PE NUMBER: 0207134F PE TITLE: F-15E SQUADRONS

	Exhibit R-2, RDT&E Budget Item Justification									2006
	T ACTIVITY erational System Development			•	PE NUMBER AND 0207134F F-1 5		NS			
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
	Total Program Element (PE) Cost	127.112	143.572	125.062	105.903	234.214	159.959	117.187	Continuing	TBD
0131	Initial Operational Test and Evaluation	127.112	143.572	125.062	105.903	234.214	159.959	117.187	Continuing	TBD

The FY03 National Defense Authorization Act (NDAA) language directed T&E centers to charge only direct costs beginning in FY06; this resulted in a zero-balance transfer (ZBT) of funding over the FYDP from the customer accounts (for indirect test costs) to T&E support, PE 0605807F.

(U) 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 guarantee air superiority with an undefeated and unmatched aerial combat record. The F-15E retains 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 can deploy worldwide with minimal tanker support and arrive combat-ready. The F-15's avionics, armament, airframe and engines must continue to be upgraded to improve supportability and maintain its superiority against all threats. These threats include a new generation of aircraft possessing all-weather detection and kill capabilities as well as sophisticated "double-digit" anti-aircraft missile systems. Avionics updates (exploiting proven technological advances or demonstrating new technology) including radar modernization, precision registration systems implemented through data server storage technology, and a fully integrated electronic warfare suite hold the promise of providing expanded capability. All improvements are linked to an aircraft operational flight program update schedule which works to integrate new capabilities with the airframe. These updates will increase the offensive and defensive capability and survivability of the F-15. Furthermore, incorporation of corresponding spiral and/or phased technology/equipment improvements that include support equipment and training device upgrades improves performance, supportability, and LRU throughput.

The F-15E program, PE 0207134F, is assigned budget activity (BA) code 07 because this developmental work upgrades an existing weapons system.

B. Program Change Summary (\$ in Millions)

		FY 2005	FY 2006	FY 2007
(U)	Previous President's Budget	131.279	124.647	124.694
(U)	Current PBR/President's Budget	127.112	143.572	125.062
(U)	Total Adjustments	-4.167	18.925	
(U)	Congressional Program Reductions			
	Congressional Rescissions	-0.775	-2.075	
	Congressional Increases		21.000	
	Reprogrammings			
	SBIR/STTR Transfer	-3.392		
(U)	Significant Program Changes:			
	Funding (FY06):			

Exhibit R-2, RDT&E Budget Item Justification February 20						
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207134F F-15E SQUADRONS	•				
FY06 Congressional adds in support of BOL (\$9.500M) and A	ESA Demonstration (\$11.500M).					
		5 1 1 1 1 D 2 (DF 2227 22 75)				
	R-1 Shopping List - Item No. 131-2 of 131-9	Exhibit R-2 (PE 0207134F)				

	Exhibit R-2a, RDT&E Project Justification								February 2006	
BUDGET ACTIVITY 07 Operational System Development				0207134F F-15E SQUADRONS			PROJECT NUMBER AND TITLE 0131 Initial Operational Test and Evaluation			
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
0131	Initial Operational Test and Evaluation	127.112	143.572	125.062	105.903	234.214	159.959	117.187	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) 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 guarantee air superiority with an undefeated and unmatched aerial combat record. The F-15E retains 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 can deploy worldwide with minimal tanker support and arrive combat-ready. The F-15's avionics, armament, airframe and engines must continue to be upgraded to improve supportability and maintain its superiority against all threats. These threats include a new generation of aircraft possessing all-weather detection and kill capabilities as well as sophisticated "double-digit" anti-aircraft missile systems. Avionics updates (exploiting proven technological advances or demonstrating new technology) including radar modernization, precision registration systems implemented through data server storage technology, and a fully integrated electronic warfare suite hold the promise of providing expanded capability. All improvements are linked to an aircraft operational flight program update schedule which works to integrate new capabilities with the airframe. These updates will increase the offensive and defensive capability and survivability of the F-15. Furthermore, incorporation of corresponding spiral and/or phased technology/equipment improvements that include support equipment and training device upgrades improves performance, supportability, and LRU throughput.

