Department of Defense Fiscal Year (FY) 2015

March 2014



Operational Test and Evaluation, Defense

Defense Wide Justification Book Volume 5 of 5

Operational Test and Evaluation, Defense
Operational Test and Evaluation

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Operational Test and Evaluation, Defense • FY 2015 • RDT&E Program

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Defense-Wide FY 2015 President's Budget Exhibit R-1 FY 2015 President's Budget Total Obligational Authority

al Obligational Authority 04 Feb 2014 (Dollars in Thousands)

Appropriation: 0460D Operational Test & Eval, Defense

| Line No | Program Blement Number | Item | Act | FY 2013 (Base & OCO) | FY 2014 Base Enacted | FY 2014 OCO Enacted | FY 2014 Total Enacted | FY 2015 Base | s e c |
|------------|------------------------------|-------------------------------------|---------|-------------------------|-------------------------|------------------------|-----------------------|-----------------|-------------|
| 1 | 06051180TE Opera | tional Test and Evaluation | 06 | 87,406 | 75,720 | | 75,720 | 74,583 | U |
| 2 | 06051310TE Live | Fire Test and Evaluation | 06 | 49,713 | 48,423 | | 48,423 | 45,142 | U |
| 3 | 06058140TE Opera | tional Test Activities and Analyses | 06 | 73,317 | 121,948 | | 121,948 | 48,013 | U |
| | Management | Support | | 210,436 | 246,091 | | 246,091 | 167,738 | |
| Tota | l Operational Tes | t & Eval, Defense | | 210,436 | 246,091 | | 246,091 | 167,738 | |

R-1Cl: FY 2015 President's Budget (Published Version), as of February 4, 2014 at 15:08:06

Operational Test and Evaluation, Defense • FY 2015 • 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 (OT&E)Vol | lume 5 - 1 |
| 2 | 06 | 0605131OTE | Live Fire Test and Evaluation (LFT&E)Vol | lume 5 - 6 |
| 3 | 06 | 0605814OTE | Operational Test Activities and AnalysesVolu | ıme 5 - 18 |

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 0605118OTE I Operational Test and Evaluation (OT&E)

Support

| I- I | | | | | | | | | | | | |
|-----------------------------|----------------|---------|---------|-----------------|-----------------------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| 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 | 62.215 | 87.406 | 75.720 | 74.583 | - | 74.583 | 77.351 | 79.066 | 80.830 | 82.646 | Continuing | Continuing |
| 0605118OTE: <i>OT&E</i> | 62.215 | 87.406 | 75.720 | 74.583 | - | 74.583 | 77.351 | 79.066 | 80.830 | 82.646 | 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

Appropriation/Budget Activity

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 (TPs).
- 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 supports 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.
- The review and make recommendations to the Secretary of Defense on all budgetary and financial matters related to OT&E, including operational test facilities. resources and ranges.

DOT&E also oversees and resources OT&E community efforts to plan and execute joint operational evaluations of information assurance and interoperability (IA and IOP) of fielded systems and networks during major Combatant Command (CCMD) and Service exercises, and reports the trends and findings in the annual report.

DOT&E is also involved in increasing the capacity to access realistically advanced cyber warfighting capabilities to keep pace with heightened demand for those capabilities, advancing technologies and the growing cyber threat.

UNCLASSIFIED PE 0605118OTE: Operational Test and Evaluation (OT&E) Page 1 of 5

Date: March 2014

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|---|------------------|-------------------|---------------------------|--------------|------------|------------|---------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Ope | rational Test ar | nd Evaluation, De | fense | · | Date: | March 2014 | |
| Appropriation/Budget Activity 0460: Operational Test and Evaluation, Defense I BA 6: RDT&E Support | , | | | | | | |
| This Program Element includes funds to obtain Federally Fund | | | | | | | |
| carry out oversight of the OT&E and IA and IOP programs, fundadministrative support services, and engineering and technical | | | | | | | |
| B. Program Change Summary (\$ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 20° | 15 OCO | FY 2015 | Total |
| Previous President's Budget | 72.501 | 75.720 | 78.743 | | - | 7 | 8.743 |
| Current President's Budget | 87.406 | 75.720 | 74.583 | | - | | 4.583 |
| Total Adjustments | 14.905 | - | -4.160 | | - | _ | -4.160 |
| Congressional General Reductions | -0.121 | - | | | | | |
| Congressional Directed Reductions | -4.110 | - | | | | | |
| Congressional Rescissions | - | - | | | | | |
| Congressional Adds | 19.000 | - | | | | | |
| Congressional Directed Transfers | - 0.400 | - | | | | | |
| Reprogrammings SBIR/STTR Transfer | 0.136 | - | | | | | |
| Budget Control Act | - - | - | -4.160 | | - | - | -4.160 |
| Congressional Add Details (\$ in Millions, and Include | es General Rec | ductions) | | | Γ | FY 2013 | FY 2014 |
| Project: 0605118OTE: <i>OT&E</i> | | • | | | | L | |
| Congressional Add: Cyber Testing Shortfall | | | | | | 15.000 | - |
| Congressional Add: National Cyber Range Shortfall | | | | | | 4.000 | - |
| | | Congressi | onal Add Subtotals for Pr | oject: 060 | 5118OTE | 19.000 | - |
| | | | Congressional Add To | otals for al | l Projects | 19.000 | - |
| C. Accomplishments/Planned Programs (\$ in Millions) | | | | | FY 2013 | FY 2014 | FY 2015 |
| Title: Operational Test and Evaluation | | | | | 68.40 | 6 75.720 | 74.583 |
| FY 2013 Accomplishments: Operational Test and Evaluation Oversight | | | | | | | |
| This effort is in direct support of the Director's Title 10 responsible Operational Test and Evaluation inputs for Test and Evaluation Acquisition Executive Summary Reports for those programs designed. | Master Plans, | Test Plans, Syste | m Acquisition Reports, De | efense | | | |

PE 0605118OTE: *Operational Test and Evaluation (OT&E)* Operational Test and Evaluation, Defense

