Department of Defense Fiscal Year (FY) 2013 President's Budget Submission

February 2012



Operational Test and Evaluation, Defense

Justification Book

Operational Test and Evaluation, Defense

OT&E

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Operational Test and Evaluation, Defense • President's Budget Submission FY 2013 • RDT&E Program

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Department of Defense FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Appropriation	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Operational Test & Eval, Defense	192,094	188,037		188,037
Total Research, Development, Test & Evaluation	192,094	188,037		188,037

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

Department of Defense FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

	FY 2013	FY 2013	FY 2013
Appropriation	Base	OCO	Total
5.5 x x x x x x x x x x x x x x x x x x			
Operational Test & Eval, Defense	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

Department of Defense FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Summary Recap of Budget Activities	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
RDT&E Management Support	192,094	188,037		188,037
Total Research, Development, Test & Evaluation	192,094	188,037		188,037
Summary Recap of FYDP Programs				
Research and Development	192,094	188,037		188,037
Total Research, Development, Test & Evaluation	192,094	188,037		188,037

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

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Department of Defense FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Summary Recap of Budget Activities	FY 2013 Base	FY 2013 OCO	FY 2013 Total
RDT&E Management Support	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268
Summary Recap of FYDP Programs			
Research and Development	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

Defense-Wide FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Summary Recap of Budget Activities	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
RDT&E Management Support	192,094	188,037		188,037
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Summary Recap of FYDP Programs				
Research and Development	192,094	188,037		188,037
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R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

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Defense-Wide FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Summary Recap of Budget Activities	FY 2013 Base	FY 2013 OCO	FY 2013 Total
RDT&E Management Support	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268
Summary Recap of FYDP Programs			
Research and Development	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

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Defense-Wide FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Appropriation: 0460D Operational Test & Eval, Defense

Line No	Program Element Number	Item	Act	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total	S e c
1	06051180TE Operat	tional Test and Evaluation	06	59,125	60,444		60,444	U
2	06051310TE Live 1	Fire Test and Evaluation	06	12,834	12,126		12,126	U
3	06058140TE Operat	tional Test Activities and Analyses	06	120,135	115,467		115,467	U
	RDT&E Manage	ement Support		192,094	188,037		188,037	
Tota	l Operational Test	t & Eval, Defense		192,094	188,037	********	188,037	

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

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Defense-Wide FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority (Dollars in Thousands)

24 Jan 2012

Appropriation: 0460D Operational Test & Eval, Defense

	Program						S
Line	Element			FY 2013	FY 2013	FY 2013	е
No	Number	Item	Act	Base	000	Total	С
							-
1	06051180TE Operat	ional Test and Evaluation	06	72,501		72,501	υ
2	06051310TE Live H	Fire Test and Evaluation	06	49,201		49,201	U
3	06058140TE Operat	tional Test Activities and Analyses	06	63,566		63,566	U
	RDT&E Manage	ement Support		185,268		185,268	
Tota	l Operational Test	. & Eval. Defense		185,268	*********	185,268	
				200/200		2007200	

R-1C: FY 2013 President's Budget (Published Version), as of January 24, 2012 at 14:54:22

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Operational Test and Evaluation, Defense • President's Budget Submission FY 2013 • RDT&E Program

Program Element Table of Contents (by Budget Activity then Line Item Number)

Budget Acti Appropriatio	3udget Activity 06: RDT&E Management Support Appropriation 0460: Operational Test and Evaluation, Defense									
Line Item	Budget Activity	Program Element Number	Program Element Title Page	Э						
1	06	0605118OTE	Operational Test and Evaluation	1						
2	06	0605131OTE	Live Fire Test and Evaluation	7						
3	06	0605814OTE	Operational Test Activities and Analyses	5						

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Operational Test and Evaluation, Defense • President's Budget Submission FY 2013 • RDT&E Program

Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line Item	Budget Activity Page
Live Fire Test and Evaluation	0605131OTE	2	06
Operational Test Activities and Analyses	0605814OTE	3	06 15
Operational Test and Evaluation	0605118OTE	1	06 1

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation,						ense			DATE: Febr	uary 2012	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0605118OTE: Operational Test and Evaluation							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	59.125	60.444	72.501	-	72.501	73.546	75.620	78.232	80.688	Continuing	Continuing
0605118OTE: Operational Test and Evaluation	59.125	60.444	72.501	-	72.501	73.546	75.620	78.232	80.688	Continuing	Continuing

Note

As a result of the Department's recognition of the importance of enhanced cyber assessment capabilities, additional resources were added in fiscal year 2013.

A. Mission Description and Budget Item Justification

The Director of Operational Test and Evaluation (DOT&E) was created by Congress in 1983. The Director is responsible under Title 10 for policy and procedures for all aspects of Operational Test and Evaluation (OT&E) within the Department of Defense (DoD). Particular focus is given to OT&E that supports major weapon system production decisions for acquisition programs included on the Office of Secretary of Defense Test and Evaluation Oversight List that is prepared and approved annually. Generally, there are about 300 programs on the oversight list including all Major Defense Acquisition Programs (MDAP) and Major Automated Information Systems (MAIS). MDAPs may not proceed beyond low-rate initial production (BLRIP) until OT&E of the program is complete. DOT&E is involved early in the planning phase of each program to ensure adequate testing is planned and executed. Key elements of DOT&E's oversight authority include:

- The approval of component Test and Evaluation Master Plans (TEMPS).

- The approval of component OT&E Test Plans.

- Oversight of Military Department preparation and conduct of field operational tests; analysis and evaluation of the resultant test data; the assessment of the adequacy of the executed test and evaluation programs; and assessment of the operational effectiveness and suitability of the weapon systems.

- Reporting results of OT&E that support BLRIP decisions to the Secretary of Defense and Congress, as well as providing an annual report summarizing all OT&E activities and the adequacy of test resources within DoD during the previous fiscal year.

DOT&E also oversees and resources OT&E community efforts to plan and execute joint operational evaluations of information assurance and interoperability of fielded systems and networks during major Combatant Command (COCOM) and Service exercises, and reports the trends and findings in the annual report. As a result of the Department's recognition of the importance of enhanced cyber assessment capabilities, additional resources were added in fiscal year 2013. These enhancements will include expanded threat assessments of the advanced cyber adversary, more representative portrayal of the cyber adversary by Red Teams, and improvements to the Joint Information Operations Range that will support more operationally realistic and threat representative assessment and training events.

This Program Element includes funds to obtain Federally Funded Research and Development Center (FFRDC) support in performing the described tasks, travel funds to carry out oversight of the OT&E program, funds for Service teams performing information assurance and interoperability assessments during exercises, administrative and financial support services, and engineering and technical support services related to the conduct of operational test and evaluation.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation, Defense						
R-1 ITEM N PE 0605118	DMENCLATURE OTE: Operational	Test and Evaluation				
011 F`	<u> 2012 FY</u>	2013 Base F	Y 2013 (<u> </u>	Y 2013 Total	
130	60.444	62.695		-	62.695	
125	60.444	72.501		-	72.501	
305	-	9.806		-	9.806	
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
-	-					
305	-	-		-	-	
-	-	1.956		-	1.956	
-	-	7.850		-	7.850	
	est and Evalu R-1 ITEM NO PE 0605118 D11 FN 300 (0 25 (0 305 - - - - - - - - - - - - -	Est and Evaluation, Defense R-1 ITEM NOMENCLATURE PE 0605118OTE: Operational PE 0605118OTE: Operational PI1 FY 2012 FY 30 60.444 5 60.444 25 60.444 605 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Fer and Evaluation, Defense R-1 ITEM NOMENCLATURE PE 0605118OTE: Operational Test and Evaluation One of the second	Frequencies Perform Perform <td>Item Nomenclature Date: Februar PE 0605118OTE: Operational Test and Evaluation FY 2013 OCO F 11 FY 2012 FY 2013 Base FY 2013 OCO F 30 60.444 62.695 - - 30 60.444 72.501 - - 305 - 9.806 - - - - - - - - -</td>	Item Nomenclature Date: Februar PE 0605118OTE: Operational Test and Evaluation FY 2013 OCO F 11 FY 2012 FY 2013 Base FY 2013 OCO F 30 60.444 62.695 - - 30 60.444 72.501 - - 305 - 9.806 - - - - - - - - -	

Change Summary Explanation

As a result of the Department's recognition of the importance of enhanced cyber assessment capabilities, additional resources (\$7.850 million) were added in fiscal year 2013.