The F-15E program, PE 0207134F, is assigned budget activity (BA) code 07 because this developmental work upgrades an existing weapons system.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
(U)	Operational Flight Program (OFP) development efforts.	78.598	62.922	70.392
(U)	Flight testing of improvements initiated in prior years.	13.164	16.580	22.670
(U)	Development of ADCP (formerly OFP effort).	6.350	2.000	
(U)	Development of Tactical Electronic Warfare System (TEWS) Intermediate Support System (TISS) Technology	6.426	7.170	2.800
	Insertion Program (TTIP)			
(U)	Development of Radar Warning Receiver Upgrade	3.211		
(U)	Mode S/5 IFF Development Efforts		17.200	16.000
(U)	F-15 BOL PVI		9.500	
(U)	F-15C/D Active Electronically Scanned Array (AESA) Radar Block Upgrade	14.935	24.900	
(U)	F-15E AESA Radar Block Upgrade	0.465	1.000	6.000
(U)	F-15 Avonics Replacement development efforts			4.900
(U)	Mission Support, Other Government Cost	3.963	2.300	2.300
(U)	Total Cost	127.112	143.572	125.062
Proj	ect 0131 R-1 Shopping List - Item No. 131-3 of 131-9		Exhibit R-2a	(PE 0207134F)

C. Other Program Funding Summary (\$ in Millions)		DRONS FY 2010	PROJECT NUME 0131 Initial O Evaluation FY 2011	BER AND TITLE Operational Te	est and
FY 2005 FY 2006 FY 2007 Actual Estimate Estimate AF RDT&E Other APPN Aircraft Procurement (3010F), Line Item 5, F-15E (PE0207134F) [BP 10] Aircraft Procurement (3010F), Line Item 27, F-15A-E (PEs 0207130F and 0207134F) [BP 11] Aircraft Procurement (3010F) F-15E (PE0804731F) General Skills Training [BP11]			FY 2011		
Actual Estimate Estimate AF RDT&E Other APPN Aircraft Procurement (3010F), Line Item 5, F-15E (PE0207134F) [BP 10] Aircraft Procurement (3010F), Line Item 27, F-15A-E (PEs 0207130F and 0207134F) [BP 11] Aircraft Procurement (3010F) F-15E (PE0804731F) General Skills Training [BP11]			FY 2011		
AF RDT&E Other APPN Aircraft Procurement (3010F), Line Item 5, F-15E			Estimate	Cost to Complete	Total Cost
Other APPN Aircraft Procurement (3010F), Line Item 5, F-15E					
Aircraft Procurement (3010F), Line Item 5, F-15E					
Line Item 5, F-15E 108.233 64.136 (PE0207134F) [BP 10] Aircraft Procurement (3010F), Line Item 27, F-15A-E (PEs 0207130F and 0207134F) [BP 11] Aircraft Procurement (3010F) F-15E (PE0804731F) General Skills Training [BP11]					
Aircraft Procurement (3010F), Line Item 27, F-15A-E (PEs 0207130F and 0207134F) [BP 11] Aircraft Procurement (3010F) F-15E (PE0804731F) General Skills Training [BP11]					172.369
Aircraft Procurement (3010F) F-15E (PE0804731F) General Skills Training [BP11]	5 41.351 90.384	158.200	142.124	Continuing	TBD
F-15E (PE0804731F) General Skills Training [BP11]					
♥					1.263
Aircraft Procurement (3010F)					
F-15 (PE0207434F) Link 16					
Support and Sustainment [BP11]					
Aircraft Procurement (3010F)					
F-15E (PE0809731F) Training 2.072 1.306 Support to Units [BP11]	5			Continuing	TBD
Aircraft Procurement (3010F), Line Item 66, F-15A-E [BP 13] 13.112 12.995 10.741	1.039 2.524	2.589	2.622	Continuing	TBD
Aircraft Procurement (3010F)					
F-15E (PE0207445F) Fighter 69.122 66.869 41.840)				177.831
Tactical Data Link [BP11]					
D. Acquisition Strategy Program is a continuation of effort which includes the development of all F-15 m analysis, and test.	nodels. Funds are executed orga	nically in support o	f equipment im	provement, stud	ly,
oject 0131 R-1 Shopping Lie					

