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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	16.657	12.911	26.640	0.000	26.640	30.761	33.830	13.236	14.717	Continuing	Continuing
6506TE: <i>Test And Evaluation Support Budget Authority</i>	-	16.657	12.911	26.640	0.000	26.640	30.761	33.830	13.236	14.717	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Program MDAP/MAIS Code: 6506

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
- Automatic Test Systems Innovation and Digital Transformation

Requirements for the Common Armament Tester - Fighters and the Aircraft Smart Weapon Test Set program will be combined for FY24 through the sustainment of the programs.

RDT&E (APPN 3600) funds needed for the 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. Accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility.

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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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>	
<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&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&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&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&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, to include digital engineering and transformation.</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 FY23 0.000M was expended, and in FY24 and FY25 7.000M is forecasted 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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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force	Date: March 2024
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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>
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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	16.664	12.911	29.331	0.000	29.331
Current President's Budget	16.657	12.911	26.640	0.000	26.640
Total Adjustments	-0.007	0.000	-2.691	0.000	-2.691
• 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	-0.007	0.000			
• Other Adjustments	0.000	0.000	-2.691	0.000	-2.691

Change Summary Explanation

Appropriated baseline.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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Title: ATS Innovation and Digital Transformation / Aircraft Smart Weapons Test Set ASWTS	0.000	1.011	2.930
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Description: In an effort to accelerate Develop the capability to test fighter aircrafts MIL-STD-1760 smart weapons. Accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.

FY 2024 Plans:

Develop a common, cyber secure armament testing solution for the A-10, F-15, F-16, F-22, and MQ-9 platforms to include Common Armament Tester for Fighters (CAT-F), Common Organizational Level Tester (COLT)

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.)

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force</i> / BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.</p> <p>Failure in the ATS portfolio will ground aircraft (and/or weapons) due to an inability to troubleshoot, repair, and sustain critical components required for flight.</p> <p>FY 2025 Plans: Continue developing a common, cyber secure armament testing solution for the A-10, F-15, F-16, F-22, and MQ-9 platforms.</p> <p>Continue developing and modernizing 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</p> <p>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.)</p> <p>Accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased due to accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.</p>				
<p>Title: Automatic Test Systems Innovation/Digital Transformation / Common Armament Tester - Fighter</p> <p>Description: RDT&E efforts support development, testing, and producibility of the Common Armament Tester -Fighter and Test Program Sets.</p> <p>FY 2024 Plans:</p>		0.000	7.400	10.156

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<p>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.</p> <p>FY 2025 Plans: Continue developing 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.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: The funding increase for FY25 is due to the costs associated with awarding Increment I for the CAT-F and ASWTS programs, as well as the DCA civilian personnel costs. The increase is also due to the increase of the costs associated with the porting of Legacy AAGs to operate on the CAPRE SMLV tester utilizing the new controller and the Networked Interface Module (NIM). The Joint Force/All MAJCOMs depending on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture. 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.</p>				
<p>Title: Bomber Armament Tester</p> <p>Description: 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&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>FY 2024 Plans: 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>FY 2025 Plans: Program Cancelled</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding decreased due to cancellation in the program. Some funds maybe utilized for contract close out.</p>		10.653	0.000	0.000
<p>Title: Common Aircraft Portable Reprogramming Equipment (CAPRE)</p> <p>Description: Development of a common cyber secure Memory Loader Verifier for the Air Force. 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.</p> <p>FY 2024 Plans:</p>		6.004	4.500	13.554

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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.			
FY 2025 Plans: Continue of developing air adapter groups (AAG) that will allow the 18 platforms currently utilizing CAPRE legacy to transition over to utilizing CAPRE SMLV system.			
FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased due to Joint Force/All MAJCOMs depending ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture. 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.			
Accomplishments/Planned Programs Subtotals	16.657	12.911	26.640

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	
• APAF 07 00071: <i>Replacement Support Equipment</i>	23.677	19.182	23.948	-	23.948	-	-	-	-	0.000	66.807

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.

FY24 funding is required for administrative fees associated with releasing request for proposals (RFPs), direct cite authority (DCA) civilian personnel costs, and other administrative costs for the new start programs ASWTS and CAT-F. The Joint Force/All MAJCOMs depending on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture. 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.

The funding increase for FY25 is due to the costs associated with awarding Increment I for the CAT-F and ASWTS programs, as well as the DCA civilian personnel costs. The increase is also due to the increase of the costs associated with the porting of Legacy AAGs to operate on the CAPRE SMLV tester utilizing the new controller and the Networked Interface Module (NIM).

