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

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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

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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)

Appropriation	FY 2013 Base	FY 2013 OCO	FY 2013 Total

Operational Test & Eval, Defense	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268

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

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

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

Summary Recap of Budget Activities	FY 2013 FY 2013 Base OCO	FY 2013 Total
PDTSE Managament Support	105.050	105.000
RDT&E Management Support Total Research, Development, Test & Evaluation	185,268 185,268	185,268 185,268
result National Development, Tobb & Pydraucion	103,200	103,200
Summary Recap of FYDP Programs		
Research and Development	185,268	185,268
Total Research, Development, Test & Evaluation	185,268	185,268

Defense-Wide FY 2013 President's Budget Exhibit R-1 FY 2013 President's Budget Total Obligational Authority

(Dollars in Thousands)

Summary Recap of Budget Activities	FY 2011 Actuals	FY 2012 Base	FY 2012 OCO	FY 2012 Total
DESCRIPTION OF THE PROPERTY OF				
RDT&E Management Support Total Research, Development, Test & Evaluation	192,094	188,037		188,037
rocal Research, Development, rest & 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

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

Summary Recap of Budget Activities	FY 2013 Base	FY 2013 OCO	FY 2013 Total
RDT&E Management Support Total Research, Development, Test & Evaluation	185,268 185,268		185,268
Total Research, Development, lest & Svaluation	103,200		,103,200
Summary Recap of FYDP Programs			
Research and Development	185,268		185,268
Total Research, Development, Test & Evaluation	185,268		185,268

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 2011	FY 2012	FY 2012	FY 2012	е
No	Number	Item	Act	Actuals	Base	oco	Total	C
		K125#						-
1	06051180TE Operat	tional Test and Evaluation	06	59,125	60,444		60,444	U
2	0605131OTE Live 1	Fire Test and Evaluation	06	12,834	12,126		12,126	U
3	0605814OTE 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	
	_			•	•		•	

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	OCO	Total	C
		U.11	222				-
1	06051180TE OF	perational Test and Evaluation	06	72,501		72,501	U
2	06051310TE Li	ve Fire Test and Evaluation	06	49,201		49,201	U
3	0605814OTE Op	perational Test Activities and Analyse	s 06	63,566		63,566	U
	RDT&E Ma	nagement Support		185,268		185,268	
Total	Operational	Test & Eval, Defense		105.260		105.000	
Total	. Operational	Test & Eval, Delense		185,268		185,268	

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 Activity 06: RDT&E Management Support

Appropriation 0460: Operational Test and Evaluation, Defense

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

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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 7
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, Defense

APPROPRIATION/BUDGET ACTIVITY

0460: Operational Test and Evaluation, Defense

BA 6: RDT&E Management Support

R-1	ITEM	NOMENCL	ATURE
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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.

PE 0605118OTE: Operational Test and Evaluation Operational Test and Evaluation, Defense

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DATE: February 2012

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 0605118OTE: Operational Test and Evaluation

BA 6: RDT&E Management Support

, ,						
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	
Previous President's Budget	59.430	60.444	62.695	-	62.695	
Current President's Budget	59.125	60.444	72.501	-	72.501	
Total Adjustments	-0.305	-	9.806	-	9.806	
 Congressional General Reductions 	-	-				
 Congressional Directed Reductions 	-	-				
 Congressional Rescissions 	-	-				
 Congressional Adds 	-	-				
 Congressional Directed Transfers 	-	-				
 Reprogrammings 	-	-				
SBIR/STTR Transfer	-	-				
 Congressional General Reductions 	-0.305	-	-	-	-	
 Progam Realignment/Adjustments 	-	-	1.956	-	1.956	
 Cyber Enhancement Capabilities 	-	-	7.850	-	7.850	

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.

PE 0605118OTE: *Operational Test and Evaluation* Operational Test and Evaluation, Defense

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Exhibit R-2A , RDT&E Project Justification : PB 2013 Operational Test and Evaluation, Defense								DATE: Febi	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				PROJECT 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
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				

