Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force											DATE: April 2013	

APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*					R-1 ITEM NOMENCLATURE PE 0708012F: *Logistics Support Activities*							

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	0.944	0.577	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
673318: *Product Data Systems Modernization (PDSM)*	-	0.944	0.577	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

\# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

\#\# The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The Aircraft Structural Integrity Management Information System (ASIMIS) and ASIP operate as directed by AFPD 63-10 and MIL-STD-1530C. ASIMIS responsibilities include: Receiving, storing and reporting recorder downloads from all aircraft. Track and report quality control data for flight data recorders (Structural Data Recorder, Crash Survivable Flight Data Recorder, etc…), monitor usage, severity and any accumulated damage by plane and base, analyze the data, calculate crack growth in key locations in the airframe structure, project crack growth in order to provide a basis for maintenance scheduling, maintain a complete flight hour and calendar date history of each aircraft.

This project supports the implementation of the software package Air Force Grow (AFGROW) in the ASIMIS suite of tools to support the Aircraft Structural Integrity Program (ASIP) community. AFGROW is a crack prediction software package owned and operated by LexTech Inc. Originally developed under the name ASDGRO in 1985, AFGROW was owned and operated by the United States Air Force through version 4.0012.15. AFGROW will be used by Air Force structural engineers to predict the life expectancy of a/c components for a variety of weapon systems under cyclic loading under the assumption that defects exist. AFGROW is also used to address maintenance requirements if/when damage is identified within a component. Funding will be used to provide software licenses and training ASIP managers and weapon system engineers. Funding will also be used to provide for the research and development of software upgrades to suit ASIP manager needs.

This project supports the implementation of the software package Probability of Failure (PROF) in the ASIMIS suite of tools to support the Aircraft Structural Integrity Program (ASIP) community. PROF is a risk analysis software package owned and distributed by the United States Air Force. PROF is used by Air Force structural engineers to predict the probability of failure of a weapon system under specified usages. PROF provides for the ability to set inspection/maintenance schedules before failure occurs, without creating excess/unnecessary inspections that would impair mission readiness.

ETIMS Program baseline transferred from PE 78611F BPAC 673318 to PE 78012F BPAC 673318 beginning in FY13 -- Air Force Technical Order functionality implementation of the Enhanced Technical Information System (ETIMS) Enterprise. Provides for modify the ETIMS system to support Nuclear Weapons Related Material (NWRM) technical data requirements.

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.

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2014 Air Force				**DATE:** April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*			**R-1 ITEM NOMENCLATURE** PE 0708012F: *Logistics Support Activities*		

B. Program Change Summary ($ in Millions)	**FY 2012**	**FY 2013**	**FY 2014 Base**	**FY 2014 OCO**	**FY 2014 Total**
Previous President's Budget	0.944	0.577	0.581	-	0.581
Current President's Budget	0.944	0.577	0.000	-	0.000
Total Adjustments	0.000	0.000	-0.581	-	-0.581
• Congressional General Reductions	-	0.000			
• Congressional Directed Reductions	-	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	-	0.000			
• Congressional Directed Transfers	-	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.581	-	-0.581

Change Summary Explanation

BPAC 673318 funding for FY14 and out was moved to PE 0708611F.

C. Accomplishments/Planned Programs ($ in Millions)	**FY 2012**	**FY 2013**	**FY 2014**
Title: ASIMIS Modernization *Description:* Mainframe Modernization *FY 2012 Accomplishments:* - Mainframe to Server Migration - Web Modernization - Miscellaneous Enhancements *FY 2013 Plans:* - Web Modernization - Miscellaneous Enhancements	0.544	0.100	0.000
Title: AFGROW *Description:* AFGROW *FY 2012 Accomplishments:* - Purchase Software Licensing for 4 Sites - Provide Funding for Training for 4 Sites	0.200	0.100	0.000

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708012F: *Logistics Support Activities*

C. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
- Continue Software Updating ***FY 2013 Plans:*** - Purchase Software Licensing for 4 Sites - Provide Funding for Training for 4 Sites - Continue Software Updating			
Title: PROF ***Description:*** PROF ***FY 2012 Accomplishments:*** - Continue Software Updating ***FY 2013 Plans:*** - Continue Software Updating	0.200	0.100	0.000
Title: ETIMS Enhancements ***Description:*** ETIMS Modernization ***FY 2012 Accomplishments:*** . ***FY 2013 Plans:*** Continue ETIMS enhancements and incorporate technical Data activities and technical integration. Incorporate management and support of AF technical data activities. N/A	0.000	0.277	0.000
Accomplishments/Planned Programs Subtotals	0.944	0.577	0.000

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force	DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708012F: *Logistics Support Activities*

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• ASIMIS , Operations and Maintenance: *N/A*	0.265	0.117	0.123		0.123	0.260	0.152	0.000	0.000	Continuing	Continuing
• ETIMS Sustainment: *ETIMS, 3400, 78012F*	5.507	5.206	4.647		4.647	4.477	4.234	4.315	0.000	Continuing	Continuing

Remarks

E. Acquisition Strategy

ASIMIS will migrate the mainframe code to a new, modern, more manageable, and maintainable language. The acquisition will be a Cost Plus-Fixed Fee (CPFF) contract line item on a competitively awarded contract utilizing Full and Open Competition.