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|--|--|---------|------------|---------|--|--|--|--|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Operational Test an | nd Evaluation, Defense | Date: N | March 2014 | | | | | |
| Appropriation/Budget Activity 0460: Operational Test and Evaluation, Defense I BA 6: RDT&E Management Support R-1 Program Element (Number/Name) PE 0605118OTE I Operational Test and Evaluation (OT&E) | | | | | | | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2013 | FY 2014 | FY 2015 | | | | |
| of DOT&E oversight authority are identified in Calendar Year 2013 Office of the Oversight List. | e Secretary of Defense Test and Evaluation | | | | | | | |
| Information Assurance (IA) and Interoperability (IOP) Evaluations | | | | | | | | |
| DOT&E oversaw and resourced 9 Combatant Command (CCMD) level and 3 States 4 were full IA and IOP, 6 were IA only assessments, and 2 were IOP only assessment cancelled due to the down-scoping or cancellation of the CCMD/Service of critical mission threads was assessed in the 10 IA assessments conducted in Fadvanced cyber threats and the use of validated cyber TTP's by the supporting expected to continue as a primary objective of the assessment program. Fiscal trend analyses across prior year results, both within and across CCMDs. Critical DoD leadership for their awareness and remediation actions, as appropriate. It implementation on the CJCS EXORD as part of the assessment planning process of the advanced cyber adversary and alignment Red Teams with these threat and the control of the advanced cyber adversary and alignment Red Teams with these threat and the control of the control of the advanced cyber adversary and alignment Red Teams with these threat and the control of the contr | exercise. The operational impact against specific FY 2013. A more rigorous process to incorporate g Red Teams was initiated in FY 2013 and is al year 2013 IA and IOP evaluations included cal findings were transmitted to Service and DOT&E continued efforts to support the full ess, including development of threat assessments | | | | | | | |
| FY 2014 Plans: Operational Test and Evaluation Oversight | | | | | | | | |
| This effort is in direct support of the Director's Title 10 responsibilities and is a confidence of Doperational Test and Evaluation inputs for Test and Evaluation Master Plans, Tacquisition Executive Summary Reports for those programs designated for over of DOT&E oversight authority are identified in Calendar Year 2014 Office of the Oversight List. | Test Plans, System Acquisition Reports, Defense ersight by DOT&E and OUSD(AT&L). Key elements | | | | | | | |
| Information Assurance (IA) and Interoperability (IOP) Evaluations | | | | | | | | |
| DOT&E will oversee and resource 12 CCMD level and 5 Service level IA and IG assessment of a unit deployed to warfighting theater of operations. Additionally of 3 CCMD/Service exercises as potential future assessment venues. The port focused assessments of critical mission accomplishment in representative thre approved FY14 assessments. Fiscal year 2014 evaluations will include trend a across CCMDs. Critical findings will be transmitted to Service and DoD leaders | y in FY 2014, DOT&E will resource the observation rayal of advanced-cyber threats and executing at environments is a primary objective for all analyses across prior year results, both within and | | | | | | | |

PE 0605118OTE: *Operational Test and Evaluation (OT&E)* Operational Test and Evaluation, Defense

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| UN | ICLASSIFIED | | | | | |
|--|--|--|-----------------|---------|------------|---------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Operational Test ar | nd Evaluation, Defense | | | Date: M | larch 2014 | |
| Appropriation/Budget Activity 0460: Operational Test and Evaluation, Defense I BA 6: RDT&E Management Support | R-1 Program Element (Number/ PE 0605118OTE / Operational Te | | uation (OT | -&E) | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | | F' | Y 2013 | FY 2014 | FY 2015 |
| as appropriate. The Joint Information Operations Range (JIOR) will support expending and required security during exercise assessments. New resources are expanded threat assessments of the advanced cyber adversary, more represe Teams, and improvements to the JIOR that will support more operationally reatraining events. | nd emphasis will be added in FY 20 intative portrayal of the cyber adver | 114 to includ | k | | | |
| FY 2015 Plans: Operational Test and Evaluation Oversight | | | | | | |
| This effort is in direct support of the Director's Title 10 responsibilities and is a Operational Test and Evaluation inputs for Test and Evaluation Master Plans, Acquisition Executive Summary Reports for those programs designated for over of DOT&E oversight authority are identified in Calendar Year 2015 Office of the Oversight List. | Test Plans, System Acquisition Repersight by DOT&E and OUSD(AT&I | oorts, Defen _). Key eler | se | | | |
| Information Assurance (IA) and Interoperability (IOP) Evaluations | | | | | | |
| DOT&E will oversee and resource approximately 14 CCMD level and 5 Service ability of the assessed CCMD/Service to execute selected critical missions in a the primary objective for all FY 2015 assessments as it the portrayal of advance Command, DoD Red Team capabilities will be enhanced to reflect DIA cyber the teams will be synchronized across Cyber Command and DOT&E priorities. As of operation will continue as needed. Fiscal year 2015 IA and IOP evaluations results, both within and across CCMDs. Critical findings will be transmitted to and remediation actions, as appropriate. The Joint Information Operations Raiportraying advanced cyber adversaries will support the majority of CCMD exer | a denied and/or degraded cyber enviced-cyber threats. In partnership with reat assessments, and application assessment support to units deploying will include trend analyses across Service and DoD leadership for the ange and other cyber range assets we | vironment is th US Cybe of these g to theater prior year ir awarenes vith Red Te | rs ss ams | | | |
| | Accomplishments/Planned Prog | grams Sub | totals | 68.406 | 75.720 | 74.583 |
| | | FY 2013 | FY 2014 | | | |
| Congressional Add: Cyber Testing Shortfall | | 15.000 | - | | | |
| FY 2013 Accomplishments: \$15M was provided and has been applied toward of the advanced cyber adversary, development of Red Team capabilities to po | | | | | | |
| | | | | | | |

PE 0605118OTE: *Operational Test and Evaluation (OT&E)* Operational Test and Evaluation, Defense