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense								DATE: February 2012			
APPROPRIATION/BUDGET ACTIV 0460: Operational Test and Evaluation BA 6: RDT&E Management Support	I TY on, Defense		R-1 ITEM NOMENCLATURE PROJECT PE 0605118OTE: Operational Test and 0605118OTE: Operational Test Evaluation 0605118OTE: Operational Test				nal Test and	Evaluation			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
0605118OTE: Operational Test and Evaluation	59.125	60.444	72.501	-	72.501	73.546	75.620	78.232	80.688	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Director of Operational Test and Evaluation (DOT&E) was created by Congress in 1983. The Director is responsible under Title 10 for policy and procedures for all aspects of Operational Test and Evaluation (OT&E) within the Department of Defense (DoD). Particular focus is given to OT&E that supports major weapon system production decisions for acquisition programs included on the Office of Secretary of Defense Test and Evaluation Oversight List that is prepared and approved annually. Generally, there are about 300 programs on the oversight list including all Major Defense Acquisition Programs (MDAP) and Major Automated Information Systems (MAIS). MDAPs may not proceed beyond low-rate initial production (BLRIP) until OT&E of the program is complete. DOT&E is involved early in the planning phase of each program to ensure adequate testing is planned and executed. Key elements of DOT&E's oversight authority include:

- The approval of component Test and Evaluation Master Plans (TEMPS).

- The approval of component OT&E Test Plans.

- Oversight of Military Department preparation and conduct of field operational tests; analysis and evaluation of the resultant test data; the assessment of the adequacy of the executed test and evaluation programs; and assessment of the operational effectiveness and suitability of the weapon systems.

- Reporting results of OT&E that support BLRIP decisions to the Secretary of Defense and Congress, as well as providing an annual report summarizing all OT&E activities and the adequacy of test resources within DoD during the previous fiscal year.

DOT&E also oversees and resources OT&E community efforts to plan and execute joint operational evaluations of information assurance and interoperability of fielded systems and networks during major Combatant Command (COCOM) and Service exercises, and reports the trends and findings in the annual report. As a result of the Department's recognition of the importance of enhanced cyber assessment capabilities, additional resources and emphasis were added in fiscal year 2013. These enhancements will include expanded threat assessments of the advanced cyber adversary, more representative portrayal of the cyber adversary by Red Teams, and improvements to the Joint Information Operations Range that will support more operationally realistic and threat representative assessment and training events.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Operational Test and Evaluation	59.125	60.444	72.501
FY 2011 Accomplishments: Operational Test and Evaluation Oversight			
This effort is in direct support of the Director's Title 10 responsibilities to conduct independent, rigorous, and comprehensive evaluation of the operational effectiveness and suitability of the Department's weapons programs. Funding for FY 2011 provided			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense				DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605118OTE: <i>Operational Test and</i> <i>Evaluation</i>	PROJEC 1 0605118C	PROJECT 0605118OTE: Operational Test and Eval				
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2011	FY 2012	FY 2013		
Operational Test and Evaluation inputs for Test and Evaluation Master F Acquisition Executive Summary Reports for those programs designated of DOT&E oversight authority were identified in Calendar Year 2011 Off Oversight List.	fense elements on						
Information Assurance and Interoperability Evaluations							
Information assurance and interoperability assessments were performed during real-world operations. Warfighter responses to computer network captured in all information assurance events. Portrayal of advanced three assessments were guided by a more rigorous process that includes exp. In partnership with Joint Staff J8 (previously the Joint Forces Command and executed with emphasis on the systems and capabilities contained in Mix Study. Assessment support to units deploying to theaters of operative enhancements to their network defense postures. Fiscal year 2011 infor- included trend analyses across prior year results, both within and across and DoD leadership for their awareness and remediation actions, as app supported two assessment events for added operational realism and record FY 2012 Plans: Operational Test and Evaluation Oversight	es, or e) were ility threads. ed bility in Service e sments.						
This is a continuing effort and is in direct support of the Director's Title 1 Test and Evaluation inputs for Test and Evaluation Master Plans, Test P Executive Summary Reports for those programs designated for oversigh Defense for Acquisition, Technology and Logistics (OUSD(AT&L)). Key Calendar Year 2012 Office of the Secretary of Defense Test and Evalua	0 responsibilities. FY 2012 funds will provide Oper Plans, System Acquisition Reports, Defense Acquis It by DOT&E and the Office of the Under Secretar elements of DOT&E oversight authority are identi tion Oversight List.	erational sition y of fied in					
Information Assurance and Interoperability Evaluations							
Approximately 25 information assurance and interoperability assessment and Service exercises. Full assessment of warfighter responses to com restore) will be captured in all information assurance events. Portrayal c most events, in accordance with the CJCS Red Team EXORD, and inter-	Its will be planned and executed during FY 2012 C puter network attack (ability to protect, detect, rea of selected advanced-cyber threats will be included roperability and mission accomplishment in repres	COCOM ct, and d in sentative					

