PE NUMBER: 0207138F PE TITLE: F-22 SQUADRONS

	Exhib	DATE	February	2006						
	T ACTIVITY		E NUMBER AND		10					
U7 Op	07 Operational System Development					SQUADRON	15			
Cost (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Cost (\$ iii Millions)		Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
	Total Program Element (PE) Cost	318.369	373.124	584.290	645.556	563.901	614.296	604.380	Continuing	TBD
4785	F-22	318.369	373.124	584.290	620.560	326.994	203.724	202.257	Continuing	TBD
5209	Spiral 4 and 5	0.000	0.000	0.000	24.996	236.907	410.572	402.123	0.000	0.000

(U) A. Mission Description and Budget Item Justification

The F-22A Raptor represents the USAF's top priority for providing the Joint Force with air dominance, operational access, homeland and cruise missile defense for the next 20+ years. The F-22A is a first-of-a-kind multi-mission fighter aircraft that combines stealth, supercruise, advanced maneuverability and integrated avionics to make it the world's most capable combat aircraft. The F-22A is currently closing out the Engineering and Manufacturing Development (EMD) phase of acquisition and continuing the spiral-modernization phase. This exhibit includes the spiral modernization enhancements required to enable a more robust air-to-air and air-to-ground target engagement capability in the most demanding threat environments-day or night.

Spirals 2 and 3 continue the development of global strike capability. The development program enhances the air vehicle, engine, and training system capabilities to improve F-22A weapons, communications, and Intelligence Surveillance Reconnaissance (ISR) capabilities.

This program is in Budget Activity 7, Operational System Development, because the F-22A Program is developing the next-generation air dominance fighter for the USAF to counter emerging worldwide threats.

(U) B. Program Change Summary (\$ in Millions)

1		<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
ı	(U) Previous President's Budget	362.394	403.517	582.512
ı	(U) Current PBR/President's Budget	318.369	373.124	584.290
ı	(U) Total Adjustments	-44.025	-30.393	
ı	(U) Congressional Program Reductions	-0.262	-25.000	
ı	Congressional Rescissions		-5.393	
ı	Congressional Increases			
ı	Reprogrammings	-34.366		
ı	SBIR/STTR Transfer	-9.397		

(U) Significant Program Changes:

FY05 reductions for higher AF priorities, congressional recissions, and an internal F-22 reprogramming.

FY06 reduction is a \$25M congressional mark.

R-1 Shopping List - Item No. 133-2 of 133-7

Exhibit R-2 (PE 0207138F

	Exh	DATE	DATE February 2006									
BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND 0207138F F-22			PROJECT NUME 4785 F-22	T NUMBER AND TITLE -22			
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total		
	Cost (\$\psi\$ in Minions)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete			
4785	F-22	318.369	373.124	584.290	620.560	326.994	203.724	202.257	Continuing	TBD		
	Quantity of RDT&E Articles	0	1	(0	0	0	0				

(U) A. Mission Description and Budget Item Justification

The F-22A Raptor represents the USAF's top priority for providing the Joint Force with air dominance, operational access, homeland and cruise missile defense for the next 20+ years. The F-22A is a first-of-a-kind multi-mission fighter aircraft that combines stealth, supercruise, advanced maneuverability and integrated avionics to make it the world's most capable combat aircraft. The F-22A is currently closing out the Engineering and Manufacturing Development (EMD) phase of acquisition and continuing the spiral-modernization phase. This exhibit includes the spiral modernization enhancements required to enable a more robust air dominance air-to-air/Suppression/Destruction of Enemey Air Defense (SEAD/DEAD) and other air-toground target engagement capability in the most demanding threat environments-day or night.

Spirals 2 and 3 continue the development of global strike capability. The development program enhances the air vehicle, engine, and training system capabilities to improve F-22A weapons, communications, and Intelligence Surveillance Reconnaissance (ISR) capabilities.

This program is in Budget Activity 7, Operational System Development, because the F-22A Program is developing the next-generation air dominance fighter for the USAF to counter emerging worldwide threats.

