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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 0207131F: A-10 Squadrons							
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	-	11.006	13.538	9.614	-	9.614	15.400	14.853	13.409	13.650	Continuing	Continuing
674809: A-10 Squadrons	-	11.006	13.538	9.614	-	9.614	15.400	14.853	13.409	13.650	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 A-10 is an essential component of successful joint air operations representing a crucial component of the Combat Air Forces (CAF) force structure. The A-10 concept of operations requires a flexible, adaptable and survivable weapon system providing close-air support, combat search and rescue, and special operations capabilities. Current high operational tempo experienced by the Expeditionary Air Force requires the A-10 to perform effectively in a variety of operational roles. The A-10 must conduct around-the-clock air operations under various weather conditions against numerous enemy threats employing a full spectrum of air defense systems.

FY 2014 RDT&E funds address evolving and continuing user requirements that must be incorporated within the Operational Flight Program (OFP) in order to operate improving weapons and targeting capabilities as they become available. User requirements are formally reviewed for incorporation with a 2-year release cycle. These requirements address hardware and software OFP deficiencies. Final integration of hardware and software requirements into a unified release occurs after rigorous testing, validation and verification using software integration laboratories (SIL), field representative assets, and production representative assets. Results of previously planned developmental and modernization actions provide the A-10 with new combat capabilities that employ a variety of smart weapons, improved situational awareness, and enhanced target identification and designation capability. The funds budgeted in the near term provide development of a SIL in support of the transition to organic software development. These funds also provide updates and integration of the aircraft OFP (Suites 8, 9, and 10), weapons integration, targeting pod updates and integration, communication/navigation/datalink improvements (e.g. Mode 5, Combatant Survivor Evader Locator (CSEL), Anti-Jam Embedded Global Positioning System/Inertial Navigation System (Embedded GPS/ INS), Improved Data Modem (IDM), etc.), self-protection integration (e.g. Electronic Protection, self-protection flares/chaff, Radar Warning Receiver, etc.), and Full Mission Trainer (FMT) concurrency development. Ongoing planning activities will continue to address diminishing manufacturing sources and obsolescence issues as required and provide replacement capabilities.

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.

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B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		11.006	13.538	13.410	-	13.410
Current President's Budget		11.006	13.538	9.614	-	9.614
Total Adjustments		0.000	0.000	-3.796	-	-3.796
• 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	-3.796	-	-3.796
Change Summary Explanation Due to higher Air Force priorities, FY14 was reduced by \$3.8M.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: OFP Development				9.733	12.448	8.412
Description: A-10C OFP Suite software is updated and released every two years to permit timely integration of new precision weapons, updated targeting pods, improved avionics, and enhanced electronic warfare capabilities. These upgraded capabilities are in response to evolving operational requirements including Urgent Operational Needs generated by the ever-changing operational environment of close air support.						
FY 2012 Accomplishments: FY12 efforts included initial fielding of helmet mounted cueing system, Lightweight Airborne Recovery System V12 (LARS V12), initiation of Suite 8 development, and the integration of Combatant Survivor Evader Locator's (CSEL) with CSEL Integration Module (CIM).						
FY 2013 Plans: FY13 efforts continue the development of Suite 8 including initial testing of LARSV12 and the test, evaluation, and initial integration of the Mode 5 radio Identify Friend or Foe capability into the A-10C OFP. These efforts respond to a DoD mandate for an FY14 Initial Operational Capability. A-10 FMT simulator software integration and development must be updated to remain concurrent with the aircraft's OFP software.						
FY 2014 Plans:						

