Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Operational Test and Evaluation, Defense

R-1 ITEM NOMENCLATURE

0460: Operational Test and Evaluation, Defense

PE 0605131OTE: Live Fire Test and Evaluation (LFT&E)

DATE: February 2011

BA 6: RDT&E Management Support

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	12.234	12.899	12.126	-	12.126	11.982	12.349	13.235	14.578	Continuing	Continuing
1: OT&E	12.234	12.899	12.126	-	12.126	11.982	12.349	13.235	14.578	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (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 and foreign threat 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 program and test report is required before programs proceed beyond low-rate initial production (BLRIP). LFT&E also includes realistic modeling and simulation 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.

This program element also supports DoD's Joint Live Fire (JLF) Program and other LFT&E related initiatives. JLF was begun in 1984 under an Office of the Secretary of Defense charter to test fielded front-line combat aircraft and armor systems for their vulnerabilities as well as fielded weapons, both U.S. and foreign, for their lethalities against their respective targets. Funds are also used to support other initiatives related to quick reaction requests from theater and other areas of personnel survivability.

This program element includes funds to obtain Federally Funded Research and Development Center expertise in performing analyses in support of described tasks, as well as travel funds to carry out the LFT&E program.

This program was reduced in FY 2012 and the outyears as part of the Secretary's Task Force on Efficiencies.

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Operational Test and Evaluation, Defense

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0460: Operational Test and Evaluation, Defense

PE 06051310TE: Live Fire Test and Evaluation (LFT&E)

DATE: February 2011

BA 6: RDT&E Management Support

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	12.234	12.899	13.661	-	13.661
Current President's Budget	12.234	12.899	12.126	-	12.126
Total Adjustments	-	-	-1.535	-	-1.535
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		_			
 Congressional Rescissions 	-	_			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Funding to Support Underbody Blast 	-	-	-1.000	-	-1.000
Testing					
Cost Efficiency Reduction	-	-	-0.535	-	-0.535

Exhibit R-2A, RDT&E Project Justification: PB 2012 Operational Test and Evaluation, Defense									DATE: Febr	ruary 2011	
APPROPRIATION/BUDGET ACTI 0460: Operational Test and Evalua BA 6: RDT&E Management Suppo	nal Test and Evaluation, Defense PE 06051310TE: Live Fire Test and Evaluation 1				PROJECT 1: OT&E						
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1: OT&E	12.234	12.899	12.126	-	12.126	11.982	12.349	13.235	14.578	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This Program Element (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 threat 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 program and test report is required before programs proceed beyond low-rate initial production (BLRIP). LFT&E 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.

This program element also supports DoD's Joint Live Fire (JLF) Program and other LFT&E related initiatives. JLF was begun in 1984 under an Office of the Secretary of Defense (OSD) charter to test fielded front-line combat aircraft and armor systems for their vulnerabilities as well as fielded weapons, both U.S. and foreign, for their lethalities against their respective targets. Funds are also used to support other initiatives related to quick reaction requests from theater and other areas of personnel survivability.

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

This program was reduced in FY 2012 and the outyears as part of the Secretary's Task Force on Efficiencies.

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.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Live Fire Test and Evaluation	12.234	12.899	12.126
FY 2010 Accomplishments: Major Test and Evaluation Programs			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Operational T	Test and Evaluation, Defense		DATE: F		
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 06051310TE: Live Fire Test and Evaluation (LFT&E)	PROJECT 1: OT&E			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
The FY 2010 budget provided Live Fire Test and Evaluation input for Acquisition Reports, Defense Acquisition Executive Summary reports oversight by DOT&E and OUSD(AT&L). The oversight list is developed JLF Programs and LFT&E Initiatives Conducted tests of fielded systems not previously tested under Air, L warfighter needs. The need for these tests result from systems being or being operated in new combat environments, and the subsequent support and partner with the Joint Improvised Explosive Device Defe directly support deployed warfighters and issues of importance to the helmets. Supported helicopter survivability efforts of the Department the combat theater. Completed an initiative to investigate aortic injur NASA as part of Occupant Casualty initiatives. Continued to perform JLF projects to provide survivability data on curvulnerabilities of aircraft to man-portable air defense systems (MANF accurately take into account vulnerabilities to MANPADS fragments a engine vulnerability to MANPADS, including hit point analyses and modeling to investigate the vulnerability of vehicles to new threats from theater targets, as well as improving modeling and simulation tools by provide key components of alternatives to traditional shock trials of ships and the areas of commercial standards and specific designs, equipment at LFT&E published the following special reports during FY 2010:	s, and BLRIP reports for those programs designated for ped and approved annually. Land, or Sea Joint Live Fire programs to support DOT greep exposed to new threats, used in new unanticipated a need for an assessment of their performance. Continuated Organization (JIEDDO). Addressed urgent requests are Congress in the areas of personnel body armor and to recommend quickly fielded survivability improvements in partnership with OUSD (Personnel and Readin PADS). Projects are updating models and simulation and debris as well as blast. JLF Air continued work on his distance measurements. JLF Land projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data. JLF Sea projects continued to definity of U.S. weapons against typical in-the ding validation data.	&E and tactics, nued to sts that combat ents to ess) and gated to more n large inued heater evelop	FY 2010	FY 2011	FY 2012
 Assessment of the Mine Resistant Ambush Protected (MRAP) Fan Operational and Live Fire Report of the M915A5 Truck Tractor, Lin Live Fire and Operational Test and Evaluation Report on the Mine (M-ATV) Hard Body Armor Phase II and Phase II Follow-on Test and Evaluation 	ne Haul Resistant Ambush Protected (MRAP) – All Terrain Ve	ehicle			
FY 2011 Plans: Major Test and Evaluation Programs	•				

