PE NUMBER: 0605011F
PE TITLE: RDT&E For Aging Aircraft

Exhibit R-2, RDT&E Budget Item Justification

DATE: May 2009

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0605011F RDT&E For Aging Aircraft

	Cost ($ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	26.973	13.791	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4685	Aging Aircraft	26.973	13.791	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5278	Assured Fuels - Aging A/C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(U) A. Mission Description and Budget Item Justification

Prior to FY 2010, this program developed cross-cutting technologies to extend the service life, ensure flight safety, control rapidly rising sustainment costs, and retain the operational capability of the aging aircraft fleet. In FY 2010, this effort will be terminated due to higher Air Force priorities.

The RDT&E for Aging Aircraft program is in Budget Activity 5, System Demonstration and Development, since projects/capabilities will be developed in this program and then made available for procurement by operational systems.

(U) B. Program Change Summary ($ in Millions)

		FY 2008	FY 2009	FY 2010
(U)	Previous President's Budget	20.491	13.828	20.169
(U)	Current PBR/President's Budget	26.973	13.791	0.000
(U)	Total Adjustments	6.482	-0.037	
(U)	Congressional Program Reductions			
	Congressional Rescissions		-0.037	
	Congressional Increases		3.200	
	Reprogrammings	7.000	-3.200	
	SBIR/STTR Transfer	-0.518		

(U) Significant Program Changes:

In FY 2010, this program will be terminated due to higher Air Force priorities.

Exhibit R-2a, RDT&E Project Justification			DATE: May 2009
BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE: 0605011F RDT&E For Aging Aircraft	PROJECT NUMBER AND TITLE: 4685 Aging Aircraft	

Cost ($ in Millions)		FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4685	Aging Aircraft	26.973	13.791	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Prior to FY 2010, the program identified cross-cutting technologies that reduce total ownership costs and improve reliability, availability, and maintainability. Based on these technologies, the program developed and delivered solutions (to include prototype hardware and software) to address aging aircraft needs. The program also analyzed and recommended changes to existing sustainment processes such as field and depot repair processes. Additionally, the program developed and delivered tools to facilitate system/subsystem management, including the sharing of aging aircraft information and knowledge among the Air Logistics Centers, Product Centers, acquisition organizations, other Services and government agencies, and industry, as well as providing senior decision makers with a common, comprehensive understanding of program areas such as corrosion, fatigue, wiring, subsystems, etc.

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2008	FY 2009	FY 2010
(U) MAJOR THRUST: Transitions cross-cutting technologies for aircraft structures to weapon systems, field and depot maintainers, and Air Logistics Center engineers and managers to ensure continued air worthiness, control sustainment cost growth, and improve aircraft availability.	0.988	1.100	0.000
(U) In FY 2008: Continued to identify common requirements, develop transition strategies, and assist with planning of implementation strategies for delivery of cross-cutting structural maintenance and fleet management solutions to weapon system managers and maintainers. Focused on ensuring aircraft safety, increasing aircraft readiness and mission capability, and supporting the extension of aircraft service life with decreased operations and support cost.			
(U) In FY 2009: Continue to identify common requirements, develop transition strategies, and assist with planning of implementation strategies for delivery of cross-cutting structural maintenance and fleet management solutions to weapon system managers and maintainers. Focus on ensuring aircraft safety, increasing aircraft readiness and mission capability, and supporting the extension of aircraft service life with decreased operations and support cost. Investigate the use of legacy aircraft airframes for next-generation weapon systems such as directed energy weapons.			
(U) In FY 2010: Not Applicable.			
(U)			
(U) MAJOR THRUST: Establishes enabling avionics capabilities that can be affordably inserted into the legacy force structure, facilitating a force multiplier combat capability across diverse platforms. Institutionalize Viable Combat Avionics (VCA), the use of affordable tools and techniques, including change management road maps, to manage avionics upgrades while keeping pace with technology and prevailing threat conditions in a dynamic environment. Tools range from a Best Value Methodology for evaluation of competitive source selections to a web-based Integrated Change Roadmap process that enables acquisition organizations to baseline the fielded platforms and merge the upgrades into the program's life cycle planning. Planned investments will establish enabling cross-cutting	21.421	11.591	0.000

