

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE								
4 - Advanced Component Development and Prototypes		0603827A - Soldier Systems - Advanced Development								
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	11084	11478	18178	14119	15503	15488	21974	22386	Continuing	Continuing
S51 AIRCREW INTEGRATED SYS AD	2572	3459	3179	2997	3136	2909	9996	10200		38448
S52 SOLDIER SUPPORT EQUIPMENT - AD	188	203								391
S53 CLOTHING AND EQUIPMENT	6694	6827	10050	9631	7193	7405	6878	6986	Continuing	Continuing
S54 SMALL ARMS IMPROVEMENT	1630	989	4949	1491	5174	5174	5100	5200		29707

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 S51 (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 (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.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

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BUDGET ACTIVITY	PE NUMBER AND TITLE			
4 - Advanced Component Development and Prototypes	0603827A - Soldier Systems - Advanced Development			
<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	12119	10605	18439	14559
Current BES/President's Budget (FY 2008/2009)	11084	11478	18178	14119
Total Adjustments	-1035	873	-261	-440
Congressional Program Reductions	-53	-44		
Congressional Rescissions	-123			
Congressional Increases	1700	1000		
Reprogrammings	-2223			
SBIR/STTR Transfer	-336	-324		
Adjustments to Budget Years		241	-261	-440

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes			PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development						PROJECT S51		
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost	
S51 AIRCREW INTEGRATED SYS AD	2572	3459	3179	2997	3136	2909	9996	10200		38448	

A. Mission Description and Budget Item Justification: This project supports advanced component development and prototyping of critical soldier support systems with improved aviator safety, survivability, and human performance that amplify the warfighting effectiveness, and facilitates full-spectrum dominance of the Army aircraft including the AH-64 Apache/Longbow, CH-47 Chinook, UH/HH-60 Blackhawk, Light Utility Helicopter, and Armed Reconnaissance helicopter. These programs include soldier systems and equipment which are unique and necessary for the sustainment, survivability, and performance of Army aircrews and troops on the future integrated battlefield. The Air Warrior program will provide the aircrew with a system approach to noise protection, three-dimensional audio and external audio capability, crash and post-crash survivability, concealment and environmental protection, ballistic protection, night vision and heads-up display, directed energy eye protection and flame/heat protection. Air Warrior enables the Army Aviation Warfighter to meet the approved Operational Requirements Document mission length of 5.3 hours with aviators in full chemical/biological protective gear. Preplanned block improvements integrating new technologies into the Air Warrior system will continue to enhance and maximize aircrew mission performance, comfort, aircrew station interface, safety, and survivability. 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.

Funds for prior year efforts were funded in PE 0603801A (Project B45 - Aviation Advanced Development).

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Concept exploration of pilot situational awareness and cognitive decision aiding tools.	848	1106	1104	995
Explore technology to upgrade environmental control and waste management systems.	500	502	500	502
Concept exploration of helmet technologies and helmet mounted devices.	974	1342	1325	1282
Continue advanced component development of Air Warrior preplanned technology improvements.	250	412	250	218
Small Business Innovative Reserach/Small Business Technology Transfer Programs		97		
Total	2572	3459	3179	2997

<u>B. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
RDTE, A PE 0603801A PROJ DB45 Adv Dev									Continuing	Continuing
RDTE, A PE 0604801A PROJ DC45-EMD									Continuing	Continuing
RDTE, A PE 0604601A PROJ S61-EMD	10727	2300	2542	2667	2751	2852	4500	4600	Continuing	Continuing
Aircraft Procurement, Army SSN AZ3110 - ACIS	31820	40632	42727	39430	57404	42849	138642	125577	Continuing	Continuing

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

0603827A - Soldier Systems - Advanced Development

PROJECT

S51

Comment:

