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

Date: February 2015

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

Operational Systems Development

R-1 Program Element (Number/Name) PE 0207134F I F-15E Squadrons

- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1												
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	0.000	227.098	241.969	179.283	-	179.283	255.081	246.006	221.672	227.836	-	1,598.945
670131: Initial Operational Test and Evaluation	0.000	62.563	84.350	44.969	-	44.969	9.426	-	-	-	-	201.308
676020: <i>F-15</i>	0.000	164.535	157.619	134.314	-	134.314	245.655	246.006	221.672	227.836	-	1,397.637

Note

In FY 2015, PE 0207134F Project 670131 Initial Operation Test and Evaluation, EPAWSS efforts were transferred to PE 0207171F Project 676038 EPAWSS to improve transparency for ACAT I program.

In FY 2016, EPAWSS efforts were transferred from Budget Activity 7, Operational Systems Development, PE 0207171F, Project Number 676038 to Budget Activity 5, Engineering and Manufacturing Development, PE 0207171F, Project Number 657108 per OSD direction.

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 2035, 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.

PE 0207134F: F-15E Squadrons

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

Date: February 2015

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

Operational Systems Development

R-1 Program Element (Number/Name)
PE 0207134F / F-15E Squadrons

The FY2016 funding request was reduced by \$39.869 million to account for the availability of prior execution balances.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	234.289	261.969	250.362	-	250.362
Current President's Budget	227.098	241.969	179.283	-	179.283
Total Adjustments	-7.191	-20.000	-71.079	-	-71.079
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-20.000			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-7.191	-			
Other Adjustments	-	-	-71.079	-	-71.079

Change Summary Explanation

FY2014: Funding decreased -\$7.191 million for SBIR.

FY2015: Funding decreased -\$20.000 million for congressional marks; -\$15.000 million for "improving funds management: forward financing" and -\$5 million for "restoring acquisition accountability: Infrared Search and Track."

In FY 2015, EPAWSS efforts were transferred from Budget Activity 7, Operational Systems Development, PE 0207134F, Project Number 670131 to Budget Activity 7, Operational Systems Development, PE 0207171F, Project Number 676038 per Air Force direction.

The FY2016 \$31.21 million was directed to support higher Air Force priorities.

The FY2016 funding request was reduced by \$39.869 million to account for the availability of prior execution balances.

PE 0207134F: *F-15E Squadrons*

Air Force Page 2 of 17

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Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 A	Air Force							Date: Feb	ruary 2015	
Appropriation/Budget Activity 3600 / 7		_		t (Number / Squadrons	Number/Name) Initial Operational Test and on							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
670131: Initial Operational Test and Evaluation	44.969	-	44.969	9.426	-	-	-	-	201.308			
Quantity of RDT&E Articles	-	-	-	-	-	-	-					

A. Mission Description and Budget Item Justification

This includes development of 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) (EPAWSS funds for FY14 only are in PE 0207134F).

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.

The FY2016 funding request was reduced by \$39.869 million to account for the availability of prior year balances.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: Eagle Passive/Active Warning Survivability System (EPAWSS)	9.600	-	-
Description: EPAWSS for FY 14 is under Project Number 670131 and PE 027134F. For FY 15 PB EPAWSS is under Project Number 676038 and PE 027171F.			
Planned replacement of the existing F-15 self-protection, Tactical Electronic Warfare System (TEWS). This includes technical and acquisition related studies.			
FY 2014 Accomplishments: Continued evaluating EPAWSS integration requirements and interface characteristics, conducting security planning and developing system specifications. Continued acquisition planning for Milestone A. Technical and acquisition related studies.			
FY 2015 Plans:			