Exhibit R-2a, RDT&E Project Justification		DATE May 2009
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0605011F RDT&E For Aging Aircraft	PROJECT NUMBER AND TITLE 4685 Aging Aircraft

(U) B. Accomplishments/Planned Program ($ in Millions)	FY 2008	FY 2009	FY 2010
solutions that can facilitate the affordable insertion of mission enabling capabilities into fielded systems, extending their useful operational life and ensuring their combat superiority.			
(U) In FY 2008: Continued to establish enabling avionics capabilities that can be affordably inserted into the legacy force structure, facilitating a force multiplier combat capability across diverse platforms. Continued validation of MIL-STD 1553B Notice 5. Provided additional 1553 data bus capabilities, functionality, and enhanced performance and incorporated them into updates/revisions of MIL-STD 1553. Maintained the VCA tool sets, enabling the VCA program to continue to advance towards establishing a strategic capabilities investment process. Emphasis will be placed on identifying opportunities to accelerate capability deployment to the warfighter. Planned efforts will link functional technologies and common requirements, establishing integrated investment strategies focused on facilitating reduced cycle-time and expanded mission capability for the same total resources expenditure. Provided development upgrade functions for all Universal Armament Interface (UAI) products to include document revisions and distribution for configuration management using the secure web site application. Provided UAI support to 22 platform and stores program offices during implementation. Provided for the development of air-to-air weapons, training and targeting pods, and sensors to the UAI interface. Furthered the development modification of existing conventional Triple Ejection Rack (TER) to allow delivery of both conventional and smart weapons, and integrate the Smart TER onto fighter platforms.			
(U) In FY 2009: Continue to establish enabling avionics capabilities that can be affordably inserted into the legacy force structure, facilitating a force multiplier combat capability across diverse platforms. Maintain the VCA tool sets, enabling the VCA program to continue to advance towards establishing a strategic capabilities investment process. Emphasis will be placed on identifying opportunities to accelerate capability deployment to the warfighter. Planned efforts will link functional technologies and common requirements, establishing integrated investment strategies focused on facilitating reduced cycle-time and expanded mission capability for the same total resources expenditure. Provide development upgrade functions for all Universal Armament Interface (UAI) products to include document revisions and distribution for configuration management using the secure web site application. Provide UAI support to 22 platform and stores program offices during implementation. Provide for the development of air-to-air weapons, training and targeting pods, and sensors to the UAI interface. Investigate the use of legacy aircraft avionics for next-generation weapon systems such as directed energy weapons.			
(U) In FY 2010: Not Applicable.			
(U)			
(U) MAJOR THRUST: Extends service life, controls rapidly rising sustainment costs, and retains operational capability of the aging aircraft fleet through aircraft subsystems improvement. Cross-cutting opportunities which will reduce total ownership costs are identified using business case analyses.	0.988	1.100	0.000

Exhibit R-2a, RDT&E Project Justification		DATE: May 2009
BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE: 0605011F RDT&E For Aging Aircraft	PROJECT NUMBER AND TITLE: 4685 Aging Aircraft

(U) B. Accomplishments/Planned Program ($ in Millions)

	FY 2008	FY 2009	FY 2010
(U) In FY 2008: Continued to extend service life, control rapidly rising sustainment costs, and retain operational capability of the aging aircraft fleet through aircraft subsystems improvement.			
(U) In FY 2009: Continue to extend service life, control rapidly rising sustainment costs, and retain operational capability of the aging aircraft fleet through aircraft subsystems improvement. Investigate the use of legacy aircraft subsystems for next-generation weapon systems such as directed energy weapons.			
(U) In FY 2010: Not Applicable.			
(U)			
(U) CONGRESSIONAL ADD: Aging Landing Gear Life Extension.	1.987	0.000	0.000
(U) In FY 2008: Conducted Congressionally-directed effort for Aging Landing Gear Life Extension (ALGLE).			
(U) In FY 2009: Not Applicable.			
(U) In FY 2010: Not Applicable.			
(U)			
(U) CONGRESSIONAL ADD: Enhanced Smart Triple Ejector Rack.	1.589	0.000	0.000
(U) In FY 2008: Conduct Congressionally-directed effort for Enhanced Smart Triple Ejector Rack.			
(U) In FY 2009: Not Applicable.			
(U) In FY 2010: Not Applicable.			
(U)			
(U) Total Cost	26.973	13.791	0.000

