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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Air Force **Date:** March 2023

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force / 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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	15.445	16.664	12.911	0.000	12.911	29.331	34.566	36.288	14.215	Continuing	Continuing
6506TE: <i>Test And Evaluation Support Budget Authority</i>	-	15.445	16.664	12.911	0.000	12.911	29.331	34.566	36.288	14.215	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Program MDAP/MAIS Code:** 6506

**Note**

This program, BA 5, PE 0701212F, project 6506TE, Aircraft Smart Weapons Test Set ASWTS, is a new start.  
 This program, BA 5, PE 0701212F, project 6506TE, Common Armament Tester - Fighter, is a new start.

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

The Automatic Test Systems (ATS) program office is responsible for developing, acquiring, delivering and sustaining ATS war-fighting capabilities for the United States Air Force (USAF). ATS is responsible for developing, modernizing, acquiring, and sustaining ATS to meet the user's operational needs.

ATS Product Group consists of the following:

- Armament and Stores
- Avionics
- Electronic Warfare
- Software Loader/Verifier and Built-in-Test
- Radar and Identification Friend or Foe
- Specialized

Development, modernization and technology insertion for over 8K testers across all major commands and Joint Force. Accelerates developing and modernizing cyber-resilient, nuclear-certified ATS supporting USAF Armament, Bomber, Fighter/Advance Aircraft, Mobility, Training, ISR & SOF.

RDT&E (APPN 3600) funds needed for development of the Common Armament Tester-Fighters (CAT-F) which will be a common nuclear certified, cyber secure armament testing solution for the F-15 and F-16 with the option for A-10, F-22, and F-35 platforms. The development of this test will give the DoD the ability to develop a common tester to decrease life cycle cost, increase cyber security, reduce sustainment and mobility footprint across multiple platforms and acquiring government owned data.

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<p>Funds will be utilized to closeout remaining contract actions for the Bomber Armament Tester (BAT) 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. It will ensure the 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 providing 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.</p> <p>RDT&amp;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.</p> <p>The Common Aircraft Portable Reprogramming Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) loads operational flight programs to the weapon systems. CAPRE SMLV leads the fleet on Cyber initiatives and is government owned and developed. CAPRE SMLV supports 45 Mission Design Series (MDS) including but not limited to A-10, B-1, B-52, C-5, C-17, C-130, CV-22, F-15, F-16, H-60 and KC-46.</p> <p>This RDT&amp;E effort includes developing a Network Interface Module (NIM) that provides additional cyber hardening to the CAPRE system and redesigning the current CAPRE system to adapt to the NIM. Additionally this RDT&amp;E effort includes software development for NIM interfaces and new weapons systems moving to the CAPRE system from other MLV systems. The goal is to provide one common cyber secure MLV for the Air Force to minimize cyber vulnerabilities in weapon systems.</p> <p>RDT&amp;E efforts support prototype development and testing of the Common Armament Tester Fighter and Test Program Sets.</p> <p>Aircraft Smart Weapons Test Set (ASWTS)-The legacy testers do not have the capability to check a multitude of capabilities (such as MIL-STD-1760 signal integrity) added to the Fighter aircraft through avionics and weapons upgrades. A new ASWTS is required in order to fulfill current testing requirements not covered by the legacy Aircraft Circuits Preload Test Set (ACPTS). Program will be completed in an incremental Approach: Capture all Fighter aircraft requirements, Develop F-16 capability for all blocks (3600),Develop F-15 capability (3600) and Develop A-10 capability (3600)</p> <p>This program element also includes program administrative cost for the Automatic Test Systems program office and funds the cost of studies and research to support the Automatic Test Systems fleet.</p> <p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver Automatic Test Systems Program Office weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 0.000M was expended, and in FY23 0.000M is forecast for civilian pay expenses in this program element.</p> <p>This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.</p>		

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<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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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	15.445	0.000	0.000	0.000	0.000
Current President's Budget	15.445	16.664	12.911	0.000	12.911
Total Adjustments	0.000	16.664	12.911	0.000	12.911
• 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	16.664	12.911	0.000	12.911