E	xhibit R-	3, RDT&E F	Project Co	st Anal	ysis				D	ATE Feb i	ruary 20	06
07 Operational System Development 0207134F F-15E SQUADRONS 0131 Ini							NUMBER AND TITLE itial Operational Test and ion					
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	<u>Farget Value</u> of Contract
(U) Product Development OFP Suite 4/5/6/7 Development and Test	CPAF	Boeing, St Louis		78.598		62.922		70.392		Continuing	TBD	
Boeing (JHMCS A-D)	CPAF	Boeing, St Louis								0.000	0.000	
Smart Weapons Integration ADP(E)	CPAF CPAF									0.000 0.000	0.000 0.000	
ADCP(E) NGA (ALQ-135 Band 1.5)	CPAF FFP	Boeing, St Louis		6.350	Jan-05	2.000	Jan-06			0.000	8.350 0.000	
Link-16 Data Link TISS TTIP Boeing/Raytheon ECCM	CPAF CPFF CPAF			6.426	Dec-04	7.170	Dec-05	2.800	Dec-06	0.000 0.000 0.000 0.000	0.000 0.000 16.396 0.000	
F-15 C/D AESA Radar Block Upgrade	CPFF	Boeing, St Louis		14.935	Jun-05	24.900	Jun-06			0.000	39.835	
F-15 E AESA Radar Block Upgrade	CPFF	Boeing. St Louis		0.465	Jun-05	1.000	Jan-06	6.000	Jan-07	211.560	219.025	
Radar Warning Receiver Upgrade	TNM	Boeing, St Louis		3.211	Nov-05					0.000	3.211	
Mode S/5 IFF		Boeing, St. Louis				17.200	Feb-06	16.000	Jan-07	0.000	33.200	
F-15 BOL PVI		Boeing, St. Louis				9.500		4.000	D 06	10.006	9.500	
F-15 Avionics Replacement Subtotal Product Development Remarks:			0.000	109.985		124.692		4.900 100.092	Dec-06	10.086 Continuing	14.986 TBD	0.000
(U) Support (Msn Spt) Misc. Subtotal Support Remarks: (U) Test & Evaluation		WPAFB, OH	0.000	3.963 3.963		2.300 2.300		2.300 2.300		Continuing Continuing	TBD TBD	0.000
Boeing (Contractor Test Team)	FFP	Boeing, St Louis		6.942	Mar-05	10.155	Mar-06	13.200	Mar-07	Continuing	TBD	
Edwards	PO	Edwards AFB, CA		0.050	Mar-05	0.069	Mar-06	0.033	Mar-07	Continuing	TBD	
Eglin (Flt Test) Subtotal Test & Evaluation Remarks: (U) Management	PO	Eglin AFB, FL	0.000	6.172 13.164	Feb-05	6.356 16.580	Mar-06	9.437 22.670	Mar-07	Continuing Continuing	TBD TBD	0.000
Project 0131		R	-1 Shopping List	t - Item No.	131-5 of 13	1-9				Exhi	ibit R-3 (PE ()207134F)

	UNC	ASSIFIED						
Exhibit R-3,	DATE Febru	February 2006						
BUDGET ACTIVITY 07 Operational System Development			R AND TITLE F F-15E SQUADRONS	i je	PROJECT NUMBER AND TITLE 0131 Initial Operational Test and Evaluation			
Challe	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Subtotal Management Remarks:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
(U) Total Cost	0.000	127.112	143.572	125.062	Continuing	TBD	0.000	

Project 0131

R-1 Shopping List - Item No. 131-6 of 131-9

Exhibit R-3 (PE 0207134F)