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C. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014
FY14 continues Suite 8 development and testing, as well as the fielding of Suite 8. Suite 9 software development is planned to start in FY14 and will consist of advanced targeting pod integration, weapons integration, communications/navigation systems integration, and cockpit pilot-vehicle interface integration. Additionally, A-10 FMT simulator software integration and development must be updated to remain concurrent with the aircraft's OFP software.											
Title: OFP development PMA									1.273	1.090	1.202
Description: Program management support cost.											
FY 2012 Accomplishments: Program management support cost.											
FY 2013 Plans: Program management support cost.											
FY 2014 Plans: Program management support cost.											
Accomplishments/Planned Programs Subtotals									11.006	13.538	9.614
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
• APAF: BA05: A01000: A-10 Squadrons, PE 0207131F	12.528	89.919	47.598		47.598	0.000	0.000	0.000	0.000	Continuing	Continuing
• APAF: BA05: Line Item #A01000: Fighter Tactical Data Link, PE 0207445F	0.674	0.000	0.000		0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
Prior to FY 2009, A-10 OFP development efforts were conducted under the A-10 Prime Contract, awarded to Lockheed Martin Systems Integration in December 1997 through a full-and-open competition. Suite 8 development efforts began in FY12, with lab development and stand-up beginning in FY11 as A-10 OFP suites development and sustainment efforts transitioned from contractual work by Lockheed Martin to organic work by 309th Software Maintenance Group (SMxG) at Hill AFB. All additional suites beyond 8 will be performed by the 309th SMxG until directed otherwise. The A-10 FMT simulator OFP is managed by the Simulator Division at Wright-Patterson Air Force Base and is contractor developed and integrated.											

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PE 0207131F: *A-10 Squadrons*
Air Force

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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 0207131F: A-10 Squadrons				PROJECT 674809: A-10 Squadrons				

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
OFP Development (309th SMXG)	Various	309th SMXG:Hill AFB, UT	-	8.824	Nov 2011	10.329	Nov 2012	8.412	Jan 2014	-		8.412	Continuing	Continuing	
Subtotal			0.000	8.824		10.329		8.412		0.000		8.412			

Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
USAF (Multiple)	Various	Various:Various,	-	0.889	Nov 2011	0.373	Nov 2012	0.675	Jan 2014	-		0.675	Continuing	Continuing	
Subtotal			0.000	0.889		0.373		0.675		0.000		0.675			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
USAF (OFP)	Various	Various:Various,	-	0.350		1.838	Nov 2012	0.000	Jan 2014	-		0.000	Continuing	Continuing	
Subtotal			0.000	0.350		1.838		0.000		0.000		0.000			

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA	Various	Various:,	-	0.943		0.998	May 2013	0.527	Jan 2014	-		0.527	Continuing	Continuing	
Subtotal			0.000	0.943		0.998		0.527		0.000		0.527			

Project Cost Totals			0.000	11.006		13.538		9.614		0.000		9.614			
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Remarks															
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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 0207131F: A-10 Squadrons

	PROJECT
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674809: A-10 Squadrons

A-10 3600 Master Schedule (PEC 027131F)

		FY 2012				FY2013				FY 2014				FY 2015				FY 2016	FY 2017	FY 2018		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4					
Suite 7B	SDD & Test					R&D / Development / Integration / Flight Test																
	OFP Fielding				◊																	
Suite 8	SDD & Test					R&D / Development / Integration / Flight Test																
	OFP Fielding												◊									
Suite 9-10	SDD & Test												R&D / Development / Integration / Flight Test									
	OFP Fielding																Suite 9 ◊		Suite 10 ◊			
Suites 8 - 10 and beyond field on a bi-annual basis																						

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207131F: <i>A-10 Squadrons</i>	PROJECT 674809: <i>A-10 Squadrons</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Suite 7B OFP Design, Development & Flight Test	1	2012	4	2012
Suite 7B Fields	4	2012	4	2012
Suite 8 - OFP System Design, Development & Flight Test	1	2012	4	2014
Suite 8 OFP Fields	4	2014	4	2014
Suite 9 OFP System Design, Development & Flight Test	3	2014	4	2016
Suite 9 OFP Fields	4	2016	4	2016
Suite 10 OFP System Design, Development & Flight Test	3	2016	4	2018
Suite 10 OFP Fields	4	2018	4	2018