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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207134F: <i>F-15 PROGRAMS</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	200.966	194.831	192.677	-	192.677	354.193	361.441	369.328	320.172	Continuing	Continuing
670131: <i>Initial Operational Test and Evaluation</i>	200.966	90.206	92.555	-	92.555	182.755	170.920	164.333	82.000	Continuing	Continuing
676020: <i>F-15</i>	-	104.625	100.122	-	100.122	171.438	190.521	204.995	238.172	Continuing	Continuing

Note

The F-15 program, Project 670131 has one FY 2013 new start, the F-15 Eagle Passive/Active Warning Survivability System (EPAWSS).

A. Mission Description and Budget Item Justification

The F-15 is the most versatile fighter in the world today. The F-15A-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 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) and 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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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207134F: <i>F-15 PROGRAMS</i>
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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	222.677	207.531	167.510	-	167.510
Current President's Budget	200.966	194.831	192.677	-	192.677
Total Adjustments	-21.711	-12.700	25.167	-	25.167
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-12.700			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-5.652	-			
• Other Adjustments	-16.059	-	25.167	-	25.167

Change Summary Explanation

FY 2011: Congressional General Reductions -\$1.059 million, Congressional Directed Reductions -\$15.000 million and Small Business Innovative Research (SBIR) reductions -\$5.652 million

FY 2012: Funding decreases \$12.7 million in Congressional Directed Reductions

FY 2013: Funding increases \$25.167 million to for Advanced Display Core Processor II development and Eagle Passive/Active Warning Survivability System development.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207134F: F-15 PROGRAMS				PROJECT 670131: Initial Operational Test and Evaluation			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
670131: Initial Operational Test and Evaluation	200.966	90.206	92.555	-	92.555	182.755	170.920	164.333	82.000	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

The F-15 program, Project 670131 has one FY 2013 new start, the F-15 Eagle Passive/Active Warning Survivability System (EPAWSS).

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. Also, an AESA radar has the potential 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, which the older mission computers cannot be upgraded to meet. 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 2011	FY 2012	FY 2013
Title: Operational Flight Program (OFP) Development Efforts	47.484	-	-
Description: Provides OFP program software and hardware updates to integrate new capabilities on all F-15 aircraft.			
FY 2011 Accomplishments: Complete Suite 7E System Verification Review (SVR) #1 and #2. Accomplish Suite 7E Flight Test activity for Development Test and Force Development Evaluation. Accomplish S7E Validation/Verification & Aircrew/Maintenance publication and technical			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
orders production. Award Suite 8E Phase 1. Begin Suite 7C (formerly known as Suite 7M) development and complete PDR. Continuation of organic software support and Special Projects development efforts. FY 2012 Plans: Moved to Project 676020				
Title: Flight Test Description: 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. FY 2011 Accomplishments: Continuation of flight test activities at Eglin AFB, FL. FY 2012 Plans: Moved to Project 676020		16.648	-	-
Title: Tactical Electronic Warfare System (TEWS) Intermediate Support System (TISS) Technology Insertion Program (TTIP) Description: Development of Tactical Electronic Warfare System (TEWS) Intermediate Support System (TISS) Technology Insertion Program (TTIP). Replaces the TEWS TISS radio frequency interface on 36 stations. FY 2011 Accomplishments: Replaces the TEWS TISS radio frequency interface on 36 stations and provides 5 years of Engineering Support. Replaces the TEWS TISS radio frequency interface on 36 stations. FY 2012 Plans: N/A		1.386	-	-
Title: F-15E Radar Modernization Program (RMP) APG-82(V)1 Description: New AESA radar replacing legacy APG-70 radars on all F-15E aircraft. FY 2011 Accomplishments: Complete System Verification Review (SVR) #1.Complete Production Readiness Review. Complete installation/modification of 5 DT/OT test aircraft. Complete Flight Test Readiness Review. Begin DT&E. Complete MS C FY 2012 Plans:		76.462	33.353	1.35

