

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)							February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604□01A - Aviation - Eng Dev				PROJECT C45		
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
C45 AIRCREW INTEGRATED SYS-ED	3227	3239	0	0	0	0	0	0	0	9445
<p><u>A. Mission Description and Budget Item Justification:</u> Project DC45 - Aviation Engineering Development: This project provides Engineering 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 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 systems approach to noise protection, three-dimensional audio and external audio capability, microclimate conditioning, crash and post-crash survivability, concealment and environmental protection, ballistic protection, night vision capability and heads-up display, directed energy eye protection and flame/heat protection. Air Warrior will enable 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 ensemble 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. 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.</p> <p>Beginning in FY06 this funding will be under ACIS Engineering Development, PE 0604601A, Project S61.</p>										
<u>Accomplishments/Planned Program</u>							FY 2004	FY 2005	FY 2006	FY 2007
Continue the integration of preplanned Air Warrior Block 2 improvements.							3227	2239	0	0
Evaluate integrated technologies for the development of high level ballistic protection for aviators.							0	1000	0	0
Totals							3227	3239	0	0

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BUDGET ACTIVITY
5 - System Development and Demonstration

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PROJECT
C45

B. Program Change Summary

	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	2378	2292	2290
Current Budget (FY 2006/2007 PB)	3239	0	0
Total Adjustments	861	-2292	-2290
Net of Program/Database Changes			
Congressional Program Reductions	-48		
Congressional Rescissions			
Congressional Increases	1000		
Reprogrammings			
SBIR/STTR Transfer	-91		
Adjustments to Budget Years		-2292	-2290

FY 2006/2007: New PE 0604601A, Proj S61 assigned.

C. Other Program Funding Summary

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
RDTE, A PE 0604601A PROJ S61 - EMD	0	0	2248	2291	2523	2620	2706	2805	Continue	Continue
RDTE, A PE 0603801A PROJ DB45 - ACIS AD	7101	6176	0	0	0	0	0	0	0	13277
RDTE, A PE 0603827, PROJ S51 - ACIS AD	0	0	3374	3443	3525	3619	4044	4040	Continue	Continue
Aircraft Procurement, Army SSN AZ3110 - ACIS	32848	29694	29352	34821	42127	38873	56594	42268	Continue	Continue

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<p><u>D. Acquisition Strategy:</u> Funds are under PE 0604601A – S61 after FY 2005. System Development and Demonstration efforts include the completion of the Air Warrior Electronic Data Manager (EDM) qualification testing to transition into Full Rate Production, the Aircraft Wireless Intercom System (AWIS), and integration of the Microclimate Cooling System onto the Army’s HH-60L Medivac Helicopter. The EDM is a kneeboard computer that provides aviators a moving map display, performance planning data, a digital note pad, and other capabilities to replace the paper data in the cockpit. 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. High Level Ballistic Protection is congressionally funded for development of improved body armor. Funds are available only in the year of execution. A cost plus fixed fee contract is awarded as funds are received.</p>		