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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense	Date: May 2017
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>					R-1 Program Element (Number/Name) PE 0605804D8Z / <i>Development Test & Evaluation</i>							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	37.531	20.749	19.541	20.571	0.000	20.571	20.321	20.121	20.455	20.875	Continuing	Continuing
P804: <i>Development Test & Evaluation</i>	37.531	20.749	19.541	20.571	-	20.571	20.321	20.121	20.455	20.875	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element (PE) establishes the dedicated funding line to carry out the duties In Accordance With Department of Defense Instruction (DoDI) 5000.02 Change 2 dated February 2017. Specific responsibilities are outlined in DoDI 5134.17 Change 1 dated September 2015. 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 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) / Business System Category Programs, and other Special Interest (SI) acquisition programs designated by USD(AT&L) as they progress through the acquisition/development lifecycle; 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 reports to Congress as required.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018 Base</u>	<u>FY 2018 OCO</u>	<u>FY 2018 Total</u>
Previous President's Budget	21.337	19.541	20.610	-	20.610
Current President's Budget	20.749	19.541	20.571	-	20.571
Total Adjustments	-0.588	0.000	-0.039	-	-0.039
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.588	-			
• Other program adjustments	-	-	-0.039	-	-0.039
• DTIC Offset	-	-	0.000	-	0.000

Change Summary Explanation

Activities within this document reflect headquarter-wide efficiency initiatives.

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense										Date: May 2017		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605804D8Z / Development Test & Evaluation				Project (Number/Name) P804 / Development Test & Evaluation			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
P804: Development Test & Evaluation	37.531	20.749	19.541	20.571	-	20.571	20.321	20.121	20.455	20.875	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides resources to support Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E Organizations in the development of comprehensive and efficient DT&E strategies to support key acquisition milestones and engineering decisions. This project also manages the Test & Evaluation (T&E) career field and curriculum for the DoD acquisition workforce, develops policy and guidance for the conduct of DT&E within DoD, and prepares reports report to Congress as required. Specific activities include the following:

- The Deputy Assistant Secretary of Defense DT&E (DASD(DT&E)) ensures that test strategies beginning at Milestone A, are documented in the Test and Evaluation Master Plans (TEMPs). DASD(DT&E) reviews and approves/disapproves the developmental test and evaluation strategy within the TEMPs.
- 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.
- Managing the Scientific Test and Analysis Techniques Center of Excellence (STAT COE). Over the last 4 years, the STAT COE has supported over 40 Acquisition Program Managers in the development of statistically optimized test programs. These efforts have resulted in 83 more efficient and effective test plans and a test cost avoidance of about \$150M.
- Coordinate with the Test Resources Management Center (TRMC) to identify DoD test infrastructure gaps and support development of the TRMC strategic plan.
- 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.
- 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).
- As the T&E Functional Leader, establish, oversee, and maintain the education, training and experience requirements including competencies and certification standards to enhance the 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)