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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 0605118OTE I Operational Test and Evaluation (OT&E)

Support

| | FY 2013 | FY 2014 |
|---|---------|---------|
| adversary, and creating a persistent cyber OPFOR to develop accesses and set initial conditions for exercise assessments and tests in a more cost-effective and threat-representative fashion. | | |
| Congressional Add: National Cyber Range Shortfall | 4.000 | - |
| FY 2013 Accomplishments: \$4M was provided and has been applied towards continued testing of the National Cyber Range to understand its current capabilities and develop future requirements. These funds have also been applied towards the development and employment of cyber environments to demonstrate cyber effects which are not appropriate for operational networks. | | |
| Congressional Adds Subtotals | 19.000 | - |

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

N/A

Remarks

E. Acquisition Strategy

N/A

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

PE 0605118OTE: Operational Test and Evaluation (OT&E) Operational Test and Evaluation, Defense

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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 06051310TE I Live Fire Test and Evaluation (LFT&E)

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 | 12.126 | 49.713 | 48.423 | 45.142 | - | 45.142 | 47.196 | 49.438 | 49.886 | 51.164 | Continuing | Continuing |
| 0605131OTE: <i>LFT&E</i> | 12.126 | 49.713 | 48.423 | 45.142 | - | 45.142 | 47.196 | 49.438 | 49.886 | 51.164 | Continuing | Continuing |

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

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 were realigned from the Operational Test Activities and Analyses program element (0605814OTE) to the Live Fire Test and Evaluation program element (0605131OTE). The JASP focuses on survivability improvements supporting aircraft acquisition and JTCG/ME focuses on the lethality of currently fielded weapons systems; therefore, the two programs are more appropriately budgeted 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 lethality 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 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.

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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 06051310TE I Live Fire Test and Evaluation (LFT&E) Support

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 nonnuclear U.S. weapons. JTCG/ME authenticates weapons effectiveness data for use in operational weaponeering, strike mission planning, 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 Odyssev 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, JASP and JTCG/ME programs.

| B. Program Change Summary (\$ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 49.201 | 48.423 | 49.587 | - | 49.587 |
| Current President's Budget | 49.713 | 48.423 | 45.142 | - | 45.142 |
| Total Adjustments | 0.512 | - | -4.445 | - | -4.445 |
| Congressional General Reductions | -0.065 | - | | | |
| Congressional Directed Reductions | -3.288 | - | | | |
| Congressional Rescissions | - | - | | | |
| Congressional Adds | - | - | | | |
| Congressional Directed Transfers | - | - | | | |
| Reprogrammings | 3.865 | - | | | |
| SBIR/STTR Transfer | - | - | | | |
| Budget Control Act | - | - | -4.445 | - | -4.445 |

| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and Evaluation, Defense | | | | | | | Date: Marc | ch 2014 | | | | |
|---|----------------|---------|---------|-----------------|--|------------------|------------|---------|---------|---------|---------------------|---------------|
| | | | | | ect (Number/Name) 1310TE / <i>LFT&E</i> | | | | | | | |
| 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 |
| 0605131OTE: <i>LFT&E</i> | 12.126 | 49.713 | 48.423 | 45.142 | - | 45.142 | 47.196 | 49.438 | 49.886 | 51.164 | 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

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 were realigned from the Operational Test Activities and Analyses program element (0605814OTE) to the Live Fire Test and Evaluation program element (0605131OTE). The JASP focuses on survivability improvements supporting aircraft acquisition and JTCG/ME focuses on the lethality of currently fielded weapons systems; therefore, the two programs are more appropriately budgeted 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 lethality 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 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.

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| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and E | | Date: March 2014 | |
|---|--------------------|------------------|------------|
| 11 | , | , , , , , , | |
| 0460 / 6 | | 06051310 | TE I LFT&E |
| | Evaluation (LFT&E) | | |

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 operational weaponeering, strike mission planning, 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, JASP and JTCG/ME programs.

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|--|---------|---------|---------|
| Title: Live Fire Test and Evaluation | 49.713 | 48.423 | 45.142 |
| Description: 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). | | | |
| FY 2013 Accomplishments: Live Fire Test and Evaluation Major Test and Evaluation Programs | | | |
| The FY 2013 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 operator 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. Continued efforts in support of Personnel Protection Equipment, including testing protocols for combat helmets and body armor. Addressed urgent requests from theater that directly supported deployed Joint Combat Assessment Team investigation and report to operators. | | | |
| Performed JLF projects to provide survivability data on currently fielded U.S. systems. JLF Air projects tested the vulnerability of PT6 turboprop engines and evaluated the effects of internal configuration on helicopter crew compartment fires, as well as | | | |

B Accomplishments/Planned Programs (\$ in Millions)

