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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force										DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605011F: <i>RDT&E For Aging Aircraft</i>							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	5.808	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
654685: <i>Aging Aircraft</i>	5.808	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program develops 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.

B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	13.791	0.000	0.000	0.000	0.000
Current President's Budget	5.808	0.000	0.000	0.000	0.000
Total Adjustments	-7.983	0.000	0.000	0.000	0.000
• 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	-7.983	0.000	0.000	0.000	0.000

Change Summary Explanation

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

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605011F: <i>RDT&E For Aging Aircraft</i>				PROJECT 654685: <i>Aging Aircraft</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
654685: <i>Aging Aircraft</i>	5.808	0.000	0.000	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	0		
A. Mission Description and Budget Item Justification <p>This program identifies cross-cutting technologies that reduce total ownership costs and improve reliability, availability, and maintainability. Based on these technologies, the program develops and delivers solutions (to include prototype hardware and software) to address aging aircraft needs. The program also analyzes and recommends changes to existing sustainment processes such as field and depot repair processes. Additionally, the program develops and delivers 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.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Transitions cross-cutting technologies for aircraft structures to weapon systems, field and depot maintainers, and air logistics center engineers and managers. <i>FY 2009 Accomplishments:</i> In FY 2009: 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. Investigated the use of legacy aircraft airframes for next-generation weapon systems such as directed energy weapons. <i>FY 2010 Plans:</i> In FY 2010: Not Applicable.							1.100	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: Not Applicable.						
FY 2011 OCO Plans: In FY 2011 OCO: N/A						
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.		3.608	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: 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 solutions that can facilitate the affordable insertion of mission enabling capabilities into fielded systems, extending their useful operational life and ensuring their combat superiority.---- 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. Maintain the VCA tool sets, enabling the VCA program to continue to advance towards establishing a strategic capabilities investment process. Emphasis was placed on identifying opportunities to accelerate capability deployment to the warfighter. Planned efforts linked 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						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
development of air-to-air weapons, training and targeting pods, and sensors to the UAI interface. Investigated the use of legacy aircraft avionics for next-generation weapon systems such as directed energy weapons. FY 2010 Plans: In FY 2010: Not Applicable. FY 2011 Base Plans: In FY 2011: Not Applicable. FY 2011 OCO Plans: In FY 2011 OCO: N/A						
MAJOR THRUST: Extends service life, controls rapidly rising sustainment costs, and retains operational capability of the aging aircraft fleet through aircraft subsystems improvement. FY 2009 Accomplishments: In FY 2009: Cross-cutting opportunities which will reduce total ownership costs are identified using business case analyses.---Continued to extend service life, control rapidly rising sustainment costs, and retain operational capability of the aging aircraft fleet through aircraft subsystems improvement. Investigated the use of legacy aircraft subsystems for next-generation weapon systems such as directed energy weapons. FY 2010 Plans: In FY 2010: Not Applicable. FY 2011 Base Plans: In FY 2011: Not Applicable.		1.100	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2011 OCO Plans: In FY 2011 OCO: N/A											
Accomplishments/Planned Programs Subtotals						5.808	0.000	0.000	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PE Not Provided (22925): Activity Not Provided	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D. Acquisition Strategy											
Not Applicable.											
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 2011 Air Force											DATE: February 2010		
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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Raytheon/Northrop	C/CPFF	TBD TBD	1.100	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
Raytheon	C/CPFF	TBD TBD	3.608	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
Dynamics Research Corporation	C/CPFF	TBD TBD	1.100	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
Subtotal			5.808	0.000		0.000		0.000		0.000			
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			5.808	0.000		0.000		0.000		0.000			
Remarks													
Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