PE 0605118OTE: Operational Test and Evaluation Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Tes	t and Evaluation, Defense		DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJEC	T		
0460: Operational Test and Evaluation, Defense	PE 0605118OTE: Operational Test and	06051180	OTE: Operati	onal Test and	d Evaluation
BA 6: RDT&E Management Support	Evaluation				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
Operational Test and Evaluation inputs for Test and Evaluation Master Acquisition Executive Summary Reports for those programs designated of DOT&E oversight authority were identified in Calendar Year 2011 Of Oversight List.	I for oversight by DOT&E and OUSD(AT&L). Ke	ey elements			
Information Assurance and Interoperability Evaluations					
Information assurance and interoperability assessments were performe during real-world operations. Warfighter responses to computer network captured in all information assurance events. Portrayal of advanced the assessments were guided by a more rigorous process that includes explict In partnership with Joint Staff J8 (previously the Joint Forces Command and executed with emphasis on the systems and capabilities contained Mix Study. Assessment support to units deploying to theaters of operate enhancements to their network defense postures. Fiscal year 2011 informational formation and pod leadership for their awareness and remediation actions, as apsupported two assessment events for added operational realism and response to the systems and remediation actions.	rk attack (ability to protect, detect, react, and restreats were included in several events. Interoper banded research and linkage to warfighter mission 138), two interoperability assessments were plant in the Joint Forces Command C2 Optimum Caption was completed for four assessments, resulting the properation assurance and interoperability evaluations as COCOMs. Critical findings were transmitted to propriate. The Joint Information Operations Rai	tore) were ability on threads. Inned bability ong in ons on Service nge			
FY 2012 Plans: Operational Test and Evaluation Oversight					
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 Executive Summary Reports for those programs designated for oversig Defense for Acquisition, Technology and Logistics (OUSD(AT&L)). Key Calendar Year 2012 Office of the Secretary of Defense Test and Evaluation	Plans, System Acquisition Reports, Defense Acc ht by DOT&E and the Office of the Under Secre relements of DOT&E oversight authority are ide	quisition tary of			
Information Assurance and Interoperability Evaluations					
Approximately 25 information assurance and interoperability assessment and Service exercises. Full assessment of warfighter responses to convestore) will be captured in all information assurance events. Portrayal most events, in accordance with the CJCS Red Team EXORD, and interesting the contraction of the contract	nputer network attack (ability to protect, detect, roughly selected advanced-cyber threats will be inclu-	eact, and ded in			

PE 0605118OTE: Operational Test and Evaluation Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Tes	et and Evaluation, Defense		DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	PE 0605118OTE: Operational Test and Evaluation	06051180	IE: Operati	ional Test and	l Evaluation
BA 6. ND 1&E Management Support	Evaluation				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
threat environments will be examined. In partnership with US CYBER (reflect DIA assessments, and application of these teams will be synchropriorities. In partnership with the Joint Staff J8, focused interoperability with emphasis on the systems and capabilities contained in the C2 Opti units deploying to theaters of operation will continue as needed. Fiscal evaluations will include trend analyses across prior year results, both w transmitted to Service and DoD leadership for their awareness and rem Operations Range will support events across multiple COCOMS for add assessments. FY 2013 Plans:	onized across Cyber Command and DOT&E asset assessments will be planned and executed in two imum Capability Mix Study. Assessment support year 2012 information assurance and interopera ithin and across COCOMs. Critical findings will be diation actions, as appropriate. The Joint Information actions.	essment o events to bility oe mation			
Operational Test and Evaluation Oversight This is a continuing effort and is in direct support of the Director's Title of Test and Evaluation inputs for Test and Evaluation Master Plans, Test Executive Summary Reports for those programs designated for oversign Defense for Acquisition, Technology and Logistics (OUSD(AT&L)). Key Calendar Year 2013 Office of the Secretary of Defense Test and Evaluation.	uisition ary of				
Information Assurance and Interoperability Evaluations					
Approximately 25 information assurance and interoperability assessment and Service exercises. Full assessment of warfighter responses to contain and restore) will be captured in all information assurance events. Portrace events, in accordance with the CJCS Red Team EXORD, and interoperative threat environments will be examined. In partnership with US CYBER (reflect DIA assessments, and application of these teams will be synchropriorities. In partnership with the Joint Staff J8, focused interoperability with emphasis on the systems and capabilities contained in the C2 Option units deploying to theaters of operation will continue as needed. Fiscal evaluations will include trend analyses across prior year results, both we transmitted to Service and DoD leadership for their awareness and remoperations Range with Red Teams portraying advanced cyber adversal added threat realism and required security.	inputer network attack (ability to protect, detect, reayal of advanced-cyber threats will be included in rability and mission accomplishment in represent. Command, DoD Red Team capabilities will be entonized across Cyber Command and DOT&E assessments will be planned and executed in formum Capability Mix Study. Assessment support year 2013 information assurance and interoperatithin and across COCOMs. Critical findings will be diation actions, as appropriate. The Information	eact, all ative hanced to essment ur events to bility			

PE 0605118OTE: *Operational Test and Evaluation* Operational Test and Evaluation, Defense

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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 0605118OTE: Operational Test and	0605118OTE: Operational Test and Evaluation
BA 6: RDT&E Management Support	Evaluation	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
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.			
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 planning documents, assessments, and reports applicable to acquisition programs on the OSD Test and Evaluation Oversight List and other special interest programs/legacy systems that are completed and delivered to the appropriate decision makers on time.