EV 2015

EV 2012 EV 2014

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|--|--|---|---------|------------|---------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operationa | al Test and Evaluation, Defense | | Date: N | March 2014 | |
| Appropriation/Budget Activity 0460 / 6 | | | | , | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2013 | FY 2014 | FY 2015 |
| technologies/techniques to reduce generic vulnerabilities to all aird of self-sealing fuel tanks using bio-fuels. New projects investigate vulnerability, the lethality of advanced projectile lethality, and a per projects continued to investigate the vulnerability of vehicles to un in-theater targets, and improved modeling and simulation tools by validity of manikins, helmets, and improvements to material chara continued to investigate ship vulnerabilities in the areas of comme investigated vulnerabilities of designs and components for new shincluding bulkheads, insulation, and reconfigurable spaces, investigatal boat vulnerability models. | ed the effect of yawed projectiles and missile debris on aircular formed a comparison of commonly used test threats. JLI derbody blast and the lethality of U.S. weapons against ty providing validation data. New projects studied the use a cteristics used in modeling and simulation. JLF Sea projectical standards, equipment and component damage, and sips. New projects evaluated fire damage to ship component | craft F Land rpical and ects ents, | | | |
| Joint Aircraft Survivability Program (JASP) | | | | | |
| In FY 2013 the JASP continued work on 33 multi-year RDT&E proprincipal Members Steering Group and OSD/DOT&E. In the area the effectiveness and reducing the space, weight and power required countermeasures technology and techniques, integrated aircraft sarea of vulnerability reduction, the JASP continued to address required technology (e.g., armor, fuel containment, fire suppression, and air Modeling and Simulation (M&S), the JASP continued to improve survivability data, integrate DIA threat missile models into threat expassenger injuries, and address M&S requirements identified by the reports documenting efforts accomplished in FY 2013. | of susceptibility reduction, the JASP addressed improving ired for directed energy infrared countermeasures, electron survivability equipment, and aircrew situational awareness quirements for lighter and more effective vulnerability reductions and passenger protection). In aircraft survivability survivability M&S credibility, address operator requirement engagement codes, improve the assessment of aircrew and passenger protection. | g nic . In the ction cs for | | | |
| The JCAT continued to support the Air Force, Army, Marine Corps operators on threat effects and combat damage assessment, and DoD science and technology and acquisition communities. The Jinformation exchange through internet sites (restricted access and developing educational materials and conducting training for the E | reporting their findings to combatant commanders and the ASP continued supporting aircraft survivability education at classified), by publishing the Aircraft Survivability Journa | e and | | | |
| Joint Technical Coordinating Group for Munitions Effectiveness (J | TCG/ME) | | | | |
| JTCG/ME Joint Munitions Effectiveness Manual Weaponeering State Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3160.01 | | tional | | | |

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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|--|--|---|---------|------------|---------|--|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operatio | nal Test and Evaluation, Defense | , | Date: N | March 2014 | | |
| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 06051310TE I Live Fire Test and Evaluation (LFT&E) | Project (Number/Name) 06051310TE / LFT&E | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2013 | FY 2014 | FY 2015 | |
| weaponeering and collateral damage estimation calls in direct so Responsibilities. To provide continued support to operational country JTCG/ME developed various analytical and operational methodo to-air and surface-to-air planning model, the Joint-Anti-air Comb 2013 to provide aircraft survivability data. | ommanders, DoD targeteers, weaponeers, and planners, the ologies and target geometric models. Additionally JTCG/ME | e E's air- | | | | |
| The fielded JWS v2.1.1 contains the Fast Integrated Structural T that incorporates the integral modules from the Building Analysis merged tool that generates weapon effectiveness and damage a bunkers, and tunnels. JWS v2.1.1 also contains approximately Explosive Equivalent Weights based on blast testing, and an impoing to support coalition partners. The JTCG/ME in conjunction Production Contractor (JPC) are implementing a re-marking effective production of the production of t | s Module (BAM) and Hardened Target Module (HTM) to cre assessments against infrastructure targets to include buildin 180 new/updated targets, 15 new/updated munitions, new proved 3-D viewer. In addition, JWS v2.2 development is on n with the JWS Configuration Control Board and the JMEM | ate a gs, | | | | |
| J-ACE v5.2 simulates air-to-air and surface-to-air engagements. and Gray surface-to-air missile (SAM) flyout models are included missile fly out model including hundreds of weapon target pairing (ESAMS) countermeasures interface. J-ACE v5.2 also provides The EM is a new application which adds missile lethality and target distance, fuse performance, weapon lethality and target vulneral | d. J-ACE v5.2 provides updated Joint Anti-Air Model (JAAM gs and JAAM-Enhanced Surface-to-Air Missile Simulation is the new "Endgame Manager (EM)" software and data sets get vulnerability. EM allows explicit evaluation of weapon metals. | 1) niss | | | | |
| To more effectively support operational mission planning, particle a direct interface to force level simulations. The fidelity is adequiperformance and scenario planning. | | des | | | | |
| In support of the Combatant Commands and the CJCSI 3160.01 updated systems (e.g., M1130 Projectile, AGM-65-E2/L and AG Precision Strike Suite (DPSS) Collateral Damage Estimation (DC Collateral Damage Estimate Level 1-5 A-C series effective radii at 10 different Commands to support Collateral Damage Estimate | M-176-3/2M). In addition, the JTCG/ME supported the Digit CiDE) tool for operational use. This tool displays accredited reference tables. Additionally, JTCG/ME trained nearly 250 | tal | | | | |
| The JTCG/ME assessed fielded and emerging Information Oper Based Operations (EBO) evaluation capability set. The scope ir data development and providing operational tools for the IO eler | ncludes weapon characterization, coordinating test and targe | et | | | | |

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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|--|--|--|---------|------------|---------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operationa | al Test and Evaluation, Defense | | Date: N | larch 2014 | |
| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 0605131OTE I Live Fire Test and Evaluation (LFT&E) | Project (Number/Name) 0605131OTE / LFT&E | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | Γ | FY 2013 | FY 2014 | FY 2015 |
| Military Information Support Operations (MISO) and Electronic Walevel data are critical enablers for application of these weapons as develop policy and concepts of operations for their use. | | | | | |
| FY 2014 Plans: Live Fire Test and Evaluation Major Test and Evaluation Programs | s | | | | |
| This is a continuing effort. The FY 2014 budget provides for Live Plans, Test Plans, System Acquisition Reports, Defense Acquisition programs designated for oversight by DOT&E and OUSD(AT&L). | on Executive Summary reports, and BLRIP reports for thos | | | | |
| JLF Programs and LFT&E Initiatives | | | | | |
| Conduct tests of fielded systems not previously tested under Air, Loperator needs. The need for these tests results from systems be or being operated in new combat environments, and the subseque efforts in support of Personnel Protection Equipment, including corequests that directly support deployed operators and issues of im- | eing exposed to new threats, used in new unanticipated tac ent need for an assessment of their performance. Continu mbat helmets and body armor. Continue to address urger | etics, | | | |
| Continue to perform JLF projects to provide survivability data on cevaluate generic technologies and techniques to decrease vulneral performance of self-sealing fuel tanks. New projects will investigate JLF Land projects will continue to investigate the vulnerability of verification and interesting the self-sealing fuel tanks. New projects will investigate the vulnerability of verification and projects will continue to investigate the vulnerability of verification and the self-sealing fuel tanks. New projects will investigate the vulnerability of verification and the vulnerabilities and improvements to material characteristics us to develop key components of alternatives to traditional shock trial vulnerabilities in the areas of commercial standards, equipment and designs and components for new ships. | abilities to all aircraft, such as to MANPADS, small arms, a te threat munitions and aircraft fire and explosion vulneral ehicles to underbody blast and the lethality of U.S. weapon and simulation tools by providing validation data. New project sed in modeling and simulation. JLF Sea projects will confils as of ships and submarines, will continue to investigate shi | nd the bilities. Insects inue | | | |
| Joint Aircraft Survivability Program (JASP) | | | | | |
| In FY 2014 the JASP will continue work on at least 38 multi-year F the JASP Principal Members Steering Group and OSD/DOT&E. I improving the effectiveness and reducing the space, weight and p | n the area of susceptibility reduction, the JASP will addres | | | | |

