) APEL Recertification																																
Recertify Combat Eyewear Protection (APEL)																					█											
(3) APEL Recertification																																
Evaluate (Dye) Laser Protective Eyewear					█																											
(4) Transition Laser Protective Eyewear to Production																																
Test Advanced Eyewear Laser Protection (LP)	█																															
(5) Transition Advanced Laser Protection to Production																																
Evaluate/test Extremity Protection System	█																															
Integrate/Test Spiral I Material Enhancements and Transition to Production													█																			
(6) Transition Spiral I to Production																																





# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S60**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15						
	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	1	2	3	4			
Spiral II																																			
ProTech Fabric ACU Evaluation																																			
GEN III Product Improvement																																			
GEN IV Product Improvement - Next Generation																																			
GEN IV System Concept/Development Evaluation																																			
Clothing Bag Upgrades and Evaluations																																			
ACU Signature Management																																			
Glove Enhancements																																			
<b>INDIVIDUAL EQUIPMENT</b>																																			
ATPS T-11 OT																																			
(18) ATPS T-11 MS C					▲ 18																														
ATPS P3I																																			
ARAPS Development and Testing																																			
Purchase RFID items and Conduct DT/OT																																			
<b>MOLLE Upgrade</b>																																			
Spiral I, Spiral II																																			

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT																														
<b>5 - System Development and Demonstration</b>	<b>0604601A - Infantry Support Weapons</b>	<b>S60</b>																														
Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
Cold Weather Stove User Eval - Final				■																												
(19) Cold Weather Stove trans to production									▲ <sub>19</sub>																							
Nuclear Environmental Protective Hydration System OT																																
Spiral I				■																												
Spiral II								■																								
Individual Water Treatment Device DT/OT																																
Spiral I								■																								
Spiral II																				■												
Increment III - Refill in a Field Environment																■																
Ruck Sack for Airborne DPS Improvements												■																				
Flashlights - AFFL Certification																■																
FR Glove APL Certification												■																				
Conduct Radio Frequency Identification (RFI) pilot test				■																												
Navigational Aid DT/OT												■																				

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY: **5 - System Development and Demonstration**  
 PE NUMBER AND TITLE: **0604601A - Infantry Support Weapons**  
 PROJECT: **S60**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
<b>SOLDIER COOLING</b>																																
Soldier Cooling DT/OT																																
(20) Transition Soldier Cooling to Production													▲ 20																			

## Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>		PE NUMBER AND TITLE <b>0604601A - Infantry Support Weapons</b>						PROJECT <b>S60</b>	
<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	
BALLISTIC									
Recertify Combat Eyewear Protection (APEL)	1Q - 4Q	1Q - 2Q							
APEL Recertification		2Q							
Recertify Combat Eyewear Protection (APEL)				1Q - 4Q					
APEL Recertification					2Q				
Recertify Combat Eyewear Protection (APEL)							1Q - 4Q		
APEL Recertification								2Q	
Evaluate (Dye) Laser Protective Eyewear		1Q - 4Q	1Q						
Transition Laser Protective Eyewear to Production			1Q						
Test Advanced Eyewear Laser Protection (LP)	1Q - 4Q	1Q							
Transition Advanced Laser Protection to Production		1Q							
Evaluate/test Extremity Protection System	2Q - 4Q	1Q							
Integrate/Test Spiral I Material Enhancements and Transition to Production				3Q - 4Q	1Q - 4Q				
Transition Spiral I to Production					4Q				
Integrate/Test Spiral II Material Enhancements and Transition to Production						3Q - 4Q	1Q - 4Q		
Transition Spiral II to Production							4Q		
Integrate/Test Spiral I Head Protection Enhancements & Transition to Production						3Q - 4Q	1Q - 4Q		
Transition Spiral I to Production							4Q		
NDTE Operational Test (Kuwait)		1Q - 2Q							
NDTE transition to production		2Q							
Evaluate/test NDTE System/Software Capability Upgrades			1Q - 4Q	1Q - 4Q					