ETIMS will incrementally develop enhancements to the existing project to ensure a user friendly, technically accurate, and current digital TO management solution at the point of use. The acquisition will be a Cost Plus Fixed Fee (CPFF) contract line item on a competitively awarded contract utililzing Full and Open Competition (FAR part 15).

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force													DATE: April 2013	

APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0708012F: Logistics Support Activities	PROJECT 673318: Product Data Systems Modernization (PDSM)

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PDSM	SS/FFP	TBD:Tinker AFB, OK	-	0.944	Dec 2012	0.577	Dec 2013	0.000		-		0.000	Continuing	Continuing	
		Subtotal	0.000	0.944		0.577		0.000		0.000		0.000			

Remarks
 ASIMIS - Re-Host Analysis Effort - Re-host analysis of output data in new database environment
 ASIMIS - Mainframe Migration - Replicate mainframe functionality in mnew environment (PC) and language
 ASIMIS - Web Accessibility - web-accessible data mining and viewing

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.944	0.577	0.000	0.000	0.000			

Remarks

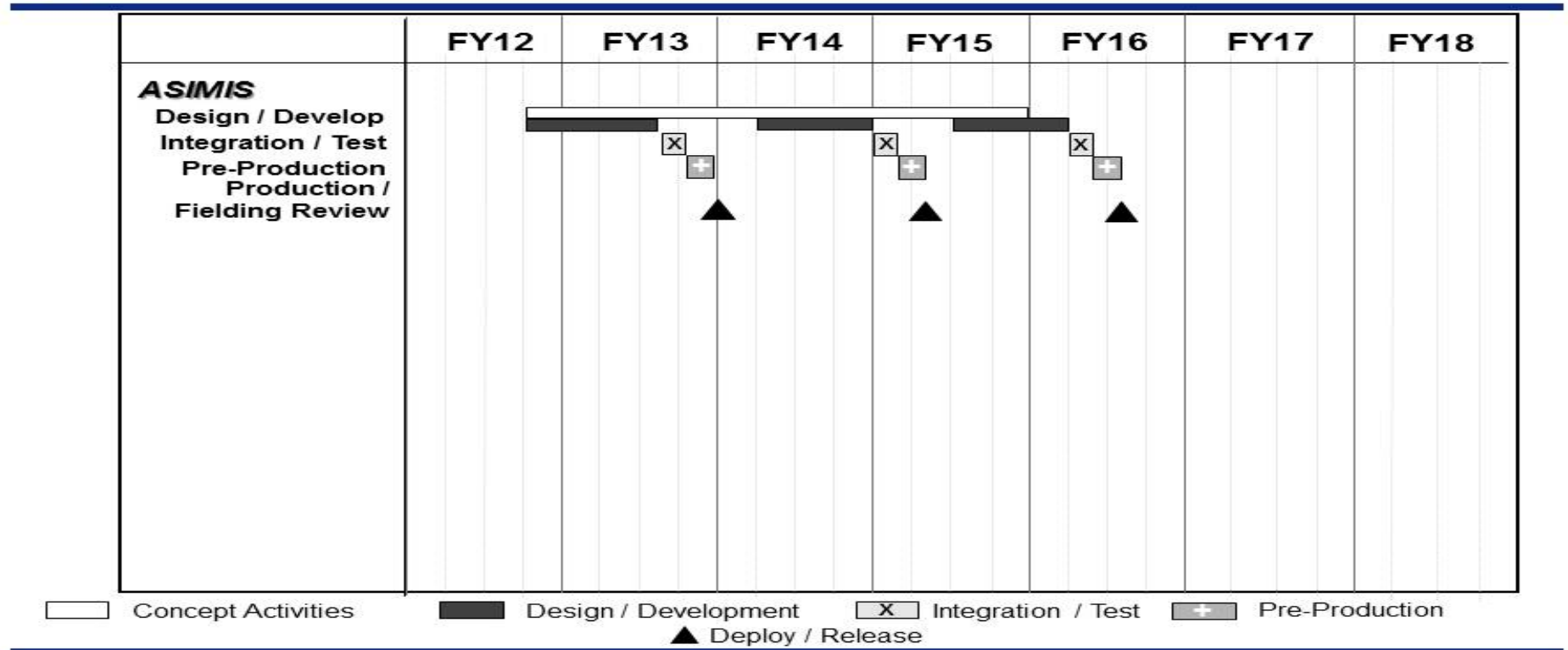| **Exhibit R-4**, **RDT&E Schedule Profile:** PB 2014 Air Force		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0708012F: *Logistics Support Activities*	**PROJECT** 673318: *Product Data Systems Modernization (PDSM)*

Product Data Systems Modernization (PDSM) Schedule —ASIMIS PE 78012F

	FY12	FY13	FY14	FY15	FY16	FY17	FY18

ASIMIS
Design / Develop
Integration / Test
Pre-Production
Production /
Fielding Review

Legend:
☐ Concept Activities ▮ Design / Development ☒ Integration / Test ⊞ Pre-Production
▲ Deploy / Release

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0708012F: *Logistics Support Activities*	PROJECT 673318: *Product Data Systems Modernization (PDSM)*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ASIMIS Design and Development	4	2012	1	2016
ASIMIS Integration and Test	3	2013	2	2016
ASIMIS Pre-Production	4	2013	3	2016
ASIMIS Production and Fielding	4	2013	3	2016