PE 0207134F: *F-15E Squadrons*

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Exhibit R-2A, RDT&E Project Justif	ication: PB	2016 Air Fo	rce						Date: Fe	ebruary 2015		
Appropriation/Budget Activity 3600 / 7						nent (Numb 15E Squadro			1 <i>Ì Initial Ope</i>	Number/Name) Initial Operational Test and on		
B. Accomplishments/Planned Prog	rams (\$ in I	Millions)							FY 2014	FY 2015	FY 2016	
Not applicable.												
Title: Advanced Display Core Proces Advanced Display Core Processor Plant						rnization Pro	gram and		52.963	84.350	44.96	
Description: New central computer for the entire F-15E fleet, replacing the A replacing the VCC as well the existing FY 2014 Accomplishments:	CDP I. Prog	gram also pr	ovides a cen	itral compute	er upgrade to	the AESA-	adar F-15C	fleet,				
Conducted EMD activities. Began de OFP. Continued software developme				able Units.(Continued de	evelopment (of initial Com	imon				
FY 2015 Plans: Conduct EMD activities. Continue sof Review (FTRR) for DT/OT flight testir aircraft. Begin system stability and en	ıg. Finalize	installation 1										
FY 2016 Plans: Conduct EMD activities. Complete en EMD units. Conduct combined DT/O1				ns Integration	n Lab activiti	es. Continue	edelivery of o	display				
				Accon	nplishments	s/Planned P	rograms Su	btotals	62.563	84.350	44.96	
C. Other Program Funding Summar	ry (\$ in Milli	ons)										
Line Item • APAF: BA05: Line Item # F01500:	FY 2014 346.624	FY 2015 387.314	FY 2016 Base 644.336	FY 2016 OCO	FY 2016 Total 644.336	FY 2017 476.060	FY 2018 489.257	FY 201 530.45		Cost To Complete Continuing	Total Cos	
Aircraft Modification: F-15: PEs 0207130/0207134/0207445/0809731	010.021	007.011	011.000		011.000	17 0.000	100.201	000.10		Continuing	Continui	
APAF: BA07: Line Item # 000071: Aircraft Replacement Support Equip (BP12)	-	-	-	-	-	-	-	-	-	Continuing	Continuir	
• APAF: BA07: Line Item # F0150P: F-15 Post Production Support	2.403	1.122	3.253	-	3.253	3.039	2.583	2.61		Continuing		
APAF: BA06: Line Item # 000999: Initial Spares/Repair Parts (BP16)	20.813	24.785	61.961	-	61.961	58.263	37.805	38.51	2 -	Continuing	Continuir	

PE 0207134F: *F-15E Squadrons* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force			Date: February 2015
	3	(umber/Name) nitial Operational Test and

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

			FY 2016	FY 2016	FY 2016					Cost To	
Line Item	FY 2014	FY 2015	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost

Remarks

D. Acquisition Strategy

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.

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.

PE 0207134F: *F-15E Squadrons* Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	,	- , (umber/Name) nitial Operational Test and
000077	TE 02011041 11-10E Oquautons	Evaluation	miai Operational Test and

Product Developmen	nt (\$ in Mi	illions)		FY 2014		FY 2015		FY 2 Ba	2016 ise	FY 2	2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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-15 ADCP II Contract	SS/CPIF	Boeing : St Louis, MO	0.000	45.582	Nov 2013	69.240	Nov 2014	33.576	Nov 2015	-		33.576	7.226	155.624	-
F-15 ADCP II	Various	Various : Various,	0.000	5.634	Mar 2014	13.981	Mar 2015	10.210	Mar 2016	-		10.210	2.200	32.025	-
F-15 EPAWSS (Pre- MDAP)	TBD	TBD : TBD,	0.000	9.600	Jan 2014	-		-		-		-	-	9.600	-
		Subtotal	0.000	60.816		83.221		43.786		-		43.786	9.426	197.249	-

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.

FY14PB - Project Number 670131 includes ADCP II and EPAWSS only. All other programs funded under Project Number 676020.

FY15PB - Project Number 670131 includes ADCP II only. EPAWSS is now under PE 027171F, Project Number 676038.

