

**UNCLASSIFIED**

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 0207134F: F-15E Squadrons							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	184.665	192.677	244.289	-	244.289	426.331	459.242	427.772	335.936	Continuing	Continuing
670131: Initial Operational Test and Evaluation	-	121.548	92.555	74.975	-	74.975	203.496	227.037	174.600	83.476	Continuing	Continuing
676020: F-15	-	63.117	100.122	169.314	-	169.314	222.835	232.205	253.172	252.460	Continuing	Continuing

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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

The F-15 is the most versatile fighter in the world today. The F-15C/D continues to provide air superiority with an undefeated and unmatched aerial combat record. The F-15E retains this air superiority capability and adds systems, such as advanced imaging and targeting systems, to meet the requirement for all-weather, deep penetration, and night/under-the-weather, air-to-surface attack. Configured with conformal fuel tanks (CFTs), the F-15E deploys worldwide with minimal tanker support and arrives combat-ready. A mainstay in operations both domestic and abroad, upgrades to the F-15 (avionics, armament, airframe, and engines) are critical to maintaining combat viability (lethality, survivability, and supportability). Projected to remain in service past 2030, avionics modernization is key to long-term weapon system viability. This modernization is built on a foundation of technical and acquisition support studies (both internal to the Air Force and through outside contractors), forestalling obsolescence, exploiting proven technological advances, and leveraging new technology. Major avionics upgrades center around radar modernization (both hardware and software upgrades) and the exploitation of enhanced capability via precision timing, data delivery and processing technology, precision registration systems, cockpit Head Up Display (HUD), instrumentation digitization and modernization, central computer processing power increases, digital mission event recording systems and an infrared (IR) based fire control system. Funds are also used, as required, to resolve Diminishing Manufacturing Sources and Material Shortage (DMSMS) issues. The proliferation of fourth generation enemy aircraft and sophisticated "double-digit" anti-aircraft missile systems pose a significant threat to F-15 survivability. A fully integrated electronic warfare suite holds the promise of providing survivability as well as expanded electronic attack capability. Nearly all improvements are linked to an aircraft operational flight program update schedule that works to integrate new capabilities with the airframe. These updates are a responsive way to increase the offensive and defensive capability and survivability of the F-15. Incorporation of corresponding spiral and/or phased technology/equipment improvements that include support equipment, mission planning systems, and training device upgrades will improve performance, supportability, and aircrew training

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>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Air Force	<b>DATE:</b> April 2013
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0207134F: <i>F-15E Squadrons</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>
Previous President's Budget	194.831	192.677	354.193	-	354.193
Current President's Budget	184.665	192.677	244.289	-	244.289
Total Adjustments	-10.166	0.000	-109.904	-	-109.904
• 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	-4.412	0.000			
• SBIR/STTR Transfer	-5.754	0.000			
• Other Adjustments	0.000	0.000	-109.904	-	-109.904

**Change Summary Explanation**

FY2012: Funding decrease for higher Air Force priorities.

FY2014: Funding decreases for the Eagle Passive/Active Warning Survivability System (EPAWSS), the Advanced Display Core Processor (ADCP) II, and higher Air Force priorities; add funding to start new weapons integration effort.

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Exhibit R-2A, RDT&E Project 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 0207134F: F-15E Squadrons				PROJECT 670131: Initial Operational Test and Evaluation			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
670131: Initial Operational Test and Evaluation	-	121.548	92.555	74.975	-	74.975	203.496	227.037	174.600	83.476	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												
Note												
Operational Flight Program (OFP) Development efforts and Flight test have been moved to BPAC 676020												
A. Mission Description and Budget Item Justification												
This includes development of the F-15E APG-82(V)1 Active Electronically Scanned Array (AESA) radar, the F-15C/D and F-15E Advanced Display Core Processor (ADCP) II and the F-15C/D and F-15E Eagle Passive/Active Warning Survivability System (EPAWSS).												
The APG-82(V)1 will supply the F-15E with a digital radar that will provide improved range and resolution, as well as a significant improvement in reliability. This AESA radar has the ability to provide electronic attack and protection capabilities.												
The ADCP II will develop a common mission computer for the F-15C/D and F-15E. The current mission computers of both platforms have reached their limits of speed, memory and throughput. Additionally, digital systems have changed the security requirements of both platforms and the older mission computers cannot be upgraded to meet these new requirements. A common mission computer is expected to reduce overall development costs as well as long term maintenance costs. The program will also develop a new F-15C/D cockpit display to replace an obsolete one.												
EPAWSS will replace the obsolete Tactical Electronic Warfare System (TEWS), which will help the aircraft survive in high threat environments.												
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. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: F-15E Radar Modernization Program (RMP) APG-82(V)1									53.776	6.823	0.000	
Description: New digital AESA radar replacing legacy analog APG-70 radars on all F-15E aircraft. This includes technical and acquisition related studies.												
FY 2012 Accomplishments:												