C. Acquisition Strategy Technologies developed under the System Integrator contract will integrate the Air Warrior (AW) Block 3 features. Specifically these Block 3 capabilities will include a fully compliant Modular Integrated Helmet and Display System (MIHDS), Chemical, Biological (CB) waste disposal system and upgrades to AW block 2 components as emerging technologies become available. The MIHDS helmet will provide a day heads up display, nuclear flash protection, external audio, don in flight CB protection and Agile laser eye protection. The System Integrator contract is a 5 year delivery order cost plus fixed fee and was awarded in August 2004.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
4 - Advanced Component Development and Prototypes			0603827A - Soldier Systems - Advanced Development									S51		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Air Warrior Block Improvements Concept Development	C - CPFF	General Dynamics C4 Systems		639	1Q	523	1Q	1323	1Q	1871	1Q		4356	
Subtotal:				639		523		1323		1871			4356	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR	Various Government		1409	1-4Q	2427	1-4Q	1364	1-4Q	638	1-4Q		5838	
Subtotal:				1409		2427		1364		638			5838	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:														
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
PM Administration	Allotment	Various Government		524	1-4Q	509	1-4Q	492	1-4Q	488	1-4Q		2013	
Subtotal:				524		509		492		488			2013	
Project Total Cost:				2572		3459		3179		2997			12207	

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE																PROJECT														
4 - Advanced Component Development and Prototypes		0603827A - Soldier Systems - Advanced Development																S51														
Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Block 3 Component Development and Demonstration		Block 3 RDT&E																														
VCOP Components Demo in Adv Prototyping Engr Experimentation Sim		VCOP																														

Schedule Detail (R4a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development					PROJECT S51	
<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</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>
Block 3 Component Development and Demonstration	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q
VCOP Components Demo in Adv Prototyping Engr Experimentation Sim	1Q - 3Q							

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development						PROJECT S53		
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
S53 CLOTHING AND EQUIPMENT	6694	6827	10050	9631	7193	7405	6878	6986	Continuing	Continuing

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 survivability, mobility and sustainment of the individual Soldier.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Individual Soldier Ballistic Protection: (FY06) Continued product improvement of Advanced Combat helmet in support of fielding and developmental efforts. Researched technologies to mitigate the effects of high speed ballistic blunt trauma and low rate impact (crash) protection. Initiated efforts to leverage and incorporate laser eye protection technology advancements into ballistic goggles and spectacles and assessed capability improvements. Continued product improvement of Interceptor Body Armor (IBA) in support of fielding and executed incremental capability improvements related to technology maturity and operational feedback. (FY07-09) Leverage advanced ballistic materials to increase Soldier survivability while decreasing weight, cube and cost. Integrate and enhance the capabilities of Soldier Body Armor, Combat Eyewear, Bomb Suit, Face Shield and Blast Protective Footwear capabilities providing head-to-toe protection from current and emerging ballistic/blast threats. Conduct test and evaluation of prototype ballistic ensembles. Develop commonality at the component and subsystem levels to provide a modular layered/integrated ballistic protection system.	2273	2316	2350	2370
Soldier Uniforms and Clothing: (FY06) Conducted cold weather layer human factor evaluation on Combat Vehicle Crewman (CVC) aircrew uniform. Procured 200 Advanced Aviation Combat Uniforms for Testing. Completed technical testing on the Modular Boot System and User Testing to downselect to one boot that will replace multiple Organizational Clothing and Individual Equipment (OCIE) boots. (FY07-09) Leverage advancements in materials, nanotechnology, fabrication techniques, moisture management, flame resistance, antimicrobial treatments, insect protection, extreme environmental protection and advancements in chem/bio protection to increase the capabilities and durability of tactical and non-tactical clothing. Conduct test and evaluation of prototypes. Develop 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.	2290	2102	3350	2750
Individual Equipment: (FY06) Completed User test evaluation on Hydration on the Move. Initiated NBC Hydration Block II to provide the capability to hydrate hands free while in an NBC environment. Completed user test evaluation on the hydration on the move. Completed the Advanced Tactical Parachute System (ATAPS) operational testing. Completed User test and follow-on Technical test for Cold Weather Stove. (FY07-09) Leverage advancements in technology for load bearing equipment, hydration technologies including water filtration and NBC hydration, Special Operations Advanced RAM Parachute System (SOARAPS) and other mission essential and/or mission specific equipment for Soldiers. Initiate Test and evaluate prototype systems. Develop as much commonality as feasible across a broad spectrum of users and mission scenarios.	2131	2216	3495	3611
Soldier Cooling: (FY08-09) Develop, test and evaluate advanced lightweight, low power cooling systems for use with NBC and ballistic protection ensembles. Conduct trade-off analyses and system integration providing Soldiers enhanced ability to conduct missions for longer periods of time in extreme environments.			855	900
SBIR/STTR		193		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development	PROJECT S53
Total	6694	6827
	10050	9631