	UNCLASSII ILD				
Exhibit R-2A, RDT&E Project Justification: PB 2012 Operational Tes	t and Evaluation, Defense		DATE: Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605131OTE: Live Fire Test and Evaluation (LFT&E)	PROJECT 1: OT&E			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012
This is a continuing effort. The FY 2011 budget provides Live Fire Test Plans, Test Plans, System Acquisition Reports, Defense Acquisition Exprograms designated for oversight by DOT&E and OUSD(AT&L). The CULT Programs and LFT&E Initiatives	ecutive Summary reports, and BLRIP reports for the				
Conduct tests of fielded systems not previously tested under Air, Land,					
warfighter needs. The need for these tests result from systems being e or being operated in new combat environments, and the subsequent ne continue to support and partner with the Joint Trauma Analysis and Pre efforts in support of Personnel Protection Equipment, including combat requests that directly support deployed warfighters and issues of import	eed for an assessment of their performance. As ne evention of Injury in Combat (JTAPIC) program. Co helmets and body armor. Continue to address un	cessary, ontinue			
Continue to perform JLF projects to provide survivability data on current investigation of an emerging threat first seen in a CH 47 combat incident engine nacelle vulnerability reduction techniques, as well as generic vul arms, and the performance of self sealing fuel tanks using bio-fuels. JL of vehicles to underbody blast and the lethality of U.S. weapons against and simulation tools by providing validation data. JLF Sea projects will to traditional shock trials of ships and submarines, will continue to investandards, equipment and component damage, and will investigate vuln	nt, test the vulnerability of sponsons to RPGs, evaluation and the sponsons to RPGs, evaluation and the sponsor of the sponsor	uate mall nerability odeling es al			
FY 2012 Plans: Major Test and Evaluation Programs					
This is a continuing effort. The FY 2012 budget provides Live Fire Test Plans, Test Plans, System Acquisition Reports, Defense Acquisition Exprograms designated for oversight by DOT&E and OUSD(AT&L). The o	ecutive Summary reports, and BLRIP reports for the				
JLF Programs					
					1

Exhibit R-2A, RDT&E Project Justification: PB 2012 Operational Test and Evaluation, Defense

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

0460: Operational Test and Evaluation, Defense

PE 0605131OTE: Live Fire Test and Evaluation 1: OT&E

BA 6: RDT&E Management Support

(LFT&E)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Conduct tests of fielded systems not previously tested under Air, Land, or Sea Joint Live Fire programs to support DOT&E and warfighter needs. The need for these tests result from systems being exposed to new threats, used in new unanticipated tactics, or being operated in new combat environments, and the subsequent need for an assessment of their performance. As necessary continue to support and partner with the JTAPIC. Continue initiatives with crew survivability. Address urgent requests that directly support deployed warfighters and issues of importance to the Congress.			
Accomplishments/Planned Programs Subtotals	12.234	12.899	12.126

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance Measure: 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. 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.

Actual Performance and Goals:

Live Fire Testing

FY 2010 (Actual)

FY 2011 (Goal)

FY 2012 (Goal)

On-Time Completion Rate

94%

95%

96%

The on-time completion rate was computed on the basis of the number of beyond low-rate initial production live fire test and evaluation reports, Joint Live Fire Quick Look Reports, and Joint Live Fire Test reports that were submitted within established time standards relative to the total number of such products that fell due during the fiscal year. DOT&E plans to achieve its goals for FY 2011 and FY 2012 through continued management emphasis on timely delivery of required reports to customer activities.