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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0701212F / <i>Automated Test Systems</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	-	0.000	14.563	19.062	0.000	19.062	11.800	0.000	0.000	0.000	Continuing	Continuing
6506TE: <i>Test And Evaluation Support Budget Authority</i>	-	0.000	14.563	19.062	0.000	19.062	11.800	0.000	0.000	0.000	Continuing	Continuing

**Note**

The Bomber Armament Tester is replacing six legacy testers and combining their capabilities into one tester. The Bomber Armament Tester will support the B-2, B-1 and B-52 platforms.

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

The Bomber Armament Tester will ensure that our USAF bomber fleet can conduct nuclear deterrence, global power projection and global strike operations to support the President of the United States and Combatant Commanders by having a reliable, cyber secure, and sustainable tester. The tasks are to develop a common bomber armament tester and the Test Program Sets (Software, Hardware, and Documentation) to test the armament release equipment on the bombers.

RDT&E efforts support development, testing, and producibility of the Bomber Armament Tester and Test Program Sets. The program will utilize an incremental development approach with B-2 plus most complex B-1 and B-52 test program sets as Increment 1, B-1 as Increment 2, and B-52 as Increment 3.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	0.000	14.563	14.545	0.000	14.545
Current President's Budget	0.000	14.563	19.062	0.000	19.062
Total Adjustments	0.000	0.000	4.517	0.000	4.517
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	4.517	0.000	4.517

**Change Summary Explanation**

-\$4.5M increase in FY 17 is to begin increment two of the Bomber Armament Tester program. Increment one includes core tester and test program sets for B-2 aircraft and the most complex B-1 and B-52 test program sets. Increment two will begin the test program set development for the B-1 aircraft and B-52 test program sets.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 3600 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0701212F / <i>Automated Test Systems</i>				<b>Project (Number/Name)</b> 6506TE / <i>Test And Evaluation Support Budget Authority</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>
6506TE: <i>Test And Evaluation Support Budget Authority</i>	-	0.000	14.563	19.062	0.000	19.062	11.800	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Bomber Armament Tester will ensure that our USAF bomber fleet can conduct nuclear deterrence, global power projection and global strike operations to support the President of the United States and Combatant Commanders by having a reliable, cyber secure, and sustainable tester. The tasks are to develop a common bomber armament tester and the Test Program Sets (Software, Hardware, and Documentation) to test the armament release equipment on the bombers.

RDT&E efforts support development, testing, and producibility of the Bomber Armament Tester and Test Program Sets. The program will utilize an incremental development approach with B-2 as Increment 1, B-1 as Increment 2, and B-52 as Increment 3.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Bomber Armament Tester	0.000	14.563	19.062
<b>Description:</b> New Common Bomber Armament Tester for B-1, B-2, and B-52.			
<b>FY 2015 Accomplishments:</b> N/A			
<b>FY 2016 Plans:</b> - Develop Bomber Armament Tester and Test Program Sets for use with B-2 - Conduct initial test with B-2. -Beginning requirement analysis of the next increments which are B-1 and B-52. This will include the most complex B-1 and B-52 test program set development. -An independent cost analysis is being conducted to verify the program cost inputs.			
<b>FY 2017 Plans:</b> - Develop Bomber Armament Tester and Test Program Sets for use with B-2 - Conduct initial test with B-2 - Requirements analysis for increments 1 and 2. This will include the most complex B-1 and B-52 test program set development.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	14.563	19.062

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0701212F / <i>Automated Test Systems</i>	<b>Project (Number/Name)</b> 6506TE / <i>Test And Evaluation Support Budget Authority</i>

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

N/A

**Remarks**

**D. Acquisition Strategy**

Acquisition Strategy for the Bomber Armament Tester (BAT) was approved by AFPEO/ Agile Combat Support on 12 November 2016 . The BAT program will use an increment approach based on customer needs to fill this requirement. Increment 1 includes the development of the core test set, the B-2A requirements and development of the most complex B-1B and B-52 test program sets. Increment 2 consist of the B-1B development and Increment 3 consists of the B-52H requirements. The BAT program requirement will be utilize full and open competition to award the contract.