Actual Performance and Goals:

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 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. Products included in the measure include beyond low-rate initial production reports, Test Plans, and Test and Evaluation Master Plans for operational test and evaluation oversight as well as assessment plans, "quick look" reports, and final reports for the information assurance and interoperability testing associated with scheduled test events. DOT&E plans to maintain its on-time completion rates for FY 2012 and FY 2013 through continued management emphasis on timely delivery of required products to customer activities.

PE 0605118OTE: Operational Test and Evaluation Operational Test and Evaluation, Defense

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Exhibit R-2, **RDT&E Budget Item Justification**: PB 2013 Operational Test and Evaluation, Defense

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

0460: Operational Test and Evaluation, Defense PE 0605131OTE: Live Fire Test and Evaluation

BA 6: RDT&E Management Support

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: Live Fire Test and Evaluation	12.834	12.126	49.201	-	49.201	48.423	49.587	50.255	51.306	Continuing	Continuing

Note

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 (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

PE 06051310TE: *Live Fire Test and Evaluation* Operational Test and Evaluation, Defense

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DATE: February 2012

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation, Defense

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

PE 0605131OTE: Live Fire Test and Evaluation

BA 6: RDT&E Management Support

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.

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 2011	FY 2012	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 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).

PE 06051310TE: *Live Fire Test and Evaluation* Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense							DATE: February 2012				
			R-1 ITEM NOMENCLATURE PE 0605131OTE: Live Fire Test and Evaluation				PROJECT 0605131OTE: 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
0605131OTE: Live Fire Test and Evaluation	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

B Accomplishments/Planned Programs (\$ in Millions)

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 willions)	FY 2011	FY 2012	FY 2013
Title: Live Fire Test and Evaluation	12.834	12.126	49.201
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.			
JLF projects continued to be performed to provide survivability data on currently fielded U.S. systems. JLF Air projects investigated vulnerabilities of aircraft to man-portable air defense systems (MANPADS). Projects are updating models and			

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EV 2011 EV 2012

EV 2012

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Tes	t and Evaluation, Defense	D	ATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	PROJECT 0605131OTE:	Live Fir	e Test and E	/aluation	
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2011	FY 2012	FY 2013
simulation to more accurately take into account vulnerabilities to MANP continued work on large engine vulnerability to MANPADS, including hi 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 and compartment fires.	t point analyses and miss distance measurements w threats from theater and the lethality of U.S. wea nulation tools by providing validation data. JLF Se anal shock trials of ships and submarines and bega	JLF pons a			
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 Plans, Test Plans, System Acquisition Reports, Defense Acquisition Exprograms designated for oversight by DOT&E and OUSD(AT&L). The	ecutive Summary reports, and BLRIP reports for th	nose			
JLF Programs and LFT&E Initiatives					
Conduct tests of fielded systems not previously tested under Air, Land, operator needs. The need for these tests results from systems being e or being operated in new combat environments, and the subsequent necontinue to support and partner with the Joint Trauma Analysis and Preefforts in support of Personnel Protection Equipment, including combat requests that directly support deployed operators and issues of important	exposed to new threats, used in new unanticipated seed for an assessment of their performance. As new ention of Injury in Combat (JTAPIC) program. Conhelmets and body armor. Continue to address urg	tactics, ecessary, ontinue			
Continue to perform JLF projects to provide survivability data on current investigation of an emerging threat first seen in a CH 47 combat incider engine nacelle vulnerability reduction techniques, as well as generic vul arms, and the performance of self sealing fuel tanks using bio-fuels. No and missile debris on aircraft vulnerability, the vulnerability of turboproper 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 improved and simulation. JLF Sea projects will continue to develop key components.	nt, test the vulnerability of sponsons to RPGs, evaluation and the result of the sponsons to RPGs, evaluation and the lethality of the sponsons to RPGs, evaluation and the lethality of the sponson of the lethality of lethalit	uate mall ectiles st J.S. a. New			

