

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0708012F I Logistics Support Activities							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	0.451	-	-	-	-	-	-	-	-	Continuing	Continuing
673318: Product Data Systems Modernization (PDSM)	-	0.451	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

In FY14, the Enhanced Technical Information Management System (ETIMS) Program efforts were transferred from PE 0708012F, Logistics Support Activities, to PE 0708611F, Support Systems Development, BPAC 673318 Product Data Systems Modernization to modify the ETIMS system to support Nuclear Weapons Related Material (NWRM) technical data requirements.

A. Mission Description and Budget Item Justification

The Aircraft Structural Integrity Management Information System (ASIMIS) and Aircraft Structural Integrity Program (ASIP) operate as directed by Air Force Policy Directive (AFPD) 63-10 and MIL-STD-1530C. ASIMIS responsibilities include receiving, storing and reporting recorder downloads from all aircraft; tracking and reporting quality control data for flight data recorders (Structural Data Recorder, Crash Survivable Flight Data Recorder, etc; monitoring usage, severity and any accumulated damage by plane and base, analyzing the data, calculating crack growth in key locations in the airframe structure, projecting crack growth in order to provide a basis for maintenance scheduling, and maintaining 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 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 aircraft 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.

The Enhanced Technical Information Management System (ETIMS) Program efforts modify the ETIMS system to support Nuclear Weapons Related Material (NWRM) technical data requirements.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force				Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		R-1 Program Element (Number/Name) PE 0708012F I Logistics Support Activities				
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.						
B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget		0.577	-	-	-	-
Current President's Budget		0.451	-	-	-	-
Total Adjustments		-0.126	-	-	-	-
• Congressional General Reductions		-0.001	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Other Adjustments		-0.125	-	-	-	-
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2013	FY 2014	FY 2015
Title: Aircraft Structural Integrity Management Information System (ASIMIS) Modernization				0.100	-	-
Description: Mainframe Modernization						
FY 2013 Accomplishments: Web modernization and miscellaneous enhancements						
Title: Air Force Growth (AFGROW)				0.100	-	-
Description: AFGROW is a crack prediction software package used by Air Force structural engineers to predict the life expectancy of aircraft components.						
FY 2013 Accomplishments: Purchase software licensing for four sites, provide funding for training for four sites and continue software updates.						
Title: Probability of Failure (PROF)				0.100	-	-
Description: PROF is a risk analysis software package to predict the probability of failure of a weapon system under specified usages.						
FY 2013 Accomplishments:						

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force		Date: March 2014		
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 0708012F / <i>Logistics Support Activities</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Continue Software Updating				
Title: Enhanced Technical Information Management Systems (ETIMS) Enhancements Description: ETIMS Modernization modifies the system to support Nuclear Weapons Related Material technical data requirements. FY 2013 Accomplishments: Continue ETIMS enhancements and incorporate technical data activities and technical integration. Incorporate management and support of AF technical data activities.		0.151	-	-
Accomplishments/Planned Programs Subtotals		0.451	-	-
D. Other Program Funding Summary (\$ in Millions) N/A				
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 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 utilizing Full and Open Competition.				
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.				