ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)				February 2004				
BUDGET ACTIVITY  3 - Advanced technology development	PE NUMBER AND TITLE PROJECT  0603607A - JOINT SERVICE SMALL ARMS  627  PROGRAM							
COST (In Thousands)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
627 JT SVC SA PROG (JSSAP)		16396	9575	5968	6844	7160	7303	7470

A. Mission Description and Budget Item Justification: This Program Element matures and demonstrates advanced technologies that integrate into individual and crewserved weapons to provide greater lethality, utility and range at a significantly reduced weight for the Future Force and, where feasible, exploits opportunities to enhance Current Force capabilities. Efforts include: the Objective Crew-Served Weapon (OCSW) Advanced Technology Demonstration (ATD); and Objective Individual Combat Weapon (OICW) System Enhancement; and the Lightweight Machine Gun and Ammunition (LMGA). OCSW demonstrated the next generation crew-served weapon with improved combat effectiveness by being able to hit protected personnel targets in defilade (obscured or non-visible), and over 60% reduced weight when compared to the MK19 grenade machine gun and M2 machine gun it will replace. The OICW system enhancement efforts will mature, demonstrate and transition lethality-enhancing and cost/weight-reducing technologies into the OCSW and OICW. The LMGA, complementing both the highly lethal OICW and OCSW will offer significantly reduced weight over the currently fielded M249 Squad Automatic Weapon and its associated ammunition. This weapon will lighten the soldier's load, provide improved battlefield mobility and reduced logistics burden to maximize operational utility and survivability, while maintaining current levels of performance. All Joint Service Small Arms Program (JSSAP) efforts follow the Joint Service Small Arms Master Plan (JSSAMP) and Service Mission Need Statements and Capabilities Development Documents. The cited work is consistent with the Strategic Planning Guidance, the Army Science and Technology Master Plan (ASTMP) and the Defense Technology Area Plan (DTAP). The program element contains no duplication with any effort within the Military Departments. Work is performed by the US Army Armament Research, Development and Engineering Center, Picatinny Arsenal, NJ. Work in this PE is derived and fully integrated with the 6.2 eff

Accomplishments/Planned Program OCSW: In FY03, demonstrated accuracy and functionality of air-bursting high explosive munition; fabricated test quantities of munitions; conducted environmental testing of weapon; extended limits of man-rated firing; conducted final system integration test; conducted system acceptance test. Completed ATD. Provided technical support to OCSW Milestone B decision review.	FY 2003 3148	FY 2004 0	FY 2005 0	
OCSW .50 Caliber Variant: In FY03, efforts focused on developing and test firing a .50 cal variant of the weapon resulting in a significant cost saving for reliability testing and a new weapon variant for potential field use to replace the existing M2 machine gun.	3500	0	0	

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Accomplishments/Planned Program B(continued) OICW System Enhancement: In FY03, performed Microelectrical Mechanical Syfuze integration and initiated fuze/warhead performance and safety tests. In FY conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing of MEMS S&A in test barrel and demonstrate in the XM29; with the conduct test firing test firing test fire test firing test fire test firing test fire test firing test fire te	04, continue OICW 20mm system integration,	FY 2003 2400	FY 2004 4236	FY 2005 0		
LMGA: In FY04, award contracts to design a lightweight, reliable machine gun a integration tests with OFW Lead Technology Integrator and down select to final and ammunition components.		0	1732	5968		
OCSW: This one year Congressional add reduced risk in the System Developn maturing the OCSW airburst fuze; demonstrated a fully integrated airburst round and support the conduct of OCSW Milestone B.		3341	0	0		
Anti-material Sniper Rifle (AMSR): This one year Congressional add evaluated weight materials, recoil mitigation and energy recovery and demonstrated these technology based on the XM107 .50 caliber Sniper Rifle, which is compatible wi Ammunition. The FY04 Congressional add addresses the building and safety c design, development, fabrication and testing of 25mm OCSW, and AMSR-compoverall system demonstration of the XM109 AMSR in conjunction with several L	e in a 25mm Anti-Material Sniper Rifle ith the XM307, Objective Crew Served Weapon ertification of additional prototype weapons; the patible light armor piercing ammunition; and	4007	3352	0		
Small Business Innovative Research/Small Business Technology Transfer Prog	ırams	0	255	0		
Totals		16396	9575	5968		

ARMY RDT&E BUDGET ITEM JUSTIFI	CATION (R2 Exhibit)	February 2004
BUDGET ACTIVITY  3 - Advanced technology development	PE NUMBER AND TITLE  0603607A - JOINT SERVICE SMALI  PROGRAM	PROJECT <b>627</b>

B. Program Change Summary	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	12998	6193	5979
Current Budget (FY 2005 PB)	16396	9575	5968
Total Adjustments	3398	3382	-11
Congressional program reductions		-82	
Congressional rescissions			
Congressional increases		3500	
Reprogrammings	3398	-36	
SBIR/STTR Transfer			
Adjustments to Budget Years			-11

Significant Change Explanation.
FY03 - Funds increased to support OCSW acceleration.
FY04 - One FY04 Congressional add totaling \$3500 was added to the PE.