Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Operational Test and Evaluation, Defense

R-1 Program Element (Number/Name)

0460: Operational Test and Evaluation, Defense I BA 6: RDT&E Management | PE 0605814OTE I Operational Test Activities and Analyses

Date: March 2014

Support

Appropriation/Budget Activity

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	113.467	73.317	121.948	48.013	-	48.013	47.754	48.538	49.506	50.462	Continuing	Continuing
0605814OTE: <i>OTA&A</i>	113.467	73.317	121.948	48.013	-	48.013	47.754	48.538	49.506	50.462	Continuing	Continuing

[#] The FY 2015 OCO Request will be submitted at a later date.

Note

Starting in FY 2013 the Joint Technical Coordinating Group for Munitions Effectiveness (JTCG/ME) and the Joint Aircraft Survivability Program (JASP) initiatives were 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 complements the DoD Acquisition System by developing new tactics, techniques, and procedures (TTPs) to improve the effectiveness of existing fielded systems. JT&E 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 nonmaterial 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 TTPs 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 for Countermeasures (The Center), a Joint Service Countermeasure (CM) Test and Evaluation Center, serves as DoD's independent evaluator for electrooptical systems with emphasis on rotary wing survivability, precision guided weapons (PGWs), CMs/counter-countermeasures (CCMs) employment, and warning

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Operational Test and Evaluation, Defense Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

0460: Operational Test and Evaluation, Defense I BA 6: RDT&E Management | PE 0605814OTE I Operational Test Activities and Analyses Support

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, 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 Acquisition Systems 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 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	63.566	62.157	63.545	-	63.545
Current President's Budget	73.317	121.948	48.013	-	48.013
Total Adjustments	9.751	59.791	-15.532	-	-15.532
 Congressional General Reductions 	-0.110	-			
 Congressional Directed Reductions 	-5.641	-0.709			
 Congressional Rescissions 	-	-			
 Congressional Adds 	19.500	60.500			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-3.998	-			
SBIR/STTR Transfer	-	-			
Budget Control Act	-	-	-15.434	-	-15.434
Travel Efficiencies	-	-	-0.098	-	-0.098

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 0605814OTE: OTA&A

Congressional Add: Unjustified reduction

Congressional Add: Electronic WarfareTest Capability

ns)	FY 2013	FY 2014
	19.500	-
	-	60.500
Congressional Add Subtotals for Project: 0605814OTE	19.500	60.500
Congressional Add Totals for all Projects	19.500	60.500

Congressional Add Totals for all Projection

Exhibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and Evaluation, Defense										Date: March 2014			
Appropriation/Budget Activity 0460 / 6				R-1 Program Element (Number/Name) PE 0605814OTE / Operational Test Activities and Analyses				Project (Number/Name) 0605814OTE / OTA&A					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
0605814OTE: <i>OTA&A</i>	113.467	73.317	121.948	48.013	-	48.013	47.754	48.538	49.506	50.462	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

[#] The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

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

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 were 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.

Title: Operational Test Activities and Analyses	53.817	61.448	48.013
FY 2013 Accomplishments: Joint Test and Evaluation (JT&E) In FY 2013 the JT&E Program leadership implemented changes to the program's business processes due to a 43 percent budget reduction starting this fiscal year. The JT&E staff and the program's stakeholders developed a concept of operations (CONOPS) in FY 2012 that provided the details of the new business model, based on the revised budget. The most significant changes in the new model are shorter timelines for project development and execution, as well as the designation of permanent facilities to house test teams. These two changes will allow test teams to share resources, as well as staff and execute new projects quickly. Additionally, the selection cycles of the program's quick reaction tests and joint tests will be aligned so that the program's governing bodies will meet concurrently to maximize effectiveness and minimize travel costs.			
The program had three joint tests close and four joint tests continue in the fiscal year. One of the three tests to close was 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, completed in October 2012. The next test to close, Joint Cyber Operations Joint Test, developed and evaluated tactics, techniques, and procedures to enable the use of an adaptive cyber defense strategy for critical C2 services against cyber threats across the DoD Global Information Grid. The third test that closed at the end of the fiscal year was the Joint Unmanned Aircraft Systems (UAS) Digital Information Exchange Joint Test, which developed joint tactics, techniques, and procedures to standardize the information exchange methods and dissemination paths to integrate UAS-derived information across the Services to support both deliberate and dynamic targeting requirements.			

