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

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 0804743F / <i>Other Flight Training</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	-	5.778	2.214	2.265	0.000	2.265	2.315	2.375	2.423	0.937	0.000	18.307
675304: <i>Aviation Resource Management System (ARMS)</i>	-	5.778	2.214	2.265	0.000	2.265	2.315	2.375	2.423	0.937	0.000	18.307
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Aviation Resource Management System (ARMS) is the authoritative data source for all aircrew and parachutist management (including flight and jump pay) covering 65,000 Aircrew/Parachutists and used by 2,800 1C0X2 Career Field members with 2.2M transactions per week. The ARMS is a web-based on-line management information system designed to support the base level Director of Operations (DO), aircrew supervisors, and managers. ARMS provides management policies and ensures the status of the Air Force flying programs are available to flying/jump supervisors to make resource allocation decisions. ARMS ensures accurate tracking of flying and ground training programs for each weapon system at each base. ARMS provides accurate and timely aircrew/parachutist information which assists in monitoring, tracking, and scheduling military training required to meet Air Force mission requirements. Additionally, the ARMS manages flying hours for aircrew parachutists world-wide to include USAF, Air Force Reserve Command (AFRC) and the Air National Guard (ANG).

The current ARMS functionality resides at a Defense Information System Agency (DISA) DECC and consists of "5" logical modules to include: Flight, Individual Training, Jumper Aircrew, Resource Tracking, Reports, and System. The sustainment of these capabilities and the introduction of new capabilities follows an agile development process, but the effectiveness of that process is severely limited by the existing production environment. A portion of the ARMS Jumper Aircrew module capabilities are being migrated to a mandated government-approved cloud environment. The cloud environment provides the Continuous Integration and Continuous Deployment (CI/CD) pipeline required to constantly deliver software in an agile framework, following the required DevSecOps methodology. The migration to the cloud environment and the DevSecOps methodology will transform ARMS into a scalable and flexible system capable of meeting all information requirements of the Aviation Resource Management community.

Once the initial cloud ARMS Jumper Aircrew capability is established, all remaining legacy program capabilities and new program requirements will be incorporated into the ARMS product backlog and prioritized for migration/stand-up in the cloud program instance. The ARMS DISA legacy program will sunset, once all capabilities are successfully migrated to the cloud environment.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Other Flight Training weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program elements 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY 2022 \$00.000 million was expended for civilian pay expenses in this program element, and in FY 2023 \$00.000 million is forecast for civilian pay expenses in this program element.

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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.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	5.999	2.214	2.260	0.000	2.260
Current President's Budget	5.778	2.214	2.265	0.000	2.265
Total Adjustments	-0.221	0.000	0.005	0.000	0.005
• 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	-0.221	0.000	0.005	0.000	0.005

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 675304: *Aviation Resource Management System (ARMS)*

Congressional Add: *Lifecycle Enhanced Asset Decision Software (LEADS)*

Congressional Add Subtotals for Project: 675304

Congressional Add Totals for all Projects

	FY 2022	FY 2023
Congressional Add Subtotals for Project: 675304	4.000	-
Congressional Add Totals for all Projects	4.000	-

C. Accomplishments/Planned Programs (\$ in Millions)

Title: Aviation Resource Management System (ARMS)

Description: Hardware/software development to update ARMS, adding functionality and system interfaces.

FY 2023 Plans:

Continue migrating legacy ARMS capabilities from DISA platform to Cloud One platform; deliver patches as needed to correct system deficiencies or apply required upgrades; and, continue updates to system design, configuration, test, and training.

FY 2024 Plans:

	FY 2022	FY 2023	FY 2024
Title: Aviation Resource Management System (ARMS)	1.778	2.214	2.265

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Continue migrating legacy ARMS capabilities from DISA platform to Cloud One platform; deliver patches as needed to correct system deficiencies or apply required upgrades; and, continue updates to system design, configuration, test, and training.			
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding increased due to economic adjustments.			
Accomplishments/Planned Programs Subtotals	1.778	2.214	2.265

	FY 2022	FY 2023
<i>Congressional Add:</i> Lifecycle Enhanced Asset Decision Software (LEADS)	4.000	-
<i>FY 2022 Accomplishments:</i> Contracting and Engineer efforts for LEADS support to facilitate T-38 to T-7 transition. Program will be managed by AETC/A9.		
Congressional Adds Subtotals	4.000	-

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

The ARMS utilizes Agile development methodologies to incrementally develop and field enhancements to the existing system. The ARMS PMO utilizes military programmers for code development/sustainment and government civilians providing program management, engineering, and information technology support. The ARMS PMO has partnered with the USAF Business Enterprise Systems (BES) Directorate's Business Enterprise Systems Programming INovation (BESPIN) office to acquire contractor resources that are experts at agile software development in a cloud environment. BESPIN has acquired current contractor support via Section 8a direct award using the United States Digital Services guide and templates on agile development which allowed for an agile acquisition.