FY16PB - Project Number 670131 includes ADCP II only. EPAWSS is moved in FY 16 from PE 027171F, Project Number 676038 to PE 027171F, Project Number 657108.

Support (\$ in Million	upport (\$ in Millions)					FY	2015	1	2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location Subtotal	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation		FY	2014	FY	2015	1	2016 ase		2016 CO	FY 2016 Total					
	Contract														Target

Test and Evaluation	Test and Evaluation (\$ in Millions)				2014	FY 2	2015		2016 ASE	1	2016 CO	Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-	-		-		-		-		-	-	-	-

PE 0207134F: F-15E Squadrons

Air Force

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

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 3600 / 7

PE 0207134F *I F-15E* Squadrons

670131 I Initial Operational Test and

Date: February 2015

Evaluation

Management Service	es (\$ in M	illions)		FY 2	2014	FY 2	2015	FY 2 Ba	2016 ise	FY 2		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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,	0.000	1.747	Sep 2014	1.129	Sep 2015	1.183	Sep 2016	-		1.183	-	4.059	-
		Subtotal	0.000	1.747		1.129		1.183		-		1.183	-	4.059	-

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.

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	62.563	84.350	44.969	-	44.969	9.426	201.308	-

Remarks

PE 0207134F: *F-15E Squadrons*

Air Force

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Exhibit R-4, RDT&E Schedule Profile: PB	2016 Air Force										Date:	Feb	orua	ary 2	015	
Appropriation/Budget Activity 3600 / 7			l-1 Progran E 0207134				lame)	(Projec 67013 [.] Evalua	1 <i>Ì In</i>					Test a	ind
	FY 2014	FY 2015	FY 2	016	FY	2017		FY 2	018		FY 20)19		-	Y 20)20
	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
ADCP II EMD				,					,			·	,		,	
F-15E DT																
F-15C DT																
FDE																
MS C (15 Sep 16)																
Production Decision (15 May 17)																
F-15E Installs																
F-15C Installs																

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
• • • • • • • • • • • • • • • • • • •	3	- , (umber/Name) nitial Operational Test and

Schedule Details

	Sta	art	En	d
Events	Quarter	Year	Quarter	Year
ADCP II EMD	2	2014	4	2017
F-15E DT	1	2016	3	2016
F-15C DT	3	2016	2	2017
FDE	3	2017	4	2017
MS C (15 Sep 16)	4	2016	4	2016
Production Decision (15 May 17)	3	2017	3	2017
F-15E Installs	3	2018	4	2020
F-15C Installs	3	2018	4	2020

PE 0207134F: *F-15E Squadrons*

Exhibit R-2A, RDT&E Project Ju	xhibit R-2A, RDT&E Project Justification: PB 2016 Air Force													
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) Project (N PE 0207134F / F-15E Squadrons 676020 / F						Number/Name) F-15			
COST (\$ in Millions)	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost						
676020: <i>F-15</i>	-	164.535	157.619	134.314	-	134.314	245.655	246.006	221.672	227.836	-	1,397.637		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

A. Mission Description and Budget Item Justification

These development efforts include F-15 Radar Enhancements Electronic Protection (EP) capabilities, Operational Flight Program (OFP) upgrades, Flight Testing, Infrared Search and Track (IRST), and Multifunctional Information Distribution System-Joint Technical Radio System (MIDS-JTRS).

The Radar Enhancements (EP) will upgrade the digital Active Electronic
Scanned Array (AESA) radar capabilities to counter sophisticated electronic
threats. Suite 7C introduces EP into the C-model fleet. Initial EP
capability for APG-82(V)1 equipped E model aircraft will take place in Suite 8E. Suite 9 will add additional EP capability to both the E- and C-model jets.

For the F-15 to maintain operational effectiveness, the program must continuously provide the platforms with improved capabilities. To accomplish this there is an ongoing 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 there will normally be 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.

