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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Operational Test and Evaluation, Defense **Date:** February 2016

Appropriation/Budget Activity 0460: <i>Operational Test and Evaluation, Defense I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605814OTE / <i>Operational Test Activities and Analyses</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	62.157	70.346	63.763	52.631	-	52.631	58.002	59.631	50.042	51.438	Continuing	Continuing
0605814OTE: OTA&A	62.157	70.346	63.763	52.631	-	52.631	58.002	59.631	50.042	51.438	Continuing	Continuing

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-materiel 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 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. 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) T&E Activity, directs, coordinates, supports, and conducts independent countermeasure/counter-countermeasure (CCM) T&E activities of U.S. and foreign weapon systems, subsystems, sensors, and related components. The Center accomplishes this work in support of DOT&E, Deputy Assistant Secretary of Defense (DASD) for Developmental Test and Evaluation (DT&E), weapon system developers, and the Services. The Center's testing and analyses directly supports operational effectiveness and suitability evaluations of CM/CCM systems, such as missile warning and aircraft survivability equipment (ASE), used on rotary-wing and fixed-wing aircraft. The Center develops unique CM/CCM test equipment to support testing in operationally realistic environments. The Center determines effectiveness of precision guided weapon (PGW) systems and subsystems when operating in an environment degraded by CMs. Analysis and recommendations on CM/CCM effectiveness are provided to Service Program Offices, DOT&E, DASD (DT&E), and the Services. The Center also supports Service member exercises, training, and pre-deployment activities with expertise on CM/CCM technology and capabilities.

This Program Element includes funds to obtain Federally Funded Research and Development support and travel funds.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	70.346	46.838	47.810	-	47.810
Current President's Budget	70.346	63.763	52.631	-	52.631
Total Adjustments	0.000	16.925	4.821	-	4.821
• Congressional General Reductions	-	-1.075			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	18.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Enhancement for Fifth Generation Aerial Target (5GAT)	-	-	6.600	-	6.600
• Inflation/Economic Adjustment	-	-	-1.779	-	-1.779

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

Project: 0605814OTE: *OTA&A*

Congressional Add: *Joint Test and Evaluation*

Congressional Add: *Threat Resource Analysis*

	FY 2015	FY 2016
	18.000	10.000
	5.000	8.000
Congressional Add Subtotals for Project: 0605814OTE	23.000	18.000
Congressional Add Totals for all Projects	23.000	18.000

Change Summary Explanation

Enhancement for Fifth Generation Aerial Target (5GAT) of \$6.6 in FY 2017

Inflation/Economic Adjustment of -\$1.779 in FY 2017

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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
0605814OTE: OTA&A	62.157	70.346	63.763	52.631	-	52.631	58.002	59.631	50.042	51.438	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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).

