

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

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>
--	--

COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.987	1.836	1.653	0.000	1.653	2.068	2.036	2.072	2.109	Continuing	Continuing
675304: <i>Aviation Resource Management System (ARMS)</i>	-	0.987	1.836	1.653	0.000	1.653	2.068	2.036	2.072	2.109	Continuing	Continuing

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 70,000 Air Force members. The Air Force uses this information to enhance safety-of-flight operations and to determine eligibility to perform aviation related events. 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, enhanced flying hour management/execution, simulator and remotely piloted aircraft (RPA) management/utilization, full career logbook, training look-back, aircrew member man-month allocation, enhanced resource and jump module management, and interface with DRRS-S. ARMS data will also be used to support Headquarters Air Force/Major Command (HAF/MAJCOM) level readiness decision reports/analytics. New development work in support of ARMS needs to be accomplished with RDT&E versus O&M funds.

This program is 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.

The FY2017 funding request was reduced by 0.387 Million to account for the availability of prior year execution balances.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	0.987	1.836	2.040	0.000	2.040
Current President's Budget	0.987	1.836	1.653	0.000	1.653
Total Adjustments	0.000	0.000	-0.387	0.000	-0.387
• 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	0.000	-0.387	0.000	-0.387

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation/Budget Activity
3600: *Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development*

R-1 Program Element (Number/Name)
PE 0804743F / *Other Flight Training*

Change Summary Explanation

The FY2017 funding request was reduced by 0.387 Million to account for the availability of prior year execution balances

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force										Date: February 2016		
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)			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
675304: Aviation Resource Management System (ARMS)	-	0.987	1.836	1.653	0.000	1.653	2.068	2.036	2.072	2.109	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 70,000 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, enhanced 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 interface with DRRS-S. Additional development work on the existing ARMS, such as database flattening and Business Process Reengineering (BPR) actions, is required prior to incorporating these enhanced capabilities.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Aviation Resource Management System (ARMS)	0.987	1.836	1.653	0.000	1.653
Description: Hardware/software development to update ARMS, adding functionality and system interfaces.					
FY 2015 Accomplishments:					
- Continued hardware/software development efforts in support of ARMS.					
- Completed milestone documentation for MDD scheduled 1st Qtr FY15.					
FY 2016 Plans:					
- Continue hardware/software development efforts in support of ARMS.					
- Release RFP for ARMS 7.0 Development contract					
- Award ARMS 7.0 Design Contract					
- Financial Improvement Audit Compliance Contract.					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force		Date: February 2016
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>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
- Begin Development of Increment 1 Build 1 (Flying Hours and Flight).					
<i>FY 2017 Base Plans:</i>					
- Continue hardware/software development efforts in support of ARMS					
- Complete Development of Increment 1 Build 1 (Flying Hours and Crew Training).					
- Begin Development Increment 1 Build 2 (Simulator Utilization and Training)					
<i>FY 2017 OCO Plans:</i>					
N/A					
Accomplishments/Planned Programs Subtotals	0.987	1.836	1.653	0.000	1.653

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• O&M: BA03: PE 0804743F: <i>Other Flight Training</i>	1.057	1.388	1.260	0.000	1.260	1.376	1.401	2.280	2.322	Continuing	Continuing

Remarks

D. Acquisition Strategy
ARMS will incrementally develop enhancements to the existing system. The acquisition will be accomplished with Firm Fixed Price (FFP) contracts awarded under Section 8(a) as small business set aside.

E. 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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force **Date:** February 2016

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 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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 Requirements and Document Development	C/FFP	AFLCMC/HIB : Maxwell AFB-Gunter Annex, AL	-	0.920	Jan 2015	0.000		0.000		0.000		0.000	0.000	0.920	0.920
ARMS Financial Improvement Audit Readiness (FIAR) contract	SS/FFP	AFLCMC/HIB : Maxwell AFB-Gunter Annex, AL	-	0.000		1.200	Feb 2016	0.000		0.000		0.000	0.000	1.200	1.200
ARMS Increment 1, Build 1 and Build 2 contract	SS/FFP	Enterprise Solution Architects : Maxwell AFB-Gunter Annex	-	0.000		0.636	Mar 2016	1.490	Mar 2017	0.000		1.490	Continuing	Continuing	3.400
Subtotal			-	0.920		1.836		1.490		0.000		1.490	-	-	5.520

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
Subtotal			-	-		-		-		-		-	-	-	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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 A&AS Support	C/CPAF	AFLCMC/HIB : Maxwell AFB, AL	-	0.067	Jan 2015	0.000		0.163	Jan 2017	0.000		0.163	Continuing	Continuing	-
Subtotal			-	0.067		0.000		0.163		0.000		0.163	-	-	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force								Date: February 2016			
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>			
	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	-	0.987	1.836	1.653	0.000	1.653	-	-	-		

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force		Date: February 2016
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>

	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
New Functional Requirements	████████																											
Acquisition/Clinger Cohen Act Docs	████████																											
System Software Requirements	████████																											
Architectural Documents (Certification and Accreditation)	████████████████																											
Advisory and Assistance Services Contract	████████████████																											
MDD					████																							
RFP					████																							
MS B					████																							
ARMS Financial Improvement Audit Readiness contract					████████████████																							
ARMS 7.0 Increment 1 Build 1 Contract					████████████████																							
ARMS 7.0 Increment 1 Build 2 Contract									████████████████																			
ARMS 7.0 Increment 2 Build 1 Contract													████████████████															
ARMS 7.0 Increment 2 Build 2 Contract																	████████████████											
ARMS 7.0 Increment 2 Build 3 Contract																					████████████████							

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force		Date: February 2016
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	Start		End	
	Quarter	Year	Quarter	Year
New Functional Requirements	1	2015	3	2015
Acquisition/Clinger Cohen Act Docs	1	2015	3	2015
System Software Requirements	1	2015	3	2015
Architectural Documents (Certification and Accreditation)	1	2015	1	2016
Advisory and Assistance Services Contract	1	2015	1	2016
MDD	1	2016	1	2016
RFP	2	2016	2	2016
MS B	2	2016	2	2016
ARMS Financial Improvement Audit Readiness contract	2	2016	2	2017
ARMS 7.0 Increment 1 Build 1 Contract	2	2016	2	2017
ARMS 7.0 Increment 1 Build 2 Contract	2	2017	2	2018
ARMS 7.0 Increment 2 Build 1 Contract	2	2018	2	2019
ARMS 7.0 Increment 2 Build 2 Contract	2	2019	2	2020
ARMS 7.0 Increment 2 Build 3 Contract	2	2020	2	2021