Exhibit R-2, RDT&E Budget Item Justification: PB 2014 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: April 2013

BA 6: RDT&E Management Support

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	12.126	49.201	48.423	-	48.423	49.587	50.255	51.306	52.440	Continuing	Continuing
1: <i>LFT&E</i>	-	12.126	49.201	48.423	-	48.423	49.587	50.255	51.306	52.440	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This Program Element consists of three programs: Live Fire Test and Evaluation, Joint Aircraft Survivability Program (JASP), and Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME). Starting in FY 2013 the JASP and JTCG/ME programs are realigned from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program element (0605131OTE). The JASP and JTCG/ME programs focus on the survivability of currently fielded systems; therefore, the two programs are more appropriately funded within the Live Fire Test and Evaluation program element.

This Program Element 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.

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.

The Joint Aircraft Survivability Program is the DoD's focal point for joint service enhancement of military aircraft non-nuclear survivability. The JASP is chartered by the commanders of the USN Naval Air Systems Command, USA Aviation and Missile Command and USAF Aeronautical Systems Center to coordinate and conduct RDT&E to improve military aircraft survivability, develop and standardize aircraft survivability modeling and simulation (M&S), facilitate information exchange on aircraft survivability and support aircraft survivability education for the DoD and U.S. aircraft community. Each chartering command provides a senior aircraft survivability expert for the JASP Principal Members Steering Group (PMSG), which guides the program and approves projects for funding. The JASP assesses and reports on combat damage incidents through the Joint Combat Assessment Team (JCAT), is the Executive Agent for the Joint Live Fire Aircraft Systems Program managed by the Live Fire Test office of DOT&E and is also an Executive Agent for the Survivability Information Analysis Center (SURVIAC), the repository for aircraft survivability information.

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Operational Test and Evaluation, Defense

R-1 ITEM NOMENCLATURE

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY
0460: Operational Test and Evaluation. Defense

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

BA 6: RDT&E Management Support

The Joint Logistics Commanders Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) was chartered more than 40 years ago to serve as DoD's focal point for munitions effectiveness information. This has taken the form of widely used Joint Munitions Effectiveness Manuals (JMEMs) which address all major non-nuclear U.S. weapons. JTCG/ME authenticates weapons effectiveness data for use in training, systems acquisition, weapon procurement, and combat modeling and simulation. JMEMs are used by the Armed Forces of the U.S., NATO, and other allies to plan operational missions, support training and tactics development, and support force-level analyses. JTCG/ME also develops and standardizes methodologies for evaluation of munitions effectiveness and maintains databases for target vulnerability, munitions lethality, and weapon system accuracy. The JMEM requirements and development processes continues to be driven by operational lessons learned (Enduring Freedom, Iraqi Freedom, and Odyssey Dawn) and the needs of Combatant Commands, Services, Military Targeting Committee, and Operational Users Working Groups input for specific weapon-target pairings and methodologies.

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

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. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	12.126	49.201	48.423	-	48.423
Current President's Budget	12.126	49.201	48.423	-	48.423
Total Adjustments	0.000	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			

Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2014 (Operational ⁻	Test and E	valuation, D	efense				DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT 0460: Operational Test and Evalu BA 6: RDT&E Management Supp	ation, Defe	nse					ATURE Fire Test a		PROJECT 1: LFT&E			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	· /	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
1: <i>LFT&E</i>	-	12.126	49.201	48.423	-	48.423	49.587	50.255	51.306	52.440	Continuing	Continuing
Quantity of RDT&E Articles												

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

This Program Element consists of three programs: Live Fire Test and Evaluation, Joint Aircraft Survivability Program (JASP) and Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME). Starting in FY 2013 the JASP and JTCG/ME programs are realigned from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program element (0605131OTE). The JASP and JTCG/ME programs focus on the survivability of currently fielded systems; therefore, the two programs are more appropriately funded within the Live Fire Test and Evaluation program element.

This Program Element 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.

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.

The Joint Aircraft Survivability Program is the DoD's focal point for joint service enhancement of military aircraft non-nuclear survivability. The JASP is chartered by the commanders of the USN Naval Air Systems Command, USA Aviation and Missile Command and USAF Aeronautical Systems Center to coordinate and conduct RDT&E to improve military aircraft survivability, develop and standardize aircraft survivability modeling and simulation (M&S), facilitate information exchange on aircraft survivability and support aircraft survivability education for the DoD and U.S. aircraft community. Each chartering command provides a senior aircraft survivability expert for the JASP Principal Members Steering Group (PMSG), which guides the program and approves projects for funding. The JASP assesses and reports on combat damage incidents through the Joint Combat Assessment Team (JCAT), is the Executive Agent for the Joint Live Fire Aircraft Systems Program managed by the Live Fire Test office of DOT&E and is also an Executive Agent for the Survivability Information Analysis Center (SURVIAC), the repository for aircraft survivability information.