Integrate/Test Spiral I NDTE Software Upgrades & Transition to Production					3Q - 4Q	1Q - 4Q		
Transition Spiral I to Production						4Q		
Integrate/Test Spiral II NDTE Software Upgrades & Transition to Production							1Q - 4Q	1Q - 2Q
Transition Spiral II to Production								2Q
ABS NVVS Test and Evaluation	1Q - 4Q							
Test 7.62 Helmet Engineering Dev Models		1Q - 2Q						
Transition 7.62 Helmet to Production		2Q						
Evaluate/test Improved Non-Ballistic Impact Protection			4Q	1Q - 4Q				
Transition Soft Armor Upgrades to Production			1Q					
Integrate/evaluate Hard/soft Armor Upgrades	1Q - 4Q	1Q - 4Q	1Q - 4Q					
Transition Hard Armor Upgrades to Production			4Q					
UNIFORM CLOTHING								
Army Combat Uniform Enhancements Transition to Production	1Q							
A2CU P3I						2Q - 4Q	1Q - 2Q	
Moist Wick Flame Resist Undergarment Transition to Production			2Q					
Modular Boot Transition to Production				4Q				
FR FHC Insertion Tech/User Test				2Q - 4Q				
ACU Design Improvements								
Spiral I	3Q							
Spiral II		3Q - 4Q	1Q - 2Q					
ProTech Fabric ACU Evaluation		1Q - 2Q						
GEN III Product Improvement		2Q - 4Q	1Q - 4Q	1Q - 4Q				
GEN IV Product Improvement - Next Generation						1Q - 4Q	1Q	
GEN IV System Concept/Development Evaluation			2Q - 4Q	1Q - 3Q				
Clothing Bag Upgrades and Evaluations		1Q - 4Q	1Q - 4Q					

ACU Signature Management			1Q - 4Q	1Q - 4Q				
Glove Enhancements			1Q - 4Q	1Q - 2Q				
INDIVIDUAL EQUIPMENT								
ATPS T-11 OT	2Q - 4Q	1Q						
ATPS T-11 MS C		2Q						
ATPS P3I							2Q - 4Q	1Q - 4Q
ARAPS Development and Testing		2Q - 4Q	1Q - 4Q	1Q - 3Q				
Purchase RFID items and Conduct DT/OT			1Q - 4Q	1Q - 4Q				
MOLLE Upgrade								
Spiral I			1Q - 4Q					
Spiral II						1Q - 4Q	1Q - 3Q	
Cold Weather Stove User Eval - Final	4Q							
Cold Weather Stove trans to production			1Q					
Nuclear Environmental Protective Hydration System OT								
Spiral I	4Q	1Q						
Spiral II		3Q - 4Q						
Individual Water Treatment Device DT/OT								
Spiral I		2Q						
Spiral II						2Q - 3Q		
Increment III - Refill in a Field Environment				1Q - 4Q				
Ruck Sack for Airborne DPS Improvements			2Q - 4Q	1Q - 2Q				
Flashlights - AFFL Certification			4Q	1Q - 4Q				
FR Glove APL Certification			1Q - 4Q					
Conduct Radio Frequency Identification (RFI) pilot test	2Q - 4Q							
Navigational Aid DT/OT		2Q - 4Q	1Q - 4Q					
SOLDIER COOLING								
Soldier Cooling DT/OT			1Q - 4Q	1Q - 3Q				
Transition Soldier Cooling to Production				4Q				



# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S61</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost	
S61 ACIS ENGINEERING DEVELOPMENT	10422	14638	10513	Continuing	Continuing	

