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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Office of the Secretary Of Defense **Date:** February 2016

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 6:</i> <i>RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</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	18.698	18.833	21.337	19.541	-	19.541	20.610	20.351	20.539	20.881	Continuing	Continuing
P804: <i>Development Test &amp; Evaluation</i>	18.698	18.833	21.337	19.541	-	19.541	20.610	20.351	20.539	20.881	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This Program Element (PE) establishes the dedicated funding line to carry out the duties as described in Title 10 US Code, Section 139, the Weapons Systems Acquisition Reform Act of 2009. The Deputy Assistant Secretary of Defense for Development Test and Evaluation (DASD(DT&E)) is the principal advisor to the Secretary of Defense, the Under Secretary of Defense for Acquisition, Technology and Logistics (USD(AT&L)) and the Assistant Secretary of Defense for Research and Engineering (ASD(R&E)) on Development Test and Evaluation (DT&E) in the Department of Defense (DoD).

The DT&E program element is budgeted in the Research Development Test and Evaluation (RDT&E) budget activity to support and improve the DT&E efforts of Major Defense Acquisition Program (MDAP), Major Automated Information System (MAIS), and other Special Interest (SI) acquisition programs designated by USD(AT&L) as they progress through the acquisition/development lifecycle; assess the DT&E capabilities of the Military Departments and DoD Components; oversee the Test and Evaluation (T&E) career field of the defense acquisition workforce; develop policy and guidance for the conduct of DT&E within the DoD; and prepare the annual DT&E report to Congress.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	19.160	17.371	17.066	-	17.066
Current President's Budget	18.833	21.337	19.541	-	19.541
Total Adjustments	-0.327	3.966	2.475	-	2.475
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	4.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.620	-			
• Internal Realignment for Increased Analytical Support	-	-	3.000	-	3.000
• FY15 Reprog. for Cancelled Account	-0.007	-	-	-	-
• Other Reprogrammings	0.300	-	-	-	-
• FFRDC Reduction	-	-0.034	-	-	-
• Efficiency Reductions	-	-	-0.371	-	-0.371

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• Economic Assumptions	-	-	-0.154	-	-0.154
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**Change Summary Explanation**

FY 2017 internal realignment is provided for increased analytical resources to support acquisition program milestone decisions.

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<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605804D8Z / <i>Development Test &amp; Evaluation</i>				<b>Project (Number/Name)</b> P804 / <i>Development Test &amp; Evaluation</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
P804: <i>Development Test &amp; Evaluation</i>	18.698	18.833	21.337	19.541	-	19.541	20.610	20.351	20.539	20.881	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

This project provides for the assessment of the Developmental Test and Evaluation (DT&E) efforts of each Major Defense Acquisition Program (MDAP), Major Automated Information System (MAIS), and Special Interest (SI) acquisition programs as designated by USD(AT&L). It also provides for the assessment of DT&E capabilities of the Military Departments and DoD Components, oversees the Test & Evaluation (T&E) career field of the defense acquisition workforce, develops policy and guidance for the conduct of DT&E within DoD, and produces the annual DT&E report to Congress. Specific activities include the following:

