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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	1.347	0.987	1.836	-	1.836	2.040	2.078	2.046	2.082	Continuing	Continuing
675303: ADSS Development	-	0.347	-	-	-	-	-	-	-	-	-	0.347
675304: Aviation Resource Management System (ARMS)	-	1.000	0.987	1.836	-	1.836	2.040	2.078	2.046	2.082	Continuing	Continuing

Note
In FY2014, Project Number 675303, Air Education and Training Command (AETC) Decision Support System (ADSS) Development, was completed.

A. Mission Description and Budget Item Justification
Program supports the Air Education and Training command (AETC) Decision Support System (ADSS) which is an automated information system that provides AETC leadership and staff with key management information about training production status, including monitoring and assessment of training. The data and reports from ADSS provide the vital feedback mechanism essential to an effective programming and management process. The hardware and software components of ADSS interact and communicate via the DOD standard communications infrastructure. The system uses DOD information transfer assets that provide seamless communications within and across systems and media. Full Operational Capability (FOC) occurred in FY2014.

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, support 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 FY2016 funding request was reduced by \$0.129 million to account for the availability of prior execution balances.

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		PE 0804743F I Other Flight Training			
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	1.347	0.987	1.978	-	1.978
Current President's Budget	1.347	0.987	1.836	-	1.836
Total Adjustments	-	-	-0.142	-	-0.142
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.142	-	-0.142

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0804743F / <i>Other Flight Training</i>				Project (Number/Name) 675303 / <i>ADSS Development</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
675303: <i>ADSS Development</i>	-	0.347	-	-	-	-	-	-	-	-	-	0.347
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
In FY2014, Project 675303, Air Education and Training Command (AETC) Decision Support System (ADSS) Development, was completed.

A. Mission Description and Budget Item Justification
Program supports the Air Education and Training Command (AETC) Decision Support System (ADSS) which is an automated information system that provides AETC leadership and staff with key management information about training production status, including monitoring and assessment of training. The data and reports from ADSS provide the vital feedback mechanism essential to an effective programming and management process. The hardware and software components of ADSS interact and communicate via the DOD standard communications infrastructure. The system uses DOD information transfer assets that provide seamless communications within and across systems and media. Tasks to be performed are the development of the ADSS Enterprise Information Integration (ADSS-EII) and Training Pipeline Continuum (TPC) modernization modules. Full Operational Capability (FOC) occurred FY2014.

<u>B. Accomplishments/Planned Programs (\$ in Millions)</u>	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
<i>Title:</i> ADSS	0.347	-	-	-	-
<i>Description:</i> Development of AETC Decision Support System (ADSS)					
<i>FY 2014 Accomplishments:</i> Complete development of AETC Decision Support System (ADSS)					
<i>FY 2015 Plans:</i> N/A					
N/A					
Accomplishments/Planned Programs Subtotals	0.347	-	-	-	-

C. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

D. Acquisition Strategy
Contract was recompeted and awarded in the first quarter of FY2012 as a Section 8(a) small business set aside.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force		Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0804743F / Other Flight Training	Project (Number/Name) 675303 / ADSS Development

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force													Date: February 2015		
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0804743F / Other Flight Training				Project (Number/Name) 675303 / ADSS Development					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Development Efforts for AETC ADSS	C/FFP	Decypher Technologies : San Antonio, TX	-	0.347	Dec 2013	-		-		-		-	-	0.347	1.042
Subtotal			-	0.347		-		-		-		-	-	0.347	1.042
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
			Prior Years	FY 2014	FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	0.347	-		-		-		-	-	0.347	1.042	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force	Date: February 2015
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0804743F / <i>Other Flight Training</i>	Project (Number/Name) 675303 / <i>ADSS Development</i>
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
Development of AETC Decision Support System																												
FY14 Option Exercise																												
FY15 Option Exercise																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0804743F / <i>Other Flight Training</i>	Project (Number/Name) 675303 / <i>ADSS Development</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development of AETC Decision Support System	1	2014	4	2015
FY14 Option Exercise	1	2014	1	2014
FY15 Option Exercise	1	2015	1	2015

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
675304: Aviation Resource Management System (ARMS)	-	1.000	0.987	1.836	-	1.836	2.040	2.078	2.046	2.082	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, support 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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: ARMS	1.000	0.987	1.836	-	1.836
Description: Hardware/Software development efforts in support of Aviation Resource Management System (ARMS).					
FY 2014 Accomplishments: - Initiated hardware/Software development efforts in support of Aviation Resource Management System (ARMS). - Initiated full requirements definition to include user cases, system architecture documents, and current system requirements reverse engineering.					
FY 2015 Plans: - Continue hardware/Software development efforts in support of Aviation Resource Management System (ARMS).					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force				Date: February 2015	
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
- Completed milestone documentation for MDD scheduled late FY15. <i>FY 2016 Base Plans:</i> - Continue hardware/Software development efforts in support of Aviation Resource Management System (ARMS). - Release RFP for ARMS 7.0 Development contract Increment 1 (Flying Hours and Crew Training). <i>FY 2016 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	1.000	0.987	1.836	-	1.836

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• O&M: BA03: PE 0804743F: <i>Other Flight Training</i>	1.281	1.195	1.195	-	1.195	1.260	1.376	1.401	-	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
ARMS will incrementally develop enhancements to the existing system. The acquisition will be a Firm Fixed Price (FFP) contract line item on a competitively awarded contract utilizing Full and Open Competition (FAR Part 15).											
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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force													Date: February 2015		
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Development Efforts for ARMS	C/FFP	AFLCMC/HIB : Maxwell AFB-Gunter Annex, AL	-	1.000	Jan 2014	0.987	Jan 2015	1.836	Jan 2016	-		1.836	Continuing	Continuing	-
Subtotal			-	1.000		0.987		1.836		-		1.836	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			-	-		-		-		-		-	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	1.000		0.987		1.836		-		1.836	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force			Date: February 2015		
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 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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																												
Development Contract Award																												
Development Contract Option 1																												
Development Contract Option 2																												
New Systems Design/Development																												
Development Contract Option 3																												
Development Contract Option 4																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
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	2	2014	3	2015
Acquisition/Clinger Cohen Act Docs	2	2014	3	2015
System Software Requirements	2	2014	3	2015
Architectural Documents (Certification and Accreditation)	1	2015	1	2016
Advisory and Assistance Services Contract	1	2015	1	2016
MDD	4	2015	4	2015
RFP	1	2016	1	2016
MS B	1	2016	2	2016
Development Contract Award	1	2016	2	2016
Development Contract Option 1	1	2016	2	2017
Development Contract Option 2	2	2017	2	2018
New Systems Design/Development	2	2016	4	2020
Development Contract Option 3	2	2018	2	2019
Development Contract Option 4	2	2019	2	2020