**A. Mission Description and Budget Item Justification:** This project provides System Development programs seeking to enhance the warfighting effectiveness of aircrew on Army fixed and rotary-winged aircraft through improved endurance, force protection, and situational awareness/understanding of Army aircrew. These programs include Air Soldier System and equipment which are unique and necessary for the improved performance of Army aircrews conducting full spectrum operations in the future integrated battlefield. The Air Soldier program will use the Soldier-as-a-System model to provide enhancements over the current Air Warrior ensemble. Improved endurance is achieved through the pursuit of lighter weight materials and integrated components that reduce weight and bulk. Additionally, innovations in miniaturized electronics would contribute to this key objective. Enhancements in ballistic, impact, directed energy protection, as well as fire resistant materials will contribute to soldier force protection. Systems that improve awareness and understanding of both the tactical environment and aircraft systems will increase the efficiency and effectiveness of the aircrew in addition to contributing to their lethality in combat. Air Warrior Encrypted Wireless Intercom System (AWIS) will provide a hands-free telecommunication device to allow aircrew to communicate via intercom without the use of communication cords, thereby eliminating a safety hazard for aircrew operating in the rear of the aircraft. Under Air Soldier accelerated fielding of equipment and technical insertions of standalone components will enhance and maximize mission performance, comfort, safety, and survivability of aircrew using Air Warrior. These funds also resource improved laser protection against emerging new threat systems and product improvement of existing helmets to improve performance and increased commonality. Maximum advantage will be taken of simulation to reduce program technical risk through early user evaluation and to reduce program design and test cost and schedules. This program does not duplicate any aircraft platform program efforts. Both joint and service independent efforts continue to be pursued under the scope of this program. Within this Project, FY 2008 and FY 2009 funding is included for the development of the Personnel Recovery Support Equipment (PRSE) support program. FY 2010 and later funding for PRSE development will be provided in the RDTE Project of S70, Personnel Recovery Support System within this same Program Element of 0604601A, Infantry Support Weapons.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Continue integration of preplanned Air Warrior Increment III including AWIS encryption certification and Air Soldier System improvements. AWIS effort will be completed in FY 2009. Funding in FY 2010/2011 will be utilized for Air Soldier improvements.	5430	5494	10513
Development of Personnel Recovery Support Equipment (PRSE)	4992	6799	
Congressional Add, Composite Bottles for Survival Egress Air		1938	
Small Business Innovative Research/Small Business Technology Transfer Programs		407	
<b>Total</b>	<b>10422</b>	<b>14638</b>	<b>10513</b>

<u>B. Other Program Funding Summary</u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
RDTE, A PE 0603827A, PROJ S51 - Adv Dev	2577	1	138	Continuing	Continuing
Aircraft Procurement, Army SSN AZ3110 - ACIS	54222	48149	77525	Continuing	Continuing

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604601A - Infantry Support Weapons**

PROJECT

**S61**

Comment:

**C. Acquisition Strategy** System Development and Demonstration efforts are for the Air Warrior program including the Air Warrior Aircraft Wireless Intercom System (AWIS) and Air Soldier System. The AWIS is a hands-free telecommunication device using radio signals for aircrew communication. Development efforts are awarded through competitive cost plus fixed fee contracts or by Military Interdepartmental Purchase Requests (MIPRs) to other government agencies.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604601A - Infantry Support Weapons							S61		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Air Warrior and Air Soldier Development	C - CPFF	Various	7918	5235	1-4Q	5399	1-4Q	9958	1-2Q		28510	
Personnel Recovery Support Equipment Development	MIPR	Various	24042	4992	1-4Q	6487	1-4Q				35521	
Congressional Add, Composite Bottles for Survival Egress Air	TBD					1938	1-4Q				1938	
Subtotal:			31960	10227		13824		9958			65969	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR and Project Order	Various Government	96	38	1-4Q	376	1-4Q	251	1-4Q		761	
Subtotal:			96	38		376		251			761	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing	MIPR	Various	77	28	1-4Q	79	1-4Q	56	1-4Q		316	
Subtotal:			77	28		79		56			316	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>			PE NUMBER AND TITLE <b>0604601A - Infantry Support Weapons</b>							PROJECT <b>S61</b>	
PM Administration	Allotment	Various Government	408	129	1-4Q	359	1-4Q	248	1-4Q	1144	
Subtotal:			408	129		359		248		1144	