(U)	B. Accomplishments/Planned Program (\$ in Millions)	FY 2005	FY 2006	FY 2007
(U)	Continue requirements definition and spiral development activities for planned hardware and software capability	230.447	213.319	361.671
	upgrades. (NSP)			
	Continue Spiral 2 to develop Global Strike Conops basic capabilities.			
	Continue Spiral 3 to develop Global Strike Conops enhanced capabilities.			
(U)	Continue Post-EMD System Engineering/Program Management Contract Support	32.937	35.752	41.030
(U)	Continue Air Vehicle Instrumentation support (Training and Test Instrumentation)	3.501	18.540	8.000
(U)	Continue Flight test and flight test support at Edwards AFB.	17.672	55.946	66.838
(U)	Continue Mission support of the SPO; travel, computer costs, misc contracts, etc.	7.885	10.567	10.751
(U)	Continue F-22A Reliability and Maintainability Maturation Program (RAMMP)		14.000	29.000
(U)	Replacement Test Aircraft (RTA) and Instrumentation	25.927	25.000	67.000
(U)	Total Cost	318.369	373.124	584.290

Project 4785 R-1 Shopping List - Item No. 133-3 of 133-7

Exhibit R-2a (PE 0207138F)

	Exhibit R-2a, RDT&E Project Justification									
	GET ACTIVITY Operational System Developme					February PROJECT NUMBER AND TITLE 4785 F-22				
(U)	C. Other Program Funding Sumi	mary (\$ in Millio	ons)							
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
		<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	Total Cost
(U)	AF RDT&E (PE 64239F)	211.815	75.117							24,086.648
(U)	PRTV II (6)									1,580.580
(U)	F-22A Squadrons Procurement (3010) (PE 0207138F)	95.187	78.489	262.906	300.218	285.885	170.679	398.246	Continuing	TBD
(U)	F-22A Squadrons Procurement (3080) (PE 027138F)	0.443	1.471	2.741	1.735	0.000	0.721	1.479	Continuing	TBD
(U)	Military Construction (PE 0604239F)	0.000	0.000	0.000	0.000	0.000	0.000		0.000	65.000
(U)	Military Construction (PE 0207219F)	0.000	0.000	0.000	0.000	0.000	0.000		0.000	96.018
(U)	Military Construction (PE 0207138F)	28.370	47.120	62.900	98.391	0.000	0.000	0.000	0.000	267.951
(U)	Aircraft Procurement (PE									
	0207219F) Advanced Tactical	4024.599	3763.848	2032.881	3197.146	2894.025	1694.514	0.000	0.000	34,099.816
	Fighter, P-1 Line Item #003**									
(U)	Munitions Procurement (PE 0207219F)	16.788	10.836	16.575	12.496	12.801	16.153	12.909	0.000	120.424
(U)	F-22A Tactical Data Link RDT&E (PE 27445F)	35.526	95.557	88.099	52.175	38.626	34.714		0.000	344.697
(U)	F-22A Adv Comm Systems Procurement (PE 27423F) **NOTE: Includes BP10, 11, 16, 1	9 and Advance E	Buy.				34.521	16.690	Continuing	TBD

(U) D. Acquisition Strategy

The Raptor Enhancement Development & Integration (REDI) contract is an Indefinite Delivery/Indefinite Quantity Ordering contract that maximizes flexibility to start, stop, accelerate and decelerate projects based on funding. The REDI contract was established to be more responsive to evolving war fighter requirements. The REDI contract allows the issuance of orders for the highest priority war fighter capabilities in operationally meaningful capability increments, requirements analysis, contractor cost estimates and studies, development and demonstration of capability enhancements, and unanticipated future war fighter requirements. Each spiral is broken into phases. Phase A is to initiate requirements analysis, Phase B is the design phase and Phases C,D,E are the development, integration and verification phase of a specific spiral development effort. Separate delivery orders will be issued for each phase of a spiral. These separate delivery orders at these predetermined breakpoints allow the spiral effort to be tailored to the technology maturity, available funding and capability priority during the life of the program.

