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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							DATE February 2000					
BUDGET ACTIVITY 2 - Applied Research				PE NUMBER AND TITLE 0602623A Joint Service Small Arms Program				PROJECT AH21				
COST (In Thousands)				FY1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
AH21 Joint Service Small Arms Program				5008	5161	5415	5589	5757	5991	6290	Continuing	Continuing
<p>A. <u>Mission Description and Justification:</u> The objective of this Program Element (PE) is to develop key individual and crew-served weapon technologies that will enhance the fighting capabilities and survivability of dismounted battlefield personnel of the Services. This PE funds efforts that include: component technology for an Objective Crew-Served Weapon (OCSW) to replace selected M2 machine guns, MK19 grenade machine guns and M240 machine guns; bursting munitions technology to provide a 300% to 500% increase in hit probability, the ability to defeat defilade or non-visible targets, and means to extend the effective range of the Objective Individual Combat Weapon (OICW) to 1000 meters and the OCSW to 2000 meters; an objective sniper weapon technology to increase accuracy and effective range to 2000 meters for the next sniper weapon. This PE also funds other technology advancement/enhancement efforts to 1) assure that the Objective Family of Small Arms (OFSA), the next generation of weapons systems, continues to overmatch the evolving threat; and 2) address the follow-on needs of the Army 2010 and beyond. All Joint Service Small Arms Program (JSSAP) efforts are based upon the Joint Service Small Arms Master Plan (JSSAMP), and approved Joint Service Science and Technology Objectives (JSSTO), plus Mission Needs Statements and Operational Requirements Documents of the Services. The cited work is consistent with the Army Science and Technology Master Plan (ASTMP), the Army Modernization Plan and Project Reliance. This program is primarily managed by the U.S. Army Armament Research, Development and Engineering Center (ARDEC), Picatinny Arsenal, NJ. Work in this PE is related to, and fully coordinated with, efforts in PE 0602624A (Weapons and Munitions Technology), and PE 0603607A (Joint Service Small Arms Program). JSSAP OICW and OCSW Technology Base efforts transition to PE 0604802A (Weapons and Munitions-Engineering Development) and PE 0604601A (Objective Crew Served Weapon-Engineering Development) respectively. Transition paths have been established in coordination with Product Manager (PM) Small Arms, USMC Director Ground Weapons and US Special Operations Command (SOCOM).</p> <p>FY 1999 Accomplishments:</p> <ul style="list-style-type: none"> • 2729 - Applied fire control technology to OCSW and planned full integration into prototype system design. <li style="padding-left: 20px;">- Conducted design refinements on OCSW weapon, ground mount, fuze and ammunition elements. • 1105 - Following OICW safety certification, conducted technical and user testing. • 1174 - Established sniper baseline performance and explored new concepts/technologies to achieve future sniper requirements. <li style="padding-left: 20px;">- Evolved leading edge concepts/technologies that will assure OFSA continues to overmatch the evolving threat and to address AAN requirements. <p>Total 5008</p> <p>FY 2000 Planned Program:</p> <ul style="list-style-type: none"> • 3381 - Complete integration of airburst, point-detonation and self-destruct functions into OCSW fuze. <li style="padding-left: 20px;">- Conduct firing demonstration tests of fully integrated OCSW fuze from 800 out to 2000 meters. • 808 - Conduct OICW Micro-Electro-Mechanical Systems (MEMS) based safe & arming device. • 880 - Complete preliminary error budget and feasibility analysis for light Fighter Lethality smart munition program. • 92 - Small Business Innovation Research/ Small Business Technology Transfer (SBIR/STTR) Programs. 												
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Total 5161

FY 2001 Planned Program:

- 2952 - Complete design and 1000-2000 meter firing tests of OCSW full solution fire control.
- 1415 - Demonstrate MEMS safe & arming design.
- 1048 - Complete the concept of a seeker projectile for Light Fighter Lethality After Next.

Total 5415

<u>B. Program Change Summary</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (<u>FY 2000 / 2001</u> PB)	5188	5187	5428
Appropriated Value	5229	5187	
Adjustments to Appropriated Value			
a. Congressional General Reductions	-41		
b. SBIR / STTR	-95		
c. Omnibus or Other Above Threshold Reduction		-14	
d. Below Threshold Reprogramming	-63		
e. Rescissions	-22	-12	
Adjustments to Budget Years Since (<u>FY 2000 / 2001</u> PB)			-13
Current Budget Submit (<u>FY 2001</u> PB)	5008	5161	5415