<b>Project Total Cost:</b>			<b>32541</b>	<b>10422</b>		<b>14638</b>		<b>10513</b>		<b>68190</b>
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# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S61**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
Personnel Recovery Support Equipment (PRSE) Development	PRSE																															
Increment III AWIS Encrypted System Dev, Testing and Certification	AWIS Encrypted System																															
Air Soldier System Development and Demonstration and Qualification Testing	Air Soldier System Development and Qualification Testing																															

# Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>		PE NUMBER AND TITLE <b>0604601A - Infantry Support Weapons</b>					PROJECT <b>S61</b>	
<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>
Personnel Recovery Support Equipment (PRSE) Development	1Q - 4Q	1Q - 4Q						
Increment III AWIS Encrypted System Dev, Testing and Certification	1Q - 4Q	1Q - 4Q						
Air Soldier System Development and Demonstration and Qualification Testing		2Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S62</b>
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
S62 Counter-Defilade Target Engagement - SDD			21865	Continuing	Continuing

**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 materiel approach to mitigate the Counter Defilade Target Engagement (CDTE) gap (accurate and lethal engagement of defilade at squad level).

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Design, Develop and Fabricate -			19501
Engineering Evaluation and Training Development			1364
Program Management -			1000
<b>Total</b>			<b>21865</b>

<u>B. Other Program Funding Summary</u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
RDTE: PE 0603827A, Project S55	6502	5380	2600		14482
RDTE: PE 0603607A, Project 627	6000				6000

Comment:

**C. Acquisition Strategy** The XM25 IAWS will transition from the Technology and Development phase to Engineering and Manufacturing Development (EMD) phase by achieving Milestone B in 2Q FY2010. 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.

# ARMY RDT&E COST ANALYSIS (R3)

**May 2009**

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604601A - Infantry Support Weapons</b>							<b>S62</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Design, Develop & Fabricate	Sole Source CFFF	ATK Minneapolis, MN						10301	2Q		10301	
Subtotal:								10301			10301	
Remarks: The XM25 IAWS contract award is subject to the Joint Requirements Oversight Council (JROC) approval of the Capability Development Document (CDD) prior to 1Q FY2010.												
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Engineering Support	MIPR	Multiple						1114	2Q		2944	
Training Development Support	MIPR	PEO STRI						250	2Q		350	
Subtotal:								1364			3294	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Development Test	MIPR	Various						9200	2Q		9200	
Subtotal:								9200			9200	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management	In-House	PM Soldier Weapons Picatinny Arsenal, NJ						1000	2Q		2000	
Subtotal:								1000			2000	

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604601A - Infantry Support Weapons**

PROJECT

**S62**

**Project Total Cost:**

**21865**

**24795**

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S62**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15							
	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	1	2	3	4				
(1) MS B									▲ <sub>1</sub>																											
Design, Develop & Fabricate																																				
Development Tests & Evaluation																																				
(2) MS C/Type Classification-Low Rate Initial Production																					▲ <sub>2</sub>															
Production Qualification Test (POT)																																				
Operational Test & Evaluation (OT&E)																																				
Low Rate Initial Production (LRIP)																																				
(3) Type Classification - Standard																													▲ <sub>3</sub>							

# Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT	
<b>5 - System Development and Demonstration</b>		<b>0604601A - Infantry Support Weapons</b>						<b>S62</b>	
<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	
MS B			2Q						
Design, Develop & Fabricate			3Q - 4Q	1Q - 2Q					
Development Tests & Evaluation				3Q - 4Q	1Q - 2Q				
MS C/Type Classification-Low Rate Initial Production					3Q				
Production Qualification Test (PQT)					3Q - 4Q				
Operational Test & Evaluation (OT&E)					4Q	1Q - 2Q			
Low Rate Initial Production (LRIP)					3Q - 4Q	1Q - 4Q	1Q		
Type Classification - Standard							2Q		