Infrared Search and Track (IRST) system will provide air to air detection, tracking and ranging capability for F-15C/D in a radar-denied environment.

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 2014	FY 2015	FY 2016
Title: Operational Flight Program (OFP) Development Efforts	127.429	110.482	77.200
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 2014 Accomplishments: Completed Suite 7C (S7C) development and operational flight testing, conduct verification and validation of technical publications, prepare for delivery. Began integration of Sniper/Delta 0+ on the F-15C to meet critical PACOM requirements. Continued Suite 8E (S8E)development. Finished coding, conduct bench testing and begin flight testing of S8E. Completed integration of Alpha 2 Lite and begin integration of Joint-Air-to-Surface Standoff Missile-Extended Range (JASSM-ER) Universal Armament Interface (UAI)			

PE 0207134F: *F-15E Squadrons*

Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force		Date: Fe	ebruary 2015	j
Appropriation/Budget Activity 3600 / 7 R-1 Program Element (Number/Name) PE 0207134F / F-15E Squadrons	Project 676020 /	(Number/N / F-15	lame)	
B. Accomplishments/Planned Programs (\$ in Millions)	F	FY 2014	FY 2015	FY 2016
into the OFP. Continue Suite 9 (S9) development. Continued organic software support and Special Projects development continued funding support for all F-15 trainers. Continued Problem Reports (PR) and Deficiency Reports (DR) fixes.	fforts.			
FY 2015 Plans: Deliver S7C to the field. Continue S8E development & flight testing. Continue JASSM-ER development onto the F-15. Con S9 development. Continuation of organic software support and Special Projects development efforts. Continue funding sup all F-15 trainers. Ongoing Problem Reports (PR) and Deficiency Reports (DR) fixes.				
FY 2016 Plans: Finish integration of Sniper on the F-15C to meet critical PACOM requirements. Deliver S7C+ to the field. Continue S8E development. Complete S8E flight testing and accomplish S8E Validation and Verification. Integrate JASSM-ER training m into the S8E. Continue S9 development and integration of major line items; such as, B61-12 LEP, DTM II, PAD, & EPAWS. Additionally, MIDS-JTRS will be integrated into F-15 OFPs. Continuation of organic software support and Special Projects development efforts. Continue funding support for all F-15 trainers. Ongoing Problem Reports (PR) and Deficiency Report fixes.	S.			
Title: Flight Test		18.345	19.858	20.246
Description: Flight tested improvements initiated in prior years. Baselined infrastructure and personnel support for F-15 Developmental Test (DT) and Initial Operational Test & Evaluation (IOT&E) operations. Purchased long-lead test support and unique aircraft test instrumentation. This included technical and acquisition related studies.	assets			
FY 2014 Accomplishments: F-15 Flight Test Support provided prime contractor support cadre at Eglin and Nellis for DT/IOT&E support, avionics integral lab O&M, CTF O&M, and long-lead test unique equipment; i.e., program specific aircraft instrumentation, weapons instruments, weapons simulators, data reduction/handling equipment.				
FY 2015 Plans: F-15 Flight Test Support provides prime contractor support cadre at Eglin and Nellis for DT/IOT&E support, avionics integral lab O&M, CTF O&M, and long-lead test unique equipment; i.e., program specific aircraft instrumentation, weapons instruments, weapons simulators, data reduction/handling equipment.				
FY 2016 Plans: F-15 Flight Test Support provides prime contractor support cadre at Eglin and Nellis for DT/IOT&E support, avionics integral lab O&M, CTF O&M, and long-lead test unique equipment; i.e., program specific aircraft instrumentation, weapons instruments, weapons simulators, data reduction/handling equipment				
Title: F-15 Radar Enhancements		18.761	22.008	18.421