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Complete DT&E and SVR#2. Begin IOT&E. Begin verification of publications. Complete modification of aircraft. FY 2013 Plans: Complete EMD phase of program				
Title: F-15C/D Infrared Search and Track system (IRST) Description: Develops IRST pod for use on F-15C/D with fast scanning air-to-air detection, tracking and ranging capability in the Infrared (IR) spectrum. FY 2011 Accomplishments: Risk reduction tech demo, test hardware development, OFP software maturation, and OGCs associated with concluding pre-MS B development. FY 2012 Plans: N/A FY 2013 Plans: Moved to Project 676020		30.399	-	-
Title: Eagle Passive/Active Warning Survivability System (EPAWSS) Description: Replacement of the existing F-15 self-protection, Tactical Electronic Warfare System (TEWS). FY 2011 Accomplishments: Not applicable FY 2012 Plans: Not applicable FY 2013 Plans: New Start FY13. Integration risk reduction, technology development; OFP risk reduction and system/sub-system design.		-	-	5.082
Title: 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) Description: New central computer for both F-15E and F-15C/D modernization. Additionally, this program provides a high resolution color display to replace the current F-15C/D Vertical Situation Display (VSD). FY 2011 Accomplishments:		28.587	56.853	86.122

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B. Accomplishments/Planned Programs (\$ in Millions)									FY 2011	FY 2012	FY 2013
Initiated Pre-EMD Technology Development phase with the design and production and initial production of ADCP II prototypes. Preliminary Subsystem Requirements development. Prototyping of initial boot software. FY 2012 Plans: Subsystem System Requirements Review (SRR), Preliminary Design Review (PDR), Aircraft SRR, Subsystem Critical Design Review (CDR). Continued software prototyping. Begin EMD. FY 2013 Plans: 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.											
Accomplishments/Planned Programs Subtotals									200.966	90.206	92.555
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE 0207130F, Aircraft Modificati...: PE 0207130F, Aircraft Modification (F-15A/B/C/D Squadrons, APAF) [BP 11]	184.439	137.010	62.660	0.000	62.660	196.999	189.745	201.894	132.844	Continuing	Continuing
• PE 0207134F, Aircraft Modificati...: PE 0207134F, Aircraft Modification (F-15E Squadrons, APAF [BP11])	118.243	117.825	85.045	0.000	85.045	249.533	270.211	320.222	333.185	Continuing	Continuing
• PE 0207445F, Aircraft Modificati...: PE 0207445F, Aircraft Modification (Fighter Tactical Data Link, APAF) [BP11]	0.171	0.000	0.000	0.000	0.000	4.377	5.821	5.946	5.964	Continuing	Continuing
• PE 0809731F, Aircraft Modificati...: PE 0809731F, Aircraft Modification (Training Support to Units, APAF) [BP11]	0.987	0.751	0.673	0.000	0.673	0.835	1.081	1.107	1.125	Continuing	Continuing
• PE 0207130F, Aircraft Support Eq...: PE 0207130F, Aircraft	2.983	1.545	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
Support Equipment (O&I) (F-15A/B/C/D Squadrons, APAF) [BP 12] • PE 0207134F, Aircraft Post Production: PE 0207134F, Aircraft Post Production Support (F-15E Squadrons, APAF) [BP 13]	17.502	2.076	2.363	0.000	2.363	2.403	2.479	2.540	2.581	Continuing	Continuing
• PE 0207130F, Aircraft Initial Spares and Repairs (F-15A/B/C/D Squadrons, APAF) [BP 16]	0.096	0.087	0.097	0.000	0.097	3.951	13.181	8.460	8.300	Continuing	Continuing
• PE 0207134F, Aircraft Initial Spares and Repairs (F-15E Squadrons, APAF) [BP 16]	6.458	17.863	22.012	0.000	22.012	21.253	16.137	15.765	19.887	Continuing	Continuing

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.