FY 2013

FY 2014

FY 2015

Exhibit R-2A, RDT&E Project Justification: PB 2015 Oper	rational Test and Evaluation, Defense		Date: N	March 2014	
Appropriation/Budget Activity 0460 / 6		(Number/I OTE / OT			
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2013	FY 2014	FY 2015
The program did initiate ten quick reaction tests, which are s program also initiated one special project. Four feasibility st	e to the lack of nominations that met the new submission guidel short term projects directed to work on problems of limited scope tudies will be conducted in the second half of the fiscal year install be selected to conduct joint tests to place the program on trace	e. The ead of			
Threat Systems					
provided current intelligence support tailored to specific U.S.	cipation to identify threat shortfalls; conducted special studies a weapon systems acquisitions; continued the development of crealism at our test ranges, and continued the development of arouse in hostile fire indicator systems.	Slobal			
infrared countermeasure systems are available for testing. system for the development, maintenance, anomaly resolution and Allied representation. Threat Systems also initiated an of the follow-on next generation threat GPS jammer; and ide Threat Systems managed a series of technical analyses of V	ing the threat M&S roadmap to ensure threats to US and Allied Threat Systems established a formal configuration managemen on and distribution of threat performance models with tri-Service investigation of ballistic missile related threats; began developmentified representative cyber warfare threats for testing. In addit WESTPAC threats by each of the Intelligence Production Cente equately emulate current threats and their densities in potential	t e nent ion, rs			
These activities help DOT&E carry out its Title 10 responsible realistic and suitable, and promotes common solutions to Se	ilities to assess test adequacy and determine whether testing is ervice threat representation needs.				
The Center					
emphasis on rotary wing survivability, CM/CCM employment supported received an independent assessment of our data/ Approximately 49% of the Center's efforts were spent on airc these efforts in support of rotary wing aircraft. About 11% of	and reported on more than 40 different systems, with special t, warning and targeting systems, and PGWs. Most programs /findings and test support for their CM/CCM evaluations. craft survivability equipment (ASE) testing; with the majority of f the Center's efforts were spent on PGW, foreign systems, and y 6% of the Center's efforts were dedicated to OCO support, wi				

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

Exhibit R-2A, RDT&E Project Justification: PB 2015 Opera	ational Test and Evaluation, Defense		Date: N	1arch 2014	
Appropriation/Budget Activity 0460 / 6		ct (Number/l 3140TE / <i>OT/</i>			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
on internal programs to improve test capabilities and to develop which was accomplished in concert with the Central Test and CTEIP-sponsored, Joint Mobile Infrared Countermeasure Test Spectral Sea and Land Target Simulator (MSALTS). The Certainternally funded Portable Range Threat Simulator (PRTS) cat (RLS) and the Hostile Fire Signature (HSIG) Models, will be used.	ring units. Thirty two percent of the Center's efforts were spent op test methodologies for new types of T&E activities, much of Evaluation Investment Program (CTEIP). Programs include the St System (JMITS), Towed Aerial Plume Simulator (TAPS) and inter is expanding in the electronic warfare (EW) realm with a napability. These systems, as well as the new remote launch sy used in support of testing for both Title 10 programs and OCO as all the Services, as well as intelligence agencies and research	ne Multi- ew stems ASE			
test activities. The Center provided expertise to many organiz Expendable Countermeasures (JECM) Integrated Product Te Working Group (MSS IRCM WG), Joint Aircraft Survivability F	ct matter expertise and other support not directly related to sch zations and was actively involved in the following panels: Joint eam, Joint Infrared Countermeasures Multi Sensing Symposia Program (JASP), Foreign Material Exploitation Working Group, Mallari Working Group, Joint Countermeasures T&E Working (I) subgroup lead.	t			
FY 2014 Plans: Joint Test and Evaluation (JT&E)					
By FY 2014, the program will be on the nomination-selection-business model to improve the process.	execution cycle developed in FY 2012, but will continually adju	ıst the			
Advanced Capability Employment Joint Test, anticipated to cl procedures to enable the joint task force commander to emplo The Joint Deployable Integrated Air and Missile Defense Join	at of the four joint test projects ongoing from FY 2013. The Join lose in August 2014, will to develop and test tactics, techniques by advanced capabilities to overcome complex targeting challe at Test, scheduled to close in June 2014, will develop, test, and int task force commander to employ integrated deployable air,	s, and enges.			
Four new feasibility studies will be conducted in FY 2014, two	o of which will be selected to conduct joint tests.				
Threat Systems					

