

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)						February 2003				
BUDGET ACTIVITY 3 - Advanced technology development			PE NUMBER AND TITLE 0603607A - JOINT SERVICE SMALL ARMS PROGRAM				PROJECT 627			
COST (In Thousands)			FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
627	JT SVC SA PROG (JSSAP)		4264	12998	6193	5979	6874	7196	7356	7526
<p><b><u>A. Mission Description and Budget Item Justification:</u></b> Matures and demonstrates advanced technologies that integrate into individual and crew-served weapons to provide greater lethality, utility and range at a significantly reduced weight for the Objective Force. 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 demonstrates the next generation crew-served weapon with improved combat effectiveness such as being able to hit protected personnel targets in defilade (obscured or non-visible), a reduced weight MK19 grenade machine gun and M2 machine gun,. The OICW system enhancement efforts will develop, 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 SAW 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 Operational Requirement Documents. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP) and the Army Modernization Plan. 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 efforts found in PE 0602623A (Joint Service Small Arms Program) and PE 0602624A (Weapons and Munitions Technology). Transition paths have been established in coordination with Program Executive Officer Soldier, Project Manager Soldier Weapons, Product Manager Small Arms, PM Product Manager OICW; USMC Director, Ground Weapons; and US Special Operations Command (SOCOM). This program supports the Objective transition path of the Transformation Campaign Plan.</p> <p>No Defense Emergency Response Funds have been provided to this program.</p>										

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Accomplishments/Planned Program			FY 2002	FY 2003	FY 2004	FY 2005
- OCSW: In FY02, demonstrated gun launched, fully functional, airburst fuze (including point detonation functions) of the airburst high explosive munition; completed fabrication of deliverable OCSW systems; conducted integration tests; demonstrated weapon reliability growth; demonstrated ammunition airburst precision. In FY03, demonstrate accuracy and function of ai-bursting high explosive munition; fabricate test quantities of munitions; conduct environmental testing of weapon; extend limits of man-rated firing; conduct final system integration test; conduct system acceptance test. Complete ATD. Provide technical support to Milestone B decision review.			1357	3215	0	0
- OICW System Enhancement: In FY02, updated initial designs, fabricated test hardware, and evaluated in inert warheads the performance of Microelectromechanical System (MEMS) based safe and arming (S&A) mechanism employing Micro Scale Firetrain (MSF), which provides a 75% volume/50% cost reduction in the fuze S&A. In FY03, perform MEMS based S&A and fuze integration and conduct fuze/warhead performance and safety tests. In FY 04, continue OICW 20mm system integration, complete testing and quantify production costs.			2907	2431	4413	0
- LMGA: In FY04, award contracts to design a lightweight, reliable machine gun and ammunition. In FY05, conduct initial integration tests with OFW Lead Technology Integrator and downselect to final weapon design. Build and test initial weapon and ammunition components.			0	0	1780	5979
- Objective Crew Served Weapon: The objective of this one year Congressional Add is to reduce risk in the System Development and Demonstration Phase by further maturing the OCSW airburst fuze; demonstrate a fully integrated airburst round; further increase the reliability of the system and support the conduct of Milestone B.			0	3342	0	0
- Anti-material Sniper Rifle: The objective of this one year Congressional Add is to evaluate weapon technologies in the areas of light weight materials, recoil mitigation and energy recovery and demonstrate these in a 25mm Anti-Material Sniper Rifle technology based on the XM107 .50 caliber Sniper Rifle, which is compatible with the XM307, Objective Crew Served Weapon Ammunition.			0	4010	0	0
Totals			4264	12998	6193	5979

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<b><u>B. Program Change Summary</u></b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>
Previous President's Budget (FY 2003)	4388	6013	6413	6715
Current Budget (FY 2004/2005 PB)	4264	12998	6193	5979
Total Adjustments	-124	6985	-220	-736
Congressional program reductions				
Congressional rescissions		-289		
Congressional increases		7700		
Reprogrammings	-20	-75		
SBIR/STTR Transfer	-104	-351		
Adjustments to Budget Years			-220	-736

**Significant Changes:**

FY05: Funds realigned to higher priority requirements.

**FY03 Congressional Adds:**

Objective Crew Served Weapon, Project 627 (\$3500); Anti-material Sniper Rifle, Project 627 (\$4200).