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test		DATE: Fe	bruary 2012		
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605118OTE: Operational Test and Evaluation	PROJECT 0605118OT	E: Operati	onal Test and	Evaluation
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2011	FY 2012	FY 2013
threat environments will be examined. In partnership with US CYBER C reflect DIA assessments, and application of these teams will be synchron priorities. In partnership with the Joint Staff J8, focused interoperability a with emphasis on the systems and capabilities contained in the C2 Optir units deploying to theaters of operation will continue as needed. Fiscal y evaluations will include trend analyses across prior year results, both wit transmitted to Service and DoD leadership for their awareness and reme Operations Range will support events across multiple COCOMS for adde assessments.	anced to esement events o lity ation ercise				
FY 2013 Plans: Operational Test and Evaluation Oversight					
This is a continuing effort and is in direct support of the Director's Title 10 Test and Evaluation inputs for Test and Evaluation Master Plans, Test P Executive Summary Reports for those programs designated for oversigh Defense for Acquisition, Technology and Logistics (OUSD(AT&L)). Key Calendar Year 2013 Office of the Secretary of Defense Test and Evalua	erational sition y of fied in				
Information Assurance and Interoperability Evaluations					
Approximately 25 information assurance and interoperability assessment and Service exercises. Full assessment of warfighter responses to com and restore) will be captured in all information assurance events. Portra events, in accordance with the CJCS Red Team EXORD, and interopera- threat environments will be examined. In partnership with US CYBER C reflect DIA assessments, and application of these teams will be synchron priorities. In partnership with the Joint Staff J8, focused interoperability a with emphasis on the systems and capabilities contained in the C2 Optir units deploying to theaters of operation will continue as needed. Fiscal y evaluations will include trend analyses across prior year results, both wit transmitted to Service and DoD leadership for their awareness and reme Operations Range with Red Teams portraying advanced cyber adversar added threat realism and required security.	Its will be planned and executed during FY 2013 C puter network attack (ability to protect, detect, rea yal of advanced-cyber threats will be included in a ability and mission accomplishment in representat command, DoD Red Team capabilities will be enhi- nized across Cyber Command and DOT&E asses assessments will be planned and executed in four num Capability Mix Study. Assessment support to year 2013 information assurance and interoperabi- thin and across COCOMs. Critical findings will be ediation actions, as appropriate. The Information ries will support the majority of COCOM exercises	COCOM ct, all ive anced to sement events o lity			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Tes		DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605118OTE: <i>Operational Test and</i> <i>Evaluation</i>	CLATURE PROJECT Operational Test and 0605118OTE: Operational Test and Evaluati				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013	
As a result of the Department's recognition of the importance of enhance and emphasis were added in fiscal year 2013. These enhancements we cyber adversary, more representative portrayal of the cyber adversary to Operations Range that will support more operationally realistic and three	eed cyber assessment capabilities, additional reso vill include expanded threat assessments of the ad by Red Teams, and improvements to the Joint Info at representative assessment and training events	urces lvanced ormation				
	Accomplishments/Planned Programs	Subtotals	59.125	60.444	72.501	
 C. Other Program Funding Summary (\$ in Millions) N/A D. Acquisition Strategy N/A E. Performance Metrics Performance Measure: Percentage of required operational test plann and Evaluation Oversight List and other special interest programs/lega Actual Performance and Goals: Operational Test and Evaluation On-Time Completion Rate FY 2011 (Actual) 94% FY 2012 (Goal) 95% FY 2013 (Goal) 96% The on-time completion rate was computed on the basis of the number number of such products that fell due during the fiscal year. Products Test and Evaluation Master Plans for operational test and evaluation of assurance and interoperability testing associated with scheduled test continued management emphasis on timely delivery of required product 	ing documents, assessments, and reports applica acy systems that are completed and delivered to t er of required products that were submitted within included in the measure include beyond low-rate oversight as well as assessment plans, "quick look events. DOT&E plans to maintain its on-time com acts to customer activities.	ble to acqu he appropri established initial produ c' reports, a pletion rate	isition progra ate decision time standa action reports nd final repo s for FY 201	ims on the OS makers on tir rds relative to s, Test Plans, rts for the info 2 and FY 201	SD Test ne. the total and ormation 3 through	

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation, Defense								DATE: February 2012			
APPROPRIATION/BUDGET ACTIV 0460: Operational Test and Evaluation BA 6: RDT&E Management Support	UDGET ACTIVITY R-1 ITEM NOMENCLATURE Ist and Evaluation, Defense PE 06051310TE: Live Fire Test and Evaluation gement Support PE 06051310TE: Live Fire Test and Evaluation										
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	12.834	12.126	49.201	-	49.201	48.423	49.587	50.255	51.306	Continuing	Continuing
0605131OTE: <i>Live Fire Test and</i> <i>Evaluation</i>	12.834	12.126	49.201	-	49.201	48.423	49.587	50.255	51.306	Continuing	Continuing

<u>Note</u>

Starting in FY 2013 the increase in funding is the result of the realignment of the JASP and JTCG/ME programs from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program (0605131OTE).

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 (06051310TE). 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

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 C	perational Test and	d Evaluation, Def	ense	DATE: F	ebruary 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 IT	EM NOMENCLA	TURE		
0460: Operational Test and Evaluation, Defense	PE 060	051310TE: Live	Fire Test and Evaluation	n	
BA 6: RDT&E Management Support					
the Live Fire Test office of DOT&E and is also an Executive survivability information.	e Agent for the Surv	vivability Vulnera	bility Information Analys	is Center (SURVIAC), t	he repository for aircraft
The Joint Logistics Commanders Joint Technical Coordinat focal point for munitions effectiveness information. This has non-nuclear U.S. weapons. JTCG/ME authenticates weap and simulation. JMEMs are used by the Armed Forces of t support force-level analyses. JTCG/ME also develops and vulnerability, munitions lethality, and weapon system accur- learned (Enduring Freedom, Iraqi Freedom, and Odyssey I Users Working Groups input for specific weapon-target pair This program element also includes funds to obtain Federa described Live Fire Test and Evaluation tasks, as well as tr This program element is budgeted in Budget Activity 6, RD systems, as well as RDT&E of fielded systems.	ting Group for Munit is taken the form of ons effectiveness da the U.S., NATO, and standardizes meth- acy. The JMEM red Dawn) and the need rings and methodole fully Funded Researc ravel funds to carry of T&E Management S	tions Effectivene widely used Joir ata for use in tra d other allies to p odologies for eva quirements and o ds of Combatant ogies. ch and Developm out the LFT&E p Support, to supp	ss (JTCG/ME) was char at Munitions Effectivenes ining, systems acquisition aluation of munitions effective development processes Commands, Services, Monent Center (FFRDC) ex rograms.	tered more than 40 yea as Manuals (JMEMs) whon, weapon procurements, support training and activeness and maintain continues to be driven Ailitary Targeting Community pertise in performing and cactivities for the oversity	ars ago to serve as DoD's hich address all major nt, and combat modeling tactics development, and ns databases for target by operational lessons hittee, and Operational halyses in support of ght of RDT&E of new
B. Program Change Summary (\$ in Millions)	<u>FY 2011</u>	<u>FY 2012</u>	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	12.899	12.126	11.982	-	11.982
Current President's Budget	12.834	12.126	49.201	-	49.201
Total Adjustments	-0.065	-	37.219	-	37.219
Congressional General Reductions	-	-			
 Congressional Directed Reductions 	-	-			
Congressional Rescissions	-	-			

 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Congressional General Reductions 	-0.065	-	-	-	-
Program Realignment	-	-	36.925	-	36.925
 Revised Economic Assumptions 	-	-	0.294	-	0.294

Change Summary Explanation

Starting in FY 2013 the increase in funding is the result of the realignment of the JASP and JTCG/ME programs from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program (0605131OTE).

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense DATE: February 2012												
APPROPRIATION/BUDGET ACTIV 0460: Operational Test and Evaluati BA 6: RDT&E Management Support	ITY on, Defense			R-1 ITEM NOMENCLATUREPROJEPE 0605131OTE: Live Fire Test and Evaluation060513				PROJECT 0605131OT	ECT 31OTE: <i>Live Fire Test and Evaluation</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost	
0605131OTE: <i>Live Fire Test and</i> <i>Evaluation</i>	12.834	12.126	49.201	-	49.201	48.423	49.587	50.255	51.306	Continuing	Continuing	
Quantity of RDT&E Articles												
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. B. Accomplishments/Planned Programs (\$ in Millions) FY 2011 FY 2012 FY 2013												
Title: Live Fire Test and Evaluation									12.834	12.126	49.201	
B. Accomptishments/Planned Programs (\$ in Millions) Title: Live Fire Test and Evaluation FY 2011 Accomplishments: Live Fire Test and Evaluation Major Test and Evaluation Programs The FY 2011 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 warfighter needs. The need for these tests results 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. Provided support and continued to partner with the Joint Improvised Explosive Device Defeat Organization. Urgent requests directly supporting deployed operators and issues of importance to the Congress in the areas of personnel body armor and combat helmets were addressed. Supported helicopter survivability efforts of the Department to recommend quickly fielded survivability improvements to the combat theater. An initiative to investigate aortic injuries was completed. This initiative was in partnership with OUSD (Personnel and Readiness) and NASA as part of Occupant Casualty initiatives. JLE projects continued to be performed to provide survivability data on currently fielded ULS systems .JLE Air projects							em ports for nually. &E and d tactics, ded ly at /ability ership					

