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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207131F / A-10 Squadrons
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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	-	52.797	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	52.797
674809: <i>A-10 Squadrons</i>	-	52.797	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	52.797
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

A-10 conducts close air support (CAS), combat search and rescue (CSAR) and special operations missions. The A-10 must conduct around-the-clock air operations under various weather conditions against numerous and varied enemy threats. Funds may be used, but not limited to, resolve emerging safety of flight and diminishing manufacturing sources issues, and fulfill Federal Aviation Administration or other mandates necessary to ensure continued aircrew safety and mission effectiveness.

Operational Flight Program (OFP) development addresses user requirements to employ advanced weapons, smart munitions, targeting systems, increase situational awareness and enhance targeting capabilities. These computer processing and avionics upgrades are critical to building an architecture that promotes current open, agile, and digital concepts to enable the A-10's operational capabilities.

The A-10 program's current Central Interface Control Unit (CICU) with a modern central processor (software and hardware) is unable to incorporate Open Mission System/Universal Command and Control Interface (OMS/UCI) and Universal Armament Interface (UAI) architecture standards mandates. The new processor is referred to as the Central Interface Control System (CICS) and improves communications, situational awareness, data management, weapons management and targeting, and sensor management.

This program element includes funding to manage, execute, and deliver enhanced A-10 capabilities, and may include funding to support emerging modifications and other government support costs.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In PY23 \$0.000M was expended for civilian pay expenses in this program element, and in CY24 \$0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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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	64.593	0.000	0.000	0.000	0.000
Current President's Budget	52.797	0.000	0.000	0.000	0.000
Total Adjustments	-11.796	0.000	0.000	0.000	0.000
• 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	-9.999	0.000			
• SBIR/STTR Transfer	-1.797	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

Change Summary Explanation

\$9.999M reduction due to a Below Threshold Reprogramming (BTR) to F-15EX

\$1.797M reduction due to SBIR

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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Title: Operational Flight Program (OFP) Development	20.703	0.000	0.000
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Description: The OFP effort includes but was not limited to the Software Capability Upgrade (SCU) program, which fields software updates via an agile, incremental cadence of 1-2 years and address efforts required to maintain current code, integrate new precision weapons, advanced targeting pods, and improved avionics to meet DoD mandates in order to modernize the A-10's architecture.

OFP development funds also ensure concurrency with systems impacted by Operational Flight Program (OFP) development, including but not limited to the Full Mission Trainer (FMT), mission planning and support equipment, as well as required upgrades to the Software Integration Laboratory (SIL).

This OFP effort also contains Program Management Administration (PMA) support activities to include travel, office supplies, training courses, Video Teleconferencing (VTC) and support contractors.

FY 2024 Plans:

N/A

FY 2025 Plans:

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
N/A				
FY 2024 to FY 2025 Increase/Decrease Statement: OFP is not funded in FY24 and FY25.				
Title: ARC-210 Gen 6		0.785	0.000	0.000
Description: The ARC-210 Gen 6 and Mobile User Objective System (MUOS) capable High Power Amplifier/Low Noise Amplifier (HPA/LNA) provides multiple upgraded capabilities to the existing generation 4 radio including NSA-mandated cryptographic compliance updates and Air-Force-mandated MUOS capability. The ARC-210 Gen 6 upgrade also enables the Second Generation Anti-Jam Tactical Ultra-High Frequency Radio (SATURN), which is required for secure communication with ground forces in the contested battlespace.				
FY 2024 Plans: N/A				
FY 2025 Plans: N/A				
FY 2024 to FY 2025 Increase/Decrease Statement: ARC-210 Gen 6 is not funded in FY24 and FY25.				
Title: Central Interface Control System (CICS)		31.309	0.000	0.000
Description: A-10 Central Interface Control System (CICS) replaces the aging Central Interface Control Unit (CICU) that suffers from high failure rates, Diminishing Manufacturing Sources and Materiel Supply (DMSMS) issues, and insufficient data processing capacity. The RDT&E effort would encompass software and hardware development, Software Integration Laboratory (SIL) test stand, support equipment, software and cyber security testing.				
CICS is a foundational enabler for numerous upgrades to the A-10 which include, but are not limited to: 3D Audio, HRDS, JRG, 2GES, HOBIT, Link 16, SDB 1 and 2, FliteScene, LITENING Digital Pod, MUOS, SATURN and ARC-210 Gen VI. The CICS will utilize modern single board computers that have increased computing capacity, operate in high temperature environments and are available to support timely repair and replacement. Additionally, it converts selected analog systems outputs on the aircraft to digital and meet USAF mandated upgrades.				
FY 2024 Plans: N/A				
FY 2025 Plans:				

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
N/A			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> CICS is not funded in FY24 and FY25.			
Accomplishments/Planned Programs Subtotals	52.797	0.000	0.000

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APAF 05 Line Item A01000: <i>A-10 Squadrons, PE 0207131F</i>	83.972	0.000	0.000	-	0.000	0.000	-	-	-	0.000	83.972

Remarks

E. Acquisition Strategy

A-10 OFP development efforts is conducted organically by the 309th Software Engineering Groupe (309th SWEG) at Ogden Air Logistics Complex, Hill AFB UT. The ARC-210 radio Crypto Mandate, smart munitions and targeting systems for the Small Diameter Bomb (SDB) missionization efforts will be conducted by the contractor and organically by the 309th SWEG. The A-10 FMT simulator OFP is managed by the Simulator Division at Wright-Patterson Air Force Base and is currently contractor-developed and integrated. The A-10 CICS software is developed in collaboration with the 309th SWEG.

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207131F / A-10 Squadrons	Project (Number/Name) 674809 / A-10 Squadrons
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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			
OFP Development 1st Qtr FY22 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	-		-		-		-		-	0.000	0.000	-
OFP Development 2nd Qtr FY22 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	-		-		-		-		-	0.000	0.000	-
OFP Development 3rd Qtr FY22 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	-		-		-		-		-	0.000	0.000	-
OFP Development 4th Qtr FY22 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	-		-		-		-		-	0.000	0.000	-
OFP Development 1st Qtr FY23 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	2.875	Oct 2022	-		-		-		-	0.000	2.875	-
OFP Development 2nd Qtr FY23 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	2.875	Jan 2023	-		-		-		-	0.000	2.875	-
OFP Development 3rd Qtr FY23 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	-		-		-		-		-	0.000	0.000	-
OFP Development 4th Qtr FY23 (309 SWEG)	PO	309 SWEG : Hill AFB, UT	-	5.165	Apr 2024	-		-		-		-	0.000	5.165	-
CICS Development Contract	C/FFP	Raytheon : McKinney, TX	-	31.309	Sep 2023	-		-		-		-	0.000	31.309	-
Subtotal			-	42.224		-		-		-		-	0.000	42.224	N/A

Support (\$ 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			
USAF (Multiple)	Various	Various : Various	-	1.037		-		-		-		-	0.000	1.037	-
USAF (JEON)	Various	Various : Various	-	-		-		-		-		-	0.000	0.000	-
Subtotal			-	1.037		-		-		-		-	0.000	1.037	N/A

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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

OFF	
OFF 11 Fields FY2023 Qtr 2	
CICS	
CICS Design Development	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207131F / A-10 Squadrons	Project (Number/Name) 674809 / A-10 Squadrons

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
OFP				
OFP 11 Fields FY2023 Qtr 2	1	2023	3	2023
CICS				
CICS Design Development	1	2023	2	2023