	FY 2016	FY 2017	FY 2018
Title: Developmental Test and Evaluation	20.749	19.541	20.571
Description: This program supports and improves the DT&E efforts of Major Defense Acquisition Program (MDAP), Major Automated Information System (MAIS) /Business System Category Programs, and other Special Interest (SI) acquisition programs as they progress through the acquisition/development lifecycle; oversee the Test and Evaluation (T&E) career field of the defense			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
<p>acquisition workforce; develop policy and guidance for the conduct of DT&E within the DoD; and prepare the annual DT&E report to Congress.</p> <p>FY 2016 Accomplishments:</p> <ul style="list-style-type: none"> -Worked with over 150 MDAP/MAIS/SI Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve DT&E planning and develop comprehensive and efficient DT&E strategies through the use of disciplined Evaluation Framework Matrixes and Scientific Test and Analysis Techniques (STAT). -Continued to implement the DASD(DT&E) 'Shift Left' philosophy that focuses on ensuring DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) Request For Proposals (RFPs), and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability. -Reviewed and approved 28 Test and Evaluation Master Plans (TEMPs) submitted to support major acquisition reviews for MDAPs. Ensured DT&E planning is complete prior to the start of DT&E activities. -Refined DT&E policies and methodologies addressing DT&E across all Acquisition programs. Incorporated the T&E cybersecurity process into the DoDI 5000.02 enclosure 14. -Published 30 DT&E data-based system performance assessments to support Defense Acquisition Board (DAB) review of MDAP and MAIS programs proceeding to major milestones. Supported 24 Defense Acquisition Boards and 31 Overarching Integrated Product Team acquisition program reviews. -Promoted the application of sound DT&E and related technical disciplines across the Department's acquisition community and programs. -Sustained the Scientific Test and Analysis Techniques Center of Excellence (STAT COE) to support Acquisition Program Managers in the development of statistically optimized test programs. -Convened the Second T&E Key Leadership Position Certification Board that certified an additional 26 individuals as qualified to fill key T&E leadership positions. -Served as Functional Manager of the 8,738 member T&E acquisition workforce. Over 95 percent of the workforce achieved the certification standards required of the Defense Acquisition T&E Workforce (exceeded 90 percent goal). -Provided direction to the Defense Acquisition University (DAU) on the FY 2017 T&E education, training, and experience requirements including competencies and certification standards; position category description(s); and content of the DAU courses -Prepared and submitted the Highly Accelerated Life Testing (HALT) and Highly Accelerated Stress Screening (HASS) Report to Congress (June 2016) required by FY 2016 NDAA House Report -Completed the FY 2015 DT&E Annual Report to Congress that provides an assessment of MDAP DT&E progress and assesses the T&E workforce. Begin development of the FY 2016 Annual Report to Congress. <p>FY 2017 Plans:</p>				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017
<p>-Work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve DT&E planning and develop comprehensive and efficient DT&E strategies through the use of disciplined Evaluation Framework Matrixes and Scientific Test and Analysis Techniques (STAT).</p> <p>-Continued to implement the DASD(DT&E) 'Shift Left' philosophy that focuses on ensuring DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) Request For Proposals (RFPs), and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability.</p> <p>-Review/Approve all TEMP's submitted to support milestone reviews. Ensure DT&E planning is complete prior to the start of DT&E activities.</p> <p>-Refine DT&E policies and methodologies addressing DT&E across all Acquisition programs.</p> <p>-Publish DT&E data-based system performance assessments to support Defense Acquisition Board (DAB) review of MDAP and Business System Category programs proceeding to major milestones.</p> <p>-Promote the application of sound DT&E and related technical disciplines across the Department's acquisition community and programs.</p> <p>-Sustain the Scientific Test and Analysis Techniques Center of Excellence (STAT COE) to support Acquisition Program Managers in the development of statistically optimized test programs. Work with the Services to identify funding to sustain the STAT COE in FY 2018.</p> <p>-Convene the T&E Key Leadership Position Certification Board to review T&E key leadership candidates.</p> <p>-Serve as Functional Manager of the T&E acquisition workforce.</p> <p>-Review the Defense Acquisition University (DAU) T&E education, training, and experience requirements including competencies and certification standards; position category description(s); and content of the DAU courses. Provide direction on needed changes.</p> <p>-Complete the FY 2016 DT&E Annual Report to Congress that provides an assessment of MDAP DT&E progress and assesses the T&E workforce. Prepare reports to Congress as required.</p> <p>FY 2018 Plans:</p> <p>-Work with Acquisition Program Managers, Chief Developmental Testers, and Lead DT&E organizations to improve DT&E planning and develop comprehensive and efficient DT&E strategies through the use of disciplined Evaluation Framework Matrixes and Scientific Test and Analysis Techniques (STAT).</p> <p>-Continue to implement the DASD(DT&E) 'Shift Left' philosophy that focuses on ensuring DT&E strategies are developed in advance of releasing Technology Maturation and Risk Reduction (TMRR) and Engineering and Manufacturing Development (EMD) Request For Proposals (RFPs), and increasing the amount and quality of data available to support production decisions with specific focus on cybersecurity, interoperability, and reliability.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017
<p>-Review/Approve all TEMP's submitted to support milestone reviews. Ensure DT&E planning is complete prior to the start of DT&E activities.</p> <p>-Refine DT&E policies and methodologies addressing DT&E across all Acquisition programs.</p> <p>-Publish DT&E data-based system performance assessments to support Defense Acquisition Board (DAB) review of MDAP and Business System Category programs proceeding to major milestones.</p> <p>-Promote the application of sound DT&E and related technical disciplines across the Department's acquisition community and programs.</p> <p>-Convene the T&E Key Leadership Position Certification Board to review T&E key leadership candidates.</p> <p>-Serve as Functional Manager of the T&E acquisition workforce.</p> <p>-Review the Defense Acquisition University (DAU) T&E education, training, and experience requirements including competencies and certification standards; position category description(s); and content of the DAU courses. Provide direction on needed changes.</p> <p>-Prepare reports to Congress as required.</p>			
Accomplishments/Planned Programs Subtotals		20.749	19.541
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
<ul style="list-style-type: none"> • 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 DT&E strategy in Test and Evaluation Master Plans (TEMPs) for MDAP, MAIS, and Special Interest programs. • Prepared formal DT&E assessments to inform Acquisition decision makers of readiness to enter EMD or begin Low Rate Initial Production. • Supported OSD led Peer Reviews. • The Scientific Test and Analysis Techniques Center of Excellence (STAT COE) supported development of disciplined test strategies. 			