**Change Summary Explanation**

Appropriated baseline.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
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<b>Title:</b> Aircraft Smart Weapons Test Set ASWTS	0.000	0.000	1.600
<b>Description:</b> Develop the capability to test fighter aircrafts MIL-STD-1760 smart weapons.			
<b>FY 2023 Plans:</b> N/A			
<b>FY 2024 Plans:</b> Develop a common, cyber secure armament testing solution for the A-10, F-15, F-16, F-22, and MQ-9 platforms.			
Develops and modernizes ATS that maximize warfighter core capabilities across spectrum of DoD weapon systems; accelerates technology development and transition of game-changing technologies into new and existing ATS			
Digital Transformation and Innovation are key to ATS relevant for tomorrow's fight in contested environment and supporting Persistent Logistics/Agile Combat Employment (i.e. Flight Line of the Future, Scalable ATS, Wireless and Cable-less ATS, Smart ATS, Rapid Reprogrammability, etc.)			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FUNDS NOT REQUIRED UNTIL FY 24. NEW START PROGRAM			
<b>Title:</b> Common Armament Tester - Fighter	0.000	0.000	6.811

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Description:</b> RDT&amp;E efforts support development, testing, and producibility of the Common Armament Tester -Fighter and Test Program Sets.</p> <p><b>FY 2023 Plans:</b> N/A</p> <p><b>FY 2024 Plans:</b> Funds efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture &amp; agile software enabling ACE.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> FUNDS NOT REQUIRED UNTIL FY24 FOR NEW START PROGRAM</p>				
<p><b>Title:</b> Bomber Armament Tester</p> <p><b>Description:</b> Funds will be utilized to close out contract actions on behalf of the Bomber Armament Tester program for B-1, B-2, and B-52. RDT&amp;E efforts support development, testing, and producibility of the Bomber Armament Tester and Test Program Sets as well as DSMS studies associated with the B-52 and B-2 programs to include but not limited to COLT and MUSTANG.</p> <p><b>FY 2023 Plans:</b> Funds needed to complete contract closeout, evaluation of property, software, etc. In addition, funds are needed to support obsolete/DMSMS for existing B-52 and B-2 testers long-term.</p> <p><b>FY 2024 Plans:</b> Remaining funds needed to complete contract closeout, evaluation of property, software, etc. In addition, funds are needed to support obsolete/DMSMS for existing B-52 and B-2 testers long-term.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Due to change in program strategy, funds decrease to meet contract closeout action items.</p>		4.434	10.660	0.000
<p><b>Title:</b> Common Aircraft Portable Reprogramming Equipment (CAPRE)</p> <p><b>Description:</b> Development of a common cyber secure Memory Loader Verifier for the Air Force.</p> <p><b>FY 2023 Plans:</b> Funding will be utilized for approximately 200 air adapter groups (AAG) that will allow the 18 platforms currently utilizing CAPRE legacy to transition over to utilizing CAPRE SMLV system.</p> <p><b>FY 2024 Plans:</b></p>		11.011	6.004	4.500

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Continuation of development of air adapter groups (AAG) that will allow the 18 platforms currently utilizing CAPRE legacy to transition over to utilizing CAPRE SMLV system.			
<b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Funding decrease is due to completion of the AAGs and NIM development wrapping up.			
<b>Accomplishments/Planned Programs Subtotals</b>	15.445	16.664	12.911

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• APAF 07 00071: <i>Replacement Support Equipment</i>	27.392	23.677	19.182	-	19.182	23.948	-	-	-	0.000	94.199

**Remarks**  
Other program funding includes procurement funds for Bomber Armament Tester Program, the Common Aircraft Portable Reprogrammable Equipment Secure Memory Loader Verifier, Aircraft Smart Weapons Test Set (ASWTS), Common Armament Tester - Fighters

Funds efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE.