- Work with MDAP/MAIS/SI Program Managers, Chief Developmental Testers, and Lead DT&E Organizations to develop a comprehensive DT&E strategy that supports acquisition decision milestones. Ensure that the test strategy beginning at Milestone A, is documented in the Test and Evaluation Master Plans (TEMPs). The Deputy Assistant Secretary of Defense (DASD) DT&E also approves or disapproves the developmental test and evaluation plans in the TEMPs.
- Coordinate with the Director of Systems Engineering (SE) to ensure that the DT&E activities of the DoD are fully integrated into, and consistent with, the SE and development planning processes of the Department.
- Provide formal DT&E Assessments prior to major milestone decisions to inform the acquisition decision-makers on the readiness of programs to release the Engineering and Manufacturing Development (EMD) Request For Proposal (RFP) pre Milestone B, and begin production, Milestone C, with the goal of reducing discovery of performance issues later in the acquisition cycle.
- Participate in Nunn-McCurdy certification review teams.
- Develop policy and guidance to ensure efficient and effective DT&E across DoD, including policy and guidance for developmental testing of interoperability and Cybersecurity in coordination with the Joint Staff and DoD Chief Information Officer (CIO).
- Review the organizations and capabilities of the military departments, with respect to developmental test and evaluation, and identify needed changes or improvements to such organizations and capabilities. Provide input regarding needed changes or improvements for the test and evaluation strategic plan developed by Test Resource Management Center (TRMC).
- As the T&E Functional Leader, establish, oversee, and maintain the education, training and experience requirements including competencies and certification standards to enhance T&E acquisition workforce. Monitor and facilitate Defense Acquisition University (DAU) updates of T&E courses to ensure the curriculum supports the certification standards and provides the appropriate education and training.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Developmental Test and Evaluation	18.833	21.337	19.541
<b>Description:</b> This program supports and improves the DT&E efforts of Major Defense Acquisition Program (MDAP), Major Automated Information System (MAIS), and other Special Interest (SI) acquisition programs designated by USD(AT&L) as			