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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|--|---|--|---------|------------|---------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operation | al Test and Evaluation, Defense | , | Date: N | March 2014 | |
| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 06051310TE I Live Fire Test and Evaluation (LFT&E) | TE I Live Fire Test and 0605131OTE I LFT&E | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2013 | FY 2014 | FY 2015 |
| electronic countermeasures technology and techniques, and aircreated the JASP will continue to address requirements for lighter and modern containment, fire suppression, and aircrew and passenger protect improve survivability M&S credibility, address operator requirement threat engagement codes, improve the assessment of aircrew and by the joint aircraft survivability community. | ore effective vulnerability reduction technology (e.g., armor tion). In aircraft survivability M&S, the JASP will continue ents for survivability data, integrate DIA threat missile mode | , fuel to els into | | | |
| The JCAT will continue to support the Air Force, Army, Marine Cooperators on threat effects and combat damage assessment, and DoD science and technology and acquisition communities. The Jand information exchange through internet sites (restricted access developing educational materials and conducting training for the complete other projects as approved by the JASP Principal Memi | d reporting their findings to combatant commanders and the JASP will continue supporting aircraft survivability educations and classified), by publishing the Aircraft Survivability Jo DoD and their contractors. The JASP will initiate, continue | e n urnal, | | | |
| Joint Technical Coordinating Group for Munitions Effectiveness (| JTCG/ME) | | | | |
| In support of operational commanders, DoD targeteers, weapone Weaponeering System (JWS) v2.2 and the Joint-Anti-air Combat 2014. | | FY | | | |
| JWS v2.2 will add approximately two hundred calculated and surnand Warhead; three Surface-to-Surface Direct Fire Weapons; and Warheads; Fast Integrated Structural Tool (FIST) v1.1; Ship Wea Strike Suite (DPSS) Collateral Damage Estimation (DCiDE) Tool current guidance and direction from Joint Staff, this JWS version of current operations at International Security Assistance Force (I Commands. | d ten Surface-to-Surface Indirect Fire Platforms, Weapons poneering Estimation Tool (SWET) v2.0.1; Digital Precisio Version 1.1 linkage; and an enhanced viewer. Based on twill be released to several key coalition partners in suppor | and n he | | | |
| J-ACE v5.3 will provide extended and updated data sets for missi and air target vulnerability. In particular, a total of 15 new or updates missile or weapon fly out models will be integrated. Additionally, aero performance models will be provided. BlueMax6 and Hercu developed by the acquisition and intelligence communities. Elect an aircraft's ECM system jamming coverage. Initially, dynamic vi | ated Air-to-Air (AA) or Surface-to-Air (SA) Government furr advanced pseudo six DoF BlueMax6 and Hercules aircraft les provide a large library of BLUE and RED aircraft mode tronic Counter-Measure (ECM) will be developed and teste | nished t ls ed for | | | |

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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| chibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and Evaluation, Defense propriation/Budget Activity R-1 Program Element (Number/Name) | D i | Date: N | March 2014 | |
|--|--|---------|-----------------|---------|
| propriation/Budget Activity R-1 Program Flement (Number/Name) | D | | viai Ci i 20 14 | |
| PE 0605131OTE / Live Fire Test and Evaluation (LFT&E) | 1OTE I Live Fire Test and 0605131OTE I LFT&E | | | |
| Accomplishments/Planned Programs (\$ in Millions) | | FY 2013 | FY 2014 | FY 2015 |
| low pilots, while developing threat engagement or evasive maneuvers, to consider ECM protection with respect to the tr psition. | reat | | | |
| support of Combatant Commands and the CJCSI 3160.01, JTCG/ME will accredit the Collateral Damage Estimation (Collateral Effects Radii (CER) xml file for use in Digital Precision Strike Suite CDE (DCiDE) Operational Tool. In accordance Office of Secretary of Defense Chief Information Officer Memorandum, JTCG/ME will also prepare a memorandum the Authorization to Operate (ATO) and Authorization to Connect (ATC) for the DCiDE Tool Version 1.1. JTCG/ME will commonitor the DCiDE tool configuration management process to ensure that subsequent versions of DCiDE accurately received to be accurated to the command specified population density factors and associated user in CiDE tool will evolve to be the foundation for collateral damage estimation on JWS. TCG/ME will develop JMEM data for most critical Combatant Commander identified systems and also reduce DVD-ROM received through incremental updates. Accreditation of tri-Service JMEM operational tools will continue as well as expanding databases to incorporate newly fielded weapons (i.e., Air-to-Surface, Surface-to-Surface Direct/Indirect Fire, and nally providing connectivity to real time planning systems assessing time sensitive targets will be addressed. | ce with at grants ntinue flect ut. The | | | |
| Y 2015 Plans: ve Fire Test and Evaluation Major Test and Evaluation Programs | | | | |
| nis is a continuing effort. The FY 2015 budget provides Live Fire Test and Evaluation input for Test and Evaluation Mas lans, Test Plans, System Acquisition Reports, Defense Acquisition Executive Summary reports, and BLRIP reports for t rograms designated for oversight by DOT&E and OUSD(AT&L). The oversight list is developed and published annually | nose | | | |
| F Programs and LFT&E Initiatives | | | | |
| onduct tests of fielded systems not previously tested under Air, Land, or Sea Joint Live Fire programs to support DOT&l arfighter needs to the extent funding allows. The need for these tests result from systems being exposed to new threats new unanticipated tactics, or being operated in new combat environments, and the subsequent need for an assessment erformance. Projects will address urgent requests that directly support deployed warfighters and issues of importance to ongress. | s, used it of their | | | |
| oint Aircraft Survivability Program (JASP) | | | | |
| | | | | |

