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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207131F / A-10 Squadrons
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.000	16.200	14.853	0.000	14.853	13.409	13.650	13.810	0.000	Continuing	Continuing
674809: <i>A-10 Squadrons</i>	-	0.000	16.200	14.853	0.000	14.853	13.409	13.650	13.810	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The A-10 is a twin engine, single seat weapon system capable of delivering a full range of air-to-ground munitions and self-defense air-to-air missiles. The A-10 is an essential capability for successful joint air operations and represents a crucial component of the Combat Air Forces. The A-10 concept of operations requires a flexible, adaptable and survivable weapon system to conduct close air support (CAS), combat search and rescue and special operations missions. The A-10 must conduct around-the-clock air operations under various weather conditions against numerous and varied enemy threats.

Operational Flight Program (OFP) development addresses evolving and continuing user requirements that must be incorporated in the aircraft software in order to employ advanced weapons, increase situational awareness and enhance targeting capabilities as they become available. The funds budgeted continue regular OFP suite development efforts. Additionally, these funds will ensure concurrency with systems impacted by OFP development, including but not limited to the Full Mission Trainer (FMT), mission planning and support equipment.

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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	16.200	14.853	0.000	14.853
Total Adjustments	0.000	16.200	14.853	0.000	14.853
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	16.200			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	14.853	0.000	14.853

**Change Summary Explanation**

FY16 Congressional Add of \$16.2M for OFP restoral

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FY17 increase of \$14.853M for continued OFP sustainment

**C. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Title:</b> OFP Development  <b>Description:</b> Updates to the A-10C OFP Suite software 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 air combat.  <b>FY 2015 Accomplishments:</b> N/A  <b>FY 2016 Plans:</b> Funds Suite 9 candidate software design, development and integration.  <b>FY 2017 Base Plans:</b> Funds Suite 9 candidate development by completing the software design, development and integration. In addition, we will complete Suite 10 requirement maturation efforts and start software design.  <b>FY 2017 OCO Plans:</b> N/A	0.000	16.200	14.853	0.000	14.853
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	16.200	14.853	0.000	14.853

**D. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APAF: BA05: Line Item # A01000: <i>A-10 Squadrons, PE 0207131F</i>	0.000	0.000	1.289	23.850	25.139	0.000	0.000	0.000	0.000	0.000	25.139

**Remarks**

**E. Acquisition Strategy**

A-10 OFP development efforts will be conducted organically by the 309th Software Maintenance Group at Ogden Air Logistics Complex, Hill AFB UT. The A-10 FMT simulator OFP is managed by the Simulator Division at Wright-Patterson Air Force Base and is currently contractor-developed and integrated.

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**Appropriation/Budget Activity**  
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**R-1 Program Element (Number/Name)**  
PE 0207131F / *A-10 Squadrons*

**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.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207131F / A-10 Squadrons	<b>Project (Number/Name)</b> 674809 / A-10 Squadrons
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<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OFP Development 2nd Qtr FY16 (309th SMXG)	PO	309th SMXG : Hill AFB, UT	-	0.000		2.200	Jan 2016	0.000		0.000		0.000	Continuing	Continuing	-
OFP Development (309th SMXG)	PO	309th SMXG : Hill AFB, UT	-	0.000		6.900	Mar 2016	0.000		0.000		0.000	Continuing	Continuing	-
OFP Development 3rd Qtr FY16 (309 SMXG)	PO	309th SMXG : Hill AFB, UT	-	0.000		2.200	Apr 2016	0.000		0.000		0.000	Continuing	Continuing	-
OFP Development 4th Qtr (309 SMXG)	PO	309th SMXG : Hill AFB, UT	-	0.000		3.000	Jul 2016	0.000		0.000		0.000	Continuing	Continuing	-
OFP Development 1st Qtr FY17 (309 SMXG)	PO	309th SMXG : Hill AFB, UT	-	0.000		0.000		1.300	Nov 2016	0.000		1.300	Continuing	Continuing	-
OFP Development Materials (309 SMXG)	PO	309 SMXG : Hill AFB, UT	-	0.000		0.000		0.400	Dec 2016	0.000		0.400	Continuing	Continuing	-
OFP Development 2nd Qtr FY17 (309 SMXG)	PO	309 SMXG : Hill AFB, UT	-	0.000		0.000		2.400	Jan 2017	0.000		2.400	Continuing	Continuing	-
OFP Development (309 SMXG)	PO	309 SMXG : Hill AFB, UT	-	0.000		0.000		3.873	Mar 2017	0.000		3.873	Continuing	Continuing	-
OFP Development 3rd Qtr FY17 (309 SMXG)	PO	309 SMXG : Hill AFB, UT	-	0.000		0.000		2.400	Apr 2017	0.000		2.400	Continuing	Continuing	-
OFP Development 4th Qtr FY17 (309 SMXG)	PO	309 SMXG : Hill AFB, UT	-	0.000		0.000		2.400	Jul 2017	0.000		2.400	Continuing	Continuing	-
OFP Dev (309 SMXG)	PO	309 SMXG : Hill AFB, UT	-	0.000		0.000		0.150	Sep 2017	0.000		0.150	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		14.300		12.923		0.000		12.923	-	-	-

<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
USAF (Multiple)	Various	Various : Various	-	0.000		0.100	Sep 2016	0.000		0.000		0.000	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		0.100		0.000		0.000		0.000	-	-	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force** **Date:** February 2016

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<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
USAF (OFF)	Various	Various : Various	-	0.000		1.400	Sep 2016	1.530	Sep 2017	0.000		1.530	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		1.400		1.530		0.000		1.530	-	-	-

<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
PMA	Various	Various : Various	-	0.000		0.400	Sep 2016	0.400	Aug 2017	0.000		0.400	Continuing	Continuing	-
<b>Subtotal</b>			-	0.000		0.400		0.400		0.000		0.400	-	-	-

			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	0.000	16.200	14.853	0.000	14.853	-	-	-

Remarks

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207131F / A-10 Squadrons	<b>Project (Number/Name)</b> 674809 / A-10 Squadrons
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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Suite 9 - OFP System Design, Development and Flight Test	
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Suite 9 - OFP Fields	
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Suite 10 - OFP System Design, Development and Flight Test	
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Suite 10 - OFP Fields	
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**Exhibit R-4A, RDT&E Schedule Details:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207131F / A-10 Squadrons	<b>Project (Number/Name)</b> 674809 / A-10 Squadrons
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Suite 9 - OFP System Design, Development and Flight Test	2	2016	1	2019
Suite 9 - OFP Fields	1	2019	1	2019
Suite 10 - OFP System Design, Development and Flight Test	3	2017	1	2020
Suite 10 - OFP Fields	1	2020	1	2020