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2012</b>	<b>FY 2013</b>
Continued DT&E and completed modification of test aircraft.			
<b>FY 2013 Plans:</b> Complete DT&E and IOT&E. Upgrade trainers. Complete EMD phase of program			
<b>FY 2014 Plans:</b> Not Applicable			
<b>Title:</b> Eagle Passive/Active Warning Survivability System (EPAWSS) <b>Description:</b> Planned replacement of the existing F-15 self-protection, Tactical Electronic Warfare System (TEWS). This includes technical and acquisition related studies.  <b>FY 2012 Accomplishments:</b> Not applicable  <b>FY 2013 Plans:</b> New Start FY13. Evaluate EPAWSS integration requirements and interface characteristics. Early acquisition planning, security planning and specification development. Technical and acquisition related studies.  <b>FY 2014 Plans:</b> Continue acquisition planning, security planning and specification development. Technical and acquisition related studies. Develop EMD procurement package for award of EMD contract to design, fully integrate, test and install EPAWSS on the F-15C/D and F-15E.		0.000	5.082
<b>Title:</b> Advanced Display Core Processor (ADCP) II (formerly known as Computer Processor Modernization Program and Advanced Display Core Processor Plus w/Vertical Situation Display. FY12 combined programs) <b>Description:</b> New central computer for both F-15E and F-15C/D modernization. Program provides a central computer upgrade for 219 F-15Es to replace ADCP. F-15C/D provides 175 modern computers and a high resolution color display to replace the current F-15C/D Vertical Situation Display (VSD). This includes technical and acquisition related studies.  <b>FY 2012 Accomplishments:</b> Subsystem System Requirements Review (SRR), Preliminary Design Review (PDR), Aircraft SRR, Subsystem Critical Design Review (CDR). Continued software prototyping. Began EMD.  <b>FY 2013 Plans:</b>		66.398	79.490
			54.055