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test and E	valuation, Defense		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0460: Operational Test and Evaluation, Defense	PE 0605131OTE: Live Fire Test and	1: <i>LFT&E</i>	
BA 6: RDT&E Management Support	Evaluation (LFT&E)		

The Joint Logistics Commanders Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) was chartered more than 40 years ago to serve as DoD's focal point for munitions effectiveness information. This has taken the form of widely used Joint Munitions Effectiveness Manuals (JMEMs) which address all major non-nuclear U.S. weapons. JTCG/ME authenticates weapons effectiveness data for use in training, systems acquisition, weapon procurement, and combat modeling and simulation. JMEMs are used by the Armed Forces of the U.S., NATO, and other allies to plan operational missions, support training and tactics development, and support force-level analyses. JTCG/ME also develops and standardizes methodologies for evaluation of munitions effectiveness and maintains databases for target vulnerability, munitions lethality, and weapon system accuracy. The JMEM requirements and development processes continues to be driven by operational lessons learned (Enduring Freedom, Iraqi Freedom, and Odyssey Dawn) and the needs of Combatant Commands, Services, Military Targeting Committee, and Operational Users Working Groups input for specific weapon-target pairings and methodologies.

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

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 2012	FY 2013	FY 2014
Title: Live Fire Test and Evaluation	12.126	49.201	48.423
Description: This Program Element consists of three programs: Live Fire Test and Evaluation, Joint Aircraft Survivability Program (JASP) and Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME). Starting in FY 2013 the JASP and JTCG/ME programs are realigned from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program element (0605131OTE). The JASP and JTCG/ME programs focus on the survivability of currently fielded systems; therefore, the two programs are more appropriately funded within the Live Fire Test and Evaluation program element.			
FY 2012 Accomplishments: Live Fire Test and Evaluation Major Test and Evaluation Programs			
The FY 2012 budget provided Live Fire Test and Evaluation input for Test and Evaluation Master Plans, Test Plans, System Acquisition Reports, Defense Acquisition Executive Summary reports, and Beyond Low Rate Initial Production (BLRIP) reports for those programs designated for oversight by DOT&E and OUSD(AT&L). The oversight list is developed and published annually.			
JLF Programs and LFT&E Initiatives			
Conducted tests of fielded systems not previously tested under Air, Land, or Sea Joint Live Fire programs to support DOT&E and operator needs. The need for these tests results from systems being exposed to new threats, used in new unanticipated			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational To	est and Evaluation, Defense		DATE:	April 2013	
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)	PROJE 1: LFT&			
B. Accomplishments/Planned Programs (\$ in Millions)	·		FY 2012	FY 2013	FY 2014
tactics, or being operated in new combat environments, and the subsiver continued in support of Personnel Protection Equipment, includice addressed that directly support deployed operators and issues of import of projects were performed to provide survivability data on currently emerging threat first seen in a CH 47 combat incident, tested the vulnicated vulnerability reduction techniques, as well as evaluated techniqueration are to MANPADS, small arms, and the performance of some the effect of yawed projectiles and missile debris on aircraft vulnerability a comparison of commonly used test threats. JLF Land projects invested in the lethality of U.S. weapons against typical in-theater targets, and validation data. JLF personnel studied the use and validity of maniking used in modeling and simulation. JLF Sea projects developed key coand submarines, continued to investigate ship vulnerabilities in the and damage, and investigated vulnerabilities of designs and components. Joint Aircraft Survivability Program (JASP) (Funded within PE 060581 In FY 2012 the JASP continued work on 33 multi-year RDT&E project Principal Members Steering Group and OSD/DOT&E. In the area of the effectiveness and reducing the space, weight and power required countermeasures technology and techniques, integrated aircraft survivaries of vulnerability reduction, the JASP continued to address require technology (e.g., armor, fuel containment, fire suppression, and aircraft survivaries of vulnerability reduction, the JASP continued to improve survisurvivability data, integrate DIA threat missile models into threat engal passenger injuries, and address M&S requirements identified by the juncions documenting efforts accomplished in FY 2012. The JCAT continued to support the Air Force, Army, Marine Corps and operators on threat effects and combat damage assessment, and republic pools are continued to support the Air Force, Army, Marine Corps and operators on threat effects and combat damage assessment, and republic pools and conducting training	ing combat helmets and body armor. Urgent requests variance to the Congress as they arise. If fielded U.S. systems. JLF Air projects investigated an herability of sponsons to RPGs, and evaluated engine ologies/techniques to reduce generic vulnerabilities to a elf-sealing fuel tanks using bio-fuels. Projects investigated lity, the vulnerability of turboprop engines, and performs stigated the vulnerability of vehicles to underbody blast and improved modeling and simulation tools by providing ans, helmets, and improvements to material characteristic emponents of alternatives to traditional shock trials of shoreas of commercial standards, equipment and compone for new ships. 14OTE) Its and initiated 26 new projects approved by the JASP susceptibility reduction, the JASP addressed improving for directed energy infrared countermeasures, electron inability equipment, and aircrew situational awareness. The ements for lighter and more effective vulnerability reduction and passenger protection). In aircraft survivability inability M&S credibility, address operator requirements agement codes, improve the assessment of aircrew and oint aircraft survivability community. The JASP comple and Navy by assessing combat damage incidents, training for the properties of the properties and the protein of the properties of the properties and the protein of the properties are properties and the protein of the properties and the protein of the properties are properties and the properties are properties and the properties are properties and the properties are prop	ic In the tion for ted 39			