Project 4785 R-1 Shopping List - Item No. 133-4 of 133-7

Exhibit R-2a (PE 0207138F)

	Exhibit R-3, RDT&E Project Cost Analysis February 2006												
_	GET ACTIVITY Operational System Development					JMBER ANI '138F F-2		ORONS		PROJECT 1 4785 F-2	T NUMBER AND TITLE -22		
	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	Target Value of Contract
(U)	Product Development Spiral development activities	Cost Plus		284.859	230.447	Dec-04	213.319	Dec-05	361.671	Dec-06	Continuing	TBD	
	Air Vehicle Instrumentation support (Training and Test Instrumentation)	Cost Plus		0.250	3.501	Nov-04	18.540	Mar-06	8.000	Jan-07	Continuing	TBD	
	System Engineering / Program Management	Cost Plus		67.411	32.937	Dec-04	35.752	Dec-05	41.030	Dec-06	Continuing	TBD	
	F/A-22 Reliability and Maintainability Maturation Program (RAMMP)	Cost Plus					14.000	Jan-06	29.000	Jan-07	Continuing	TBD	
	Not Applicable Subtotal Product Development Remarks:			352.520	266.885		281.611		439.701		Continuing	0.000 TBD	0.000
	<u>Support</u> Support Contracts In House Support Not Applicable	Various		6.233	7.885		10.567		10.751		Continuing Continuing	TBD TBD 0.000	
	Not Applicable Subtotal Support Remarks:			6.233	7.885		10.567		10.751		Continuing	TBD	0.000
(U)	Test & Evaluation AFFTC and Contractor	Various	Edwards AFB,		17.672	Apr-05	55.946	Nov-05	66.838	Nov-06	Continuing	TBD	
	Replacement Test Aircraft (RTA) and Instrumentation	Fixed Price	CH	9.870	25.927	Jan-06	25.000	Feb-06	67.000	Jan-07	Continuing	TBD	
	Not Applicable Subtotal Test & Evaluation Remarks:			9.870	43.599		80.946		133.838		Continuing	0.000 TBD	0.000
	Management Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U)	Remarks: Total Cost			368.623	318.369		373.124		584.290		Continuing	TBD	0.000
Pro	ject 4785		R	-1 Shopping Lis	t - Item No.	133-5 of 13	3-7				Exh	ibit R-3 (PE (0207138F)

DATE **Exhibit R-4, RDT&E Schedule Profile** February 2006 PROJECT NUMBER AND TITLE BUDGET ACTIVITY PE NUMBER AND TITLE 07 Operational System Development 0207138F F-22 SQUADRONS 4785 F-22 FY 2009 2010 2011 2012 2013 2014 2015 2016 FOT&E Spiral 2 E- Retrofit Plannng SDR I PDR CDR F-22A Rt Test Spiral 3A 5 07 Phase A Regimts Analysis (Phase B) Design (Ph C) - Code, Test & Integ Phase F AIL / Rail Integ & Cert CDR PRR SDR PDR Spiral 3B (Phase B) Design PhE AlURall Integ & Cert Modernization Schedule as of 3 Jan 06 Project 4785 R-1 Shopping List - Item No. 133-6 of 133-7 Exhibit R-4 (PE 0207138F)

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PE NUMBER AND TITLE 0207138F F-22 SQUADRONS		R AND TITLE								
<u>FY 2005</u> 2Q	FY 2006 1Q 1Q 1Q 1Q 30	FY 2007								
	3Q	1Q 2Q 4Q								
ng List - Item No. 133-7 of 133-7	547.0	-4a (PE 0207138F)								
	PE NUMBER AND TITLE 0207138F F-22 SQUADRONS FY 2005 2Q	PE NUMBER AND TITLE 0207138F F-22 SQUADRONS PY 2006 FY 2005 2Q 1Q 1Q 1Q 1Q 3Q 3Q								