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

R-1 ITEM NOMENCLATURE

0460: Operational Test and Evaluation, Defense

PE 0605814OTE: Operational Test Activities and Analyses

DATE: April 2013

BA 6: RDT&E Management Support

APPROPRIATION/BUDGET ACTIVITY

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	113.467	63.566	62.157	-	62.157	63.545	63.892	63.412	56.561	Continuing	Continuing
0605814OTE: <i>OTA&A</i>	-	113.467	63.566	62.157	-	62.157	63.545	63.892	63.412	56.561	Continuing	Continuing

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

Note

Starting in FY 2013 the Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) and the Joint Aircraft Survivability Program (JASP) initiatives 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.

A. Mission Description and Budget Item Justification

The Operational Test Activities and Analyses (OTA&A) programs are continuing efforts that provide management and oversight of test and evaluation functions and expertise to the Department of Defense (DoD). The OTA&A programs consist of three activities: Joint Test and Evaluation (JT&E); Threat Systems (TS); and Center for Countermeasures (CCM).

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,

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

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analyzes test results and provides CM expertise that benefits the Services, Joint activities, T&E Agencies, DoD Acquisition Community, the Intelligence Community, 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.

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.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	115.467	63.566	63.382	-	63.382
Current President's Budget	113.467	63.566	62.157	-	62.157
Total Adjustments	-2.000	0.000	-1.225	-	-1.225
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-2.000	-			
SBIR/STTR Transfer	-	-			
 Progam Realignment/Adjustments 	-	-	-1.225	-	-1.225

Change Summary Explanation

Program Realignment made in support of an administrative contract.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2014 C	Operational ⁻	Test and Ev	valuation, D	efense				DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACTIVITY					NOMENCL			PROJECT	JECT			
·				PE 0605814OTE: Operational Test Activities 0605814OTE: OTA&A								
BA 6: RDT&E Management Support				and Analys	ses							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0605814OTE: <i>OTA&A</i>	-	113.467	63.566	62.157	-	62.157	63.545	63.892	63.412	56.561	Continuing	Continuing
Quantity of RDT&E Articles												

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

A. Mission Description and Budget Item Justification

The Operational Test Activities and Analyses (OTA&A) programs are continuing efforts that provide management and oversight of test and evaluation functions and expertise to the Department of Defense (DoD). The OTA&A programs consist of three activities: Joint Test and Evaluation (JT&E); Threat Systems (TS); and the Center for Countermeasures (CCM). 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.

	B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
	Title: Operational Test Activities and Analyses	113.467	63.566	62.157
- 1	FY 2012 Accomplishments: Joint Test and Evaluation (JT&E)			
	In FY 2012 the JT&E Program leadership began re-engineering the program's business processes after notification of a 43 percent budget reduction starting in FY 2013. The JT&E staff and the program's stakeholders developed a concept of operations (CONOPS), which provides the details of the new business model, based on the revised budget. This CONOPS was briefed to DOT&E leadership and reviewed by Senior Advisory Council (SAC), Executive Steering Group (ESG), and the Technical Advisory Board (TAB), the program's governing bodies, for concurrence.			
	The program had two joint tests close and four joint tests continue past the fiscal year. The Joint Integration of Maritime Domain Awareness for Homeland Defense Joint Test, which developed joint tactics, techniques, and procedures to synchronize information concerning the maritime domain for key decision markers across operations centers for homeland defense, closed in October 2012. The Joint Jamming Assessment and Mitigation Joint Test also closed in October 2012 after developing joint factics, techniques, and procedures to sustain operations in the presence of purposeful interference of satellite communications.			
	Threat Systems			

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

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test	and Evaluation, Defense	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses		1&A	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
As part of the Secretary of Defense FY 2012 efficiency initiatives, Threat (TMI) and reduced funding for investments in advanced threat surrogate solely responsible for the development and acquisition of new threat repr threat surrogate investments will slow but not eliminate development of a evaluation.	developments. TMI elimination will make the Services resentative targets and target control systems. Reducing		20.0	
Threat Systems completed the four-year project to integrate current intell DoD Hardware-In-The-Loop countermeasure test facilities, continued test threat shortfalls; conducted special studies and provided current intelliger acquisition; developed an unmanned aerial vehicle Global Positioning Sa increase threat realism at test ranges, and used existing live fire data to vin-the-loop facility testing capabilities to increase confidence in using other Initiatives for FY 2012 included development of a modeling and simulation effective testing of US and Allied countermeasure systems; integration of used for testing advanced systems in an integrated air defense network; hostile fire signature model for use in testing new hostile fire indicator tecting into digital radio frequency memory use against threat air of GPS jammers and their potential impact of US weapon systems; and transmanagement and command, control, communications and computer systems.	It planning working group participation to identify note support tailored to specific U.S. weapon systems atellite jamming capability using micro jammers to verify and compare MANPAD laboratory and hardwareser than open air live fire events for operational testing. In (M&S) roadmap to identify projects that support authoritative, DIA-approved models into simulations data collection to support the development of a chnologies being developed by the Army and Navy; defense systems; assessments of next generation inslation of all source technical intelligence on a battle tem into a model to support test and evaluation.			
These activities help DOT&E carry out its Title 10 responsibilities to asse realistic and suitable and promotes common solutions to Service threat re				
The Center				
The Center tested, analyzed, and reported on more than 40 systems, wit counter-countermeasures (CCMs) employment, warning and targeting sy an independent assessment of our data/findings and test support for CM efforts were spent on Aircraft Survivability Equipment (ASE) testing; with aircraft. About 17% of the Center's efforts were spent on PGW, foreign s Approximately 6% of the Center's efforts were dedicated to OCO support for rotary wing units. Twenty-three percent of the Center's efforts were s and to develop test methodologies for new types of T&E activities, much Test and Evaluation Investment Program (CTEIP). Programs include the	ystems and PGWs. Each program supported received /CCM evaluations. Approximately 52% of the Center's the majority of these efforts in support of rotary wing system, and other types of field testing not related to ASE. It with emphasis on CM-based, pre-deployment training pent on internal programs to improve test capabilities of which was accomplished in concert with the Central			