PE 06051310TE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational	Test and Evaluation, Defense		DATE:	April 2013	
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)	PROJ 1: <i>LF</i>			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
Joint Technical Coordinating Group for Munitions Effectiveness (JTC	CG/ME)				
JTCG/ME Joint Munitions Effectiveness Manual Weaponeering Syst the Joint Chiefs of Staff Instruction (CJCSI) 3160.01 Collateral Effect and collateral damage estimation calls in direct support of operations. To provide continued support to operational commanders, DoD target various analytical and operational methodologies and target geomet to-air planning model, the Joint-Antiair Combat Effectiveness Systems survivability data.	ets Radii (CER) tables were used for operational wea is in the AFRICOM and CENTCOM Areas of Respon eteers, weaponeers, and planners, the JTCG/ME de tric models. Additionally JTCG/ME's air-to-air and s	poneering sibilities. veloped urface-			
JWS v2.1 contains the Fast Integrated Structural Tool (FIST). FIST the integral modules from the Building Analysis Module (BAM) and I that generates weapon effectiveness and damage assessments aga tunnels. In addition, JWS v2.1 contains approximately 180 new/upo Equivalent Weights based on blast testing, and an improved 3-D vie	Hardened Target Module (HTM) to create a merged to ainst infrastructure targets to include buildings, bunke dated targets, 15 new/updated munitions, new Explo	tool ers, and			
J-ACE v5.1simulates air-to-air and surface-to-air engagements. Blu Red and Gray surface-to-air missile (SAM) flyout models are include releases have provided pre-computed tables of probability of kill give engagement conditions. Because these tables proved tedious in the Manager" (EM) v2.2.0 software and data sets. EM allows "on-dema conditions encountered at intercept. To more effectively support ope J-ACE v5.1 release also provides a direct interface to force level sime evaluation, relative missile performance and scenario planning.	ed. Probability-of-kill estimates are also provided. Pren an intercept for selected weapon-target pairings are use, J-ACE v5.1 now provides the new "Endgame and" calculation of multiple kill levels for specific engal erational mission planning, particularly at USSTRATO	evious and e gement COM, the			
In support of the Combatant Commands and the CJCSI 3160.01, JT systems. In addition, the JTCG/ME supported the Digital Precision 5 tool for operational use. This tool displays accredited Collateral Dan tables. Additionally, JTCG/ME trained nearly 250 users at 10 different decisions.	Strike Suite (DPSS) Collateral Damage Estimation (Image Estimate Level 1-5 A-C series effective radii re	DCiDE) ference			
The JTCG/ME assessed fielded and emerging Information Operation Based Operations (EBO) evaluation capability set. The scope includes					