PE 0605131OTE: *Live Fire Test and Evaluation* Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense			DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	PROJECT 06051310		e Test and E	valuation	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
submarines, will continue to investigate ship vulnerabilities in the ardamage, and will investigate vulnerabilities of designs and components		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 Plans, Test Plans, System Acquisition Reports, Defense Acquisition programs designated for oversight by DOT&E and OUSD(AT&L). The FY 2013 budget provides Live Fire Plans, Test Plans, System Acquisition Reports, Defense Acquisition Programs designated for oversight by DOT&E and OUSD(AT&L).	n Executive Summary reports, and BLRIP reports for the	nose			
JLF Programs					
Conduct tests of fielded systems not previously tested under Air, La warfighter needs. The need for these tests result from systems being operated in new combat environments, and the subsequent continue to support and partner with the JTAPIC. Continue initiative support deployed warfighters and issues of importance to the Congressional continues.	ng exposed to new threats, used in new unanticipated at need for an assessment of their performance. As nees with crew survivability. Address urgent requests the	tactics, cessary,			
Joint Aircraft Survivability Program (JASP)					
In FY 2013 the JASP will continue work on at least 29 multi-year RE Principal Members Steering Group and OSD/DOT&E. The JASP w rotorcraft combat survivability. In the area of susceptibility reduction countermeasures, electronic countermeasures technology and tech needs. In the area of vulnerability reduction, the JASP will continue vulnerability reduction technology (e.g., armor, fuel containment, fire aircraft survivability M&S, the JASP will continue to improve surviva survivability data, integrate DIA threat missile models into threat eng passenger injuries, and address M&S requirements identified by the	rill apply resources to address aircraft occupant casual in, the JASP will address improving directed energy infriniques, aircrew situational awareness and urgent oper to address requirements for lighter and more effective esuppression, and aircrew and passenger protection). bility M&S credibility, address operator requirements for gagement codes, improve the assessment of aircrew and passenger.	ties and cared cator e In			
The JCAT will continue to support the Air Force, Army, Marine Corp 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	eporting their findings to combatant commanders and t SP will continue supporting aircraft survivability educat	he ion			

PE 0605131OTE: *Live Fire Test and Evaluation* Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense

APPROPRIATION/BUDGET ACTIVITY 460: Operational Test and Evaluation, Defense	R-1 ITEM NOMENCLATURE PE 0605131OTE: Live Fire Test and Evaluation	PROJECT 06051310TE: <i>Liv</i>	e Fire Test and E	valuation
A 6: RDT&E Management Support				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 20°	11 FY 2012	FY 2013
leveloping educational materials and conducting training for the DoD a complete other projects as approved by the JASP Principal Members		ue and		
oint Technical Coordinating Group for Munitions Effectiveness (JTCG				
n support of operational commanders, DoD targeteers, weaponeers, a Veaponeering System (JWS) v2.x in September 2013 and Joint-Antia AS) v5.2 in September 2013.				
WS v2.x will provide new COCOM high priority targets and weapons ntegrated Structural Tool (FIST), and Passive Vehicle Target Model (F-ACE v5.2 will add Browse descriptive material to support new weapokill-chain Models and Data (SAK-MD) capability; and update existing v				
TCG/ME will continue to; (i) develop a predictive capability to assess synergism and incorporate these mechanisms in the JTCG/ME estimate the use of computational physics to improve test design and data analyst sharacterization of weapons addressing blast interactions with structure	xpand and the			
MEMs will continue to be evolved. Fast running operational tools will spically used to support system acquisition decisions. Necessary investment management and validation required to insure their appliances ment will allow more effective and efficient use of DoD resources application of conventional weapons; and will increase operational capera an environment where zero collateral casualties is the expectation; (preferred and prepositioned munitions; (iii) reduced uncertainties and (BDA); (iv) weapon effects in a CM environment; and (v) reduced risk to	estment will be made in those models for the develocability in support of warfighting operations. This is; build on a record of success in supporting Warfight pability in areas such as: (i) precision application of for it is optimal use of scarce and/or high value resource delays in strike planning and Battle Damage Assess	pment, iter irepower s, iment		
	Accomplishments/Planned Programs S	ubtotals 12.	834 12.126	49.20

PE 06051310TE: *Live Fire Test and Evaluation* Operational Test and Evaluation, Defense

N/A

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R-1 Line #2

DATE: February 2012

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: Live Fire Test and Evaluation	060513107	E: 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 documents, assessments, and reports applicable to acquisition programs on the OSD Test and Evaluation Oversight List and other special interest programs/legacy systems that are completed and delivered to the appropriate decision makers on time. Percentage of required products, such as test planning documents, munitions effectiveness manuals, tactic-techniques and reports that are developed and delivered to program managers and customers on time.

Actual Performance and Goals:

Live Fire Test and Evaluation FY 2011 Actual FY 2012 Goal FY 2013 Goal On-Time Completion Rate 90% 93% 95%

The on-time completion rate was computed on the basis of the number required 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 2012 and FY 2013 through continued management emphasis on timely delivery of required reports to customer activities.

PE 06051310TE: *Live Fire Test and Evaluation* Operational Test and Evaluation, Defense

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation, Defense

R-1 ITEM NOMENCLATURE

0460: Operational Test and Evaluation, Defense

PE 0605814OTE: Operational Test Activities and Analyses

DATE: February 2012

BA 6: RDT&E Management Support

APPROPRIATION/BUDGET ACTIVITY

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 (0605131OTE) 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,

PE 0605814OTE: Operational Test Activities and Analyses Operational Test and Evaluation, Defense

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational T	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). Data collected during Center test activities provides valuable information to OSD assessment officers for select oversight programs. The Center assesses current and developing systems, using carefully developed test and evaluation methodologies to provide the basis for understanding how CMs might affect systems used in current and future battlefields. Additionally, the Center develops CM specific test equipment that can be used for both Title 10 programs and OCO urgent operational needs.