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test		DATE: February 2012					
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605131OTE: <i>Live Fire Test and Evaluation</i>	PROJECT 06051310 ⁻	ROJECT 6051310TE: <i>Live Fire Test and Evaluation</i>				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013		
simulation to more accurately take into account vulnerabilities to MANPA continued work on large engine vulnerability to MANPADS, including hit Land projects continued investigating the vulnerability of vehicles to new against typical in-theater targets, as well as improving modeling and simprojects continued developing key components of alternatives to tradition investigating ship vulnerabilities in the areas of commercial standards an and compartment fires.	NDS fragments and debris as well as blast. JLF A point analyses and miss distance measurements. threats from theater and the lethality of U.S. wea ulation tools by providing validation data. JLF Senal shock trials of ships and submarines and begand specific designs, equipment and component data.	ir JLF pons a an mage,					
FY 2012 Plans: Live Fire Test and Evaluation Major Test and Evaluation Programs							
This is a continuing effort. The FY 2012 budget provides Live Fire Test a Plans, Test Plans, System Acquisition Reports, Defense Acquisition Exe programs designated for oversight by DOT&E and OUSD(AT&L). The o	and Evaluation input for Test and Evaluation Mast cutive Summary reports, and BLRIP reports for th versight list is developed and published annually.	er Iose					
JLF Programs and LFT&E Initiatives							
Conduct tests of fielded systems not previously tested under Air, Land, or operator needs. The need for these tests results from systems being ex- or being operated in new combat environments, and the subsequent need continue to support and partner with the Joint Trauma Analysis and Prev- efforts in support of Personnel Protection Equipment, including combat have requests that directly support deployed operators and issues of important	or Sea Joint Live Fire programs to support DOT&E posed to new threats, used in new unanticipated to ed for an assessment of their performance. As ne rention of Injury in Combat (JTAPIC) program. Co relmets and body armor. Continue to address urg rece to the Congress as they arise.	and tactics, cessary, ontinue lent					
Continue to perform JLF projects to provide survivability data on currentl investigation of an emerging threat first seen in a CH 47 combat incident engine nacelle vulnerability reduction techniques, as well as generic vuln arms, and the performance of self sealing fuel tanks using bio-fuels. New and missile debris on aircraft vulnerability, the vulnerability of turboprop of threats. JLF Land projects will continue to investigate the vulnerability of weapons against typical in-theater targets, as well as improving modeling projects will study the use and validity of manikins, helmets, and improve and simulation. JLF Sea projects will continue to develop key componer	y fielded U.S. systems. JLF Air projects will conting, test the vulnerability of sponsons to RPGs, evaluaterabilities to all aircraft, such as to MANPADS, so w projects will investigate the effect of yawed projengines, and a comparison of commonly used test fvehicles to underbody blast and the lethality of U g and simulation tools by providing validation data ements to material characteristics used in modeling the of alternatives to traditional shock trials of ship	nue the uate mall ectiles t J.S. a. New g s and					

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test		DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605131OTE: <i>Live Fire Test and Evaluation</i>	PROJECT 060513101	e Test and Ev	aluation	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
submarines, will continue to investigate ship vulnerabilities in the areas of damage, and will investigate vulnerabilities of designs and components f	of commercial standards, equipment and compone or new ships.	ent			
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 Test a Plans, Test Plans, System Acquisition Reports, Defense Acquisition Exe programs designated for oversight by DOT&E and OUSD(AT&L). The or	and Evaluation input for Test and Evaluation Mast cutive Summary reports, and BLRIP reports for th versight list is developed and published annually.	er Iose			
JLF Programs					
Conduct tests of fielded systems not previously tested under Air, Land, or warfighter needs. The need for these tests result from systems being ex or being operated in new combat environments, and the subsequent need continue to support and partner with the JTAPIC. Continue initiatives with support deployed warfighters and issues of importance to the Congress.	and tactics, cessary, t directly				
Joint Aircraft Survivability Program (JASP)					
In FY 2013 the JASP will continue work on at least 29 multi-year RDT&E Principal Members Steering Group and OSD/DOT&E. The JASP will approtorcraft combat survivability. In the area of susceptibility reduction, the countermeasures, electronic countermeasures technology and technique needs. In the area of vulnerability reduction, the JASP will continue to ac vulnerability reduction technology (e.g., armor, fuel containment, fire sup aircraft survivability M&S, the JASP will continue to improve survivability survivability data, integrate DIA threat missile models into threat engager passenger injuries, and address M&S requirements identified by the joint	e JASP ties and ared ator e In or or				
The JCAT will continue to support the Air Force, Army, Marine Corps and operators on threat effects and combat damage assessment, and reporti DoD science and technology and acquisition communities. The JASP we and information exchange through internet sites (restricted access and c	raining he ion lournal,				

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test	and Evaluation, Defense	DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605131OTE: <i>Live Fire Test and Evaluation</i>	PROJEC 06051310	CT 1OTE: <i>Live Fire Test and Evaluation</i>			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013	
developing educational materials and conducting training for the DoD ar complete other projects as approved by the JASP Principal Members St	id their contractors. The JASP will initiate, continue eering Group and OSD/DOT&E.	le and				
Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/N	ΛE)					
In support of operational commanders, DoD targeteers, weaponeers, an Weaponeering System (JWS) v2.x in September 2013 and Joint-Antiair (AS) v5.2 in September 2013.	d planners, the JTCG/ME will develop and releas Combat Effectiveness System (J-ACE) Air Superi	e JMEM ority				
JWS v2.x will provide new COCOM high priority targets and weapons da Integrated Structural Tool (FIST), and Passive Vehicle Target Model (PV J-ACE v5.2 will add Browse descriptive material to support new weapon Kill-chain Models and Data (SAK-MD) capability; and update existing we	ata; updates to Boat Estimation Tool (BET), Fast /TM); and a capability to drop-in critical data and r s in Joint Anti-air Model (JAAM); expand Suite of apons and aircraft in JAAM.	nodules. Anti-air				
JTCG/ME will continue to; (i) develop a predictive capability to assess bl synergism and incorporate these mechanisms in the JTCG/ME estimation the use of computational physics to improve test design and data analysis characterization of weapons addressing blast interactions with structures	ast effects, body-on-body penetration, and blast-f on process for small, precision weapons; and (ii) e is to support both analytical model development a s, weapon fragmentation, and penetration mechar	ragment xpand and the nics;				
JMEMs will continue to be evolved. Fast running operational tools will b typically used to support system acquisition decisions. Necessary inves configuration management and validation required to insure their applicat investment will allow more effective and efficient use of DoD resources; application of conventional weapons; and will increase operational capal in an environment where zero collateral casualties is the expectation; (ii) preferred and prepositioned munitions; (iii) reduced uncertainties and de (BDA); (iv) weapon effects in a CM environment; and (v) reduced risk to	e created from the existing detailed analytical mo- tment will be made in those models for the develo ability in support of warfighting operations. This build on a record of success in supporting Warfigh bility in areas such as: (i) precision application of to optimal use of scarce and/or high value resource alays in strike planning and Battle Damage Assess personnel, materiel and mission accomplishment	dels pment, nter ïrepower s, sment				
	Accomplishments/Planned Programs S	ubtotals	12.834	12.126	49.201	
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A						

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test	DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0460: Operational Test and Evaluation, Defense	PE 0605131OTE: <i>Live Fire Test and Evaluation</i>	06051310TE: Live Fire Test and Evaluation
BA 6: RDT&E Management Support		
D. Acquisition Strategy		
N/A		
 E. Performance Metrics Performance Measure: Percentage of required live fire test planning de Evaluation Oversight List and other special interest programs/legacy sy of required products, such as test planning documents, munitions effect managers and customers on time. Actual Performance and Goals: Live Fire Test and Evaluation FY 2011 Actual FY 2012 Goal On-Time Completion Rate 90% 93% The on-time completion rate was computed on the basis of the number number of such products that fell due during the fiscal year. DOT&E pl timely delivery of required reports to customer activities. 	ocuments, assessments, and reports applicable to /stems that are completed and delivered to the ap tiveness manuals, tactic-techniques and reports t FY 2013 Goal 95% required reports that were submitted within estab ans to achieve its goals for FY 2012 and FY 2013	o acquisition programs on the OSD Test and propriate decision makers on time. Percentage hat are developed and delivered to program

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation, Defense DA				DATE: Febr	uary 2012						
APPROPRIATION/BUDGET ACTIV 0460: Operational Test and Evaluation BA 6: RDT&E Management Support	ITY on, Defense			R-1 ITEM NOMENCLATURE PE 0605814OTE: <i>Operational Test Activities and Analyses</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	120.135	115.467	63.566	-	63.566	63.382	64.771	64.637	64.377	Continuing	Continuing
0605814OTE: <i>OT&A</i>	120.135	115.467	63.566	-	63.566	63.382	64.771	64.637	64.377	Continuing	Continuing

Note

Starting in FY 2013 the decreases in funding are the result of the realignment of the JASP and JTCG/ME programs from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program (06051310TE) and a reduction to the Joint Live Fire Program as part of the overall DoD budget reduction effort.