PE 06051310TE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational	Test and Evaluation, Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT 1: LFT&			
0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	PE 0605131OTE: Live Fire Test and Evaluation (LFT&E)	1. LF I &			
B. Accomplishments/Planned Programs (\$ in Millions)	,		FY 2012	FY 2013	FY 2014
data development and providing operational tools for the IO element Military Information Support Operations (MISO) and Electronic Warfalevel data are critical enablers for application of these weapons as it develop policy and concepts of operations for their use.	are. This weapon effectiveness and associated confide	ense, ence			
FY 2013 Plans: Live Fire Test and Evaluation Major Test and Evaluation Programs					
This is a continuing effort. The FY 2013 budget provides Live Fire T Plans, Test Plans, System Acquisition Reports, Defense Acquisition programs designated for oversight by DOT&E and OUSD(AT&L).	Executive Summary reports, and BLRIP reports for tho				
JLF Programs and LFT&E Initiatives					
Conduct tests of fielded systems not previously tested under Air, Lar operator needs. The need for these tests results from systems being or being operated in new combat environments, and the subsequent efforts in support of Personnel Protection Equipment, including combrequests that directly support deployed operators and issues of important process.	g exposed to new threats, used in new unanticipated ta t need for an assessment of their performance. Continuous to bat helmets and body armor. Continue to address urge	ctics, ue			
Perform JLF projects to provide survivability data on currently fielded generic technologies and techniques to decrease vulnerabilities to a performance of self sealing fuel tanks using bio-fuels. New projects vulnerabilities. JLF Land projects continue to investigate the vulnera U.S. weapons against typical in-theater targets, as well as improving New projects are studying helmets and improvements to material ch projects continue to develop key components of alternatives to tradit vulnerabilities in the areas of commercial standards, equipment and components for new ships.	Il aircraft, such as to MANPADS, small arms, and the are investigating the munitions and aircraft fire and expability of vehicles to underbody blast and the lethality of modeling and simulation tools by providing validation aracteristics used in modeling and simulation. JLF Seational shock trials of ships and submarines, to investigation	data. ate ship			
Joint Aircraft Survivability Program (JASP)					
In FY 2013 the JASP will continue work on at least 34 multi-year RD the JASP Principal Members Steering Group and OSD/DOT&E. In t		SS			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational	Test and Evaluation, Defense		DATE:	April 2013	
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: LFT&E			
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014
improving the effectiveness and reducing the space, weight and powelectronic countermeasures technology and techniques, and aircrew the JASP will continue to address requirements for lighter and more containment, fire suppression, and aircrew and passenger protection improve survivability M&S credibility, address operator requirements threat engagement codes, improve the assessment of aircrew and p by the joint aircraft survivability community.	v situational awareness. In the area of vulnerability red effective vulnerability reduction technology (e.g., armon). In aircraft survivability M&S, the JASP will continue of for survivability data, integrate DIA threat missile modes.	ures, duction, or, fuel e to dels into			
The JCAT will continue to support the Air Force, Army, Marine Corporators on threat effects and combat damage assessment, and re DoD science and technology and acquisition communities. The JAS and information exchange through internet sites (restricted access a developing educational materials and conducting training for the Dol complete other projects as approved by the JASP Principal Member	eporting their findings to combatant commanders and the SP will continue supporting aircraft survivability education and classified), by publishing the Aircraft Survivability JD and their contractors. The JASP will initiate, continution	he ion ournal,			
Joint Technical Coordinating Group for Munitions Effectiveness (JTC	CG/ME)				
In support of operational commanders, DoD targeteers, weaponeers Weaponeering System (JWS) v2.1.1 and the Joint-Antiair Combat E FY13.		in			
JWS v2.1.1 will add new weapons and their delivery accuracy data. and follow-on enhancements to the Fast Integrated Structural Tool (Weapons Model (JSWM). JSWM is an effectiveness simulation inte is a many submunitions-on-many targets model used to evaluate sm results of simple algorithms and inputs. Finally, based upon inputs Centers, classification markings on various targets will be updated.	FIST). Additionally it will address upgrades to the Join anded for the analysis of smart submunition weapons. The nart submunitions to determine effectiveness based on	nt Smart JSWM n the			
J-ACE v5.2 will provide extended and updated data sets for missile and air target vulnerability. In particular, initial data sets in support of Team will be included. J-ACE v5.2 will also field the initial methodol system performance against Radio Frequency guided threat surface several years of increasing J-ACE capability to quantitatively evaluate operational analysis of air combat effectiveness.	of the F-35 Lightning Joint Strike Fighter Joint Operatio logy and data for evaluation selected US countermeas e-to-air missile. This is the first of what is expected to b	onal Test sure			