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S63</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost	
S63 SMALL ARMS IMPROVEMENT	6801	4830	24504	Continuing	Continuing	

**A. Mission Description and Budget Item Justification:** The Small Arms Improvement program funds system demonstration of engineering development models/studies and the integration of commercial items with weapons/ammunition. Small arms include individual and crew-served 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 small arms weapons/ammunition. Focus areas include the demonstration, integration and study of light weight materials, obscurants, reconnaissance, observation, lethal and non-lethal ammunition, and electronics. Benefits include improvements to fire control equipment, optics, training devices, component mounts, weapon mounts, and ammunition. In accordance with congressional language and the Secretary of the Army's direction, the Army is initiating a new start individual weapon in FY10. The new carbine will provide the Soldier with an enhanced weapons capability and will be competed utilizing a best value, full and open competition to meet operational requirements. The requirement for the new individual carbine is being coordinated with other joint services to equip the warfighter with an accurate, reliable, Soldier-centric basic weapon capability which will be evaluated against current and emerging threats and incorporates technology advancements in the small arms industry mitigating capability gaps and shortcomings in currently fielded carbines.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Small Arms Weapons Enhancements			
- Design, Development and Engineering	1328	1691	5724
- Prototype Fabrication	288	670	2250
- Testing and Evaluation	550	906	4463
- Demonstration	830	180	2000
Ammunition			
- Design, Development and Engineering	1877	498	2267
- Prototype Fabrication	903		2000
- Testing and Evaluation	825	500	2150
- Demonstration	200		350
Fire Control			
- Design, Development and Engineering		250	1200
- Prototype Fabrication			650
- Testing and Evaluation			1450
Small Business Innovative Research/Small Business Technology Transfer Programs		135	

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>	<b>PROJECT</b> <b>S63</b>
Total	6801	4830      24504

<b><u>B. Other Program Funding Summary</u></b>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
WTCV, GZ1290, Squad Automatic Weapon (SAW) MODS	25279	7067	28733	Continuing	Continuing
WTCV, GZ2800, M16 Rifle MODS	5905	1178	4186	Continuing	Continuing
WTCV, GB3000, MK19 MODS	6222	7631	8164	Continuing	Continuing
WTCV, GZ1300, M240 Medium Machine Gun MODS	14635	21066	22764	Continuing	Continuing
WTCV, GB3007, M4 Carbine MODS	132890	16746	31472	Continuing	Continuing
WTCV, GB4000, M2 Machine Gun MODS	21665	12500	35338	Continuing	Continuing

Comment:

**C. Acquisition Strategy** Primary strategy is to mature and finalize design efforts, award RDT&E hardware contracts, and test and evaluate systems that will result in type classification and follow-on production contract awards.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604601A - Infantry Support Weapons</b>							<b>S63</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development	TBD	Various	1483	675		1250		5344		Cont.	Cont.	
Subtotal:			1483	675		1250		5344		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Development	MIPR	RDECOM - ARDEC, Picatinny Arsenal, NJ	3926	2428		1273		3979			11606	
Logistics	MIPR	TACOM, Rock Island Arsenal, IL	170	170		120		810			1270	
Human Research and Eng Directorate	MIPR	Aberdeen Proving Ground (APG), MD	630	110		90		560			1390	
Subtotal:			4726	2708		1483		5349			14266	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing	MIPR	Developmental Test Command (DTC), Aberdeen Proving Ground (APG), MD	1854	1072		945		7257		Cont.	Cont.	
Operational Testing	MIPR	Army Test and Evaluation Command (ATEC), Alexandria, VA	702	987		502		2750			4941	
Validation Testing	MIPR	Developmental Test Command (DTC),	2680	762		165		720			4327	