A. Mission Description and Budget Item Justification

The Test and Evaluation programs are continuing efforts that provide management and oversight of test and evaluation functions and expertise to the Department of Defense (DoD). The T&E programs consist of five activities: Joint Test and Evaluation (JT&E); Threat Systems (TS); Center for Countermeasures (CCM); Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME); and Joint Aircraft Survivability Program (JASP). Starting in FY 2013 the JTCG/ME and JASP programs are realigned from the Operational Test Activities and Analyses program element (06058140TE) to the Live Fire Test and Evaluation program element (06051310TE). Since the JTCG/ME and JASP programs focus on the survivability of currently fielded systems the two programs are more appropriately funded within the Live Fire Test and Evaluation program element.

Joint Test and Evaluation projects are test and evaluation activities conducted in a joint military environment that develop process improvements. These multi-Service projects, chartered by the Office of the Secretary of Defense and coordinated with the Joint Staff, appropriate combatant commanders, and the Services, provide non-material solutions that improve: joint interoperability of Service systems, technical and operational concepts, joint operational issues, development and validation of joint test methodologies, and test data for validating models, simulations, and test beds. The JT&E projects address relevant joint war fighting issues in a joint test and evaluation environment by developing and providing new tactics, techniques, and procedures to improve joint test capabilities and methodologies.

Threat Systems, based on a memorandum of agreement between the Director, Operational Test and Evaluation (DOT&E) and the Defense Intelligence Agency, provides DOT&E support in the areas of threat resource analysis, intelligence support and threat systems investments. Threat Systems provides threat resource analyses on the availability, capabilities and limitations of threat representations (threat simulators, targets, models, U.S. surrogates and foreign materiel) and analysis of test resources used for operational testing to support DOT&E's assessment of the adequacy of testing for those programs designated for oversight by DOT&E and the Office of the Under Secretary of Defense for Acquisition, Technology and Logistics (OUSD(AT&L)). Threat Systems provides DOT&E assessment officers and other DOT&E activities with program specific threat intelligence support. Threat Systems also funds management, oversight, and development of common-use threat specifications for threat simulators, threat representative targets, and digital threat models used for test and evaluation.

The Center, a Joint Service Countermeasure (CM) Test and Evaluation Center, serves as DoD's independent evaluator for electro-optical systems with emphasis on rotary wing survivability, precision guided weapons (PGWs), CMs/ counter-countermeasures (CCMs) employment, and warning devices. The Center conducts tests, analyzes test results and provides CM expertise that benefits the Services, Joint activities, T&E Agencies, DoD Acquisition Community, the Intelligence Community,

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational	Test and Evaluation, Defense	DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
0460: Operational Test and Evaluation, Defense	PE 0605814OTE: Operational Test Activities	and Analyses
BA 6: RDT&E Management Support		
Homeland Defense and Overseas Contingency Operations (OCO). D officers for select oversight programs. The Center assesses current a the basis for understanding how CMs might affect systems used in cu can be used for both Title 10 programs and OCO urgent operational r	Data collected during Center test activities provided and developing systems, using carefully developed and future battlefields. Additionally, the Conneeds.	les valuable information to OSD assessment bed test and evaluation methodologies to provide enter develops CM specific test equipment that
The Joint Logistics Commanders Joint Technical Coordinating Group focal point for munitions effectiveness information. This has taken the non-nuclear U.S. weapons. JTCG/ME authenticates weapons effective and simulation. JMEMs are used by the Armed Forces of the U.S., N support force-level analyses. JTCG/ME also develops and standardiz vulnerability, munitions lethality, and weapon system accuracy. The c learned (Enduring Freedom, Iraqi Freedom, and Odyssey Dawn) and Users Working Groups input for specific weapon-target pairings and r	for Munitions Effectiveness (JTCG/ME) was ch e form of widely used Joint Munitions Effectivene veness data for use in training, systems acquisit IATO, and other allies to plan operational missio zes methodologies for evaluation of munitions e JMEM requirements and development processe the needs of Combatant Commands, Services, methodologies.	artered more than 40 years ago to serve as DoD's ess Manuals (JMEMs) which address all major tion, weapon procurement, and combat modeling ons, support training and tactics development, and ffectiveness and maintains databases for target es continues to be driven by operational lessons Military Targeting Committee, and Operational
The Joint Aircraft Survivability Program is the DoD's focal point for join the commanders of the USN Naval Air Systems Command, USA Avia RDT&E to improve military aircraft survivability, develop and standard	nt service enhancement of military aircraft non-r ation and Missile Command and USAF Aeronau lize aircraft survivability modeling and simulation	nuclear survivability. The JASP is chartered by tical Systems Center to coordinate and conduct n (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 Vulnerability Information Analysis Center (SURVIAC), the repository for aircraft survivability information.

This Program Element was reduced in FY 2013 and the outyears as part of the overall DoD budget reduction effort.

This Program Element is budgeted in Budget Activity 6, RDT&E Management Support, to support management activities for the DOTE oversight responsibilities of test and evaluation functions.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 O	perational Test and	Evaluation, Defe	ense	DATE: F	ebruary 2012
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITI PE 060	EM NOMENCLA 05814OTE: Oper	TURE rational Test Activities a	nd Analyses	
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	122.581	118.722	121.012	-	121.012
Current President's Budget	120.135	115.467	63.566	-	63.566
Total Adjustments	-2.446	-3.255	-57.446	-	-57.446
 Congressional General Reductions 	-	-3.255			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-	-			
 Congressional General Reductions 	-2.446	-	-	-	-
 Revised Economic Assumptions 	-	-	2.000	-	2.000
Program Reductions	-	-	-20.489	-	-20.489
 Other Program Realignments 	-	-	-38.957	-	-38.957

Change Summary Explanation

Starting in FY 2013 the decreases in funding are the result of the realignment of the JASP and JTCG/ME programs from the Operational Test Activities and Analyses program (0605814OTE) to the Live Fire Test and Evaluation program (06051310TE) and a reduction to the Joint Live Fire Program as part of the overall DoD budget reduction effort.

