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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0804743F I Other Flight Training							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	1.770	1.653	2.074	0.000	2.074	2.037	2.073	2.109	2.153	Continuing	Continuing
675304: Aviation Resource Management System (ARMS)	-	1.770	1.653	2.074	0.000	2.074	2.037	2.073	2.109	2.153	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 60,000 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 modules which continued in FY17 and is followed by development of Simulator Utilization Data and Training modules in FY18.

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	1.836	1.653	2.068	0.000	2.068
Current President's Budget	1.770	1.653	2.074	0.000	2.074
Total Adjustments	-0.066	0.000	0.006	0.000	0.006
• 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	-0.066	0.000			
• Other Adjustments	0.000	0.000	0.006	0.000	0.006
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018		
Title: Aviation Resource Management System (ARMS)	1.770	1.653	2.074		
Description: Hardware/software development to update ARMS, adding functionality and system interfaces.					
FY 2016 Accomplishments:					
- Awarded Advisory and Assistance Services Contract					
- MDD Approval Received - Nov-2015					
- Released RFP for ARMS 7.0 Development Contract					
- MS B Approval Received – 7-Jun-2016					
- Financial Improvement & Audit Readiness (FIAR) Contract Awarded					
- Awarded ARMS 7.0 Development Contract, Began Development of Inc I Build 1 (Flight and Flying Hours)					
FY 2017 Plans:					
- Complete Development of Inc I Build 1 (Flight and Flying Hours)					
- Begin Testing & Fielding Preparations for Inc I Build 1 (Flight and Flying Hours)					
- Begin Development Inc I Build 2 (Training & Simulator Utilization)					
- Start Interface Requirements Activities					
- Solidify FIAR Requirements					
- Release Draft/Final RFP(s) for ARMS 7.0 Development Contract Inc II					
FY 2018 Plans:					
- Field Inc I, Build 1 (Flight and Flying Hours)					
- Begin Testing and Fielding Preparations for Inc I, Build 2 (Training & Simulator Utilization)					

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2016	FY 2017	FY 2018
<ul style="list-style-type: none"> - Finalize Interface Requirements - Award ARMS 7.0 Development Contract, Began Development of Inc II Build 1 - Begin Early Development Activities for Inc II Build 1 - Field Inc I, Build 2 (Training & Simulator Utilization) 												
Accomplishments/Planned Programs Subtotals										1.770	1.653	2.074
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
• O&M: BA03: PE 0804743F: <i>Other Flight Training</i>	1.303	2.115	2.220	0.000	2.220	2.240	2.282	2.324	2.372	Continuing	Continuing	
Remarks												
E. 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.												
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.												