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>they progress through the acquisition/development lifecycle; assess the DT&amp;E capabilities of the Military Departments and DoD Components; oversee the Test and Evaluation (T&amp;E) career field of the defense acquisition workforce; develop policy and guidance for the conduct of DT&amp;E within the DoD; and prepare the annual DT&amp;E report to Congress.</p> <p><b>FY 2015 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>-Worked with MDAP/MAIS/SI Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve DT&amp;E planning through the development of disciplined Evaluation Framework Matrixes and the use of Scientific Test and Analysis Techniques (STAT).</li> <li>-Continued to implement the DASD(DT&amp;E) 'Shift Left' philosophy that focuses on ensuring T&amp;E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and EMD RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on CyberSecurity, interoperability, and reliability.</li> <li>-Worked with MDAP/MAIS Program Managers to develop comprehensive DT&amp;E strategies to support capability development and weapon system acquisition.</li> <li>-Reviewed and approved all TEMP's submitted to support major acquisition reviews for MDAPs. Ensured DT&amp;E planning is complete prior to the start of DT&amp;E activities.</li> <li>-Completed the FY 2014 DT&amp;E Annual Report to Congress that provided an assessment of MDAP DT&amp;E progress and assesses the T&amp;E workforce. Begin development of the FY 2015 Annual Report to Congress.</li> <li>-Refined DT&amp;E policies and methodologies addressing DT&amp;E across all MDAP, MAIS and SI programs. In concert with DASD(SE), DASD(Command, Control and Communications (C3)/Cyber), and Director, Operational Test and Evaluation (DOT&amp;E), developed a guidebook to help Program Managers and their staffs integrate cybersecurity risk management into their programs throughout the system lifecycle. This guide includes specific guidance on how to integrate cybersecurity assessment activities with developmental test and evaluation activities.</li> <li>-Developed a charter for the Interoperability Test &amp; Evaluation Panel (ITEP). This panel will oversee how test and evaluation processes are implemented by the Components.</li> <li>-Published DT&amp;E data-based system performance assessments to support Defense Acquisition Board (DAB) review of MDAP and MAIS programs proceeding to major milestones.</li> <li>-Promoted the application of sound DT&amp;E and related technical disciplines across the Department's acquisition community and programs.</li> <li>-Sustained the Scientific Test and Analysis Techniques Center of Excellence (STAT COE).</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>-Work with MDAP/MAIS/SI Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve DT&amp;E planning through the development of disciplined Evaluation Framework Matrixes and the use of STAT.</li> </ul>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p>-Continue to implement the DASD(DT&amp;E) 'Shift Left' philosophy that focuses on ensuring T&amp;E strategies are developed in advance of releasing TMRR and EMD RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on CyberSecurity, interoperability, and reliability.</p> <p>-Work with MDAP/MAIS Program Managers to develop comprehensive DT&amp;E strategies to support capability development and weapon system acquisition.</p> <p>-Review and approve all TEMPs submitted to support major acquisition reviews for MDAPs. Ensure DT&amp;E planning is complete prior to the start of DT&amp;E activities.</p> <p>-Complete the FY 2015 DT&amp;E Annual Report to Congress that provides an assessment of MDAP DT&amp;E progress and assesses the T&amp;E workforce. Begin development of the FY 2016 Annual Report to Congress.</p> <p>-Refine DT&amp;E policies and methodologies addressing DT&amp;E across all MDAP, MAIS and SI programs.</p> <p>-Publish DT&amp;E data-based system performance assessments to support Defense Acquisition Board (DAB) review of MDAP and MAIS programs proceeding to major milestones.</p> <p>-Promote the application of sound DT&amp;E and related technical disciplines across the Department's acquisition community and programs.</p> <p>-Work with the Services to identify funding to sustain the Scientific Test and Analysis Techniques Center of Excellence (STAT COE).</p> <p><b>FY 2017 Plans:</b></p> <p>-Work with MDAP/MAIS/SI Program Managers, Chief Developmental Testers, and Lead DT&amp;E organizations to improve DT&amp;E planning through the development of disciplined Evaluation Framework Matrixes and the use of STAT.</p> <p>-Continue to implement the DASD(DT&amp;E) 'Shift Left' philosophy that focuses on ensuring T&amp;E strategies are developed in advance of releasing TMRR and EMD RFPs, and increasing the amount and quality of data available to support production decisions with specific focus on CyberSecurity, interoperability, and reliability.</p> <p>-Work with MDAP/MAIS Program Managers to develop comprehensive DT&amp;E strategies to support capability development and weapon system acquisition.</p> <p>-Review and approve all TEMPs submitted to support major acquisition reviews for MDAPs. Ensure DT&amp;E planning is complete prior to the start of DT&amp;E activities.</p> <p>-Complete the FY 2016 DT&amp;E Annual Report to Congress that provides an assessment of MDAP DT&amp;E progress and assesses the T&amp;E workforce. Begin development of the FY 2017 Annual Report to Congress.</p> <p>-Refine DT&amp;E policies and methodologies addressing DT&amp;E across all MDAP, MAIS and SI programs.</p> <p>-Publish DT&amp;E data-based system performance assessments to support Defense Acquisition Board (DAB) review of MDAP and MAIS programs proceeding to major milestones.</p>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2015	FY 2016	FY 2017
-Promote the application of sound DT&E and related technical disciplines across the Department's acquisition community and programs.			
<b>Accomplishments/Planned Programs Subtotals</b>	18.833	21.337	19.541

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

- Engaged and conducted oversight on all AT&L-designated MDAP, MAIS, and SI Programs.
- Advised at Defense Acquisition Board (DAB), Overarching Integrated Product Teams (OIPT), and Nunn-McCurdy Reviews.
- Reviewed and approved Test and Evaluation Master Plans (TEMPs) for MDAP, MAIS, and AT&L-designated Special Interest programs.
- Prepared formal DT&E assessments to inform Acquisition decision makers of readiness to enter EMD or begin Low Rate Initial Production.
- Implemented the education requirements for the T&E career field to require a hard science degree to support the T&E of increasingly more complex systems.
- Participated in the development of a major revision to the DoDI 5000.02.
- Supported OSD led Peer Reviews.
- In concert with DASD(SE), DASD(C3/Cyber), and DOT&E, developed a guidebook to help Program Managers and their staffs integrate cybersecurity risk management into their programs throughout the system lifecycle.
- The Scientific Test and Analysis Techniques Center of Excellence (STAT COE) supported development of disciplined test strategies.