<u>B. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
RDTE, 0603747.669, Clothing and Equipment		8							Continuing	8
RDTE, 0604601A.S60, Clothing and Eq	7546	11197	9699	9677	10044	10082	10080	10100	Continuing	Continuing
OMA, 121017, Central Funding and Fielding	123954	134328	110688	92715	89409	39529	79984	113404	Continuing	Continuing

Comment:

C. Acquisition Strategy Programs will pursue normal transition to System Development and Demonstration (SDD) and production. This Project will continue to exercise competitively awarded contracts using best value source selection procedures.

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
4 - Advanced Component Development and Prototypes			0603827A - Soldier Systems - Advanced Development									S53		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	MIPRS	Natick Soldier Center, Natick, MA		2000	1-2Q	1198	1-2Q	2779	1-2Q	2390	1-2Q	Cont.	Cont.	
Various	Contracts	Various		2491	1-2Q	2510	1-2Q	3000	1-3Q	3041	1-3Q	Cont.	Cont.	
Subtotal:				4491		3708		5779		5431		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Misc Support Costs	MIPR	Various		1000	1-2Q	1000	1-2Q	1341	1-2Q	1450	1-2Q	Cont.	Cont.	
Subtotal:				1000		1000		1341		1450		Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Various	MIPRS	Various		400	1-4Q	1290	1-4Q	1750	1-4Q	1550	1-4Q	Cont.	Cont.	
Subtotal:				400		1290		1750		1550		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
In-House Support		PM CIE Ft Belvoir, VA		803	1-4Q	829	1-4Q	1180		1200		Cont.	Cont.	
Subtotal:				803		829		1180		1200		Cont.	Cont.	

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

4 - Advanced Component Development and Prototypes

0603827A - Soldier Systems - Advanced Development

S53

Project Total Cost:

6694

6827

10050

9631

Cont.

Cont.

Schedule Profile (R4 Exhibit)

February 2007

Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
	BALLISTIC																															
(1) Soft Body Armor trans to SDD					▲																											
(2) Adv EOD Prot Ensemble trans to SDD					▲																											
UNIFORM CLOTHING																																
FHC FR Insertion Tech/User Test									■																							
Fire Resist Envir Ens User Eval									■																							
(3) Improved Combat Vehicle Crewman User Assessment					▲																											
(4) A2CU Limited User Test - Abrams Fabric					▲																											
(5) ACU Fit Test - Athletic size uniforms					▲																											
(6) ACU Enhance trans to SDD					▲																											
(7) ADV CVC Ensemble trans to SDD													▲																			
(8) Moist Wick Flame Resist trans to SDD																					▲											
(9) Modular Boot trans to SDD					▲																											

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE
0603827A - Soldier Systems - Advanced Development

PROJECT
S53

Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
INDIVIDUAL EQUIPMENT																																
(10) Cold Weather Modular Sleep Sys User Eval																																
Cold Weather Stove User/Technical Test																																
(11) NBC Hydration trans to SDD																																

