

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 2000
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BUDGET ACTIVITY 5 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604220A Armed, Deployable OH-58D	PROJECT D538
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COST (<i>In Thousands</i>)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D538 Kiowa Warrior Live Fire Test & Evaluation (LFT&E)	0	0	532	2335	1871	0	0	0	4738

A. Mission Description and Budget Item Justification: Provides static and dynamic Live Fire Testing and Evaluation (LFT&E) for the Kiowa Warrior aircraft's Mast Mounted Sight (MMS) and main rotor blades. Additionally, quasi-static testing will be accomplished on the rotor blades. The ballistic testing, required by Title X, US Code 2366, is agreed to by the Deputy Under Secretary of the Army, Operations Research (DUSA(OR)) and by the Director, Operational Test and Evaluation (DOTE). The intent of the Code is to correct design deficiencies before entering low-rate initial production. LFT&E has not yet been conducted on Kiowa Warrior aircraft. To complete LFT&E, a ground test vehicle (GTV) will be assembled. The GTV will consist of fully-functional but non-flightworthy airframe and engine parts. No radios, flight instruments, or working mission equipment will be installed. Mission equipment plywood mockups or empty black boxes will be incorporated. The MMS static testing will be off the GTV but the dynamic testing will require the MMS to be mounted on the GTV with engine running and blades turning. The quasi-static testing of the main rotor blades will have loads applied to blade specimens. Munitions to be tested range from 7.62mm to 30mm.

FY 1999 Accomplishments: Project not funded in FY 1999.

FY 2000 Planned Program: Project not funded in FY 2000.

FY 2001 Planned Program:

- 54 Test Planning and Analysis – Operational Test and Evaluation Center (OPTEC), Evaluation Analysis Center (EAC), and Contractors
 - 44 Conduct Test – Army Research Laboratory (ARL)
 - 263 Testing and Support – Bell Helicopter Textron, Inc.
 - 162 Test Analysis – ARL and Others
 - 9 Battle Damage Assessment – US Army Aviation Logistics School (USAALS)
- Total 532

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B. Program Change Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 2000/2001 PB)	0	0	0
Appropriated Value	0	0	
Adjustments to Appropriated Value			
a. Congressional General Reductions			
b. SBIR / STTR			
c. Omnibus or Other Above Threshold Reductions			
d. Below Threshold Reprogramming			
e. Rescissions			
Adjustments to Budget Years Since FY 2000/2001 PB			+532
Current Budget Submit (FY 2001 PB)	0	0	532

Change summary Explanation: FY01 funding increase (+532) for Live Fire Test and Evaluation (LFT&E).

C. Other Program Funding Summary	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
APA AZ2200 – Kiowa Warrior	48721	41940	41816	42349	42286	31387	31351	Cont'd	Cont'd

D. Acquisition Strategy: Test planning and actual testing will be accomplished by Army Research Laboratories (ARL) and by Bell Helicopter Textron, Inc. Test results will be analyzed by ARL, the Operational Test and Evaluation Center (OPTEC), the Evaluation Analysis Center (EAC), and contractors. The US Army Aviation Logistics School (USAALS) will perform battle damage assessment and both Bell Helicopter and Boeing will provide support for the planning, testing and analysis efforts.

E. Schedule Profile	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>
Test Planning – Phase I (Static shots)			1-2 Qtr	1-4 Qtr				
Conduct Test – Phase I			2-3 Qtr	1-4 Qtr				
Analyze Test Results – Phase I			3-4 Qtr	1-4 Qtr	1-4 Qtr			
Test Planning – Phase II (Dynamic shots)				4 Qtr	1-4 Qtr	1 Qtr		
Conduct Test – Phase II					3-4 Qtr	1 Qtr		
Analyze Test Results – Phase II					3-4 Qtr	1-4 Qtr		