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0804743F / Other Flight Training	Project (Number/Name) 675304 / Aviation Resource Management System (ARMS)
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Product Development (\$ in Millions)				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			
LEADS Development	SS/ Various	Various : San Antonio, TX	-	3.779	Oct 2022	-		-		-		-	Continuing	Continuing	-
ARMS BESPIN FEARLESS	SS/FFP	Fearless Solution LLC : Baltimore, MD	-	-		0.050	Oct 2022	0.060	Oct 2023	-		0.060	Continuing	Continuing	10.000
Subtotal			-	3.779		0.050		0.060		-		0.060	Continuing	Continuing	N/A

Remarks
ARMS INCREMENT I INCLUDES BUILDS I AND II. ARMS BUILD I AND II ARE NOW LISTED SEPARATELY.

Support (\$ in Millions)				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			
ARMS Architecture Contract Support	C/FFP	Copper River Information Technology, LLC : Anchorage, AK	-	-		0.030	Apr 2023	0.030	Apr 2024	-		0.030	Continuing	Continuing	-
ARMS C&A SUPPORT III	C/FFP	OASIS : Lexington, MA	-	0.845	Apr 2022	0.170	Apr 2023	0.175	Apr 2024	-		0.175	Continuing	Continuing	-
ARMS CONFIGURATION MANAGER	C/FFP	OASIS : Lexington, MA	-	0.180	Apr 2022	0.150	Apr 2023	0.155	Apr 2024	-		0.155	Continuing	Continuing	-
ARMS SYSTEM ADMIN III	C/FFP	OASIS : Lexington, MA	-	0.215	Apr 2022	0.220	Apr 2023	0.225	Apr 2024	-		0.225	Continuing	Continuing	-
ARMS CIE SUPPORT	C/FFP	OASIS : Lexington, MA	-	0.230	Apr 2022	0.235	Apr 2023	0.240	Apr 2024	-		0.240	Continuing	Continuing	-
ARMS INTEGRATION SUPPORT	C/FFP	OASIS : Lexington, MA	-	0.185	Apr 2022	0.190	Apr 2023	0.195	Apr 2024	-		0.195	Continuing	Continuing	-
ARMS Program Assessment	SS/FFP	TM Capture : Maxwell AFB-Gunter Annex, AL	-	-		-		-		-		-	Continuing	Continuing	0.325
Subtotal			-	1.655		0.995		1.020		-		1.020	Continuing	Continuing	N/A

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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
ARMS Test Support	C/FFP	GSA : Maxwell AFB-Gunter Annex, AL	-	0.074	Apr 2022	0.150	Apr 2023	0.155	Apr 2024	-		0.155	Continuing	Continuing	0.260	
ARMS TEST MANAGER	C/CPAF	OASIS : Lexington, MA	-	0.170	Apr 2022	0.175	Apr 2023	0.180	Apr 2024	-		0.180	Continuing	Continuing	-	
Subtotal			-	0.244		0.325		0.335		-		0.335	Continuing	Continuing	N/A	
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
ARMS PSC Other Govt Costs	C/TBD	TBD : TBD	-	0.100	Jan 2022	0.844	Jan 2023	0.850	Jan 2024	-		0.850	Continuing	Continuing	-	
Subtotal			-	0.100		0.844		0.850		-		0.850	Continuing	Continuing	N/A	
Project Cost Totals			-	5.778		2.214		2.265		-		2.265	Continuing	Continuing	N/A	
Remarks																

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
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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

ARMS EXHIBIT R-4	
Advisory and Assistance Services Contract	
ARMS Program Assessment	
ARMS Cloud Development/Migration	
Cloud Development - Jump module	
Field - Jump Module	
Cloud Development Resources module	
Field Resources module multiple releases	
Cloud Development Flight module	
Field Flight module multiple releases	
Cloud development Training module	
Field Training module multiple releases	

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ARMS EXHIBIT R-4				
Advisory and Assistance Services Contract	1	2022	4	2028
ARMS Program Assessment	1	2022	4	2028
ARMS Cloud Development/Migration	2	2022	4	2025
Cloud Development - Jump module	3	2022	4	2022
Field - Jump Module	3	2022	4	2022
Cloud Development Resources module	4	2023	4	2023
Field Resources module multiple releases	4	2023	4	2024
Cloud Development Flight module	1	2023	4	2024
Field Flight module multiple releases	2	2023	4	2024
Cloud development Training module	1	2024	4	2028
Field Training module multiple releases	2	2024	4	2025