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

UI	NCLASSIFIED						
Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test and	Evaluation, Defense		DATE:	April 2013			
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses	PROJEC 06058140	ROJECT				
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014		
Towed Aerial Plume Simulator (TAPS) and Multi-Spectral Sea and Land Targ internal improvements and modernization efforts, additional funding to suppor and forwarded to meet program needs. These systems, as well as a new rem Signature (HSIG) Models, will be used in support of testing for both Title 10 properties of the support was distributed across all the Services as well as intelligence age	t unfunded requirements for MSALTS was recented launch system (RLS) and the Hostile Fire regrams and OCO ASE urgent operational need	ived Is.					
About 2% of the Center's efforts consisted of providing subject matter expertisest activities. The Center provided expertise to many organizations and was Expendable Countermeasures (JECM) Integrated Product Team, Joint Infrare Working Group (MSS IRCM WG), Joint Aircraft Survivability Program (JASP), Foreign Material Program T&E Subcommittee, Joint Project Mallari Working (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (HFI) subgroup lead.	actively involved in the following panels: Joint ed Countermeasures Multi Sensing Symposia Foreign Material Exploitation Working Group, Group, Joint Countermeasures T&E Working Group,	oup					
FY 2013 Plans: Joint Test and Evaluation (JT&E)							
In FY 2013 the program will implement the CONOPS developed the previous model are shorter timelines for project development and execution, as well as house test teams. These two changes will allow test teams to share resource Additionally, the life cycles of the program's quick reaction tests and joint tests bodies will meet concurrently to maximize customer availability and minimize	the designation of permanent Joint Test Units tes, as well as start and execute projects quickly. It is will be aligned so that the program's governing						
The program expects to have two joint tests close and four joint tests continued close is the Joint Cyber Operations Joint Test that is developing tactics, technologistic cyber defense strategy for critical C2 services against cyber threats other test is Joint UAS Digital Information Exchange Joint Test that is develop standardize the information exchange methods and dissemination paths to into support both deliberate and dynamic targeting requirements.	iques, and procedures to enable the use of an across the DoD Global Information Grid. The ing joint tactics, techniques, and procedures to						
The program will conduct two feasibility studies and establish one new joint te	est during FY 2013.						
Threat Systems							

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test and	d Evaluation, Defense		DATE:	April 2013			
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses	PROJEC 0605814	JECT				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2012	FY 2013	FY 2014		
Threat Systems will continue test planning working group participation to ide provide current intelligence support tailored to specific U.S. weapon system Positioning Satellite jamming capabilities to increase threat realism at our teammunition and rocket propelled grenade signature model for use in hostile threat systems from the various intelligence agencies and develop models fintegration of digital radio frequency memory (DRFM) technology to develop	s acquisitions; continue the development of Globa est ranges, and continue the development of an efire indicator systems. We will propose candidat for use in test and evaluation. We will investigate	d al e	1 2012	112010			
New initiatives for FY 2013 include implementation of M&S roadmap project countermeasure systems are available for testing by initiating a performance missile related threats, development of next generation threat GPS jammers providing representative cyber warfare threats for testing, and identify and pand sea threats. In addition, we will concentrate on improving our understate technical analyses to determine those characteristics we need to provide to densities in potential engagements.	e model sustainment capability, investigating balli s and their potential impact on US weapon systen provide alternative test resources that represent la nding of WESTPAC threats by initiating a series of	ns, nd of					
These activities help DOT&E carry out its Title 10 responsibilities to assess realistic and suitable, and promotes common solutions to Service threat rep							
The Center							
The Center will test, analyze, and report on more than 30 systems with employment, warning and targeting systems and PGWs. Each program supour data/findings and test support for CM/ CCM evaluations. We will continuit with a clear focus on Title 10 weapons systems, aircraft survivability and hoongoing efforts will focus on aircraft survivability testing in support of current will continue to provide CM expertise in pre-deployment events and training (TTP) development. The Center will continue to develop the CTEIP-sponsof for both Title 10 programs and OCO ASE urgent operational needs. The Ce Working Group (TSWG) sponsored HSIG model. Our support will be distributed agencies and research and development activities.	opported will receive an independent assessment of use to emphasize support of the DOT&E enterprise stile fire initiatives. Additionally, a large percentage to OCO. In addition to these test activities, the Cere, as well as CM/CCM-focused tactics and procedured, MSALTS, which will be used in support of terenter will continue working with the Threat Simula	e, ge of nter ures sting tor					
The Center will provide expertise to many organizations and will continue to Integrated Product Team, Joint Infrared Countermeasures Multi Sensing Sy		М					