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Operationa	al Test and Evaluation, Defense		Date: N	larch 2014	
				Name) 4 <i>&A</i>	
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
Beginning in FY 2014, Threat Systems will re-scope its DOT&E-full technical threat analyses needed for the development of modern a limitations for electronic warfare and advanced avionics programs.	and advanced threat test assets which are currently test				
Threat Systems will continue test planning working group participal conduct special studies and provide current intelligence support ta managing intelligence "deep dives" to produce intelligence in sufficient that modeling and simulation configuration control board if continue the development and implementation of a tri-Service and systems have sufficient threat test assets. Threat Systems will produce the continue threat shortfalls, identifying candidate threat systems development of models for use in test and evaluation. Threat Systems threat performance models and incorporate the initial hostile fire in evaluation facilities and continue investigating ballistic missile relative realistic and suitable, and promotes common solutions to Service to	ciliored to specific U.S. weapon systems acquisitions; conti- cient detail to develop new threat test assets; operate and for threat models and simulation used in test facilities; and Allied threat M&S roadmap to ensure infrared countermed opose, manage and oversee threat test assets that support tems from the various intelligence agencies for possible tems will also continue efforts to maintain a standard set of adicator model for small arms and RPGs for use in test and ted threats.	asure rt of			
The Center					
The Center will test, analyze, and report on more than 30 systems employment, warning and targeting systems, and PGWs. Each pr of our data/findings and test support for CM/CCM evaluations. The enterprise, with a clear focus on Title 10 weapons systems, aircraft conduct ongoing investigations towards determining and filling the these test activities, the Center will continue to provide CM expertifocused tactics, techniques and procedures (TTP) development. Sponsored MSALTS, which will be used in support of testing for be Center will work with CTEIP and AEDC on the development of JSI Center will complete the development of a new RLS capable of laudevelopment of the PRTS, expanding its output power and our cap continue working with the Threat Simulator Working Group (TSWG across all the Services, as well as intelligence agencies and researched.	rogram supported will receive an independent assessment of the Center will continue to emphasize support of the DOT&I of the survivability and hostile fire initiatives. It will continue to gaps in EW and multimode system testing. In addition to see in pre-deployment events and training, as well as CM/OThe Center will complete the initial development of the CT of the Title 10 programs and ASE urgent operational needs. IS to add enhanced data collection for radiometric events. Unching larger diameter missiles. The Center plans to compability to support multimode guidance T&E. The Center of S)-sponsored HSIG model. Our support will be distributed	CCM- EIP- The The nplete			

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nal Test and Evaluation, Defense	Date:	March 2014	
	FY 2013	FY 2014	FY 2015
Sensing Symposia Working Group (MSS IRCM WG), JASF	Ρ,		
vill develop and test integrated air and missile defense opera ow, slow, and small UASs and provide timely notification to Airspace Integration Joint Test, scheduled to close in July 2	ator the 2015,		
which will be selected to conduct joint tests.			
group participation and perform technical analyses to identiful elligence support tailored to specific U.S. weapon systems	fy		
reports when necessary n by overseeing and coordinating intelligence community plution resolving differences from live fire testing, integrating ature models to T&E users. ple Sources (ITEAMS) efforts supporting F-35 and other EV elligence in sufficient detail to develop new threat test asset by coordinating groups, and non-proliferation groups to raise be requirements, and de-conflict and prioritize foreign material	threat V s.		
	R-1 Program Element (Number/Name) PE 0605814OTE / Operational Test Activities and Analyses continue to be actively involved in the following panels: JE Sensing Symposia Working Group (MSS IRCM WG), JASF Program T&E Subcommittee, Joint Project Mallari Working Content of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects ongoing from FY 2014. The Joint Counter of the four projects on the Joint Test, scheduled to close in July 2 fires to support effective UAS flight operations in the National of the Which will be selected to conduct joint tests. The four projects ongoing from FY 2014. The Joint Counter of the Joint Cou	R-1 Program Element (Number/Name) PE 0605814OTE / Operational Test Activities and Analyses FY 2013 FY 2013 FY 2013 FY 2013 FY 2013 FY 2014 Continue to be actively involved in the following panels: JECM Sensing Symposia Working Group (MSS IRCM WG), JASP, Program T&E Subcommittee, Joint Project Mallari Working Group, Ited four projects ongoing from FY 2014. The Joint Counter Low, Fill develop and test integrated air and missile defense operator ow, slow, and small UASs and provide timely notification to the Airspace Integration Joint Test, scheduled to close in July 2015, First to support effective UAS flight operations in the National which will be selected to conduct joint tests. Group participation and perform technical analyses to identify elligence support tailored to specific U.S. weapon systems Compared to the Compared t	R-1 Program Element (Number/Name) PE 0605814OTE / Operational Test Activities and Analyses FY 2013 FY 2014 FY 2013 FY 2014 FY 2013 FY 2014 FY 2015 FY 2015 FY 2016 FY 2016 FY 2016 FY 2016 FY 2016 FY 2016 FY 2016 FY 2016 FY 2017 FY 2016 FY 2017 FY 2017 FY 2018 FY 2018 FY 2018 FY 2018 FY 2019 FY 20