**E. Acquisition Strategy**  
Acquisition Strategy for ATS modernization and technology insertion projects are evaluated for priority, feasibility, Return on Investment, and cost then sorted into Tiers for ease of classification:

- Tier I: Stars-Highest priority projects that are both achievable and provide significant benefits to the Air Force.
- Tier II: Rising Stars-Projects that are high priority, meet modernization goals, and will deliver needed capabilities.
- Tier III: Innovation Opportunities-Low TRL projects that require small investments to begin development.
- Tier IV: Sustainment Efforts-Lower cost efforts targeted at improving existing systems. Typically sustaining engineering funds (583), rather than R&D funds (3600)
- Tier V: Watch List-Low priority and/or immature concepts that require significant investment or technology development

Acquisition Strategy for the Bomber Armament Tester (BAT) was approved by AFPEO/ Agile Combat Support on 12 November 2015. The BAT program will use an incremental approach based on customer needs to satisfy 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 will utilize full and open competition to award the contract. Contract awarded September 28, 2017.

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The Acquisition strategy for Common Aircraft Portable Reprogrammable Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) is to use the original government manufacturer to develop the NIM, software and hardware development. Acquisition Strategy for CAPRE was approved by the Milestone Decision Authority in June 2017.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2024 Air Force</b>											<b>Date: March 2023</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>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</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>			
Product Development	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
CAPRE/CAPRE SMLV Development	PO	309th OO-ALC : UT	-	-		9.000	Nov 2022	4.500	Nov 2023	-		4.500	Continuing	Continuing	-
BAT Development / Cost Overruns	C/CPAF	Not specified. : CA	-	3.450	Oct 2021	7.664	Mar 2023	-		-		-	Continuing	Continuing	-
CAT-F DEVELOPMENT	C/TBD	Not specified. : TBD	-	-		-		6.811	Jan 2024	-		6.811	Continuing	Continuing	-
ASWTS DEVELOPMENT	C/TBD	Not specified. : TBD	-	-		-		1.000	Feb 2024	-		1.000	Continuing	Continuing	-
<b>Subtotal</b>			-	3.450		16.664		12.311		-		12.311	Continuing	Continuing	N/A

**Remarks**

Product Development Cost include all ATS modernization and technology insertion to include but not limited to the development of the Bomber Armament Test Sets (Units under test Software, hardware and Technical Data), Technical Data and maintenance of Government Furnished Equipment. Remaining funds needed to complete contract closeout, evaluation of property, software, etc. In addition, funds are needed to support obsolete/DMSMS for existing B-52 and B-2 testers long-term.

Development efforts include developing a Network Interface Module (NIM) that provides additional cyber hardening to the CAPRE system and redesigning the current CAPRE system to adapt to the NIM. Development effort also include software development for NIM interfaces and new weapons systems moving to the CAPRE system from other MLV systems. The goal is to provide one common cyber secure MLV for the Air Force.

Develops and modernizes ATS that maximize warfighter core capabilities across spectrum of DoD weapon systems; accelerates technology development and transition of game-changing technologies into new and existing ATS

Develops and modernizes ATS that maximize warfighter core capabilities across spectrum of DoD weapon systems; accelerates technology development and transition of game-changing technologies into new and existing ATS.

Joint Force/All MAJCOMs depend on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture

Digital Transformation and Innovation are key to ATS relevant for tomorrow's fight in contested environment and supporting Persistent Logistics/Agile Combat Employment; (i.e. Flight Line of the Future, Scalable ATS, Wireless and Cable-less ATS, Smart ATS, Rapid Reprogrammability, etc.)

Program is growing as WNA focuses on 5-10 year ATS Technology and Modernization program/roadmap.