Schedule Detail (R4a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development	PROJECT S53
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<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</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>
BALLISTIC								
Soft Body Armor trans to SDD		1Q						
Adv EOD Prot Ensemble trans to SDD		1Q						
UNIFORM CLOTHING								
FHC FR Insertion Tech/User Test		3Q - 4Q	1Q - 2Q					
Fire Resist Envir Ens User Eval			1Q - 2Q					
Improved Combat Vehicle Crewman User Assessment		2Q						
A2CU Limited User Test - Abrams Fabric		2Q						
ACU Fit Test - Athletic size uniforms		1Q						
ACU Enhance trans to SDD		2Q						
ADV CVC Ensemble trans to SDD				1Q				
Moist Wick Flame Resist trans to SDD		4Q	1Q					
Modular Boot trans to SDD		2Q						
INDIVIDUAL EQUIPMENT								
Cold Weather Modular Sleep Sys User Eval			1Q - 2Q					
Cold Weather Stove User/Technical Test			1Q - 2Q					
NBC Hydration trans to SDD			2Q					

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development							PROJECT S54	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
S54 SMALL ARMS IMPROVEMENT	1630	989	4949	1491	5174	5174	5100	5200		29707

A. Mission Description and Budget Item Justification: 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, 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.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>						
Small Arms Weapons Enhancements										
- Design, Development and Engineering	275	200	150	240						
- Prototype Fabrication	900	600	300							
- Testing and evaluation	455	189	260	270						
- Demonstration				290						
Ammunition										
- Design, Development and Engineering			837	341						
- Prototype Fabrication			2124							
- Testing and Evaluation			400	215						
- Demonstration				135						
Fire Control										
- Design, Development			260							
- Prototype Fabrication			210							
- Testing and Evaluation			213							
- Demonstration			195							
Total	1630	989	4949	1491						
<u>B. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2007

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603827A - Soldier Systems - Advanced Development						PROJECT S54		
RDTE S63, Program Element 0604601A - Infantry Support Weapons	6905	5707	14112	4883	14978	16112	14995	14995	Continuing	Continuing

Comment: FY 2006 Congressional increase of \$1.7M for Nickel Boron Coating Technology.
 FY 2007 Congressional increase of \$1.0M for Nickel Boron Coating Technology.

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

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
4 - Advanced Component Development and Prototypes			0603827A - Soldier Systems - Advanced Development									S54		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development				900		600		2634					4134	
Subtotal:				900		600		2634					4134	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Development				150		125		967		782			2024	
Subtotal:				150		125		967		782			2024	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
DT				455		189		873		485			2002	
Subtotal:				455		189		873		485			2002	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management				125		75		475		224			899	
Subtotal:				125		75		475		224			899	
Project Total Cost:				1630		989		4949		1491			9059	

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY	PE NUMBER AND TITLE																PROJECT															
4 - Advanced Component Development and Prototypes	0603827A - Soldier Systems - Advanced Development																S54															
Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
SMALL ARMS WEAPONS ENHANCEMENTS																																
Nickel Boron Coating Technology for Weapons																																
Weapons Upgrades	SDD																															
AMMUNITION																																
Micro Mechanical Safe & Arm																																
Close Range Improved Lethality Cartridge	SDD																															
40mm Reconnaissance Cartridge	SDD																															
Ammo Upgrades	SDD																															
COMBAT OPTICS																																
Optics Upgrades																																
FIRE CONTROL																																
Improved GLM Fire Control																																
Fire Control Upgrades	SDD																															

Schedule Detail (R4a Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT
4 - Advanced Component Development and Prototypes		0603827A - Soldier Systems - Advanced Development						S54
<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</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>
SMALL ARMS WEAPONS ENHANCEMENTS	1Q							
Nickel Boron Coating Technology for Weapons	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q			
Weapons Upgrades			1Q - 4Q					
AMMUNITION								
Micro Mechanical Safe & Arm			1Q - 4Q	1Q - 4Q				
Close Range Improved Lethality Cartridge			1Q - 4Q	1Q - 4Q	1Q - 4Q			
40mm Reconnaissance Cartridge			1Q - 4Q	1Q - 4Q				
Ammo Upgrades			1Q - 4Q					
COMBAT OPTICS								
Optics Upgrades			1Q - 4Q					
FIRE CONTROL								
Improved GLM Fire Control			1Q - 4Q					
Fire Control Upgrades			1Q - 4Q					