

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)						February 2004					
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604220A - Armed, Deployable OH-58D				PROJECT 538				
COST (In Thousands)			FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
538	KIOWA WARRIOR LFTE		1759	0	0	0	0	0	0	0	4034
<p>A. Mission Description and Budget Item Justification: Program funding provides static and dynamic Live Fire Test and Evaluation (LFT&E) for the Kiowa Warrior Mast Mounted Sight (MMS) and selected fuselage tests. There has been additional quasi-static testing performed on the Main Rotor Blades (MRBs). The ballistic testing, required by Title X, US Code 2366, was documented in the Kiowa Warrior Live Fire Independent Evaluation Plan/Test Design Plan (IEP/TDP) dated February 1999, and approved by the Deputy Under Secretary of the Army, Operations Research (DUSA (OR)) and the Director, Operational Test and Evaluation (DOTE). To complete the dynamic portion of the LFT&E, a Ground Test Vehicle (GTV) has been assembled. The GTV consists of fully functional but non-flightworthy airframe and engine parts. No radios, or working mission equipment were installed. Only essential flight instruments have been installed for safe ground operations. Plywood mock-ups or empty black boxes were used in place of mission equipment. The MMS static testing was conducted with the MMS attached to a maintenance sight stand. The dynamic testing will be conducted with the MMS installed on the GTV operating at 100% rotor revolutions per minute and under aircraft engine power. The quasi-static MRB testing was conducted while various loads were applied to the blade specimens. Each test shot defined in the IEP/TDP varied from caliber 7.62 mm to 30 mm. All testing has occurred on a controlled range at Aberdeen Proving Grounds, MD.</p> <p>This system supports the Current Force transition path of the Transformation Campaign Plan (TCP).</p>											
Accomplishments/Planned Program							FY 2003	FY 2004	FY 2005		
Development/Operational Test & Analysis 2 Main rotor blades, 1 GTV Assembly							619	0	0		
Developmental/Operational Test & Analysis							265	0	0		
Battle Damage Assessment							12	0	0		
Mock-up Cost							321	0	0		
Mock-up Cost (1 GTV)							542	0	0		
Totals							1759	0	0		

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538**B. Program Change Summary**

	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2004)	1790	0	0
Current Budget (FY 2005 PB)	1759	0	0
Total Adjustments	-31	0	0
Congressional program reductions			
Congressional rescissions	-21		
Congressional increases			
Reprogrammings	42		
SBIR/STTR Transfer	-52		
Adjustments to Budget Years			

C. Other Program Funding Summary

	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
APA AZ2200 - Kiowa Warrior	41257	50871	33776	22403	42083	20702	15281	24900	251273

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<p><u>D. Acquisition Strategy:</u> Test planning and actual testing will be conducted by Army Research Laboratories (ARL). Test results will be analyzed by ARL, the Army Test and Evaluation Center (ATEC), and the Evaluation Analysis Center (EAC). The US Army Aviation Logistics School (USAALS) will perform battle damage assessment and the Boeing Company will provide support for the planning, testing and analysis efforts.</p>		