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense DA					DATE: Febr	uary 2012					
APPROPRIATION/BUDGET ACTIV 0460: Operational Test and Evaluation BA 6: RDT&E Management Support	ITY on, Defense			R-1 ITEM N PE 0605814 and Analyse	OMENCLAT 4OTE: Opera es	URE ational Test A	Activities	PROJECT 0605814OTE: <i>OT&A</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
0605814OTE: <i>OT&A</i>	120.135	115.467	63.566	-	63.566	63.382	64.771	64.637	64.377	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Test and Evaluation programs are continuing efforts that provide management and oversight of test and evaluation functions and expertise to the Department of Defense (DoD). The T&E programs consist of five activities: Joint Test and Evaluation (JT&E); Threat Systems (TS); Center for Countermeasures (CCM); Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME); and Joint Aircraft Survivability Program (JASP). Starting in FY 2013 the JTCG/ME and JASP programs are realigned from the Operational Test Activities and Analyses program element (06051310TE). Since the JTCG/ME and JASP programs focus on the survivability of currently fielded systems the two programs are more appropriately funded within the Live Fire Test and Evaluation program element.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: Operational Test Activities and Analyses	120.135	115.467	63.566
FY 2011 Accomplishments: Joint Test and Evaluation (JT&E)			
In FY 2011, JT&E had three projects close and four projects ongoing from FYs 2009 and 2010. The Joint Civil Information Management Joint Test, closed June 2011, developed joint tactics, techniques, and procedures to collect, consolidate, and share civil information at the tactical and operational levels so that the joint task force commander will have better information to plan operations. Another project that closed in FY 2011 was Joint Data Integration. This project researched, tested, and evaluated the tactics, techniques, and procedures for use in standardizing the common tactical picture by addressing the quality of: duplicate tracks, time latency, common operational picture synchronization, channel disruptions, position/location discrepancies, and naming schema discrepancies. On a continual basis, JT&E reviews nominations for new projects, manages ongoing projects, and ensures that closing projects transition products to their customers are debriefed, and that their final reports are distributed to the appropriate Service organizations. Two projects were initiated in FY 2011.			
Threat Systems			
During FY 2011, Threat Systems completed development of standard, DIA-validated airborne jammer models for use throughout the Department to evaluate effects on U.S. aircraft; evaluated proposals to develop and implement a more robust open-air threat environment to make operational testing more realistic; continued to address testing against advanced threats that may be			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense			DATE: Fe	oruary 2012	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: <i>Operational Test Activities</i> <i>and Analyses</i>	PROJEC 1 0605814C	r)TE: <i>OT&A</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2011	FY 2012	FY 2013
encountered from adversarial nations; and initiated a project to obtain da systems for use in Iraq and Afghanistan.	ta to support fielding of upgraded hostile fire indic	cator			
Threat Systems continued test planning working group participation to identify threat shortfalls; conducted special studies and provided current intelligence support tailored to specific U.S. weapon systems acquisition; and demonstrated test facility connectivity for enhanced weapons systems testing and improving end-to-end testing of U.S. threat warning and countermeasures systems. These efforts continued to develop threat test assets used for testing in a joint test environment; continued with the third year of a four-year project to integrate current intelligence community-based missile models into all DoD Hardware-In-The-Loop countermeasure test facilities; successfully demonstrated the ability of recently developed standards for target control interfaces to control sub-scale aerial target; completed the design and analysis phase to develop a set of prototype designs for a cost effective full-scale aerial target that embodies the critical attributes of future 5th generation threat fighter aircraft; and performed a comprehensive requirements analysis for a new full-scale rotary wing target. These activities help DOT&E carry out its Title 10 responsibilities to assess test adequacy and determine whether testing is realistic and suitable and promotes common solutions to Service threat representation needs.					
Center for Countermeasures (the Center)					
The Center tested, analyzed, and reported on more than 40 electro-optic survivability, countermeasures (CM)/ counter-countermeasures (CCMs) precision guided weapons (PGWs). Each program supported received a support for CM/ CCM evaluations. Approximately 66% of the Center effor testing; the majority of these efforts in support of rotary wing aircraft and 18% of the Center effort was dedicated to overseas contingency operation deployment training for rotary wing units. About 4% of Center effort was efforts were spent on internal programs to improve test capabilities and t activities. The Center continued development of the Central Test and Ex Threat System, Towed Aerial Plume Simulator and Multi-Spectral Sea ar testing for both Title 10 programs and OCO aircraft survivability equipme across all the Services as well as intelligence agencies and research and	cal systems with special emphasis on rotary wing employment, warning and targeting systems and an independent assessment of our findings and te orts were spent on Aircraft Survivability Equipmer Hostile Fire Indication (HFI) capabilities. Approxi- ons (OCO) support with emphasis on CM based p spent on PGW testing. Thirteen percent of the C o develop test methodologies for new types of T& valuation Investment Program sponsored, Joint IF and Land Target Simulator that will be used in supp ent urgent operational needs. Our support was dis d development activities.	est it (ASE) mately ore- center &E &CM port of stributed			
The Center provided expertise to many organizations and was actively in Countermeasures (JECM) Integrated Product Team, Joint , Infrared Cou (MSS IRCM WG), Joint Aircraft Survivability Program (JASP), Foreign M	nvolved in the following panels: Joint Expendable Intermeasures Multi Sensing Symposia Working (aterial Exploitation Working Group, Foreign Mate	Group rial			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense				bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses	PROJEC 06058140	T DTE: OT&A		
B. Accomplishments/Planned Programs (\$ in Millions)		[FY 2011	FY 2012	FY 2013
Program Test and Evaluation (T&E) Subcommittee, Joint Project Mallari Group (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (HFI) sub	Working Group, Joint Countermeasures T&E Wo ogroup lead.	orking			
Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/N	ΛE)				
JWS v2.0.1 and the JTCG/ME generated Chairman of the Joint Chiefs of Radii (CER) tables were used for operational weaponeering and collater Odyssey Dawn Tomahawk Land Attack Missile (TLAM) and Joint Direct of operational commanders, DoD targeteers, weaponeers, and planners Weaponeering System (JWS) v2.1 beta version in June 2011. In addition 2011. Joint-Antiair Combat Effectiveness System (J-ACE) Air Superiorit was released in September 2011. JWS v2.1 beta version contained the Fast Integrated Structural Tool (FIS incorporates the integral modules from Building Analysis Module (BAM) tool that generates weapon effectiveness and damage assessments aga and tunnels. In addition, JWS v2.1 release will contain approximately 18 Eventories for the integral weapon of the set of t					
J-ACE v4.1 contained additional threat Surface-to-Air (SAM) Flyout Mod and improved Blue Air-to-Air missile FOMs. J-ACE 4.1 was released in software, consistent with Operational Flight Programs in the currently fie "FrankenWEZ" software was used for threat aircraft missile engagement simulations were added for the US AIM-7, AIM-9, and AIM-120 and NAS improved MSIC threat surface-to-air missiles (SAM) were also added. S user requirements; and, interface with other models, simulations, training J-ACE v5.0 provided the initial release of the Suite of Antiair Killchain Mo a significant increase in J-ACE capability. The faster than real time calc miss distance, effects of countermeasures, fuze performance, missile lef elements are provided for RED and BLUE weapons. To more effectively USSTRATCOM, the JAAM 5.0 release also provides a direct interface to expansion was provided only to specific users for extended testing, while to all users.	els (FOMs), additional threat Air-to-Air missile FC October 2010. Weapon Engagement Zone (WEZ Ided fighter fleet was provided for U.S. missiles; N cone determination. New or updated air-to-air m GC threat AA-12, Magic 2, and PL-12. Sixteen ne coftware changes continued to better support open grange telemetry and mission planning system so odels and Data (SAK-MD). SAK-MD software and ulations address missile fly out, target evasive ma thality and target vulnerability. These key "kill char y support operational mission planning, particularl o force level simulations. This initial SAK-MD cap e JAAM v5.0 without the SAK-MD capabilities is a	Ms Z) VASIC issile ew or rational oftware. d data is aneuver, ain" y at ability vailable			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test	t and Evaluation, Defense		DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: <i>Operational Test Activities</i> <i>and Analyses</i>	PROJEC 06058140	T DTE: OT&A		
B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2011	FY 2012	FY 2013
In support of the Combatant Commands and the CJCSI 3160.01, JTCG systems. In addition, the JTCG/ME accredited the Digital Precision Stril tool version 1.0.0 in July 2011 for operational use. This tool displays ac effective radii reference tables. Additionally, JTCG/ME trained nearly 15 FY 2011 continued development and refinement of the Joint Blast Analy were implemented in JBAM software, the user interface and documenta implementation of the Operational Requirement-based Casualty Assess weapon systems to inflict varying levels of personnel incapacitation to in The JTCG/ME assessed fielded and emerging Information Operations (as part of early efforts to create an Effects Based Operations (EBO) eval characterization, coordinating test data development and providing oper Attack and Electronic Warfare; Laser and Radio Frequency DE; and, NL weapon effectiveness and associated confidence level data are critical esenior leaders and warfighters with information to develop policy and communication in the senior leaders and warfighters with information to develop policy and communication to develop pol	 /ME provided updates for CER values for newly ficke Suite (DPSS) Collateral Damage Estimation (D credited Collateral Damage Estimate Level 1-5 A-50 users at 10 different Commands. vsis Model (JBAM). Additional damage modules tion. Additionally, JTCG/ME developed a strategy ment (ORCA) methodology in evaluating the capacicude complete and immediate loss of function. IO), Directed Energy (DE) and Non-lethal (NL) systemation capability set. The scope includes weapon rational tools for the IO elements of Computer Netric systems against materiel and personnel targets. enablers for application of these weapons as it will ncepts of operations for their use. 	elded CiDE) C series for ability of stems n work This provide			
Joint Aircraft Survivability Program (JASP)					
In FY 2011 the JASP continued work on 28 multi-year RDT&E projects a Principal Members Steering Group and OSD/DOT&E. In the area of sus directed energy infrared countermeasures, electronic countermeasures and immediate operator needs. In the area of vulnerability reduction, the more effective armor, fuel containment, fire suppression; and aircrew ar and Simulation (M&S), the JASP continued to improve survivability M&S data, integrate DIA threat missile models into threat engagement codes injuries, and address M&S requirements identified by the joint aircraft su documenting projects completed in FY 2011.	and initiated 28 new projects approved by the JAS sceptibility reduction, the JASP addressed improvi technology and techniques, aircrew situational aw e JASP continued to address requirements for ligh ad passenger protection. In aircraft survivability M S credibility, address operator requirements for sur , improve the assessment of aircrew and passeng urvivability community. The JASP published 43 re	P ng areness hter and odeling vivability er ports			
The JCAT continued to support the Air Force, Army, Marine Corps and operators on threat effects and combat damage assessment, and report DoD science and technology and acquisition communities. The JASP c	Navy by assessing combat damage incidents, train ting their findings to combatant commanders and to ontinued supporting aircraft survivability education	ning he n and			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense				DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses	PROJECT 0605814O	TE: <i>OT&A</i>			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013	
information exchange through internet sites (restricted access and class developing educational materials and conducting training for the DoD ar	ified), by publishing the Aircraft Survivability Jour nd their contractors.	nal,				
<i>FY 2012 Plans:</i> Joint Test and Evaluation (JT&E)						
In FY 2012 JT&E has two projects slated for closing and an estimated for Joint Integration of Maritime Domain Awareness Joint Test, expected to techniques, and procedures to synchronize maritime domain information homeland defense. The other project closing in FY 2012 is Joint Jammi will develop joint tactics, techniques, and procedures to sustain operatio ultra- and super-high frequencies of the satellite communication bands. operations when satellite communications are degraded. On a continua manages ongoing projects, and ensures that closing projects transition p final reports are distributed to the appropriate Service organizations.	bur projects ongoing from FY 2010 and FY 2011. close in FY 2012, is looking to develop joint taction for key decision markers across operations cent ng Assessment and Mitigation Joint Test. This pr ns in the presence of purposeful interference on the This will allow commanders and operators to exe I basis, JT&E reviews nominations for new project products to their customers are debriefed, and that	The cs, ters for roject the ecute cts, at their				
Threat Systems						
As part of the Secretary of Defense FY 2012 efficiency initiatives, the Ta funding for investments in advanced threat surrogate developments was responsible for the development and acquisition of new threat represent threat surrogate investments will slow but not eliminate development of a evaluation.	arget Management Initiative (TMI) was eliminated s reduced. TMI elimination will make the Services ative targets and target control systems. Reducin advanced threat surrogates used in operational te	and s solely ng est and				
Threat Systems will complete the four-year project to integrate current in DoD Hardware-In-The-Loop countermeasure test facilities, continue test shortfalls; conduct special studies and provide current intelligence support In addition, Threat Systems will develop an unmanned aerial vehicle Glog jammers to increase threat realism at test ranges, and use existing live f and hardware-in-the-loop facility testing capabilities to increase confident operational testing. Initiatives for FY 2012 include development of a mot that support effective testing of US and Allied countermeasure systems; simulations used for testing advanced systems in an integrated air defer of a hostile fire signature model for use in testing new hostile fire indicated.	ntelligence community-based missile models into t planning working group participation to identify to out tailored to specific U.S. weapon systems acqui obal Positioning Satellite jamming capability using fire data to verify and compare MANPAD laborato nee in using other than open air live fire events for deling and simulation (M&S) roadmap to identify integration of authoritative, DIA-approved models nee network; data collection to support the develop or technologies being developed by the Army and	all hreat isition. j micro ory projects s into pment d Navy;				