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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|---|--|---|---------|------------|---------|
| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operation | nal Test and Evaluation, Defense | , | Date: N | larch 2014 | |
| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 06051310TE I Live Fire Test and Evaluation (LFT&E) | Project (Number/Name) 0605131OTE / LFT&E | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2013 | FY 2014 | FY 2015 |
| In FY 2015 the JASP will continue work on at least 33 multi-year the JASP Principal Members Steering Group and OSD/DOT&E. improving the effectiveness and reducing the space, weight and electronic countermeasures technology and techniques, aircrew of vulnerability reduction, the JASP will continue to address require technology (e.g., armor, fuel containment, fire suppression, and at the JASP will continue to improve survivability M&S credibility, act threat missile models into threat engagement codes, improve the M&S requirements identified by the joint aircraft survivability com | In the area of susceptibility reduction, the JASP will address power required for directed energy infrared countermeasure situational awareness and urgent operator needs. In the arrivements for lighter and more effective vulnerability reduction aircrew and passenger protection). In aircraft survivability Modress operator requirements for survivability data, integrated assessment of aircrew and passenger injuries, and address munity. | is es, rea in M&S, e DIA | | | |
| The JCAT will continue to support the Air Force, Army, Marine C operators on threat effects and combat damage assessment, and DoD science and technology and acquisition communities. The and information exchange through internet sites (restricted access developing educational materials and conducting training for the complete other projects as approved by the JASP Principal Mem | d reporting their findings to combatant commanders and the JASP will continue supporting aircraft survivability educations and classified), by publishing the Aircraft Survivability Jou DoD and their contractors. The JASP will initiate, continue | e n urnal, | | | |
| Joint Technical Coordinating Group for Munitions Effectiveness (| (JTCG/ME) | | | | |
| In support of operational commanders, DoD targeteers, weapone Weaponeering System (JWS) v2.3 and Joint-Anti-air Combat Eff 2015. | | | | | |
| JWS v2.3 efforts will include connectivity (Mission Planning & Con Additional updates will include an export to Microsoft software cast in JWS will be provided along with enhanced bomb-burial method development, JWS will integrate new and updated Defense Three Assessment (IMEA) tools into the Fast Integrated Structural Tool maritime targets that address the total target spectrum from the Comprovements are Rotary Wing Delivery Accuracy Program (RW tool, and blast/fragmentation methodologies for small precision in | apabilities. Improvements on the JWS Parameterization Rodology and small precision methodology. In support of hard eat Reduction Agency's (DTRA) Integrated Munitions Effects I (FIS). In support of vulnerability data generation, maneuve COCOMs and MRP will be developed. Other Key methodol (DAP), Joint Weapon Accuracy Model (JWAM), Risk Estima | target s er and logy | | | |
| J-ACE v5.4 will continue to field and add Browse descriptive mat expand Suite of Anti-air Kill-chain Models and Data (SAK-MD) ca | | | | | |

PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and E | Date: March 2014 | |
|---|---|---|
| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 0605131OTE I Live Fire Test and Evaluation (LFT&E) | Project (Number/Name) 0605131OTE / LFT&E |

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2013 | FY 2014 | FY 2015 |
|--|---------|---------|---------|
| aircraft target aero-performance, anti-air missile lethality and air target vulnerability required by the operational community in | | | |
| JAAM. Additionally, J-ACE Electronic Counter Measures (ECM) program will be updated to integrate and test JAAM-HIVE/ ESAMS capability to evaluate RED Radio Frequency (RF) Air-to-Air Missile capability against a Blue target with countermeasures. | | | |
| LOANS capability to evaluate NED Nacio Frequency (NF) All-to-All Missile capability against a blue target with countermeasures. | | | |
| JTCG/ME will continue to develop a predictive capability to assess blast effects, body-on-body penetration, and blast-fragment | | | |
| synergism and incorporate these mechanisms in the JTCG/ME estimation process for small precision weapons. Furthermore, | | | |
| JTCG/ME will expand the use of computational physics to improve test design and data analysis to support both analytical model | | | |
| development and the characterization of weapons addressing blast interactions with structures, weapon fragmentation, and | | | |
| penetration mechanics. Additionally, JTCG/ME will continue to enhance Joint Capability Analysis and Assessment System | | | |
| (JCAAS) and Network Attack Weaponeering System (NWS) in support of Information Operations. | | | |
| Accomplishments/Planned Programs Subtotals | 49.713 | 48.423 | 45.142 |

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

(U) PERFORMANCE METRICS:

Performance Measure: Percentage of required live fire test planning documents, assessments, munition effectiveness manuals, 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 documnets, 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 2013 (Actual) FY 2014 (Goal) FY 2015 (Goal) On-Time Completion Rate 92% 93% 94%

PE 06051310TE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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| 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 06051310TE I Live Fire Test and Evaluation (LFT&E) | 0605131OTE / LFT&E |
| Look Reports, Joint Live Fire Test reports and other rec | is of the number of beyond low-rate initial production live fire test a quired products that were submitted within established time standahieve its goals for FY 2014 and FY 2015 through continued manage | ards relative to the total number of such produc |
| | | |
| | | |
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PE 0605131OTE: *Live Fire Test and Evaluation (LFT&E)* Operational Test and Evaluation, Defense