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.

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.

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.

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PE 0605814OTE: Operational Test Activities and Analyses

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Operational Test and Evaluation, Defense

R-1 ITEM NOMENCLATURE

0460: Operational Test and Evaluation, Defense

PE 0605814OTE: Operational Test Activities and Analyses

DATE: February 2012

BA 6: RDT&E Management Support

APPROPRIATION/BUDGET ACTIVITY

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 (0605131OTE) and a reduction to the Joint Live Fire Program as part of the overall DoD budget reduction effort.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense					DATE: Feb	uary 2012					
APPROPRIATION/BUDGET ACTIV 0460: Operational Test and Evaluat BA 6: RDT&E Management Suppor	Operational Test and Evaluation, Defense PE 0605814OTE: Operational Test Activities 0605814OTE: OT&A				PE 0605814OTE: Operational Test Activities 0605814OTE: OT&						
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 (0605814OTE) to the Live Fire Test and Evaluation program element (0605131OTE). 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.

ccomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013	
: Operational Test Activities and Analyses	120.135	115.467	63.566	
2011 Accomplishments: Test and Evaluation (JT&E)				
7 2011, JT&E had three projects close and four projects ongoing from FYs 2009 and 2010. The Joint Civil Information agement Joint Test, closed June 2011, developed joint tactics, techniques, and procedures to collect, consolidate, and share information at the tactical and operational levels so that the joint task force commander will have better information to plan ations. Another project that closed in FY 2011 was Joint Data Integration. This project researched, tested, and evaluated the cs, techniques, and procedures for use in standardizing the common tactical picture by addressing the quality of: duplicate is, time latency, common operational picture synchronization, channel disruptions, position/location discrepancies, and ing schema discrepancies. On a continual basis, JT&E reviews nominations for new projects, manages ongoing projects, and ires that closing projects transition products to their customers are debriefed, and that their final reports are distributed to the opriate Service organizations. Two projects were initiated in FY 2011.				
at Systems				
ng FY 2011, Threat Systems completed development of standard, DIA-validated airborne jammer models for use throughout Department to evaluate effects on U.S. aircraft; evaluated proposals to develop and implement a more robust open-air threat comment to make operational testing more realistic; continued to address testing against advanced threats that may be				

PE 0605814OTE: Operational Test Activities and Analyses Operational Test and Evaluation, Defense

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Opera	ational Test and Evaluation, Defense		DATE: F	ebruary 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 06058140	- ' TE: <i>OT&A</i>		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
encountered from adversarial nations; and initiated a project systems for use in Iraq and Afghanistan.	to obtain data to support fielding of upgraded hostile fire inc	dicator			
Threat Systems continued test planning working group particle and provided current intelligence support tailored to specific U connectivity for enhanced weapons systems testing and improsystems. These efforts continued to develop threat test asse year of a four-year project to integrate current intelligence concountermeasure test facilities; successfully demonstrated the to control sub-scale aerial targets; completed the design and effective full-scale aerial target that embodies the critical attribution comprehensive requirements analysis for a new full-scale rotation activities help DOT&E carry out its Title 10 responsibility realistic and suitable and promotes common solutions to Service.	J.S. weapon systems acquisition; and demonstrated test far oving end-to-end testing of U.S. threat warning and counter to used for testing in a joint test environment; continued with mmunity-based missile models into all DoD Hardware-In-The ability of recently developed standards for target control in analysis phase to develop a set of prototype designs for a butes of future 5th generation threat fighter aircraft; and per arry wing target.	cility rmeasures th the third ne-Loop terfaces cost formed a			
Center for Countermeasures (the Center)					
The Center tested, analyzed, and reported on more than 40 e survivability, countermeasures (CM)/ counter-countermeasure precision guided weapons (PGWs). Each program supported support for CM/ CCM evaluations. Approximately 66% of the testing; the majority of these efforts in support of rotary wing a 18% of the Center effort was dedicated to overseas continger deployment training for rotary wing units. About 4% of Cente efforts were spent on internal programs to improve test capable activities. The Center continued development of the Central Threat System, Towed Aerial Plume Simulator and Multi-Spe testing for both Title 10 programs and OCO aircraft survivabil across all the Services as well as intelligence agencies and re-	es (CCMs) employment, warning and targeting systems and received an independent assessment of our findings and a Center efforts were spent on Aircraft Survivability Equipment aircraft and Hostile Fire Indication (HFI) capabilities. Appropriately operations (OCO) support with emphasis on CM based or effort was spent on PGW testing. Thirteen percent of the collities and to develop test methodologies for new types of Test and Evaluation Investment Program sponsored, Joint ctral Sea and Land Target Simulator that will be used in suity equipment urgent operational needs. Our support was determined to the collision of the second s	d test ent (ASE) eximately I pre- Center F&E IRCM pport of			
The Center provided expertise to many organizations and wa Countermeasures (JECM) Integrated Product Team, Joint, Ir	nfrared Countermeasures Multi Sensing Symposia Working				