PE 0207134F: *F-15E Squadrons* Air Force

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				UNCLAS	SIFIED						
Exhibit R-2A, RDT&E Project Jus	tification: PB	2016 Air Fo	rce						Date: F	ebruary 2015	
Appropriation/Budget Activity 3600 / 7						nent (Numb 15E Squadro		Project 676020	t (Number/N 1 F-15	lame)	
B. Accomplishments/Planned Pro	ograms (\$ in N	<u>//illions)</u>							FY 2014	FY 2015	FY 2016
Description: Improvements to F-19	5 Radar Enhar	ncements (E	P). This incl	udes technic	al and acqu	isition related	l studies.				
FY 2014 Accomplishments: Continued implementation of EP into Began jammer development. Continued implements are series as a series of the continued in the cont				an radar inte	gration in su	pport of S9 I	EP developm	nent.			
FY 2015 Plans: Continue implementation of EP into	S8E & S9. C	ontinue jam	mer develop	ment. Contir	nue Special	Projects test	ng support.				
FY 2016 Plans: Continue implementation of EP into	S8E & S9. C	ontinue Spe	cial Projects	s testing supp	oort.						
Title: F-15 Infrared Search and Tra	ck (IRST) - FY	15 New Sta	rt						-	5.271	18.44 ⁻
objects by infrared radiation. The IRST complements other onbo capability complements the radar to system that searches for and detection of the complements: Not applicable	enhance surv	vivability and	l lethality aga	ainst air-to-a	ir threats, pr	ovides a pas	sive infrared	sensor			
FY 2015 Plans: Initiate technical and acquisition rel	ated studies.	Early acquis	ition plannin	ıg.							
FY 2016 Plans: Initiate technical and acquisition rel planning. EMD contract award late				required to	support EMI	O phase.					
				Accor	nplishment	s/Planned P	rograms Su	btotals	164.535	157.619	134.31
C. Other Program Funding Summ	nary (\$ in Milli	ons)									
Line Item • APAF: BA05: Line Item # F01500: F-15 Modification of In-Service Aircraft, PEs 0207130/0207134/0207445/080973	FY 2014 346.624	FY 2015 387.314	FY 2016 Base 644.336	FY 2016 OCO -	FY 2016 Total 644.336	FY 2017 476.060	FY 2018 489.257	FY 2019 530.457		Cost To Complete Continuing	

PE 0207134F: *F-15E Squadrons* Air Force

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Exhibit R-2A, RDT&E Project Justif	ication: PB	2016 Air Fo	rce						Date: Fel	bruary 2015	
Appropriation/Budget Activity					rogram Eler			, ,	Number/Na	ame)	
3600 / 7				PE 02	07134F <i>I F-1</i>	15E Squadro	ns	676020 <i>I</i>	F-15		
C. Other Program Funding Summa	ry (\$ in Milli	ons)									
			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	<u>Base</u>	<u>oco</u>	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• APAF: BA06: Line Item # 000999:	20.813	24.785	61.961	-	61.961	58.263	37.805	38.512	-	Continuing	Continuing
Initial Spares/Repair Parts (BP16)											
• APAF: BA07: Line Item # F0150P:	2.403	1.122	3.253	-	3.253	3.039	2.565	2.613	-	Continuing	Continuing
F-15 Post Production Support											
APAF: BA07: Line Item #	-	-	-	-	-	-	-	-	-	Continuing	Continuing
000071: Aircraft Replacement											
Support Equip (BP12)											

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.

PE 0207134F: *F-15E Squadrons*

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

Date: February 2015

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0207134F / F-15E Squadrons
676020 / F-15

