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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force	Date: February 2018
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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>I Other Flight Training</i>
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COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	1.841	2.074	2.022	0.000	2.022	2.057	2.093	2.137	2.177	Continuing	Continuing
675304: <i>Aviation Resource Management System (ARMS)</i>	-	1.841	2.074	2.022	0.000	2.022	2.057	2.093	2.137	2.177	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Aviation Resource Management System (ARMS) is the authoritative data source for recording and managing aircrew training information, aircrew/parachutist management, flying hour tracking, flight pay management, and flying gate tracking for 57,000 Air Force members. The Air Force uses this information to enhance safety of-flight operations and to determine eligibility to perform aviation related events. ARMS interfaces with the Military Personnel Data System (MilPDS) and multiple operations and flight scheduling systems such as Patriot Excalibur (PEX), Graduate Training Integration Management System (GTIMS), Center Operations On-Line(COOL), Global Decision Support System (GDSS), and Automated Aircrew Management System (AAMS) and is used to determine whom to select for flying operations, assignment actions, and promotion of aircrew members.

New development work is required to provide additional flying operations information which will aid in better portraying Air Force readiness and to feed this data into Defense Readiness Reporting System Strategic (DRRS-S). These enhanced capabilities, to be developed incrementally, include the following: electronic flight record, flying hour management/execution, simulator and RPA management/utilization, full career logbook, training look-back, aircrew member man-month allocation, enhanced resource and jump module management, and additional interfaces.

Development activities started in FY16 for Increment I (Inc I), Build 1, Flight and Flying Hour module which continued in FY17 and is followed by development of Training Data and Simulator Utilization modules in FY18-19.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver ARMS capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

BA7 - 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	1.653	2.074	2.037	0.000	2.037
Current President's Budget	1.841	2.074	2.022	0.000	2.022
Total Adjustments	0.188	0.000	-0.015	0.000	-0.015
• 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	0.248	0.000			
• SBIR/STTR Transfer	-0.060	0.000			
• Other Adjustments	0.000	0.000	-0.015	0.000	-0.015
C. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Aviation Resource Management System (ARMS)	1.841	2.074	2.022	0.000	2.022
Description: Hardware/software development to update ARMS, adding functionality and system interfaces.					
FY 2018 Plans:					
- Finalize Testing for Inc I, Build I (Flight and Flying Hours Module)					
- Field Inc I, Build I (Flight and Flying Hours Module)					
- Begin Development Activities for Inc I, Build 2A (Training Data Module)					
- Finalize Interface Requirements for Inc I					
- Begin Early Development Activities for Inc I Build 2B (Simulator Utilization Module)					
FY 2019 Base Plans:					
- Finalize Development Activities/Testing for Inc I, Build 2A (Training Data Module)					
- Continue Development Activities for Inc I Build 2B (Simulator Utilization Module)					
FY 2019 OCO Plans:					
N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					
The funding request is steady across the FYDP.					
Accomplishments/Planned Programs Subtotals	1.841	2.074	2.022	0.000	2.022

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D. Other Program Funding Summary (\$ in Millions) N/A		
Remarks		
E. Acquisition Strategy ARMS will incrementally develop enhancements to the existing system. The acquisition will be accomplished organically or with Firm Fixed Price (FFP) contracts awarded under Section 8(a) as small business set aside.		
F. 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 2019 Air Force												Date: February 2018			
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)					
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 Increment 1, Build 1 and Build 2 contract	SS/FFP	581ST SMXS ROBINS AFB : Warner Robins, GA	-	-		-		-		-		-	Continuing	Continuing	3.400
ARMS BUILD I	SS/FFP	581ST SNXS ROBINS AFB : Warner Robins, GA	-	0.994	Jan 2018	-		-		-		-	Continuing	Continuing	-
ARMS BUILD II	SS/FFP	581ST SMXS ROBINS AFB : Warner Robins, GA	-	-		-		-		-		-	Continuing	Continuing	-
ARMS Increment 2 Development	SS/FFP	581ST SMXS ROBINS AFB : Warner Robins, GA	-	-		0.787	Mar 2019	0.810	Mar 2020	-		0.810	Continuing	Continuing	10.000
Subtotal			-	0.994		0.787		0.810		-		0.810	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 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 Architecture Contract Support	C/FFP	Copper River Information Technology, LLC : Anchorage, AK	-	0.163	Feb 2018	0.065	Aug 2018	0.065	Aug 2019	-		0.065	Continuing	Continuing	-
ARMS TECHNICAL & RISK SME	C/FFP	DDC IT SERVICES : Albuquerque, NM	-	0.181	Sep 2017	-		-		-		-	Continuing	Continuing	-
ARMS C&A SUPPORT III	C/FFP	OASIS : Lexington, MA	-	0.051	Apr 2018	0.154	Apr 2018	0.154	Apr 2019	-		0.154	Continuing	Continuing	-
ARMS CONFIGURATION MANAGER	C/FFP	OASIS : Lexington, MA	-	-		0.126	Apr 2018	0.126	Apr 2019	-		0.126	Continuing	Continuing	-
ARMS AGILE TOOLS	C/TBD	TBD : TBD	-	-		0.051	Apr 2018	-		-		-	Continuing	Continuing	-