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B. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014
Continue EMD. Critical Design Review (CDR). Initial hardware build. OFP Suite 8E rehost for F-15 C/D. Software development and testing on prototype hardware. Vertical Situation Display Replacement (VSDR) design and integration.											
FY 2014 Plans: Continue EMD. Initial EMD ADCP II units. Complete initial Common OFP (Suite 8E rehost for F-15 C/D). Software development and testing on EMD hardware. Begin system stability and endurance testing. Finalize installation TCTO for flight test. Flight Test Readiness Review for Operational Assessment. Delivery of VSDR EMD units.											
Title: Program Mgt Support Costs									1.374	1.160	0.920
Description: Program Management Support Costs											
FY 2012 Accomplishments: Program Management Support Costs											
FY 2013 Plans: Program Management Support Costs											
FY 2014 Plans: Program Management Support Costs											
Accomplishments/Planned Programs Subtotals									121.548	92.555	74.975
C. 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: Line Item # F01500: Aircraft Modification: F-15: PEs 0207130/0207134/0207445/0809731	255.586	148.378	354.624		354.624	497.514	518.373	372.220	475.079	Continuing	Continuing
• APAF: BA07: Line Item # 000071: Aircraft Replacement Support Equip (BP12)	1.545	3.536	0.000		0.000	0.000	0.000	0.000	0.000	0.000	1.545
• APAF: BA07: Line Item # F0150P: F-15 Post Production Support	2.076	2.363	2.403		2.403	2.448	2.492	2.537	2.583	Continuing	Continuing
• APAF: BA06: Line Item # 000999: Initial Spares/Repair Parts (BP16)	7.474	22.654	23.125		23.125	46.752	46.991	48.650	38.065	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force										DATE: April 2013	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0207134F: <i>F-15E Squadrons</i>			<b>PROJECT</b> 670131: <i>Initial Operational Test and Evaluation</i>			
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
<u>Remarks</u>											
<b>D. Acquisition Strategy</b> Program is a continuation of effort which includes the development for all F-15 models. Funds are executed organically in support of equipment improvement, study, analysis, and test. Acquisition and management strategies for each program are independently developed and use a variety of contract methods and types to accomplish program objectives.											
<b>E. Performance Metrics</b> 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 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 0207134F: F-15E Squadrons					PROJECT 670131: Initial Operational Test and Evaluation				
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
F-15E RMP EMD Contract	SS/CPAF	Boeing:St Louis, MO	-	22.538	Dec 2012	5.471	Mar 2013	0.000		-		0.000	Continuing	Continuing	
F-15E RMP	Various	Various:Various,	-	31.238	Mar 2013	1.352	Jun 2013	0.000		-		0.000	Continuing	Continuing	
F-15 ADCP II	SS/CPFF	Boeing:St. Louis, MO	-	30.620	Dec 2012	30.000	Jun 2013	30.000	Mar 2014	-		30.000	Continuing	Continuing	
F-15 ADCP II Various	Various	Various:Various,	-	35.778	Nov 2012	49.490	Nov 2012	24.055	Dec 2013	-		24.055	Continuing	Continuing	
F-15 EPAWSS	TBD	TBD:TBD,	-	0.000		5.082	Apr 2013	20.000	Jan 2014	-		20.000	Continuing	Continuing	
Subtotal			0.000	120.174		91.395		74.055		0.000		74.055			
Remarks															
The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.															
FY12PB - Project 670131 includes APG-82(V)1 and ADCP II programs only. All other programs funded under Project 676020.															
FY13PB - Project 670131 includes APG-82(V)1, ADCP II and EPAWSS only. All other programs funded under Project 676020.															
FY14PB - Project 670131 includes APG-82(V)1, ADCP II and EPAWSS only. All other programs funded under Project 676020.															
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

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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 0207134F: F-15E Squadrons				PROJECT 670131: Initial Operational Test and Evaluation					
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
Program Management Support Costs	Various	Various:Various,	-	1.374	Sep 2012	1.160	Sep 2013	0.920	Sep 2014	-		0.920	Continuing	Continuing	
Subtotal			0.000	1.374		1.160		0.920		0.000		0.920			
Remarks															
The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.															
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	121.548		92.555		74.975		0.000		74.975			
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

