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Exhibit R-2, RDT&E Project Justification							February 2007	
OPERATIONAL TEST AND EVALUATION, DEFENSE (0460) BUDGET ACTIVITY SIX				LIVE FIRE TESTING (LFT) PROGRAM ELEMENT (PE) 0605131D8Z				
Cost (\$ In Millions)	FY 2006	FY 2007*	FY 2008*	FY 2009*	FY 2010*	FY 2011*	FY 2012*	FY 2013*
PE 0605131D8Z	10.160							

* Beginning in FY 2007 this program is funded in PE 0605131OTE.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

This PE directly supports the Congressional statutory requirements for oversight of Live Fire Test and Evaluation (LFT&E). The primary objective of LFT&E is to assure that the vulnerability and survivability of Department of Defense (DoD) crew-carrying platforms and the lethality of our conventional munitions are known and acceptable before entering full-rate production. LFT&E encompasses realistic tests involving actual United States (U.S.) and foreign hardware or, if not available, acceptable surrogate threat hardware. The objective is to identify and correct design deficiencies early in the development process. A completed LFT&E test report is required before programs proceed beyond low-rate initial production (BLRIP). It also includes realistic modeling and simulation (M&S) to examine survivability and lethality attributes not assessed during testing. The LFT&E program is essential, especially in view of the escalating costs of technologically sophisticated weapons systems.

The LFT PE also supports DoD’s Joint Live Fire (JLF) Program. JLF was begun in 1984 under an OSD charter to test fielded front-line combat aircraft and armor systems for their vulnerabilities as well as fielded weapons, both U.S. and threat, for their lethality against their respective targets.

This PE includes funds to obtain Federally Funded Research and Development Center (FFRDC) support in performing the analyses to support described tasks, as well as travel funds to carry out oversight of the LFT program.

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This program element is budgeted in Budget Activity 6, RDT&E Management Support, to support LFT&E management activities for the oversight of RDT&E of new systems, as well as RDT&E of fielded systems.

Accomplishments/Planned Programs:

FY 2006 Accomplishments:

Major T&E Programs:

Provided Live Fire Test and Evaluation inputs for test and evaluation master plans (TEMPS), test plans, System Acquisition Reports, Defense Acquisition Executive Summary reports, and BLRIP reports as described in the DOT&E FY 2006 Annual Report issued in January 2007.

JLF Programs:

Conducted tests of fielded systems to support DOT&E and warfighter data needs. Projects included:

- Predator Systems Vulnerability
- CF-6 Engine Vulnerability to MANPADS
- Enhanced Powder Panel Validation
- Kiowa Warrior Cockpit Ballistic Vulnerability
- A-10 Dry Bay Foam Verification
- Helicopter Ordnance Vulnerability
- Kiowa Warrior Fuel System Ballistic Vulnerability
- Kiowa Warrior Rotor Control Subsystem Vulnerability
- CH-53E Tail Gearbox and Rotating Control Vulnerability
- Helicopter Vulnerability to RPG
- AH-64 Nacelle Fire Extinguisher Effects
- FATEPEN Validation for High Energy Fragments
- Improvised Explosive Device Blast/Fragment Arena Test and Characterization

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- Military Operations in Urban Terrain Weapons Effects Secondary Debris Test
- Middle Eastern Masonry Structure
- Sensor Fuzed Weapon Cold Target Effectiveness
- Fragment Penetration Test and Analysis, Masonry
- Soft Body Armor Test Methods
- IED Characterized and Mitigation for Tactical Wheeled Vehicle Fuel Tanks
- Ship Damage Control Readiness Evaluation
- Recoverability in Network Fire Simulation
- Shipboard Space Fire Testing
- Ship Response to Terrorist Attack
- Test Alternatives to Explosive UNDEX
- Survivability of Ships Built to Commercial Standards
- Submarine Susceptibility to Mines

FY 2007 Plans:

- Please see Live Fire Test and Evaluation, Program Element 0605131OTE

FY 2008 Plans:

- Please see Live Fire Test and Evaluation, Program Element 0605131OTE

FY 2009 Plans:

- Please see Live Fire Test and Evaluation, Program Element 0605131OTE

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B. (U) PROGRAM CHANGE SUMMARY

(\$ in Millions)	<u>FY 2006</u>	<u>FY 2007*</u>	<u>FY 2008*</u>	<u>FY 2009*</u>
FY 2007 President's Budget	10.160			
Current Budget Submit	10.160			
Total Adjustments				
Congressional program reductions				
Congressional rescissions				
Congressional increases				
Fiscal Guidance Adjustments				
Inflation Adjustment				
Reprogramming				

C. (U) OTHER PROGRAM FUNDING: NA

D. (U) ACQUISITION STRATGEY: NA

E. (U) PERFORMANCE METRICS:

Percentage of required live fire test planning documents, assessments, and reports applicable to acquisition programs on the OSD Test and Evaluation Oversight List and other special interest programs/legacy systems that are completed and delivered to the appropriate decision makers on time.

Please see PE 0605131OTE for Performance Metrics discussion for FY 2006 actuals and discussion.

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