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

	FY 2015	FY 2016	FY 2017
Title: Operational Test Activities and Analyses	47.346	45.763	52.631
FY 2015 Accomplishments: Joint Test and Evaluation (JT&E)			
In FY 2015, JT&E closed two projects with six projects ongoing from FY 2014 and 2015. Joint Counter Low, Slow, Small Unmanned Aircraft Systems (UAS), closed in April 2015, developed and tested integrated air and missile defense operator procedures in order to increase an operator's ability to detect, track, and identify low, slow, and small UASs and provide timely notification to the air defense commander. The Unmanned Aircraft Systems Airspace Integration Joint Test, closed in July 2015, developed and tested DoD UAS procedures to support effective UAS flight operations in the National Airspace System.			
Three new feasibility studies were conducted in FY 2015, two of which were selected to conduct joint tests.			
Threat Systems			
Threat Systems continued test planning working group participation and performed technical analyses to identify threat shortfalls; conducted special studies and provided current intelligence support tailored to specific U.S. weapon systems acquisitions; continued managing intelligence "deep dives" to produce intelligence in sufficient detail to develop new threat test assets; operated and maintained the modeling and simulation configuration control board for threat models and simulation used in test facilities; and continued the development and implementation of a tri-Service and Allied threat M&S roadmap to ensure infrared countermeasure systems have sufficient threat test assets. Threat Systems proposed, managed, and oversaw threat test assets funded by the Test Resource Management Center that support DOT&E-identified threat shortfalls, identified candidate threat systems from the various intelligence agencies for possible development of models for use in test and evaluation. Threat Systems also continued efforts to maintain a standard set of threat performance models.			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>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.</p> <p>The Center</p> <p>The Center completed 35 T&E activities and analyzed and reported on more than 27 different systems, with special emphasis on aircraft survivability, CM/CCM employment, warning systems, and PGWs. Most programs supported received an independent assessment of our data/findings and test support for their CM/CCM evaluations. Approximately 51% of the Center's efforts were spent on aircraft survivability equipment (ASE) testing; with the majority of these efforts in support of rotary wing aircraft. About 22% of the Center's efforts were spent on PGW, foreign systems, and other types of field testing not related to ASE. Approximately 7% of the Center's efforts were dedicated to training support, with emphasis on CM-based, pre-deployment training for rotary wing units. Seventeen percent of the Center's efforts were spent on internal programs to improve test capabilities and to develop test methodologies for new types of T&E activities. The Center continued to develop multiple test tools for evaluating ASE infrared countermeasure (IRCM) systems and Hostile Fire Indication (HFI) systems. In addition, the Center is improving its electronic warfare capability with the development of the high-power Portable Range Threat Simulator (HPRTS) that will provide a more comprehensive integrated ASE T&E environment. Our support was distributed across all the Services, as well as intelligence agencies and research and development activities. About 3% of the Center's efforts consisted of providing subject matter expertise and other support not directly related to scheduled test activities.</p> <p>The Center expanded its test capability this year. Two additional remote launchers were brought on board and used in testing. All three remote launchers were upgraded to handle newer missile threats, one of the new launchers is capable of firing larger format missiles. Multi-Spectral Sea and Land Target Simulator (MSALTS) and Joint Mobile Infrared Countermeasures Test System (JMITS) were upgraded to make their signatures more realistic. A Portable Radar Threat System was procured and began undergoing Verification, Validation, and Accreditation (VV&A) assessments. The JSIS van vehicle was completed late in FY 2015.</p> <p>The Center provided expertise to many organizations and was actively involved in the following panels: Joint Expendable Countermeasures (JECM) Integrated Product Team, Joint Infrared Countermeasures Multi Sensing Symposia Working Group (MSS IRCM WG), Joint Aircraft Survivability Program (JASP), Foreign Material Exploitation Working Group, Foreign Material Program T&E Subcommittee, Joint Countermeasures T&E Working Group (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (HFI) subgroup lead.</p> <p>FY 2016 Plans:</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>Joint Test and Evaluation (JT&E)</p> <p>In FY 2016 JT&E has four projects slated to close and an estimated four projects ongoing from FY 2015 and 2016. One of the projects to close will be the Joint Base Architecture for Secure Industrial Control Systems Joint Test that is currently assessing and refining joint industrial control systems network tactics, techniques, and procedures to better identify, mitigate, and recover from advanced, persistent cyber-attacks. Another project anticipated to close is the Joint Tactical Air Picture Joint Test that will develop tactics, techniques, and procedures to provide an improved tactical air picture that decreases the risk of hostile attacks and fratricide as well as increases the effective use of integrated air and missile defense systems.</p> <p>Four new feasibility studies are expected to be conducted in FY 2016, two of which will be selected to conduct joint tests.</p> <p>Threat Systems</p> <p>In FY 2016, Threat Systems will continue test planning working group participation and perform technical analyses to identify threat shortfalls; conduct special studies and provide current intelligence support tailored to specific U.S. weapon systems acquisitions based on the availability of funding. Threat Systems will:</p> <ul style="list-style-type: none"> - Provide intelligence support to DOT&E staff to address specific questions on threat systems affecting programs on the OSD T&E Oversight list and provide briefings and special intelligence reports when necessary. - Support the US warfighter by providing threat intelligence to ensure operational and developmental testing occurs against realistic threat representations. - Sustain and manage threat M&S to support test and evaluation by overseeing and coordinating intelligence community developed threat models, performing threat model anomaly resolution resolving differences from live fire testing, integrating threat models into T&E facilities and distributing performance and signature models to T&E users. - Review validation reports to independently ensure that correct threat data and critical parameters are presented in the report to assessment the threat representation's capabilities to replicate a real world threat system. - Continue Identifying initiatives to improve cyberspace threat representation and prediction, cyber-economic threats to DoD systems, representative threat offensive and defensive cyber operations capabilities, and scalable cyberspace threat test environments that can interface with cyber test networks. - Manage Integrated Technical Evaluation and Analysis of Multiple Sources (ITEAMS) efforts supporting programs on the OSD T&E Oversight List by conducting intelligence "deep dives" to produce intelligence in sufficient detail to develop new threat test assets. - Initiate new ITEAMS leading to the development of new threat systems for T&E based on the availability of funding. 			