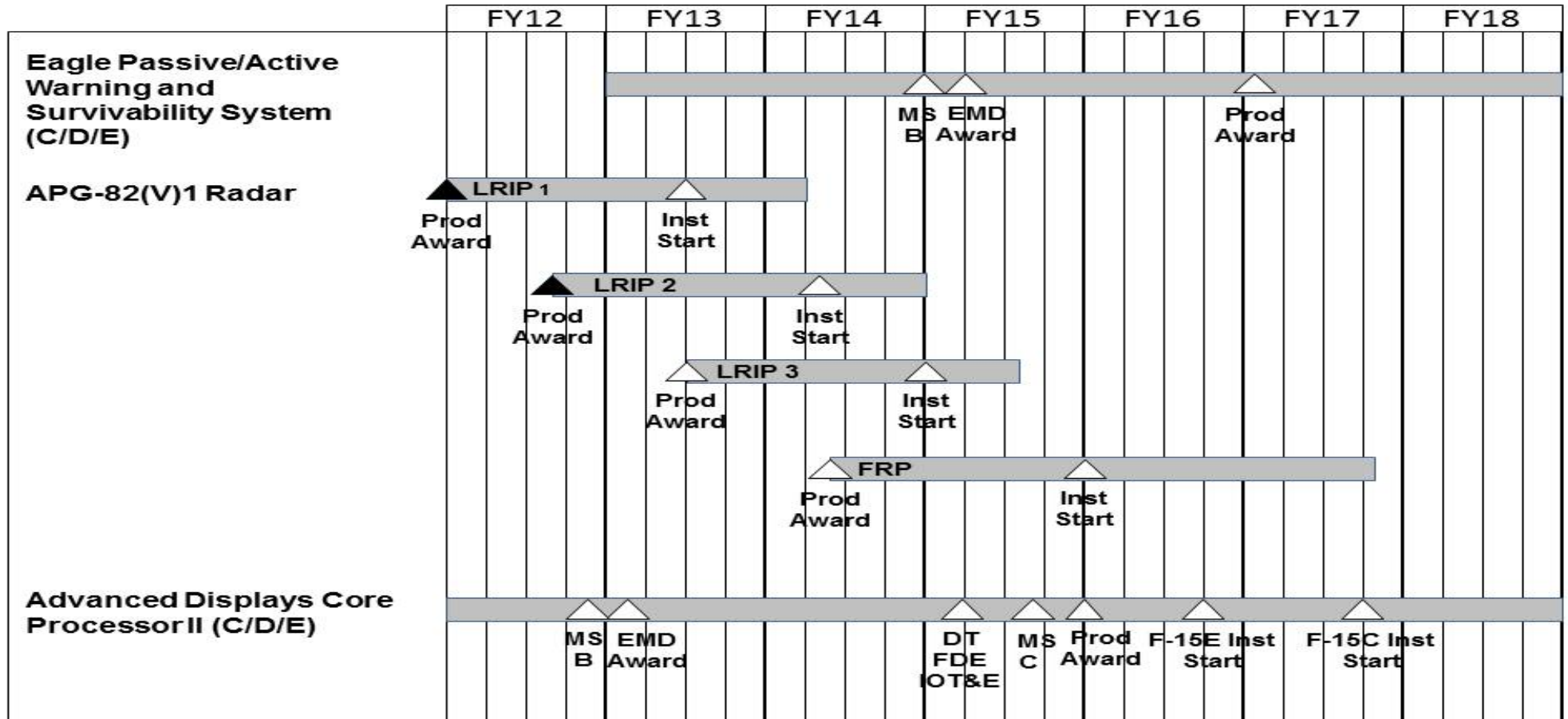
**R-1 ITEM NOMENCLATURE**

PE 0207134F: F-15E Squadrons

**PROJECT**

670131: Initial Operational Test and Evaluation

## Modifications – BPAC 670131



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0207134F: <i>F-15E Squadrons</i>	<b>PROJECT</b> 670131: <i>Initial Operational Test and Evaluation</i>	

## Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
F-15E APG-82(V)1 RMP EMD - Complete	1	2012	2	2013
F-15E APG-82(V)1 RMP LRIP 1	1	2012	2	2014
F-15E APG-82(V)1 RMP LRIP 2	3	2012	1	2015
F-15E APG-82(V)1 RMP LRIP 3	2	2013	4	2015
ADCP II EMD	1	2012	3	2016
ADCP II MS C	3	2015	3	2015
ADCP II Production contract award	4	2015	4	2015
EPAWSS--FY13 New Start	2	2013	3	2018
EPAWSS MS B	1	2015	1	2015
EPAWSS EMD contract award	2	2015	2	2015

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207134F: F-15E Squadrons				PROJECT 676020: F-15			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
676020: F-15	-	63.117	100.122	169.314	-	169.314	222.835	232.205	253.172	252.460	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												
Note												
Project 676020 was created in the FY 2012 President's Budget to improve management of F-15 development. Funds were moved from Project 670131 to Project 676020.												
A. Mission Description and Budget Item Justification												
This effort includes development of F-15 Electronic Protection (EP) capabilities and provides funding for Operational Flight Program (OFP) upgrades and for Flight Testing.												
EP will enhance digital Active Electronic Scanned Array (AESA) radar capabilities to counter sophisticated electronic threats. The development of F-15 EP will maximize Key System Attributes (KSA) and EP techniques for F-15E Radar Modernization Program (RMP) in Suite 8E; ensure remaining KSAs and EP techniques for F-15E RMP are included in Suite 9; ensure legacy EP for F-15C APG-63(v)3, commensurate with the APG-63(v)1 radar legacy EP capability, is included in Suite 9; and maximize additional advanced EP for F-15C APG-63(v)3 in Suite 9."												
For the F-15 to maintain operational effectiveness, the program must continuously provide the platforms with improved capabilities. To accomplish this there is an on-going need to develop software upgrades and to flight test new capabilities and systems. The OFP funding line allows the Air Force to release software upgrades approximately every 3 years. At any one time the program has three OFP upgrades in work: one in requirements definition/pricing, one in code writing and test, and one in flight test and release preparation. The flight Test funding line allows the Air Force to fund the on-going test effort.												
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. Accomplishments/Planned Programs (\$ in Millions)									FY 2012	FY 2013	FY 2014	
Title: Operational Flight Program (OFP) Development Efforts									22.179	74.366	107.745	
Description: Provides OFP program software and hardware updates to integrate new capabilities on all F-15 aircraft. This includes technical and acquisition related studies.												
FY 2012 Accomplishments:												