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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. 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. The Acquisition strategy for the Common Armament Tester for Fighters and Aircraft Smart Weapons Test Set will be approved in 2nd quarter FY24.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0701212F / Automated Test Systems	Project (Number/Name) 6506TE / Test And Evaluation Support Budget Authority
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
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	13.054	Nov 2024	-		13.054	Continuing	Continuing	-
BAT Development / Cost Overruns	C/CPAF	Not specified. : CA	-	7.657	Mar 2023	-		-		-		-	Continuing	Continuing	-
CAT-F DEVELOPMENT	C/TBD	Not specified. : TBD	-	-		4.011	Jun 2024	7.857	Nov 2024	-		7.857	Continuing	Continuing	-
ASWTS DEVELOPMENT	C/TBD	Not specified. : TBD	-	-		1.000	May 2024	1.916	Nov 2024	-		1.916	Continuing	Continuing	-
Subtotal			-	16.657		9.511		22.827		-		22.827	Continuing	Continuing	N/A

Remarks

FY24 and FY25 dates changed for CAT-F/ASWTS due to being under a continuing resolution (CR). Programs are considered new starts. Direct Cite Authority civilian pay positions have also been affected and will delay expenditures on the program.

FY24 funding is required for administrative fees associated with releasing request for proposals (RFPs), direct cite authority (DCA) civilian personnel costs, and other administrative costs for the new start programs ASWTS and CAT-F.

FY24 funding increased due to accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.

The funding increase for FY25 is due to the costs associated with awarding Increment I for the CAT-F and ASWTS programs, as well as the DCA civilian personnel costs. The increase is also due to the increase of the costs associated with the porting of Legacy AAGs to operate on the CAPRE SMLV tester utilizing the new controller and the Networked Interface Module (NIM).

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force **Date:** March 2024

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			

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.

The Aircraft Smart Weapon Test Set (ASWTS) will fill the capability gap to test fighter aircrafts MIL-STD-1760 smart weapons. 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.

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Direct Cite Authority Civilian Positions	C/CPAF	Not specified. : TBD	-	-		2.800	Apr 2024	3.100	Oct 2024	-		3.100	Continuing	Continuing	-
Digital Innovation and Transformation	TBD	Not specified. : TBD	-	-		0.600	Jan 2024	0.713	Feb 2025	-		0.713	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	-
Subtotal			-	-		3.400		3.813		-		3.813	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force **Date:** March 2024

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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	16.657	12.911	26.640	-	26.640	Continuing	Continuing	N/A

Remarks
The Joint Force/All MAJCOMs depending on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture. 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.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
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	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029							
	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				
<i>AUTOMATIC TEST SYSTEMS</i>																																
TEST SYSTEM MODERNIZATION																																
DT/OT																																
CAPRE DT/OT AAG LEGACY PLATFORMS																																
CAPRE LEGACY AAG DEVELOPMENT GATE																																
<i>CAT-F</i>																																
Develop F-16 capability for all blocks																																
Direct Cite Civilian Authorizations																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>	Project (Number/Name) 6506TE / <i>Test And Evaluation Support Budget Authority</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AUTOMATIC TEST SYSTEMS				
TEST SYSTEM MODERNIZATION	2	2023	4	2027
DT/OT	1	2023	3	2023
CAPRE DT/OT AAG LEGACY PLATFORMS	4	2023	2	2025
CAPRE LEGACY AAG DEVELOPMENT GATE	4	2023	2	2025
CAT-F				
Develop F-16 capability for all blocks	3	2024	4	2025
Direct Cite Civilian Authorizations	2	2024	4	2028

Note

The Bomber Armament Tester (BAT) program has been cancelled. Awaiting contract closeout costs from termination. The BAT tester was supposed to be 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. Program has been cancelled. Funds may be utilized for any contract close out actions associated with this program.

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.

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0701212F / <i>Automated Test Systems</i>	Project (Number/Name) 6506TE / <i>Test And Evaluation Support Budget Authority</i>
<p>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</p> <p>FY24 funding is required for administrative fees associated with releasing request for proposals (RFPs), direct cite authority (DCA) civilian personnel costs, and other administrative costs for the new start programs ASWTS and CAT-F.</p> <p>FY24 funding increased due to accelerating ATS Digital Transformation; introducing Digital Engineering into legacy systems to realize agility. Accelerates fielding cyber-resilient, nuclear-certified ATS supporting Next Generation Air Dominance (NGAD), 5th-generation aircraft, F-15EX, "Sentinel" Ground Based Strategic Deterrent (GBSD), B-21, KC-46 w/game-changing technology, digital engineering, open systems architecture, software development enabling Agile Combat Employment.</p> <p>The funding increase for FY25 is due to the costs associated with awarding Increment I for the CAT-F and ASWTS programs, as well as the DCA civilian personnel costs. The increase is also due to the increase of the costs associated with the porting of Legacy AAGs to operate on the CAPRE SMLV tester utilizing the new controller and the Networked Interface Module (NIM).</p> <p>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.</p> <p>Joint Force/All MAJCOMs depend on ATS digital transformation leveraging MBSE, Agile SW development, and Open Systems Architecture</p> <p>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.)</p> <p>Program is growing as WNA focuses on 5-10 year ATS Technology and Modernization program/roadmap.</p> <p>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.</p> <p>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.</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, to include digital engineering and transformation.</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...</p>		