PE 06051310TE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test and	Evaluation, Defense		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	PE 0605131OTE: Live Fire Test and	1: <i>LFT&E</i>			
BA 6. RD I &E Management Support	Evaluation (LFT&E)				
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2012	FY 2013	FY 2014
In support of Combatant Commands and the CJCSI 3160.01, JTCG/ME will on newly fielded systems. JTCG/ME will also continue to monitor the DCiDE too that subsequent versions of DCiDE accurately reflect the latest JTCG/ME accupopulation density factors and associated user input. The DCiDE tool will ever estimation on JWS.	ol configuration management process to ensure credited tables; Combatant Command specified				
JTCG/ME will develop JMEM data for most critical Combatant Commander in cycles through incremental updates. Accreditation of tri-Service JMEM opera existing databases to incorporate newly fielded weapons (i.e., Air-to-Surface, Finally providing connectivity to real time planning systems assessing time see	ational tools will continue as well as expanding Surface-to-Surface Direct/Indirect Fire, and An				
FY 2014 Plans: Live Fire Test and Evaluation Major Test and Evaluation Programs					
This is a continuing effort. The FY 2014 budget provides Live Fire Test and I Plans, Test Plans, System Acquisition Reports, Defense Acquisition Executive programs designated for oversight by DOT&E and OUSD(AT&L). The oversight programs designated for oversight by DOT&E and OUSD(AT&L).	ve Summary reports, and BLRIP reports for thos				
JLF Programs					
Conduct tests of fielded systems not previously tested under Air, Land, or Se warfighter needs. The need for these tests result from systems being expose or being operated in new combat environments, and the subsequent need fo address urgent requests that directly support deployed warfighters and issue	ed to new threats, used in new unanticipated tac r an assessment of their performance. Projects	tics,			
Joint Aircraft Survivability Program (JASP)					
In FY 2014 the JASP will continue work on at least 33 multi-year RDT&E projudes Principal Members Steering Group and OSD/DOT&E. In the area of simproving the effectiveness and reducing the space, weight and power require electronic countermeasures technology and techniques, aircrew situational a of vulnerability reduction, the JASP will continue to address requirements for technology (e.g., armor, fuel containment, fire suppression, and aircrew and	usceptibility reduction, the JASP will address red for directed energy infrared countermeasure wareness and urgent operator needs. In the ar- lighter and more effective vulnerability reduction	ea n			

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014
the JASP will continue to improve survivability M&S credibility, address threat missile models into threat engagement codes, improve the as M&S requirements identified by the joint aircraft survivability community.	sessment of aircrew and passenger injuries, and add				
The JCAT will continue to support the Air Force, Army, Marine Corps operators on threat effects and combat damage assessment, and re DoD science and technology and acquisition communities. The JAS and information exchange through internet sites (restricted access a developing educational materials and conducting training for the DoI complete other projects as approved by the JASP Principal Members	eporting their findings to combatant commanders and SP will continue supporting aircraft survivability educa and classified), by publishing the Aircraft Survivability D and their contractors. The JASP will initiate, contin	the tion Journal,			
Joint Technical Coordinating Group for Munitions Effectiveness (JTC	CG/ME)				
In support of operational commanders, DoD targeteers, weaponeers Weaponeering System (JWS) v2.2 and Joint-Antiair Combat Effective					
JWS v2.2 efforts will include connectivity (Mission Planning & Collate Additional updates will include an export to Microsoft software capable in JWS will be provided along with enhanced bomb-burial methodological analysis will be used to enable development of code that is easy to r in unit testing.	pilities. Improvements on the JWS Parameterization ogy and small precision methodology. Lastly McCabe	Routine module			
J-ACE v5.3 will continue to field and add Browse descriptive material expand Suite of Anti-air Kill-chain Models and Data (SAK-MD) capable aircraft target aero-performance, antiair missile lethality and air target JAAM. Additionally, data sets in support of the F-35 Lightning Joint extended data for evaluation of US countermeasure system perform missile, and initial capability for evaluation of US countermeasure sy AAM.	bility; and update existing weapons and aircraft missi et vulnerability required by the operational community Strike Fighter Joint Operational Test Team will be inc lance against Radio Frequency guided threat surface	e and in luded, to air			
JTCG/ME will continue to develop a predictive capability to assess be synergism and incorporate these mechanisms in the JTCG/ME estin JTCG/ME will expand the use of computational physics to improve to	nation process for small precision weapons. Further	nore,			

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

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R-1 Line #2

Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test and Evaluation, Defense

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

PROJECT

0460: Operational Test and Evaluation, Defense PE 06051310TE: Live Fire Test and 1: LFT&E

BA 6: RDT&E Management Support Evaluation (LFT&E)

B. Accomplishments/Planned Programs (\$ in Millions)

development and the characterization of weapons addressing blast interactions with structures, weapon fragmentation, and penetration mechanics.

Accomplishments/Planned Programs Subtotals

12.126 49.201 48.423

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

(U) PERFORMANCE METRICS:

Performance Measure: Percentage of required live fire test planning documents, assessments, munition effectiveness manuals, 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 Test and Evaluation FY 2012 (Actual) FY 2013 (Goal) FY 2014 (Goal) On-Time Completion Rate 93% 94% 95%

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 2013 and FY 2014 through continued management emphasis on timely delivery of required reports to customer activities.

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