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

	FY 2015	FY 2016	FY 2017
<p>- Represent DOT&E at foreign material exchanges, inter-agency coordinating groups, and non-proliferation groups to raise awareness of T&E needs for foreign material, coordinate service requirements, and de-conflict and prioritize foreign material requirements for T&E.</p> <p>- Represent DOT&E at the Intelligence Mission Data Oversight Board responsible for development, production and sharing issues affecting the intelligence data supporting weapons systems acquisition.</p> <p>- Oversee legacy DOT&E investments and continue management and oversight of legacy and new Test Resource Management Center-funded threat system investments.</p> <p>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.</p> <p>The Center</p> <p>The Center will complete Initial Operating Capability (IOC) development of the Joint Standard Instrumentation Suite (JSIS), which will be used to collect threat signature data for developing/improving threat models. The Center will complete the development of the HPRTS and perform a VV&A assessment of the system. The Center will continue working with the Threat Simulator Working Group (TSWG)-sponsored HSI model. The Center will begin assessing Integrated ASE test methodologies to prepare for future T&E requirements of Integrated ASE system. The Center will work with Missile and Space Intelligence Center (MSIC) to expand the capabilities of the Remote Launching System (RLS) to handle newer threats needed to meet program T&E requirements.</p> <p>The Center is currently scheduled to test, analyze, and report on more than 30 systems and subsystems, with emphasis on rotary wing survivability, CM/CCM employment, and PGWs. Each program supported will receive an independent assessment of our data/findings and test support for CM/CCM evaluations. The Center will continue to emphasize support of DOT&E priorities, with a clear focus on Title 10 weapons systems, aircraft survivability and hostile fire initiatives. The Center will continue to conduct ongoing investigations towards determining and filling the gaps in EW and multimode system testing. In addition to these test activities, the Center will continue to provide CM expertise in pre-deployment events and training, as well as CM/CCM-focused tactics, techniques and procedures (TTP) development. Our support will be distributed across all the Services, as well as intelligence agencies and research and development activities.</p> <p>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, JCMT&E WG, and JCMT&E WG HFI subgroup lead.</p> <p>FY 2017 Plans:</p>			