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Continued Suite 8E Phase 1 and initiated S8E Phase 2 planning and contracting actions. Continued Suite 7C (otherwise known as Suite 7M) development efforts and complete Critical Design Review (CDR). Continuation of organic software support and Special Projects development efforts. Trainer upgrades. <b>FY 2013 Plans:</b> Complete S8E requirements definition and initiate S8E Phase 2 development. Continue Suite 7C (otherwise known as Suite 7M) development and CDR. Integrate Alpha 2 Lite into the OFP. Continuation of organic software support and Special Projects development efforts. Trainer upgrades. <b>FY 2014 Plans:</b> Finish coding, conduct bench testing and begin flight testing of S8E. Complete S7C development and operational flight testing, conduct verification and validation of technical publications, prepare for delivery. Complete integration of Alpha 2 Lite and begin integration of Joint-Air-to-Surface Standoff Missile-Extended Range (JASSM-ER) into the OFP. Begin Phase I Suite 9 development. Continuation of organic software support and Special Projects development efforts.				
<b>Title:</b> Flight Test <b>Description:</b> Flight testing of improvements initiated in prior years. Baseline infrastructure and personnel support for F-15 Developmental Test (DT) and Operational Test (OT) operations. Purchases long-lead test support assets and unique aircraft test instrumentation. This includes technical and acquisition related studies. <b>FY 2012 Accomplishments:</b> F-15 Flight Test Support provides prime contractor support cadre at Eglin and Nellis for DT/OT support, avionics integration lab Operations and Maintenance (O&M), Combined Test Force (CTF) O&M, and long-lead test unique equipment, i.e., program specific aircraft instrumentation, weapons instrumentation kits, weapons simulators, data reduction/handling equipment. <b>FY 2013 Plans:</b> F-15 Flight Test Support provides prime contractor support cadre at Eglin and Nellis for DT/OT support, avionics integration lab O&M, CTF O&M, and long-lead test unique equipment, i.e., program specific aircraft instrumentation, weapons instrumentation kits, weapons simulators, data reduction/handling equipment. <b>FY 2014 Plans:</b> F-15 Flight Test Support provides prime contractor support cadre at Eglin and Nellis for DT/OT support, avionics integration lab O&M, CTF O&M, and long-lead test unique equipment; i.e., program specific aircraft instrumentation, weapons instrumentation kits, weapons simulators, data reduction/handling equipment.		11.741	16.049	16.328
<b>Title:</b> F-15C/D BLOS		6.157	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
Description: Provide F-15C/D beyond line of sight (BLOS) communications capability on all long term aircraft. This includes technical and acquisition related studies.  FY 2012 Accomplishments: Software development and qualification.				
Title: F-15 Radar Enhancements  Description: Improvements to F-15 Electronic Protection (EP) and other radar enhancements. This includes technical and acquisition related studies.  FY 2012 Accomplishments: Initial EP capability integration, technology maturation, hardware purchases for radar lab development and testing. Assessment of existing EP effectiveness.  FY 2013 Plans: EP software development, technology maturation, and OFP risk reduction.  FY 2014 Plans: Continue implementation of EP into Suite 8E. Continue technology acceleration efforts for Suite 9. Initiate Suite 9 EP implementation.		21.784	8.732	44.161
Title: Program Management Support Costs  Description: Program Management Support Costs.  FY 2012 Accomplishments: Program Management Support Costs.  FY 2013 Plans: Program Management Support Costs.  FY 2014 Plans: Program Management Support Costs.		1.256	0.975	1.080
Accomplishments/Planned Programs Subtotals		63.117	100.122	169.314