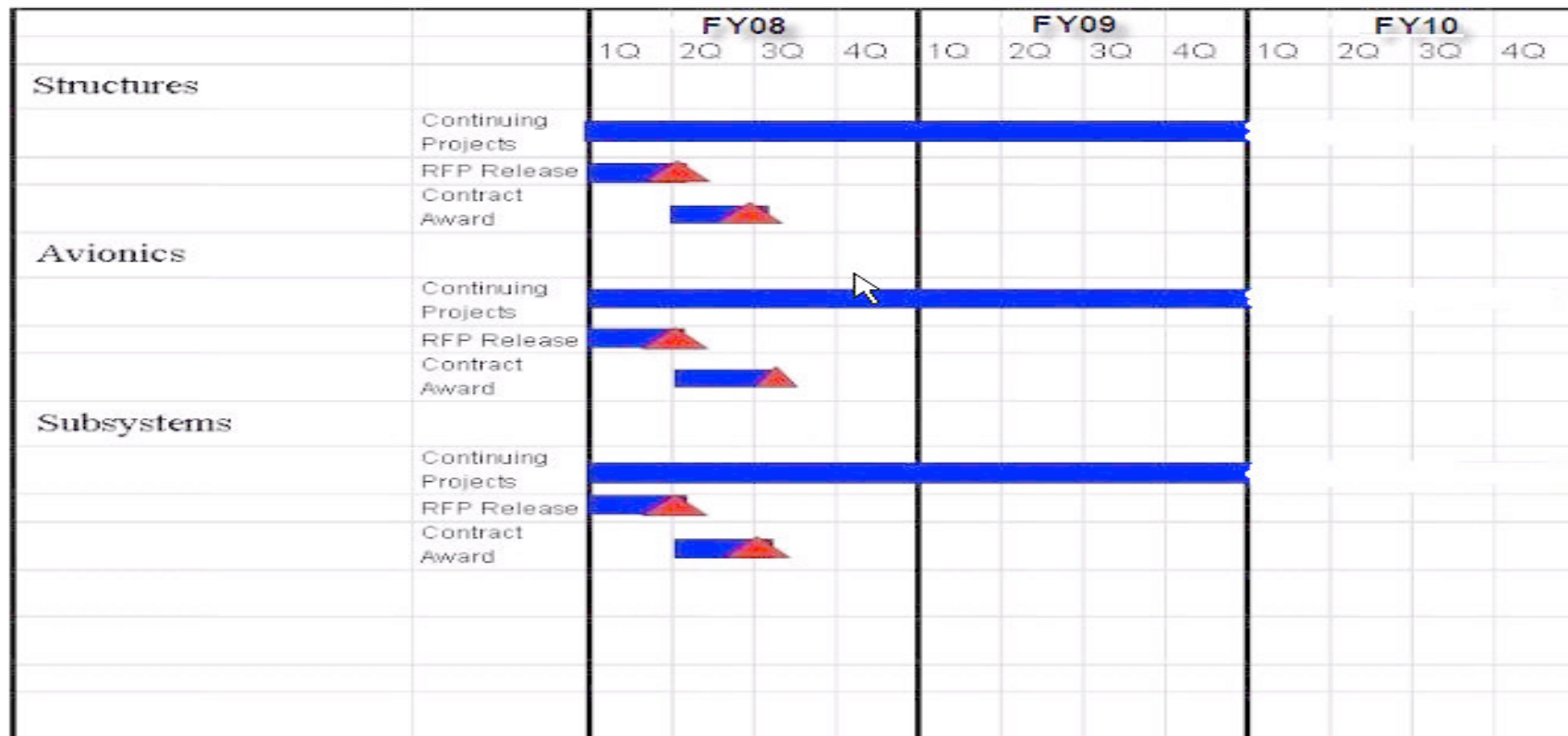
R-1 ITEM NOMENCLATURE

PE 0605011F: RDT&E For Aging Aircraft

PROJECT

654685: Aging Aircraft

Aging Aircraft Schedule Summary



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605011F: <i>RDT&E For Aging Aircraft</i>	PROJECT 654685: <i>Aging Aircraft</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Aging Aircraft Structures Projects	1	2009	4	2009
Request for Proposal Release	1	2009	1	2009
Contract Award	2	2009	2	2009
Aging Aircraft Avionics Projects	1	2009	4	2009
Request for Proposal Release (1)	1	2009	1	2009
Contract Award (2)	2	2009	2	2009
Aging Aircraft Subsystems Projects	1	2009	4	2009
Request for Proposal Release (3)	1	2009	1	2009
Contract Award (4)	2	2009	2	2009

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