(U) C. Other Program Funding Summary ($ in Millions)

	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total Cost
(U) Related Activities:										

(U) D. Acquisition Strategy

Not Applicable.

Exhibit R-3, RDT&E Project Cost Analysis

DATE: May 2009

BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE: 0605011F RDT&E For Aging Aircraft

PROJECT NUMBER AND TITLE: 4685 Aging Aircraft

(U) Cost Categories (Tailor to WBS, or System/Item Requirements) ($ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
S&K Technologies, Inc.	IDIQ										0.000	
Edgewater	IDIQ			10.000							10.000	
Anteon	Cost Plus										0.000	
Raytheon/Northrop	CPFF			5.021							5.021	
Grumman/Boeing/Lockheed											0.000	
Raytheon	CPFF										0.000	
United States Air Force Academy	N/A			1.894							1.894	
S&K Technologies, Inc. (here on down are Congressional Adds)	IDIQ										0.000	
General Atomics	T&M										0.000	
Dynamics Research Corporation	T&M										0.000	
Dynamics Research Corporation	CPFF										0.000	
Raytheon	CPFF										0.000	
Alion Science & Tech	FFP										0.000	
Numerous	Various			10.058		13.791					23.849	
Subtotal Product Development			0.000	26.973		13.791		0.000		0.000	40.764	0.000
Remarks:												
(U) Support												
None											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Test & Evaluation												
None											0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Management												
											0.000	
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	26.973		13.791		0.000		0.000	40.764	0.000

Exhibit R-4, RDT&E Schedule Profile		DATE: May 2009
BUDGET ACTIVITY: 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE: 0605011F RDT&E For Aging Aircraft	PROJECT NUMBER AND TITLE: 4685 Aging Aircraft