PE 0605814OTE: Operational Test Activities and Analyses Operational Test and Evaluation, Defense

(MSS IRCM WG), Joint Aircraft Survivability Program (JASP), Foreign Material Exploitation Working Group, Foreign Material

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Tes	st 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: Operational Test Activities and Analyses	PROJECT 0605814C	T DTE: <i>OT&A</i>		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
Program Test and Evaluation (T&E) Subcommittee, Joint Project Malla Group (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (HFI) su		orking			
Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/	ME)				
JWS v2.0.1 and the JTCG/ME generated Chairman of the Joint Chiefs Radii (CER) tables were used for operational weaponeering and collate Odyssey Dawn Tomahawk Land Attack Missile (TLAM) and Joint Direct of operational commanders, DoD targeteers, weaponeers, and planner Weaponeering System (JWS) v2.1 beta version in June 2011. In addit 2011. Joint-Antiair Combat Effectiveness System (J-ACE) Air Superior was released in September 2011.	eral damage estimation calls in direct support of O tt Attack Munition (JDAM) strikes. In continued su s, the JTCG/ME developed and released JMEM ion, development of JWS v2.1 continued througho	peration pport out FY			
JWS v2.1 beta version contained the Fast Integrated Structural Tool (FIST). FIST is the future JMEM operational-level tool that incorporates the integral modules from Building Analysis Module (BAM) and Hardened Target Module (HTM) to create a merged tool that generates weapon effectiveness and damage assessments against infrastructure targets to include buildings, bunkers, and tunnels. In addition, JWS v2.1 release will contain approximately 180 new/updated targets, 15 new/updated munitions, new Explosive Equivalent Weights based on blast testing and an improved 3-D viewer.					
J-ACE v4.1 contained additional threat Surface-to-Air (SAM) Flyout Mo and improved Blue Air-to-Air missile FOMs. J-ACE 4.1 was released in software, consistent with Operational Flight Programs in the currently fi "FrankenWEZ" software was used for threat aircraft missile engagemer simulations were added for the US AIM-7, AIM-9, and AIM-120 and NA improved MSIC threat surface-to-air missiles (SAM) were also added. user requirements; and, interface with other models, simulations, trainin J-ACE v5.0 provided the initial release of the Suite of Antiair Killchain Na significant increase in J-ACE capability. The faster than real time cal miss distance, effects of countermeasures, fuze performance, missile le elements are provided for RED and BLUE weapons. To more effective USSTRATCOM, the JAAM 5.0 release also provides a direct interface expansion was provided only to specific users for extended testing, white all users.	n October 2010. Weapon Engagement Zone (WEi elded fighter fleet was provided for U.S. missiles; nt zone determination. New or updated air-to-air numbers. SIC threat AA-12, Magic 2, and PL-12. Sixteen not software changes continued to better support opening range telemetry and mission planning system is a Models and Data (SAK-MD). SAK-MD software an eculations address missile fly out, target evasive must be and target vulnerability. These key "kill charter support operational mission planning, particular to force level simulations. This initial SAK-MD capetral simulations.	Z) NASIC nissile ew or erational oftware. id data is aneuver, ain" rly at pability			

PE 0605814OTE: Operational Test Activities and Analyses Operational Test and Evaluation, Defense