	UNCLASSIFIED					
Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational	Test and Evaluation, Defense		DATE:	April 2013		
APPROPRIATION/BUDGET ACTIVITY 0460: Operational Test and Evaluation, Defense BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0605814OTE: Operational Test Activities and Analyses	PROJEC 06058140	OJECT 05814OTE: <i>OTA&A</i>			
B. Accomplishments/Planned Programs (\$ in Millions)		F'	Y 2012	FY 2013	FY 2014	
Foreign Material Exploitation Working Group, Foreign Material Prog JCMT&E WG, and JCMT&E WG HFI subgroup lead.	gram T&E Subcommittee, Joint Project Mallari Working Gro					
FY 2014 Plans: Joint Test and Evaluation (JT&E)						
By FY 2014 the program will be on the nomination-selection-execu business model to improve the program.	tion cycle developed in FY 2012, but will continually adjust	the				
In FY 2014 JT&E has two projects slated for closing and an estima Capability Employment Joint Test, anticipated to close in August 20 enable the joint task force commander to employ advanced capabi Deployable Integrated Air and Missile Defense Joint Test, schedule tactics, techniques, and procedures to enable the joint task force cound theater ballistic missile defense capabilities.	t					
Four new feasibility studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of whether the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, the studies will be conducted in FY 2014, two of which the studies will be conducted in FY 2014, the studies will be c	hich will be selected to conduct joint tests.					
Threat Systems						
Threat Systems will continue test planning working group participat conduct special studies and provide current intelligence support tai the development of Global Positioning Satellite jamming capabilitie the development of an ammunition and rocket propelled grenade s propose candidate threat systems from the various intelligence age will continue efforts to maintain a standard set of threat performance the initial hostile fire indicator model for small arms and RPGs and	lored to specific U.S. weapon systems acquisitions; continues to increase threat realism at our test ranges, and completing ignature model for use in hostile fire indicator systems. We encies and develop models for use in test and evaluation. See models for use in test and comp	ue te e will We				
New initiatives for FY 2014 include investigations into advanced the imaging seekers; adding threat signature sustainment for missiles, use in infrared countermeasures testing; determine how best to including use in GPS-deprived environments; continue investand consider addition of more small arms threats to the hostile fire	small arms and rockets to augment performance models for corporate threats into unmanned aerial vehicles to service stigation into producing representative threats for cyber tes	or				

Exhibit R-2A, RDT&E Project Justification: PB 2014 Operational Test and E	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
0460: Operational Test and Evaluation, Defense	PE 0605814OTE: Operational Test Activities	06058140	TE: <i>OTA&A</i>
BA 6: RDT&E Management Support	and Analyses		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
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.			
The Center			
The Center will test, analyze, and report on more than 30 electro-optical systems with special emphasis on rotary wing survivability, CMs/CCMs employment, warning and targeting systems and PGWs. Each program supported will receive an independent assessment of our data/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 ongoing efforts will focus on aircraft survivability testing in support of current OCO. Furthermore, the Center will continue to provide CM expertise in pre-deployment events and training, as well as CM/CCM-focused TTP development. The Center will continue to develop the CTEIP-sponsored MSALTS, which will be used in support of testing for both Title 10 programs and OCO ASE urgent operational needs. The Center will continue to work with the TSWG-sponsored HSIG model. Our support will be distributed across all the Services as well as intelligence agencies and research and development activities.			
The Center will provide expertise to many organizations and will continue to be actively involved in the following panels: JECM Integrated Product Team, Joint Infrared Countermeasures Multi Sensing Symposia Working Group (MSS IRCM WG), JASP,			
Foreign Material Exploitation Working Group, Foreign Material Program T&E Subcommittee, Joint Project Mallari Working Group, JCMT&E WG, and JCMT&E WG HFI subgroup lead.			
Accomplishments/Planned Programs Subtotals	113.467	63.566	62.157

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

N/A

Remarks

D. Acquisition Strategy

Not Applicable

E. Performance Metrics

(U) PERFORMANCE METRICS:

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

APPROPRIATION/BUDGET ACTIVITY

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R-1 ITEM NOMENCLATURE

PE 0605814OTE: Operational Test Activities and Analyses

Performance Measure: Percentage of required products, such as test planning documents, tactics, techniques, procedures, threat characteristics, assessments, and reports that are developed and delivered to program managers and customers on time.

Actual Performance and Goals:

Operational Test Activities and Analyses FY 2012 (Actual) FY 2013 (Goal) FY 2014 (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 2013 and FY 2014 through increased

management emphasis on timely delivery of required products to customer activities.