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

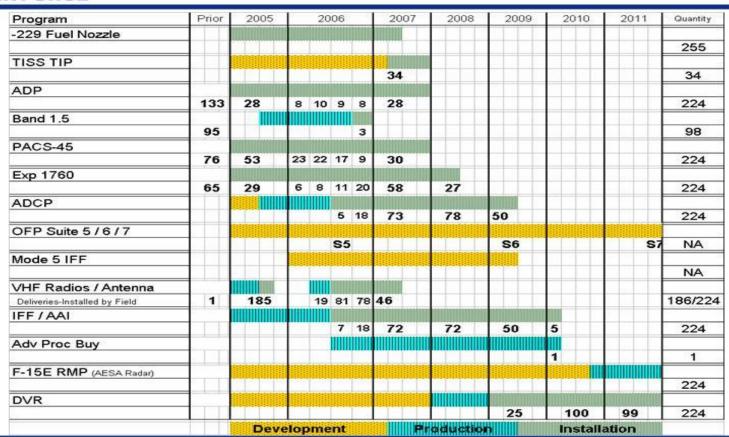
PE NUMBER AND TITLE
0207134F F-15E SQUADRONS

PROJECT NUMBER AND TITLE
0131 Initial Operational Test and
Evaluation



F-15E Modernization

U.S. AIR FORCE



Project 0131

R-1 Shopping List - Item No. 131-7 of 131-9

Exhibit R-4 (PE 0207134F)

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

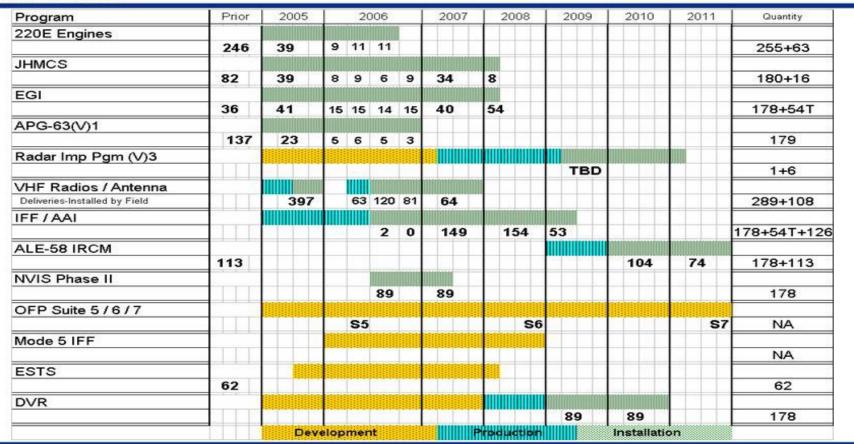
PE NUMBER AND TITLE
0207134F F-15E SQUADRONS

PROJECT NUMBER AND TITLE
0131 Initial Operational Test and
Evaluation



F-15A-D Modernization

U.S. AIR FORCE



Project 0131

R-1 Shopping List - Item No. 131-8 of 131-9

Exhibit R-4 (PE 0207134F)

Exhibit R-4a, RDT&E	DATE Febr u	DATE February 2006			
BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0207134F F-15E SQUADRONS	PROJECT NUMBER AND TITLE 0131 Initial Operational Test and Evaluation			
(U) Schedule Profile (U) OFP Suite 5E Flight Test Complete (U) OFP Suite 5MSIP Flight Test Complete (U) OFP Suite 5E & MSIP Fielding (U) OFP Suite 6 Phase 1 Start (U) OFP Suite 6 Phase 1 Complete (U) OFP Suite 6 Phase II Start (U) OFP Suite 6 Phase II Start (U) OFP Suite 6 Phase II Flight Test Start (U) ADCP EMD Flight Test Complete (U) ADCP Tech Roll Flight Test Start (U) ADCP Tech Roll Flight Test Complete (U) ADCP F3I complete (U) ADCP Tech Roll - Complete (U) Mode S/5 IFF - Start (U) F-15 C/D AESA Radar Block Upgrade Flight Test - Start (U) F-15 C/D AESA Radar Block Upgrade Flight Test - Complete (U) TISS Hardware/Software Integration - Complete (U) TISS System Compatibility Test - Complete (U) F-15 Avionics Replacement Start (U) RWR - Lab Test Start (U) RWR - Lab Test Complete	1Q 1Q 2Q 2Q		1Q 1Q 1Q 1Q 3Q		
Project 0131 R-1 Sh	opping List - Item No. 131-9 of 131-9	Exhibit	R-4a (PE 0207134F)		