Exhibit R-2A, RDT&E Project Justification: PB 2013 Operation	nal Test 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: Operational Test Activities and Analyses	PROJEC 06058140	T DTE: <i>OT&A</i>		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
In support of the Combatant Commands and the CJCSI 3160.01 systems. In addition, the JTCG/ME accredited the Digital Precis tool version 1.0.0 in July 2011 for operational use. This tool dispeffective radii reference tables. Additionally, JTCG/ME trained not be removed in JBAM software, the user interface and doc implementation of the Operational Requirement-based Casualty weapon systems to inflict varying levels of personnel incapacitat. The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The JTCG/ME assessed fielded and emerging Information Operational Requirement-based Casualty The Information Casualt	sion Strike Suite (DPSS) Collateral Damage Estimation (Includes accredited Collateral Damage Estimate Level 1-5 American 150 users at 10 different Commands. St Analysis Model (JBAM). Additional damage modules sumentation. Additionally, JTCG/ME developed a strategy Assessment (ORCA) methodology in evaluating the caption to include complete and immediate loss of function.	DCiDE) A-C series By for Bability of Systems	112011	1 1 2012	11 2013
as part of early efforts to create an Effects Based Operations (EBO) evaluation capability set. The scope includes weapon characterization, coordinating test data development and providing operational tools for the IO elements of Computer Network Attack and Electronic Warfare; Laser and Radio Frequency DE; and, NL systems against materiel and personnel targets. This weapon effectiveness and associated confidence level data are critical enablers for application of these weapons as it will provide senior leaders and warfighters with information to develop policy and concepts of operations for their use.					
In FY 2011 the JASP continued work on 28 multi-year RDT&E p Principal Members Steering Group and OSD/DOT&E. In the are directed energy infrared countermeasures, electronic counterme and immediate operator needs. In the area of vulnerability reduce more effective armor, fuel containment, fire suppression; and air and Simulation (M&S), the JASP continued to improve survivability data, integrate DIA threat missile models into threat engagement injuries, and address M&S requirements identified by the joint air documenting projects completed in FY 2011. The JCAT continued to support the Air Force, Army, Marine Corpoperators on threat effects and combat damage assessment, an DoD science and technology and acquisition communities. The	ea of susceptibility reduction, the JASP addressed impro- easures technology and techniques, aircrew situational ar- ction, the JASP continued to address requirements for lig- crew and passenger protection. In aircraft survivability National lity M&S credibility, address operator requirements for su- t codes, improve the assessment of aircrew and passen- reraft survivability community. The JASP published 43 re- ps and Navy by assessing combat damage incidents, tra- did reporting their findings to combatant commanders and	ving wareness ghter and Modeling urvivability ger eports sining the			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Operational Test and Evaluation, Defense

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B. Accomplishments/Planned Programs (\$ in Millions) FY 2011 FY 2012 FY 2013 information exchange through internet sites (restricted access and classified), by publishing the Aircraft Survivability Journal, developing educational materials and conducting training for the DoD and their contractors. FY 2012 Plans: Joint Test and Evaluation (JT&E) In FY 2012 JT&E has two projects slated for closing and an estimated four projects ongoing from FY 2010 and FY 2011. The Joint Integration of Maritime Domain Awareness Joint Test, expected to close in FY 2012, is looking to develop joint tactics, techniques, and procedures to synchronize maritime domain information for key decision markers across operations centers for homeland defense. The other project closing in FY 2012 is Joint Jamming Assessment and Mitigation Joint Test. This project will develop joint tactics, techniques, and procedures to sustain operations in the presence of purposeful interference on the ultra- and super-high frequencies of the satellite communication bands. This will allow commanders and operators to execute operations when satellite communications are degraded. 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. Threat Systems As part of the Secretary of Defense FY 2012 efficiency initiatives, the Target Management Initiative (TMI) was eliminated and funding for investments in advanced threat surrogate developments was reduced. TMI elimination will make the Services solely responsible for the development and acquisition of new threat representative targets and target control systems. Reducing threat surrogate investments will slow but not eliminate development of advanced threat surrogates used in operational test and evaluation. Threat Systems will complete the four-year project to integrate current intelligence community-based missile models into all DoD Hardware-In-The-Loop countermeasure test 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. In addition, Threat Systems will develop an unmanned aerial vehicle Global Positioning Satellite jamming capability using micro jammers to increase threat realism at test ranges, and use existing live fire data to verify and compare MANPAD laboratory and hardware-in-the-loop facility testing capabilities to increase confidence in using other than open air live fire events for operational testing. Initiatives for FY 2012 include development of a modeling and simulation (M&S) roadmap to identify projects that support effective testing of US and Allied countermeasure systems; integration of authoritative, DIA-approved models into

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simulations used for testing advanced systems in an integrated air defense network; data collection to support the development of a hostile fire signature model for use in testing new hostile fire indicator technologies being developed by the Army and Navy;