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Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 SYSTEM ADMIN III	C/FFP	OASIS : Lexington, MA	-	0.078	Apr 2018	0.156	Apr 2018	0.156	Apr 2019	-		0.156	Continuing	Continuing	-
ARMS CIE SUPPORT	C/FFP	TBD : TBD	-	0.207	Mar 2018	0.207	Mar 2019	0.220	Mar 2020	-		0.220	Continuing	Continuing	-
ARMS CIE SUPPORT ADDENDUM	C/FFP	GSA : Atlanta, GA	-	0.104	Sep 2017	-		-		-		-	Continuing	Continuing	-
ARMS INTEGRATION SUPPORT	C/FFP	Not specified. : TBD	-	-		0.195	Apr 2019	0.158	Apr 2020	-		0.158	Continuing	Continuing	-
ARMS PLURALSIGHT	C/TBD	TBD : TBD	-	0.009	Mar 2018	-		-		-		-	Continuing	Continuing	-
ARMS Financial Improvement Audit Readiness Support	SS/FFP	TM Capture : Maxwell AFB-Gunter Annex, AL	-	-		0.065	Feb 2019	0.065	Feb 2020	-		0.065	Continuing	Continuing	0.325
Subtotal			-	0.793		1.019		0.944		-		0.944	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	-	0.054	Apr 2018	0.054	Apr 2019	0.054	Apr 2020	-		0.054	Continuing	Continuing	0.260
ARMS TEST MANAGER	C/CPAF	OASIS : Lexington, MA	-	-		0.154	Mar 2018	0.154	Mar 2019	-		0.154	Continuing	Continuing	-
Subtotal			-	0.054		0.208		0.208		-		0.208	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 PMA Other Govt Costs	C/TBD	TBD : TBD	-	-		0.060	Apr 2018	0.060	Apr 2019	-		0.060	Continuing	Continuing	-
Subtotal			-	-		0.060		0.060		-		0.060	Continuing	Continuing	N/A

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		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		-	1.841		2.074		2.022		-		2.022	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force

Date: February 2018

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)

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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 Financial Improvement Audit Readiness Contract																												
Increment I Build 1 Contract																												
Development - Increment I Build 1 Complete																												
Testing - Increment I Build 1																												
Development - Increment I Build 2 Start																												
Interface Requirement Activities - Increment II Start																												
Architecture Support																												
Release RFP ARMS 7.0 Increment II																												
Field - Increment I Build 1																												
Testing - Increment I Build 2																												
Interface Requirement Activities - Increment II Finish																												
ARMS 7.0 Increment II Build 1 Contract																												
Development - Increment II Build 1 Start																												
Field - Increment I Build 2																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0804743F / <i>Other Flight Training</i>	Project (Number/Name) 675304 / <i>Aviation Resource Management System (ARMS)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ARMS EXHIBIT R-4				
Advisory and Assistance Services Contract	1	2017	4	2023
ARMS Financial Improvement Audit Readiness Contract	1	2017	4	2023
Increment I Build 1 Contract	1	2017	1	2018
Development - Increment I Build 1 Complete	2	2018	2	2018
Testing - Increment I Build 1	2	2018	3	2018
Development - Increment I Build 2 Start	2	2018	2	2018
Interface Requirement Activities - Increment II Start	4	2022	4	2022
Architecture Support	4	2017	3	2018
Release RFP ARMS 7.0 Increment II	3	2019	3	2019
Field - Increment I Build 1	4	2018	4	2018
Testing - Increment I Build 2	2	2019	4	2019
Interface Requirement Activities - Increment II Finish	4	2023	4	2023
ARMS 7.0 Increment II Build 1 Contract	1	2020	3	2020
Development - Increment II Build 1 Start	1	2020	1	2020
Field - Increment I Build 2	1	2020	1	2020