Aging Aircraft Schedule Summary

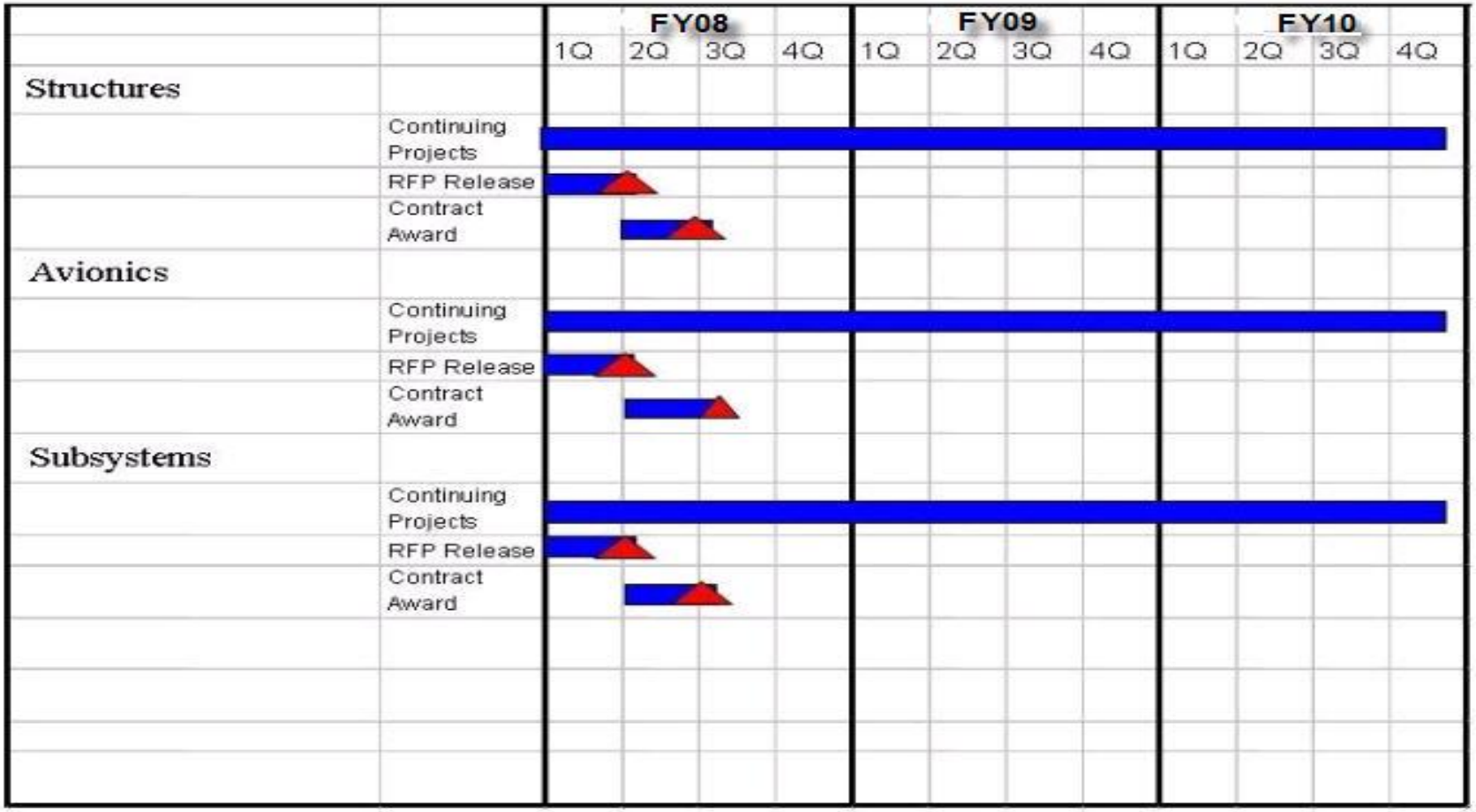

Exhibit R-4a, RDT&E Schedule Detail		DATE May 2009
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0605011F RDT&E For Aging Aircraft	PROJECT NUMBER AND TITLE 4685 Aging Aircraft

(U) Schedule Profile	FY 2008	FY 2009	FY 2010
(U) Aging Aircraft Structures Projects	1-4Q	1-4Q	
(U) Request for Proposal Release	1Q	1Q	
(U) Contract Award	2Q	2Q	
(U) Aging Aircraft Avionics Projects	1-4Q	1-4Q	
(U) Request for Proposal Release	1Q	1Q	
(U) Contract Award	2Q	2Q	
(U) Aging Aircraft Subsystems Projects	1-4Q	1-4Q	
(U) Request for Proposal Release	1Q	1Q	
(U) Contract Award	2Q	2Q	

TERMINATION OF INVESTMENT-RELATED PROGRAMS

FY 2010 President's Budget

(Dollars in Millions)

PE	BPAC	APPN	FY 2008		FY 2009		FY 2010		FY 2011		FY 2012		FY 2013		FY 2014		FY 2015	
			COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY
0605011F	654685	3600	26.973		13.791													

Effort Title

Aging Aircraft

Program Description

Program identified cross-cutting technologies that reduced total ownership costs and improved reliability, availability, and maintainability. Based on these technologies, the program developed and delivered solutions (to include prototype hardware and software) to address aging aircraft needs. The program also analyzed and recommended changes to existing sustainment processes such as field and depot repair processes. Additionally, the program developed and delivered tools to facilitate system/subsystem management, including the sharing of aging aircraft information and knowledge among the Air Logistics Centers, Product Centers, acquisition organizations, other Services and government agencies, and industry, as well as providing senior decision makers with a common, comprehensive understanding of program areas such as corrosion, fatigue, wiring, subsystems, etc.

Status to Date

Completing FY 2009 ongoing efforts.

Rationale for Termination

Program terminated due to higher Air Force priorities.

THIS PAGE INTENTIONALLY LEFT BLANK