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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

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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 Proje

| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operational Test and Evaluation, Defense | | | | | | | | Date: Marc | ch 2014 | | | |
|---|----------------|---------|---------|-----------------|------------------|------------------|---------|------------|---|---------|---------------------|---------------|
| Appropriation/Budget Activity 0460 / 6 | | | | | , , , | | | | 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. | | | |

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FY 2013

FY 2014

FY 2015

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|--|---|---|---------|------------|---------|
| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 0605814OTE I Operational Test Activities and Analyses | Project (Number/Name) 0605814OTE / OTA&A | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2013 | FY 2014 | FY 2015 |
| The program did not start any new joint tests in FY 2013 due to The program did initiate ten quick reaction tests, which are sho program also initiated one special project. Four feasibility stud the programmed two studies. Out of the four studies, two will be project execution in FY 2014. | rt term projects directed to work on problems of limited scope ies will be conducted in the second half of the fiscal year inst | e. The ead of | | | |
| Threat Systems | | | | | |
| Threat Systems continued test planning working group particip provided current intelligence support tailored to specific U.S. w Positioning Satellite jamming capabilities to increase threat rea ammunition and rocket propelled grenade signature model for | eapon systems acquisitions; continued the development of G lism at our test ranges, and continued the development of ar | lobal | | | |
| In FY 2013, Threat Systems became the lead for implementing infrared countermeasure systems are available for testing. Thr system for the development, maintenance, anomaly resolution and Allied representation. Threat Systems also initiated an inv of the follow-on next generation threat GPS jammer; and identi Threat Systems managed a series of technical analyses of WE to determine characteristics the test community needs to adequengagements. | reat Systems established a formal configuration management and distribution of threat performance models with tri-Service estigation of ballistic missile related threats; began developmined representative cyber warfare threats for testing. In additestrated threats by each of the Intelligence Production Center. | ent ion, | | | |
| These activities help DOT&E carry out its Title 10 responsibilities realistic and suitable, and promotes common solutions to Servi | | | | | |
| The Center | | | | | |
| The Center completed over 50 T&E activities and analyzed and emphasis on rotary wing survivability, CM/CCM employment, w supported received an independent assessment of our data/fin Approximately 49% of the Center's efforts were spent on aircrathese efforts in support of rotary wing aircraft. About 11% of the other types of field testing not related to ASE. Approximately 6 | varning and targeting systems, and PGWs. Most programs dings and test support for their CM/CCM evaluations. If survivability equipment (ASE) testing; with the majority of e Center's efforts were spent on PGW, foreign systems, and | | | | |