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
<b>5 - System Development and Demonstration</b>			<b>0604601A - Infantry Support Weapons</b>								<b>S63</b>	
		Aberdeen Proving Ground (APG), MD										
Subtotal:			5236	2821		1612		10727		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management	In House	PM Soldier Weapons, Picatinny Arsenal, NJ	1020	517		390		2844			4771	
Travel	In House	PM Soldier Weapons, Picatinny Arsenal, NJ	130	80		95		240			545	
Subtotal:			1150	597		485		3084			5316	
<b>Project Total Cost:</b>			<b>12595</b>	<b>6801</b>		<b>4830</b>		<b>24504</b>		<b>Cont.</b>	<b>Cont.</b>	

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S63**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
<b>SMALL ARMS WEAPONS ENHANCEMENTS</b>																																
M2 MG Light Weight Tripod	SDD																															
(1) MS C													1 MS C																			
Carbine Competition																	SDD															
Sniper Rifle									SDD																							
Weapon Upgrades	SDD																															
<b>AMMUNITION</b>																																
Improved Counter Defilade Fuze													SDD																			
40MM Close in Antipersonnel	SDD																															
(2) MS C																	2 MS C															
Micro Mechanical S&A													SDD																			
Small Arms Deployable Sensors Network																	SDD															
Improved Small Caliber Armor Piercing													SDD																			
Small Caliber Light Weight Ammo	SDD																															
(3) IPR									3 IPR																							
40MM Airburst Non-Lethal													SDD																			

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S63**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
Improved Small Caliber													SDD																			
Ammunition Upgrades													SDD																			
COMBAT OPTICS																																
Optics Upgrades																													SDD			
FIRE CONTROL																																
XM320 Improved GLM Fire Control																													SDD			
Small Arms Fire Control																	SDD															
Fire Control Upgrades																	SDD															

## Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S63**

<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>
SMALL ARMS WEAPONS ENHANCEMENTS	1Q - 4Q							
M2 MG Light Weight Tripod	1Q - 4Q	1Q - 4Q	1Q - 4Q					
MS C			4Q					
Carbine Competition			1Q - 4Q					
Sniper Rifle		1Q - 4Q						
Weapon Upgrades	1Q - 4Q							
AMMUNITION	1Q - 4Q							
Improved Counter Defilade Fuze			1Q - 4Q	1Q - 4Q				
40MM Close in Antipersonnel	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q				
MS C				4Q				
Micro Mechanical S&A			1Q - 4Q	1Q - 4Q	1Q - 4Q			
Small Arms Deployable Sensors Network				1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
Improved Small Caliber Armor Piercing			1Q - 4Q	1Q - 4Q				
Small Caliber Light Weight Ammo	1Q - 4Q							
IPR	4Q							
40MM Airburst Non-Lethal			1Q - 4Q	1Q - 4Q				
Improved Small Caliber				1Q - 4Q	1Q - 4Q	1Q - 4Q		
Ammunition Upgrades	1Q - 4Q							
COMBAT OPTICS	1Q - 4Q							
Optics Upgrades	1Q - 4Q							
FIRE CONTROL	1Q - 4Q							
XM320 Improved GLM Fire Control			1Q - 4Q	1Q - 4Q	1Q - 4Q			
Small Arms Fire Control						1Q - 4Q	1Q - 4Q	1Q - 4Q
Fire Control Upgrades	1Q - 4Q							



# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S64</b>
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
S64 COMMON REMOTELY OPERATED WPN SYS (CROWS)	5002				5002

**A. Mission Description and Budget Item Justification:** This project develops capability, reliability and supportability enhancement for Remote Weapon Station platforms, to include the Common Remotely Operated Weapons Station (CROWS), that enhance the Soldier's survivability, lethality and situational awareness while increasing the system's application across combat and tactical platforms.