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: <i>Operational Test Activities</i> <i>and Analyses</i>	PROJEC 1 0605814C	Г)TE: <i>ОТ&А</i>		
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013		
investigations into digital radio frequency memory use against threat air GPS jammers and their potential impact of US weapon systems; and tra management and command, control, communications and computer systems	defense systems; assessments of next generatio anslation of all source technical intelligence on a b stem into a model to support test and evaluation.	n pattle			
These activities help DOT&E carry out its Title 10 responsibilities to asserealistic and suitable and promotes common solutions to Service threat	ess test adequacy and determine whether testing representation needs.	is			
Center for Countermeasures (the Center)					
The Center will test, analyze, and report on more than 30 systems with a (CM)/counter-countermeasures (CCMs) employment, warning and targe Each program supported will receive an independent assessment of our Center will continue to emphasize support of the DOT&E enterprise with survivability and hostile fire initiatives. Additionally, a large percentage of in support of current OCO. Furthermore, the Center will continue provid as well as CM/CCM focused tactics and procedures development. The Evaluation Investment Program sponsored, Towed Aerial Plume Simula will be used in support of testing for both Title 10 programs and OCO air The Center will be developing the Threat Simulator Working Group spor will be distributed across all the Services as well as intelligence agencie The Center provided expertise to many organizations and was actively i Countermeasures (JECM) Integrated Product Team, Joint , Infrared Cot (MSS IRCM WG), Joint Aircraft Survivability Program (JASP), Foreign N Program Test and Evaluation (T & E) Subcommittee, Joint Project Malla Group (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (HFI) sul Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/I In support of operational commanders, DoD targeteers, weaponeers, ar Weaponeering System (JWS) v2.1 in December 2011, JWS v2.1.1 in Settem (J-ACE) Air Superiority (AS) v5.1 in Settember 2012.	emphasis on rotary wing survivability, Counter meeting systems and precision guided weapons (PG r findings and test support for CM/CCM evaluation in a clear focus on Title 10 weapons systems, aircr of on-going efforts will focus on aircraft survivability ling CM expertise in pre-deployment events and the Center will continue to develop, the Central Test attor and Multi-Spectral Sea and Land Target Simular reraft survivability equipment urgent operational in insored Hostile Fire Signature model. The Center' as and research and development activities. Involved in the following panels: Joint Expendable untermeasures Multi Sensing Symposia Working Group, Foreign Mate- ari Working Group, Joint Countermeasures T&E W bgroup lead. ME) and planners, the JTCG/ME will release JMEM eptember 2012 and the Joint-Antiair Combat Effect	easures SWs). hs. The raft ty testing raining, and lator that eeds. s support Group erial /orking			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense			DATE: Fe	DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses	PROJECT 0605814O	ГЕ: <i>ОТ&А</i>			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013	
JWS v2.1 will provide a major capability increase to include Fast Integra Cratering Effeects (PCEffects), Precision Munitions Planning Tool (PMF Weaponeering and Estimation Tool, Mine methodology, and Hellfire we Combatant Command targets, other critical data and methodology fixes develop releasable versions of JWS v2.1 in support of combined warfar	ated Structural Tool (FIST), Enhanced Penetration PT), Joint Smart Weapons Model (JSWM), Improv aponeering data. JWS v2.1.1 will provide additio to warfighters. In addition, the JTCG/ME will pla e with allies.	n red Ship nal n to				
J-ACE v5.1 will contain Joint Antiair Model (JAAM) v5.1 and additional Blue and Red effectiveness data (e.g., B-2, A-10, C-130H, F-18 C/E, MiG-29 Fulcrum, Su-27 Flanker, Rafale, Jian-10/F-10, MiG-19 Farmer, and F-1 Mirage) and architectural/modularity/ GUI improvements. J-ACE v5.1 will also include distribution of the SAK-MD capability introduced in J-ACE v5.0.						
In support of Combatant Commands and the CJCSI 3160.01, JTCG/ME fielded systems. JTCG/ME will continue to monitor the DCiDE tool vers that subsequent versions of DCiDE accurately reflect the latest JTCG/M population density factors and associated user input. The DCiDE tool we estimation on JWS.	will continue to provide updates for CER values ion 1.0.0 configuration management process to e IE accredited tables; Combatant Command speci vill evolve to be the foundation for collateral dama	for newly nsure fied ge				
Advanced Joint Effectiveness Model (AJEM) updates will focus on supporting JTCG/ME and acquisition offices by continuing to respond to shortfalls within existing methodology and expanding to support the ongoing paradigm shift from overmatching weapons to more precise weapons. The precision of these new weapons requires a better understanding of target response. Specific methodology tasks will be to (i) add partial impact to prevent under-prediction of JWS lethality; (ii) develop understating of ORCA for use in JTCG/ME studies with AJEM; (iii) expand the suite of penetration methodology modules as standalone analysis tools and as plug-in for higher level codes; and (iv) improve blast data for JWS.						
JTCG/ME will continue to: (i) develop JMEM data for most critical Combupdate cycles through incremental updates; (iii) accredit tri-Service JME incorporate newly fielded weapons (i.e., Air-to-Surface, Surface-to-Surfa damage and hardened target structure methodology; and, (vi) provide c sensitive targets.	patant Commander identified systems; (ii) reduce EM operational tools; (iv) expand existing databas ace Direct/Indirect Fire, and Antiair); (v) enhance onnectivity to real time planning systems assessi	CD-ROM es to collateral ng time				
FY 2013 Plans: Joint Test and Evaluation (JT&E)						
In FY 2013 JT&E has two projects slated for closing and an estimated for Joint Cyber Operations Joint Test, anticipated to close in January 2013,	our projects ongoing from FY 2011 and FY 2012. looks to develop, test, and evaluate tactics, tech	The niques,				