Common Armament Tester-Fighter will develop a common, cyber secure armament testing solution for the A-10, F-15, F-16, F-22, and MQ-9 platforms. Reduces life cycle cost, increases cyber security, reduces sustainment footprint across multiple platforms and acquires government owned data.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2024 Air Force</b>											<b>Date:</b> March 2023		
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			

The Aircraft Smart Weapon Test Set (ASWTS) will fill the capability gap to test fighter aircrafts MIL-STD-1760 smart weapons.&#160; The current Aircraft Circuits Preload Test Set for the F-16 is not capable. Tester's positive impact on mission readiness expected to save 13,000 man-hours per year.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Test and Evaluation	C/CPAF	Not specified. : TBD	-	3.062	Oct 2021	-		-		-		-	Continuing	Continuing	-
Development and Operation Testing support	C/CPIF	Not specified. : NV	-	8.933	Oct 2021	-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	11.995		-		-		-		-	Continuing	Continuing	N/A

**Remarks**  
Test and Evaluation Cost include all ATS modernization and technology insertion to include but not limited to the 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.

<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Management Services	C/CPAF	Not specified. : TBD	-	-		-		-		-		-	Continuing	Continuing	-
Digital Innovation and Transformation	TBD	Not specified. : TBD	-	-		-		0.600	Feb 2024	-		0.600	Continuing	Continuing	-
BAT Travel	Various	Not specified. : NV	-	-		-		-		-		-	Continuing	Continuing	-
BAT Program Management Support	C/FFP	Not specified. : NV	-	-		-		-		-		-	Continuing	Continuing	-
CAPRE/CAPRE SMLV Travel	Various	Not specified. : NV	-	-		-		-		-		-	Continuing	Continuing	-
CAPRE/ CAPRE SMLV Program Management Support	C/FFP	Not specified. : NV	-	-		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		0.600		-		0.600	Continuing	Continuing	N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force** **Date:** March 2023

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<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			

**Remarks**  
PMA costs includes efforts to develop cyber-secure ATS to protect from existing and emerging threats and modernize with game-changing technology including digital engineering, open systems architecture & agile software enabling ACE and travel requirements. PMA cost also include an Information Assurance expert, Assistance and advisory service contractors to provide support to the program office during the development of the program. The program element may include necessary civilian pay expenses required to manage, execute and deliver Automatic Test System capability.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	15.445	16.664	12.911	-	12.911	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 Air Force		<b>Date:</b> March 2023
<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 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

<b><i>AUTOMATIC TEST SYSTEMS</i></b>	
TEST SYSTEM MODERNIZATION	
DT/OT	
CAPRE DT/OT AAG LEGACY PLATFORMS	
CAPRE LEGACY AAG DEVELOPMENT GATE	
<b><i>CAT-F</i></b>	
Develop F-16 capability for all blocks	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Air Force		<b>Date:</b> March 2023
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>AUTOMATIC TEST SYSTEMS</b>				
TEST SYSTEM MODERNIZATION	2	2023	4	2027
DT/OT	1	2022	3	2023
CAPRE DT/OT AAG LEGACY PLATFORMS	4	2023	2	2025
CAPRE LEGACY AAG DEVELOPMENT GATE	4	2023	2	2025
<b>CAT-F</b>				
Develop F-16 capability for all blocks	1	2023	4	2025

**Note**

Bomber Armament Tester (BAT) is a nuclear certified common tester capable of testing on-aircraft Stores Management Systems and Line Replacement Units both on- and off-aircraft. The BAT System will test functionality of the Armament Mission Equipment (AME) that is required for B-2A, B-1B, and B-52H weapons delivery. The BAT schedule reflects Increments I, II, AND III. Due to an increase in material cost and lack of access to needed Government Furnished Property (GFP) to the Original Equipment Manufacturer (OEM), the BAT program is experiencing major schedule delays which is causing the program to overrun the projected cost. Program re-baselined at the beginning of FY21 to stabilize program costs and schedule.

FY22 funds will be used for Engineering & Manufacture Design (EMD) phases for Increments I, II, and III. Without FY22 3600 funding, EMD and integration will be stopped, and BAT development and integration will be further delayed.

The Common Aircraft Portable Reprogramming Equipment (CAPRE) Secure Memory Loader Verifier (SMLV) a is government designed and developed memory loader verifier (MLV) to replace the aging F-16 unique MLV and legacy CAPRE equipment. FY22 funds will be used for Engineering & Manufacture Design (EMD) of the CAPRE SMLV to ensure a cyber-secure MLV to maximize readiness for 18 platforms.