<u><b>Accomplishments/Planned Program:</b></u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Design & Fabricate CROWS Acoustic Sensor Integration Kits	500		
Development Support for CROWS Acoustic Sensor	300		
Development Support for Javelin CROWS Integration	190		
Javelin/CROWS Integration Kit System Development & Demonstration Test	1400		
CROWS Increased Elevation Study	100		
Design & Fabricate MK-47/CROWS Integration Kits	483		
Development Support for MK-47/CROWS Integration	517		
CROWS Enhancement Operational Test & Evaluation	1499		
Program Management	13		
<b>Total</b>	<b>5002</b>		

<u><b>B. Other Program Funding Summary</b></u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
WTCV, G04700, CROWS	223	280	235		738

Comment:

**C. Acquisition Strategy** To conduct research, development and evaluation for Type Classification - Standard (TC-STD) potential system enhancements which may be implemented as part of the CROWS Capability Production Document (CPD), Increment 2, currently in staffing with an expected 1QFY10 approval date. CROWS is currently in production with an approved CPD (1 Aug 2005), validated Operational Needs Statements (ONS) and a Basis of Issue Plan (BOIP) in staffing.

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)**

**May 2009**

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604601A - Infantry Support Weapons**

PROJECT

**S64**

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# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604601A - Infantry Support Weapons</b>			<b>PROJECT</b> <b>S70</b>
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
S70 PERSONNEL RECOVERY SUPPORT SYSTEM (PRSS)			1321	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** This project provides system research, development, and testing of the Personnel Recovery Support System/Personnel Recovery Support Equipment (PRSE) that supports operations to report and locate isolated, missing, detained or captured soldiers. The current PRSE program consists of the development of personnel recovery equipment and the research, development, and test of upgrades to system components in order to enhance and increase system performance and ensure continued successful interoperability within the relevant theaters of operation. FY 2009 and prior year RDTE funding was provided in the RDTE Project of S61, Aircrew Integrated Systems (ACIS) Engineering Development within the PE of 0604601A, Infantry Support Weapons. This project is being established to separately manage and account for Personnel Recovery Support development from Aircrew Integrated Systems.

<b><u>Accomplishments/Planned Program:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Development of Personnel Recovery Support System/Personnel Recovery Support Equipment (PRSE)			1321
<b>Total</b>			<b>1321</b>

<b><u>B. Other Program Funding Summary</u></b>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
Other Procurement, Army, SSN G01101 - Personnel Recovery Support System (PRSS)			6981		6981
Aircraft Procurement, Army SSN AZ3110 - ACIS, includes funding of PRSE aircraft mods			77525		77525

Comment: Aircraft Procurement, Army SSN of AZ3110 - ACIS primarily includes the funding of traditional Aircrew Integrated Systems efforts including Air Warrior and Air Soldier requirements as well as Personnel Recovery Support System/Personnel Recovery Support Equipment (PRSE) aircraft modification requirements.

**C. Acquisition Strategy** The Personnel Recovery Support System/Personnel Recovery Support Equipment (PRSE) program development effort provides integration and optimization of personnel recovery systems performance support equipment being executed through cost plus fixed fee contracts and Military Interdepartmental Purchase Requests to other governmental agencies.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604601A - Infantry Support Weapons</b>							<b>S70</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Personnel Recovery Support Equipment Development	MIPR	Various						766	1-4Q		766	
Subtotal:								766			766	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR and Project Order	Various Government						236	1-4Q		236	
Subtotal:								236			236	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Testing	MIPR	Various						78	1-4Q		78	
Subtotal:								78			78	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
PM Administration	Allotment	Various Government						241	1-4Q		241	
Subtotal:								241			241	

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S70**

**Project Total Cost:**

**1321**

**1321**

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604601A - Infantry Support Weapons**

PROJECT  
**S70**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
Personnel Recovery Support Equipment (PRSE) Development	PRSE																															

# Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>		PE NUMBER AND TITLE <b>0604601A - Infantry Support Weapons</b>					PROJECT <b>S70</b>	
<u>Schedule Detail</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>
Personnel Recovery Support Equipment (PRSE) Development			1Q - 4Q	1Q - 4Q				