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B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2011	FY 2012	FY 2013
and procedures to enable the joint task force commander to employ a vi command and control services from cyber threats across the DoD Globa Exchange Joint Test is scheduled to close in September 2013.	rtual secure enclave strategy to improve defense al Information Grid. The Joint UAS Digital Informa	of critical ition			
In FY 2013, the JT&E Program will begin to experience the impact of its significant budget cuts. The program will significantly digress from its business model of funding three Joint Feasibility Studies (JFS), two Joint Tests, and three Quick Reaction Tests (QRTs) annually. FY 2013 will have no new JFS and one additional QRT funded for the year. With no new JFS, there will not be any Joint Tests chartered in FY 2013.					
As part of the Secretary of Defense FY 2012 efficiency initiatives, JT&E Program's business model was reengineered to meet the requirements of its stakeholders with the reduction in budget. The new model reduces the life span of a project while maintaining rigorous Test and Evaluation methods to produce effective solutions to joint military operational problems. The new business model will be implemented and refined starting in FY 2013.					
Threat Systems					
Threat Systems will continue integration of current intelligence community-based models into test and evaluation facilities, continue test planning working group participation to identify threat shortfalls; conduct special studies and provide current intelligence support tailored to specific U.S. weapon systems acquisition; develop Global Positioning Satellite jamming capability to increase threat realism at our test ranges, and complete the development of an ammunition and rocket propelled grenade signature model for use in hostile fire indicator systems. Threat Systems will propose candidate threat systems from the various intelligence agencies and develop models for use in test and evaluation. Threat Systems will investigate the integration of digital radio frequency memory technology to develop modern threat jammers.					
New initiatives for FY 2013 include implementation of M&S roadmap pro countermeasure systems are available for testing, development of next on US weapon systems, providing representative cyber warfare threats resources that represent land and sea threats.	jects to ensure threats to US and Allied infrared generation threat GPS jammers and their potentia for testing, and identify and provide alternative tes	ll impact st			
These activities help DOT&E carry out its Title 10 responsibilities to assere a realistic and suitable, and promotes common solutions to Service threat	ess test adequacy and determine whether testing representation needs.	is			
Center for Countermeasures (CCM)					

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense		DATE: February 2012				
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B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2011	FY 2012	FY 2013	
The Center will test, analyze, and report on more than 30 electro-optical systems with special emphasis on rotary wing survivability, counter measures (CM)/counter-countermeasures (CCMs) employment, warning and targeting systems and precision guided weapons. Each program supported will receive an independent assessment of our findings and test support for CM/CCM evaluations. We will continue to emphasize support of the DOT&E enterprise with a clear focus on Title 10 weapons systems, aircraft survivability and hostile fire initiatives. Additionally, a large percentage of on-going efforts will focus on aircraft survivability testing in support of current OCO. Furthermore, the Center will continue providing CM expertise in pre-deployment events and training, as well as CM/CCM focused tactics and procedures development. The Center will continue to develop, the Central Test and Evaluation Investment Program sponsored Multi-Spectral Sea and Land Target Simulator that will be used in support of testing for both Title 10 programs and OCO aircraft survivability equipment urgent operational needs. The Center will continue to develop the Threat Simulator Working Group sponsored Hostile Fire Signature model. Our support will be distributed across all the Services as well as intelligence agencies and research and development activities. Just to be actively engaged, to include attending various conferences, with a number of organizations providing advice on CM/CMS. Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) (Starting in FY 2013 JTCG/ME is funded under program element 6050113OTE Live Fire Test and Evaluation.)						
	Accomplishments/Planned Programs S	Subtotals	120 135	115 467	63 566	
 C. Other Program Funding Summary (\$ in Millions) N/A D. Acquisition Strategy Not Applicable E. Performance Metrics (U) PERFORMANCE METRICS: Performance Measure: Percentage of required products, such as test planning documents, munitions effectiveness manuals, tactics, techniques, procedures, threat characteristics, assessments, and reports that are developed and delivered to program managers and customers on time 						

xhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense		DATE: February 2012		
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Actual Performance and Goals:				
Operational Test Activities and Analyses FY 2011 (Actual) FY 201 On-Time Completion Rate 94%	12 (Goal) FY 2013 (Goal) 95% 96%			
The on-time completion rate was computed on the basis of the number of required products 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 maintain its on-time completion rates for FY 2012 and FY 2013 through increased management emphasis on timely delivery of required products to customer activities.				

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