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

	FY 2015	FY 2016	FY 2017
<p>Joint Test and Evaluation (JT&E)</p> <p>In FY2017 JT&E plans on closing two projects that were started in FY 2015. One, the Joint Pre-/Post-Attack Operations Supporting Survivability & Endurability Joint Test, expected to close in June 2017, will develop and test procedures for protective posturing and mobile support that will mitigate electromagnetic-pulse effects on mission critical functions. The other project to close in FY2017 is the Joint Advanced Sensor to Shooter Joint Test, which is looking to develop, test and evaluate tactics, techniques, and procedures to more efficiently and effectively gain and maintain battle space awareness through integration of rapidly developed capabilities to support combat operations in anti-access and active denial environments</p> <p>Two projects from FY 2016 will continue through FY 2017.</p> <p>Four new feasibility studies are expected be conducted in FY 2017, two of which will be selected to conduct joint tests.</p> <p>Threat Systems</p> <p>In FY 2017, Threat Systems will continue test planning working group participation and perform technical analyses to identify threat shortfalls; conduct special studies and provide current intelligence support tailored to specific U.S. weapon systems acquisitions based on the availability of funding. Threat Systems will:</p> <ul style="list-style-type: none"> - Continue to provide intelligence support to DOT&E staff to address specific questions on threat systems affecting programs on the OSD T&E Oversight list and provide briefings and special intelligence reports when necessary. - Continue identifying initiatives to improve cyberspace threat representation and prediction, cyber-economic threats to DoD systems, and scalable cyberspace threat test environments that can interface with cyber test networks. - Continue identifying initiatives to conduct offensive cyber operations (OCO) and defensive cyber operations (DCO) without significantly impacting critical operational capabilities. - Continue initiatives to improve satellite and space threat representations. - Support the US warfighter by providing threat intelligence to ensure operational and developmental testing occurs against realistic threat representations. - Sustain and manage threat M&S to support test and evaluation by overseeing and coordinating intelligence community developed threat models, performing threat model anomaly resolution resolving differences from live fire testing, integrating threat models into T&E facilities and distributing performance and signature models to T&E users. - Manage Integrated Technical Evaluation and Analysis of Multiple Sources (ITEAMS) efforts supporting programs on the OSD Oversight T&E List by conducting intelligence "deep dives" to produce intelligence in sufficient detail to develop new threat test assets. 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<ul style="list-style-type: none"> - Represent DOT&E at foreign material exchanges, inter-agency coordinating groups, and non-proliferation groups to raise awareness of T&E needs for foreign material, coordinate service requirements, and de-conflict and prioritize foreign material requirements for T&E. - Review validation reports to independently ensure that correct threat data and critical parameters are presented in the report to assess the threat representation's capabilities to replicate a real world threat system. - Represent DOT&E at the Intelligence Mission Data Oversight Board responsible for development, production and sharing issues affecting the intelligence data supporting weapons systems acquisition. - Oversee legacy DOT&E investments and continue management and oversight of legacy and new Test Resource Management Center-funded threat system investments. - Continue ITEAMS leading to the development of new threat systems for T&E. <p>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.</p> <p>The Center</p> <p>The Center will test, analyze, and report on more than 30 systems, with special emphasis on aircraft survivability, CM/CCM 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. 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. Furthermore, the Center will continue to provide CM expertise in pre-deployment events and training, as well as CM/CCM-focused TTP development.</p> <p>The Center plans to complete an Integrated Aircraft Survivability Equipment Test Methodology assessment which will help define new T&E capabilities needed to meet future program T&E requirements. The Center will continue Improvement and Modernization (I&M) efforts to improve our T&E capabilities. The Center will continue to work with the TSWG-sponsored HSI model. Our support will be distributed across all the Services, as well as intelligence agencies and research and development activities.</p> <p>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, JCMT&E WG, and JCMT&E WG HFI subgroup lead.</p> <p>5th Generation Aerial Target (5GAT)</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
In FY17, the 5th Generation Aerial Target program will complete the government owned air vehicle and subsystems layout. The program will begin tooling and parts fabrication using carbon composite manufacturing methods. In addition, the program will begin the electronic attack equipment integration.			
Accomplishments/Planned Programs Subtotals	47.346	45.763	52.631

	FY 2015	FY 2016
Congressional Add: Joint Test and Evaluation	18.000	10.000
FY 2015 Accomplishments: Funding provided one additional Joint Test and six Quick Reaction Tests.		
FY 2016 Plans: Funding is anticipated to provide nine additional Quick Reaction Tests.		
Congressional Add: Threat Resource Analysis	5.000	8.000
FY 2015 Accomplishments: Congressional add funds were used to increase threat intelligence support for cyber, space and ballistic missile to DOT&E to define future threats and improve threat realism in testing; also expanded the modeling and simulation configuration management to include Radio Frequency.		
FY 2016 Plans: Funds will be used to improve threat realism for testing. Specifically, increase cyber intelligence support to improve emerging cyberspace threat representation, prediction and threat environments; validate electronic warfare/cyber convergence efforts; and standardize approach for cyber threat folder creation. Funds will also be used to extend validation support, improve automated tools that provide intelligence support, and improve the fidelity and availability of models and simulations needed for Test & Evaluation.		
Congressional Adds Subtotals	23.000	18.000

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

N/A

Remarks

D. Acquisition Strategy

Not Applicable

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E. 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. 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.