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C. 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: Line Item # F01500: F-15 Modification of In-Service Aircraft, PEs 0207130/0207134/0207445/0809731	255.586	148.378	354.624		354.624	497.514	518.373	372.220	475.079	Continuing	Continuing
• APAF: BA06: Line Item # 000999: Initial Spares/Repair Parts (BP16)	7.474	22.654	23.125		23.125	46.752	46.991	48.650	38.065	Continuing	Continuing
• APAF: BA07: Line Item # F0150P: F-15 Post Production Support	2.076	2.363	2.403		2.403	2.448	2.492	2.537	2.583	Continuing	Continuing
• APAF: BA07: Line Item # 000071: Aircraft Replacement Support Equip (BP12)	1.545	3.536	0.000		0.000	0.000	0.000	0.000	0.000	0.000	98.302
Remarks											
D. Acquisition Strategy											
Program is a continuation of effort which includes the development of all F-15 models. Funds are executed organically in support of equipment improvement, study, analysis, and test. Acquisition and management strategies for each program are independently developed and use a variety of contract methods and types to accomplish program objectives.											
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 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 0207134F: F-15E Squadrons				PROJECT 676020: F-15					
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 Suite 7/8/9 Development and Test	C/CPAF	Boeing:St. Louis, MO	-	20.179	Dec 2012	51.887	Mar 2013	84.862	Mar 2014	-		84.862	Continuing	Continuing	
OFP Suite 7/8/9 Development and Test Various	Various	Various:Various,	-	2.000	Jan 2013	22.479	Jun 2013	22.883	Mar 2014	-		22.883	Continuing	Continuing	
F-15 Beyond Line of Sight (BLOS)--FY12 New Start	C/TBD	TBD:TBD,	-	6.157	Sep 2013	0.000		0.000		-		0.000	Continuing	Continuing	
F-15 Radar Enhancement	SS/CPFF	Boeing:St Louis, MO	-	19.784	Nov 2012	8.732	Mar 2013	40.000	Jan 2014	-		40.000	Continuing	Continuing	
F-15 Radar Enhancement Various	Various	Various:Various,	-	2.000	Dec 2012	0.000		4.161	Dec 2013	-		4.161	Continuing	Continuing	
Subtotal			0.000	50.120		83.098		151.906		0.000		151.906			
Remarks															
The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.															
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
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
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
Boeing (Contractor Test Support)	SS/FFP	Boeing:St. Louis, MO	-	10.741	Apr 2012	11.800	Apr 2013	13.000	Jan 2013	-		13.000	Continuing	Continuing	
Flight Test Support	Various	Various:,	-	1.000	Dec 2012	4.249	Jun 2013	3.328	Mar 2014	-		3.328	Continuing	Continuing	
Subtotal			0.000	11.741		16.049		16.328		0.000		16.328			

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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 0207134F: F-15E Squadrons					PROJECT 676020: F-15				
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	
Remarks The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.																
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	
Program Mgt Support Costs	Various	Various:Various,	-	1.256	Sep 2012	0.975	Sep 2013	1.080	Sep 2014	-		1.080	Continuing	Continuing		
Subtotal			0.000	1.256		0.975		1.080		0.000		1.080				
Remarks The individual program reference to "various" contract methods addresses other government costs for trainers, test, hardware, special studies, telemetry kits, etc. that are required to meet each program's objectives. The execution vehicles between these DoD entities vary by effort.																
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			0.000	63.117		100.122		169.314		0.000		169.314				
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