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207134F: <i>F-15 PROGRAMS</i>	PROJECT 670131: <i>Initial Operational Test and Evaluation</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207134F: <i>F-15 PROGRAMS</i>	PROJECT 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	2011	2	2013
ADCP II EMD	1	2011	3	2016
EPAWSS--FY13 New Start	1	2013	4	2017

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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-15 PROGRAMS				PROJECT 676020: F-15			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
676020: F-15	-	104.625	100.122	-	100.122	171.438	190.521	204.995	238.172	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note BPAC 676020 was created in the FY 2012 President's Budget to improve management of F-15 development. Funds that were moved from BPAC 670131 to BPAC 676020 were: FY 2012 \$117.7M, FY 2013 \$129.7M, FY 2014 \$145.4M, FY 2015 \$144.5M, and FY 2016 \$146.8M.											
A. Mission Description and Budget Item Justification This effort includes development of F-15E 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. For the F-15 to maintain operational effectiveness, the program must make a continuous effort to 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. 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 2011	FY 2012	FY 2013	
Title: Operational Flight Program (OFP) Development Efforts								-	41.970	75.341	
Description: Provides OFP program software and hardware updates to integrate new capabilities on all F-15 aircraft.											
FY 2011 Accomplishments: Funded in Project 670131											
FY 2012 Plans: Continue Suite 8E Phase 1 and initiate S8E Phase 2 planning and contracting actions. Continue 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.											
FY 2013 Plans:											

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012
Complete S8E requirements definition and initiate S8E Phase II 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.			
Title: Flight Test Description: 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. FY 2011 Accomplishments: Funded in Project 670131 FY 2012 Plans: 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. FY 2013 Plans: 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.		-	16.105
Title: F-15C/D BLOS Description: Provide F-15C/D beyond line of sight (BLOS) communications capability on all long term aircraft. FY 2011 Accomplishments: Not applicable FY 2012 Plans: New start FY 2012. Software development and qualification.		-	6.550
Title: F-15E Radar Enhancements Description: Improvements to F-15E Electronic Protection (EP) and other radar enhancements. FY 2011 Accomplishments:		-	40.000
			8.732

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B. Accomplishments/Planned Programs (\$ in Millions)									FY 2011	FY 2012	FY 2013
Not Applicable											
FY 2012 Plans: New start FY 2012. 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.											
Accomplishments/Planned Programs Subtotals									-	104.625	100.122
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE 0207130F, Aircraft Modificati...: PE 0207130F, Aircraft Modification (F-15A/B/C/D Squadrons, APAF) [BP 11]	184.439	137.010	62.660	0.000	62.660	196.999	1,894.000	201.894	132.844	Continuing	Continuing
• PE 0207134F, Aircraft Modificati...: PE 0207134F, Aircraft Modification (F-15E Squadrons, APAF [BP11])	118.243	117.825	85.045	0.000	85.045	249.533	270.211	320.222	333.185	Continuing	Continuing
• PE 0207445F, Aircraft Modificati...: PE 0207445F, Aircraft Modification (Fighter Tactical Data Link, APAF) [BP11]	0.171	0.000	0.000	0.000	0.000	4.377	5.821	5.946	5.964	Continuing	Continuing
• PE 0809731F, Aircraft Modificati...: PE 0809731F, Aircraft Modification (Training Support to Units, APAF) [BP11]	0.987	0.751	0.673	0.000	0.673	0.835	1.081	1.107	1.125	Continuing	Continuing
• PE 0207130F, Aircraft Support Eq...: PE 0207130F, Aircraft Support Equipment (O&I) (F-15A/ B/C/D Squadrons, APAF) [BP 12]	2.983	1.545	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE 0207134F, Aircraft Post Produ...: <i>PE 0207134F, Aircraft Post Production Support (F-15E Squadrons, APAF) [BP 13]</i>	17.502	2.076	2.363	0.000	2.363	2.403	2.479	2.540	2.581	Continuing	Continuing
• PE 0207130F, Aircraft Initial S...: <i>PE 0207130F, Aircraft Initial Spares and Repairs (F-15A/B/C/D Squadrons, APAF) [BP 16]</i>	0.096	0.086	0.097	0.000	0.097	3.951	13.181	8.460	8.300	Continuing	Continuing
• PE 0207134F, Aircraft Initial Sp...: <i>PE 0207134F, Aircraft Initial Spares and Repairs (F-15E Squadrons, APAF) [BP 16]</i>	6.458	17.863	22.012	0.000	22.012	21.253	16.137	15.765	19.887	Continuing	Continuing
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-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
OFP Continuous Development	1	2011	4	2017
F-15 C/D BLOS	1	2012	4	2012
Radar Enhancements	1	2012	4	2016