FY 2016 FY 2016 FY 2016 **Product Development (\$ in Millions)** FY 2014 oco Total FY 2015 Base Contract Target Method Performing Prior Award Award Award Award **Cost To** Total Value of & Type **Cost Category Item Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract OFP Suite 7/8/9/10 SS/ Boeina: St. Louis. 0.000 101.468 Aug 2014 110.114 Aug 2015 71.263 Aug 2016 71.263 396.490 679.335 MO Development and Test Various OFP Suite 7/8/9/10 Development and Test Various Various: Various. 0.000 Various SS/ Boeing: St Louis, F-15 Radar Enhancement 0.000 43.823 Aug 2014 21.312 Aug 2015 18.063 Aug 2016 18.063 210.912 294.110 Various MO F-15 Radar Enhancement Various 0.000 Various: Various. Various F-15 Infrared Search and C/Various TBD:, 0.000 5.271 Aug 2015 18.447 Aug 2016 18.447 259.054 282.772 Track Multifunctional Information Distribution System-Joint SS/ Boeing: St. Louis, 0.000 5.200 Aug 2016 5.200 5.200 Technical Radio System Various MO (MIDS-JTRS) Subtotal 145.291 136.697 112.973 112.973 866.456 1,261.417 0.000

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 Million	ıs)			FY	2014	FY	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	_	-	-

Test and Evaluation	Test and Evaluation (\$ in Millions)						2015	FY 2 Ba		FY 2		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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/CPFF	Boeing : St. Louis, MO	0.000	18.345	Sep 2014	19.858	Sep 2015	20.246	Sep 2016	-		20.246	74.713	133.162	-

PE 0207134F: *F-15E Squadrons*

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

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

3600 *l* 7 PE 0207134F *l* F-15E Squadrons 676020 *l* F-15

Test and Evaluation	Test and Evaluation (\$ in Millions)					FY 2	2015	FY 2 Ba	2016 ise	FY 2	2016 CO	FY 2016 Total			
3			Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Flight Test Support	Various	Various : ,	0.000	-		-		-		-		-	-	-	-
		Subtotal	0.000	18.345		19.858		20.246		-		20.246	74.713	133.162	-

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 Servic	es (\$ in M	illions)		FY 2	2014	FY 2	2015		2016 ise		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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,	0.000	0.899	Sep 2014	1.064	Sep 2015	1.095	Sep 2016	-		1.095	-	3.058	-
		Subtotal	0.000	0.899		1.064		1.095		-		1.095	-	3.058	-

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.

	Prior Years	FY 2	2014	FY 2	015	FY 2 Ba		2016 CO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	164.535		157.619		134.314	-		134.314	941.169	1,397.637	-

Remarks

PE 0207134F: *F-15E Squadrons*

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force									Date: February 2015															
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207134F / F-15E Squadrons Project 676020									•	(Number/Name) / F-15									
	FY 2014 F			Y 201	15	5 FY 2016			FY 2017		FY		2018				FY 2019		FY		Y 2020			
	1	2 3	4	1	2 3	4	1	2 3	3 4	1	2	3 4	ı	1 2	3	4	1	2	3	4	1	2	3	4
OFP Continuous Development																								
OFP Suite 7C Fielding																								
OFP Suite 8E Fielding																								
OFP Suite 9 MS B																								
OFP Suite 9 EMD Award																								
OFP Suite 9 Fielding																								
Infrared Search and Track Development																								
Radar Enhancements Suite 8E Fielding																								
Infrared Search and Track Development MS B																								
Infrared Search and Track Development EMD Award																								

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 7	PE 0207134F <i>I F-15E</i> Squadrons	676020 <i>I F</i>	i-15

Schedule Details

	Sta	art	En	d
Events	Quarter	Year	Quarter	Year
OFP Continuous Development	1	2014	4	2019
OFP Suite 7C Fielding	1	2015	1	2015
OFP Suite 8E Fielding	3	2016	4	2016
OFP Suite 9 MS B	3	2015	3	2015
OFP Suite 9 EMD Award	4	2015	4	2015
OFP Suite 9 Fielding	1	2019	3	2020
Infrared Search and Track Development	2	2015	4	2019
Radar Enhancements Suite 8E Fielding	4	2016	4	2016
Infrared Search and Track Development MS B	3	2017	3	2017
Infrared Search and Track Development EMD Award	1	2018	1	2018

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