**E. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0701212F / Automated Test Systems	<b>Project (Number/Name)</b> 6506TE / Test And Evaluation Support Budget Authority
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<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development	TBD	Not specified. : TBD	-	0.000		10.133	Nov 2016	11.302	Jan 2017	0.000		11.302	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		10.133		11.302		0.000		11.302	-	-	-

**Remarks**  
Product Development Cost include the development of the Bomber Armament Test Sets ( Units under test Software, hardware and Technical Data), Technical Data and maintenance of Government Furnished Equipment.

<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Logistic Support	TBD	Not specified. : TBD	-	0.000		1.580	Jun 2016	3.160	Jan 2017	0.000		3.160	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		1.580		3.160		0.000		3.160	-	-	-

**Remarks**  
Support Cost include Independent verification and validation support, Nuclear Certification Support and Cyber Security authority support.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development and Operation Testing support	TBD	Not specified. : TBD	-	0.000		1.250	Nov 2016	2.500	Jan 2017	0.000		2.500	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		1.250		2.500		0.000		2.500	-	-	-

**Remarks**  
Environmental testing of the Bomber Armament Tester and operational testing of the test program sets for the B-2 and most complex B-1 and B-52

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2017 Air Force</b>											<b>Date: February 2016</b>				
<b>Appropriation/Budget Activity</b> 3600 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0701212F / Automated Test Systems					<b>Project (Number/Name)</b> 6506TE / Test And Evaluation Support Budget Authority				

<b>Management Services (\$ 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>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Travel	Various	Not specified. : TBD	-	0.000		0.100	Sep 2016	0.100	Sep 2017	0.000		0.100	Continuing	Continuing	-
Program Management Support	TBD	Not specified. : TBD	-	0.000		1.500	Jun 2016	2.000	Mar 2017	0.000		2.000	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		1.600		2.100		0.000		2.100	-	-	-

**Remarks**  
PMA costs include travel to support the development of the Bomber Armament Tester. PMA cost also include an Information Assurance expert and Assistance and advisory service contractors to provide support to the program office during the development of the program.

	<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>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	-	0.000	14.563	19.062	0.000	19.062	-	-	-

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0701212F / <i>Automated Test Systems</i>	<b>Project (Number/Name)</b> 6506TE / <i>Test And Evaluation Support Budget Authority</i>

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Request for Proposal Release					■																							
Milestone B Decision									■																			
Contract Award									■																			
Initial Nuclear Certification Impact Statement									■																			
System Functional Review													■															
Preliminary Design Review													■															
Critical Design Review									■																			
System Verification Review																	■											
Developmental Testing													■															
Operational Testing																	■											
Final Nuclear Certification Impact Statement													■															
Completed Prototype													■															
Authority To Operate Issued																	■											
Operational Test and Readiness Review																	■											
Physical Configuration Audit																	■											
Production Readiness Review																	■											
Milestone C Decision																	■											
B-1B Requirements Analysis													■															

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 3600 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0701212F / <i>Automated Test Systems</i>	<b>Project (Number/Name)</b> 6506TE / <i>Test And Evaluation Support Budget Authority</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Request for Proposal Release	2	2016	2	2016
Milestone B Decision	1	2017	1	2017
Contract Award	1	2017	1	2017
Initial Nuclear Certification Impact Statement	1	2017	1	2017
System Functional Review	1	2018	1	2018
Preliminary Design Review	2	2018	2	2018
Critical Design Review	1	2017	1	2017
System Verification Review	4	2018	2	2019
Developmental Testing	4	2018	1	2019
Operational Testing	2	2019	2	2019
Final Nuclear Certification Impact Statement	4	2018	4	2018
Completed Prototype	4	2018	4	2018
Authority To Operate Issued	2	2019	2	2019
Operational Test and Readiness Review	2	2019	2	2019
Physical Configuration Audit	2	2019	2	2019
Production Readiness Review	2	2019	2	2019
Milestone C Decision	2	2019	2	2019
B-1B Requirements Analysis	4	2018	4	2018

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