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and	Evaluation, Defense			Date: N	larch 2014		
Appropriation/Budget Activity 0460 / 6	R-1 Program Element (Number/Name) PE 0605814OTE / Operational Test Activities and Analyses Project (Number/Name) 0605814OTE / OTA&A						
B. Accomplishments/Planned Programs (\$ in Millions)				FY 2013	FY 2014	FY 2015	
These activities help DOT&E carry out its Title 10 responsibilities to assess to realistic and suitable, and promotes common solutions to Service threat representations.		testing is					
The Center							
employment, warning and targeting systems, and PGWs. Each program sup data/findings and test support for CM/ CCM evaluations. The Center will con with a clear focus on Title 10 weapons systems, aircraft survivability and host continue to provide CM expertise in pre-deployment events and training, as v Center will continue Improvement and Modernization (I&M) efforts to improve to work with the TSWG-sponsored HSIG model. Our support will be distribut agencies and research and development activities. The Center will provide expertise to many organizations and will continue to be Integrated Product Team, Joint Infrared Countermeasures Multi Sensing Syn Foreign Material Exploitation Working Group, Foreign Material Program T&E JCMT&E WG, and JCMT&E WG HFI subgroup lead.	Intinue to emphasize support of the DC tile fire initiatives. Furthermore, the Covell as CM/CCM-focused TTP develope our T&E capabilities. The Center was across all the Services, as well as the actively involved in the following paraposia Working Group (MSS IRCM Working Group (MSS IRCM Working Group (MSS IRCM Working Group)	OT&E enter Center will pment. Th ill continue intelligenc anels: JEC VG), JASP, Working Gr	e e e CM				
	Accomplishments/Planned Prog	grams Sub	totals	53.817	61.448	48.01	
		FY 2013	FY 20	014			
Congressional Add: Unjustified reduction		19.500		-			
FY 2013 Accomplishments: JT&E started several new projects in August 20 (JFS), an increase of two JFSs over the baseline budget, and 2) eight Quick of four over the baseline budget. Ultimately, seven QRTs were directed becapecoy Support to Stand-off Weapons QRT candidate was not technically support to Stand-off Weapons QRT candidate was not	Reaction Tests (QRTs), an increase ause the Miniature Air Launched						
FY 2014 Plans: Rather than the normally planned six QRTs, JT&E is planning February 14 SAC will select two Joint Tests and two new JFSs, resulting in a							
Congressional Add: Electronic WarfareTest Capability		-	60	.500			
FY 2014 Plans: In FY14 \$60.5M was transferred to DOT&E to rapidly develor systems for open-air range testing of F-35 and other air warfare weapon systems.							

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

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R-1 Line #3

Exhibit R-2A, RDT&E Project Justification: PB 2015 Operat	ional Test and Evaluation, Defense	Date: March 2014
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	FY 2013	FY 2014

	FY 2013	FY 2014
by developmental and operational testing, and eventually for training scenarios. They will provide realistic		
density and emulate behavior of numerous advanced threat systems.		
Congressional Adds Subtotals	19.500	60.500

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

N/A

Remarks

D. Acquisition Strategy

Not Applicable

E. Performance Metrics

(U) PERFORMANCE METRICS:

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 2013 (Actual) FY 2014 (Goal) FY 2015 (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 2014 and FY 2015 through increased management emphasis on timely delivery of required products to customer activities.