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B. Accomplishments/Planned Programs (\$ in Millions)		Γ	FY 2011	FY 2012	FY 2013
investigations into digital radio frequency memory use against thre GPS jammers and their potential impact of US weapon systems; a management and command, control, communications and computer the communications and computer the communications and computer the communications are control.	and translation of all source technical intelligence on a	battle			
These activities help DOT&E carry out its Title 10 responsibilities realistic and suitable and promotes common solutions to Service		g is			
Center for Countermeasures (the Center)					
The Center will test, analyze, and report on more than 30 systems with emphasis on rotary wing survivability, Counter measures (CM)/counter-countermeasures (CCMs) employment, warning and targeting systems and precision guided weapons (PGWs). Each program supported will receive an independent assessment of our findings and test support for CM/CCM evaluations. The Center 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, Towed Aerial Plume Simulator and 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 be developing the Threat Simulator Working Group sponsored Hostile Fire Signature model. The Center's support will be distributed across all the Services as well as intelligence agencies and research and development activities.					
The Center provided expertise to many organizations and was ac Countermeasures (JECM) Integrated Product Team, Joint , Infrard (MSS IRCM WG), Joint Aircraft Survivability Program (JASP), For Program Test and Evaluation (T & E) Subcommittee, Joint Project Group (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (H	ed Countermeasures Multi Sensing Symposia Working reign Material Exploitation Working Group, Foreign Mat t Mallari Working Group, Joint Countermeasures T&E \	Group erial			
Joint Technical Coordinating Group for Munitions Effectiveness (J	ITCG/ME)				
In support of operational commanders, DoD targeteers, weaponed Weaponeering System (JWS) v2.1 in December 2011, JWS v2.1. System (J-ACE) Air Superiority (AS) v5.1 in September 2012.		ectiveness			

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
JWS v2.1 will provide a major capability increase to include Fast Integral Cratering Effects (PCEffects), Precision Munitions Planning Tool (PMP Weaponeering and Estimation Tool, Mine methodology, and Hellfire weak Combatant Command targets, other critical data and methodology fixes develop releasable versions of JWS v2.1 in support of combined warfare	TT), Joint Smart Weapons Model (JSWM), Improvaponeering data. JWS v2.1.1 will provide addition to warfighters. In addition, the JTCG/ME will pla	red Ship nal			
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 will continue to provide updates for CER values for newly fielded systems. JTCG/ME will continue to monitor the DCiDE tool version 1.0.0 configuration management process to ensure that subsequent versions of DCiDE accurately reflect the latest JTCG/ME accredited tables; Combatant Command specified population density factors and associated user input. The DCiDE tool will evolve to be the foundation for collateral damage estimation on JWS.					
Advanced Joint Effectiveness Model (AJEM) updates will focus on supp to respond to shortfalls within existing methodology and expanding to su weapons to more precise weapons. The precision of these new weapon Specific methodology tasks will be to (i) add partial impact to prevent un ORCA for use in JTCG/ME studies with AJEM; (iii) expand the suite of proof tools and as plug-in for higher level codes; and (iv) improve blast data for	upport the ongoing paradigm shift from overmatch ns requires a better understanding of target respo der-prediction of JWS lethality; (ii) develop under penetration methodology modules as standalone	ning onse. estating of			
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-Surfadamage and hardened target structure methodology; and, (vi) provide casensitive targets.	M operational tools; (iv) expand existing databas ace Direct/Indirect Fire, and Antiair); (v) enhance	es to collateral			
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,					

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2011	FY 2012	FY 2013
and procedures to enable the joint task force commander to en command and control services from cyber threats across the D Exchange Joint Test is scheduled to close in September 2013.	oD Global Information Grid. The Joint UAS Digital Inform	nation			
In FY 2013, the JT&E Program will begin to experience the imp digress from its business model of funding three Joint Feasibilit (QRTs) annually. FY 2013 will have no new JFS and one addit any Joint Tests chartered in FY 2013.	ty Studies (JFS), two Joint Tests, and three Quick Reaction	on Tests			
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 continue test planning working group participation to identify the intelligence support tailored to specific U.S. weapon systems at to increase threat realism at our test ranges, and complete the signature model for use in hostile fire indicator systems. Threat intelligence agencies and develop models for use in test and expradio frequency memory technology to develop modern threat j	reat shortfalls; conduct special studies and provide currer cquisition; develop Global Positioning Satellite jamming of development of an ammunition and rocket propelled grent Systems will propose candidate threat systems from the valuation. Threat Systems will investigate the integration	nt apability nade e various			
New initiatives for FY 2013 include implementation of M&S roac countermeasure systems are available for testing, developmen on US weapon systems, providing representative cyber warfare resources that represent land and sea threats.	t of next generation threat GPS jammers and their potent	tial impact			
These activities help DOT&E carry out its Title 10 responsibilities realistic and suitable, and promotes common solutions to Servi		g is			
Center for Countermeasures (CCM)					
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B. Accomplishments/Planned Programs (\$ in Millions)	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.	2011	20.2	20.0
The Center will continue 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.)			
Joint Aircraft Survivability Program (JASP) (Starting in FY 2013 JASP is funded under program element 6050113OTE Live Fire Test and Evaluation.)			
Accomplishments/Planned Programs 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.

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BA 6: RDT&E Management Support	and Analyses			
Actual Derformance and Cooler				

Actual Performance and Goals:

Operational Test Activities and Analyses FY 2011 (Actual) FY 2012 (Goal) FY 2013 (Goal) On-Time Completion Rate 94% 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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