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| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 0605814OTE I Operational Test Activities and Analyses | me) Project (Number/Name) 0605814OTE / OTA&A | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2013 | FY 2014 | FY 2015 |
| emphasis on CM-based, pre-deployment training for rotary wind on internal programs to improve test capabilities and to develop which was accomplished in concert with the Central Test and E CTEIP-sponsored, Joint Mobile Infrared Countermeasure Test Spectral Sea and Land Target Simulator (MSALTS). The Centernally funded Portable Range Threat Simulator (PRTS) capa (RLS) and the Hostile Fire Signature (HSIG) Models, will be used urgent operational needs. Our support was distributed across a development activities. | to test methodologies for new types of T&E activities, much of Evaluation Investment Program (CTEIP). Programs include the System (JMITS), Towed Aerial Plume Simulator (TAPS) and er is expanding in the electronic warfare (EW) realm with a neability. These systems, as well as the new remote launch system in support of testing for both Title 10 programs and OCO A | ne Multi- ew stems ASE | | | |
| About 2% of the Center's efforts consisted of providing subject test activities. The Center provided expertise to many organiza Expendable Countermeasures (JECM) Integrated Product Tear Working Group (MSS IRCM WG), Joint Aircraft Survivability Profesign Material Program T&E Subcommittee, Joint Project Ma (JCMT&E WG), and JCMT&E WG Hostile Fire Indicator (HFI) s | itions and was actively involved in the following panels: Joint m, Joint Infrared Countermeasures Multi Sensing Symposia ogram (JASP), Foreign Material Exploitation Working Group, illari Working Group, Joint Countermeasures T&E Working C | | | | |
| FY 2014 Plans: Joint Test and Evaluation (JT&E) | | | | | |
| By FY 2014, the program will be on the nomination-selection-exbusiness model to improve the process. | xecution cycle developed in FY 2012, but will continually adju | st the | | | |
| In FY 2014 JT&E has two joint test projects slated to close out of Advanced Capability Employment Joint Test, anticipated to close procedures to enable the joint task force commander to employ The Joint Deployable Integrated Air and Missile Defense Joint Tevaluate tactics, techniques, and procedures to enable the joint missile, and theater ballistic missile defense capabilities. | se in August 2014, will to develop and test tactics, techniques advanced capabilities to overcome complex targeting challe Fest, scheduled to close in June 2014, will develop, test, and | s, and nges. | | | |
| 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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| Appropriation/Budget Activity 0460 / 6 | R-1 Program Element (Number/Name) PE 0605814OTE I Operational Test Activities and Analyses | | t (Number /l 40TE / <i>0T</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-futechnical threat analyses needed for the development of modern 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 to managing intelligence "deep dives" to produce intelligence in sufficient the modeling and simulation configuration control board continue the development and implementation of a tri-Service and systems have sufficient threat test assets. Threat Systems will prodot board continue the development and implementation of a tri-Service and systems have sufficient threat test assets. Threat Systems will prodot board continue interest systems and evaluation. Threat systems threat performance 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 relatives activities help DOT&E carry out its Title 10 responsibilities realistic and suitable, and promotes common solutions to Service | ailored to specific U.S. weapon systems acquisitions; continued to develop new threat test assets; operate and for threat models and simulation used in test facilities; and discontinued Allied threat M&S roadmap to ensure infrared counterme ropose, manage and oversee threat test assets that suppostems from the various intelligence agencies for possible stems will also continue efforts to maintain a standard set of a model for small arms and RPGs for use in test and ated threats. | asure t | | | |
| The Center | | | | | |
| The Center will test, analyze, and report on more than 30 systems employment, warning and targeting systems, and PGWs. Each p of our data/findings and test support for CM/CCM evaluations. The enterprise, with a clear focus on Title 10 weapons systems, aircrate conduct ongoing investigations towards determining and filling the these test activities, the Center will continue to provide CM expert focused tactics, techniques and procedures (TTP) development. sponsored MSALTS, which will be used in support of testing for b Center will work with CTEIP and AEDC on the development of JS Center will complete the development of a new RLS capable of la development of the PRTS, expanding its output power and our cate continue working with the Threat Simulator Working Group (TSW) across all the Services, as well as intelligence agencies and researched. | program supported will receive an independent assessment of the Center will continue to emphasize support of the DOT& of the survivability and hostile fire initiatives. It will continue to be gaps in EW and multimode system testing. In addition to tise in pre-deployment events and training, as well as CM/C The Center will complete the initial development of the CT with Title 10 programs and ASE urgent operational needs. SIS to add enhanced data collection for radiometric events. SIS to add enhanced missiles. The Center plans to compability to support multimode guidance T&E. The Center of G)-sponsored HSIG model. Our support will be distributed | ECCM- EIP- The The nplete | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2015 Operation | al Test and Evaluation, Defense | Date: N | March 2014 | |
|---|---|-----------------------------------|------------|---------|
| Appropriation/Budget Activity 0460 / 6 | | oject (Number/l 05814OTE / OT/ | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2013 | FY 2014 | FY 2015 |
| The Center will provide expertise to many organizations and will on Integrated Product Team, Joint Infrared Countermeasures Multice Foreign Material Exploitation Working Group, Foreign Material Praced JCMT&E WG, and JCMT&E WG HFI subgroup lead. | Sensing Symposia Working Group (MSS IRCM WG), JASP, | ο, | | |
| FY 2015 Plans: In FY 2015 JT&E has two projects slated to close and an estimate Slow, Small UAS Joint Test, anticipated to close in April 2015, will procedure to increase their ability to detect, track, and identify lowerea air defense commander. The Unmanned Aircraft Systems Awill develop, test, and evaluate standardized DoD UAS procedure Airspace System. | Il develop and test integrated air and missile defense operator w, slow, and small UASs and provide timely notification to the Airspace Integration Joint Test, scheduled to close in July 2015 | | | |
| Four new feasibility studies will be conducted in FY 2015, two of | which will be selected to conduct joint tests. | | | |
| Threat Systems | | | | |
| In FY 2015, Threat Systems will continue test planning working g threat shortfalls; conduct special studies and provide current intel acquisitions. Threat Systems will: | | | | |
| - Provide intelligence support to DOT&E staff to address specific T&E Oversight list and provide briefings and special intelligence results and manage threat M&S to support test and evaluation developed threat models, performing threat model anomaly resolated into T&E facilities and distributing performance and signate and anomaly intelligence and Analysis of Multip programs by conducting intelligence "deep dives" to produce intelligence and programs of T&E at foreign material exchanges, inter-agency awareness of T&E needs for foreign material, coordinate service requirements for T&E. - Represent DOT&E at the Intelligence Mission Data Oversight Eaffecting the intelligence data supporting weapons systems acquired. | by overseeing and coordinating intelligence community ution resolving differences from live fire testing, integrating thre ture models to T&E users. Ile Sources (ITEAMS) efforts supporting F-35 and other EW lligence in sufficient detail to develop new threat test assets. coordinating groups, and non-proliferation groups to raise requirements, and de-conflict and prioritize foreign material soard responsible for development, production and sharing issues. | | | |
| - Oversee new and legacy threat system investments. | | | | |

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| 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 test a realistic and suitable, and promotes common solutions to Service threat representations. | | testing is | | | | | |
| The Center | | | | | | | |
| data/findings and test support for CM/ CCM evaluations. The Center will continue with a clear focus on Title 10 weapons systems, aircraft survivability and hostile to continue to provide CM expertise in pre-deployment events and training, as well Center will continue Improvement and Modernization (I&M) efforts to improve out to work with the TSWG-sponsored HSIG model. Our support will be distributed agencies and research and development activities. The Center will provide expertise to many organizations and will continue to be a Integrated Product Team, Joint Infrared Countermeasures Multi Sensing Sympostoriegn Material Exploitation Working Group, Foreign Material Program T&E Sul JCMT&E WG, and JCMT&E WG HFI subgroup lead. | fire initiatives. Furthermore, the C as CM/CCM-focused TTP develor or T&E capabilities. The Center with across all the Services, as well as actively involved in the following passia Working Group (MSS IRCM W | Center will pment. Th ill continue intelligenc anels: JEC /G), JASP, | e e cM | | | | |
| 4 | Accomplishments/Planned Prog | ırams Sub | totals | 53.817 | 61.448 | 48.01 | |
| | | FY 2013 | FY 20 |)14 | | | |
| Congressional Add: Unjustified reduction | | 19.500 | | - | | | |
| FY 2013 Accomplishments: JT&E started several new projects in August 2013 (JFS), an increase of two JFSs over the baseline budget, and 2) eight Quick Rea of four over the baseline budget. Ultimately, seven QRTs were directed because Decoy Support to Stand-off Weapons QRT candidate was not technically support | action Tests (QRTs), an increase e the Miniature Air Launched | | | | | | |
| FY 2014 Plans: Rather than the normally planned six QRTs, JT&E is planning to February 14 SAC will select two Joint Tests and two new JFSs, resulting in an in | | | | | | | |
| Congressional Add: Electronic WarfareTest Capability | | - | 60. | 500 | | | |
| FY 2014 Plans: In FY14 \$60.5M was transferred to DOT&E to rapidly develop a systems for open-air range testing of F-35 and other air warfare weapon systems | | | | | | | |

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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.

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