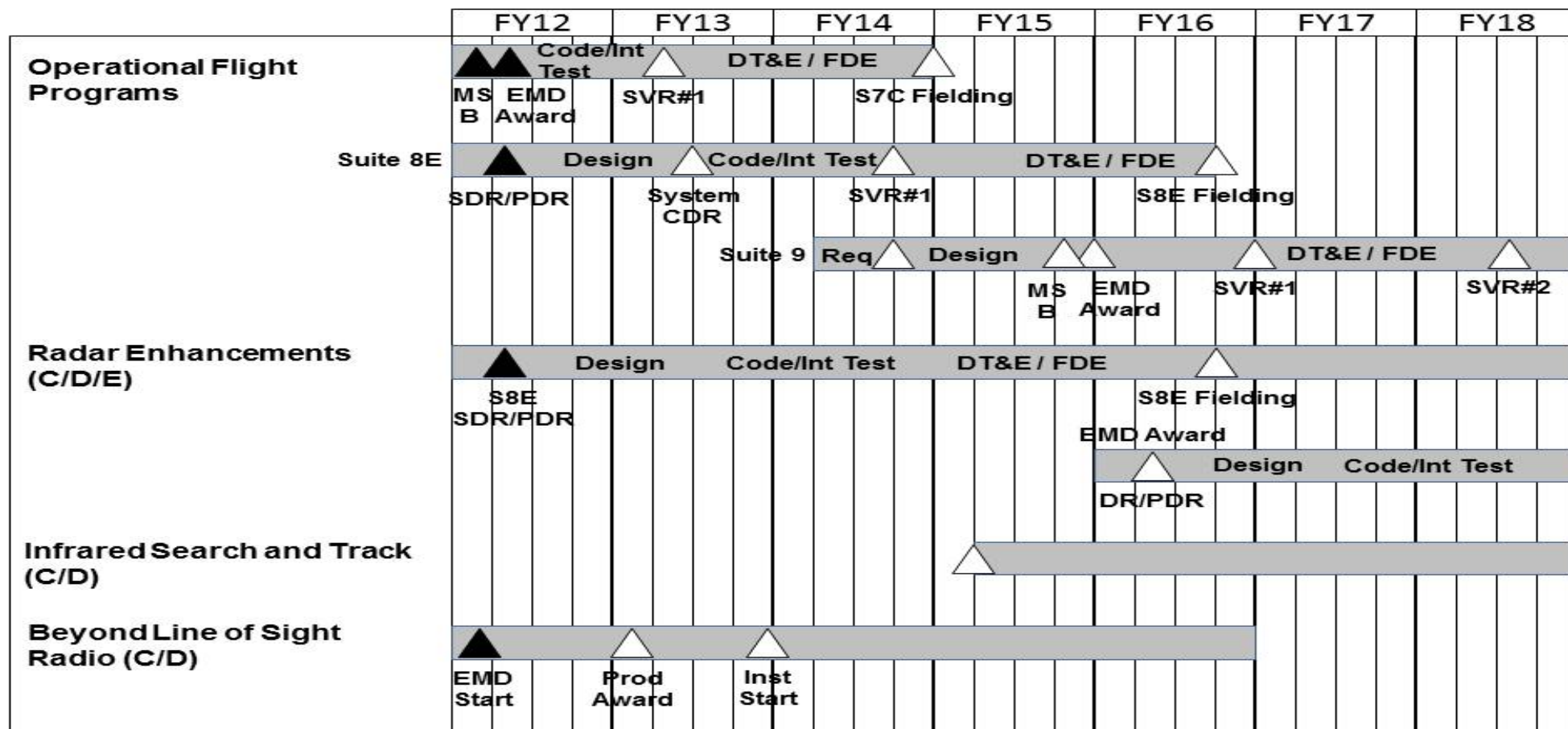
**R-1 ITEM NOMENCLATURE**

PE 0207134F: F-15E Squadrons

**PROJECT**

676020: F-15

## Modifications – BPAC 676020



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0207134F: <i>F-15E Squadrons</i>	<b>PROJECT</b> 676020: <i>F-15</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
OFP Continuous Development	1	2012	4	2018
OFP Suite 7C Fielding	2	2015	2	2015
OFP Suite 8E Fielding	3	2016	4	2016
F-15C/D BLOS Development	2	2013	2	2013
F-15C/D BLOS Production Start	2	2013	2	2016
Radar Enhancements Development	1	2012	4	2018
Radar Enhancements Suite 8E Fielding	4	2016	4	2016
Infrared Search and Track Development	1	2015	4	2018