

**UNCLASSIFIED**

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

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207138F F-22 SQUADRONS</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	341.789	472.475	743.593	666.848	510.330	417.268	520.979	495.848	Continuing	TBD
4785 F-22	341.789	472.475	743.593	666.848	510.330	417.268	520.979	495.848	Continuing	TBD

**(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 Engineering and Manufacturing Development (EMD) phase of F-22 acquisition closed out, and is now continuing the incremental-modernization phase. This exhibit completes the baseline capability planned for the F-22A and includes the modernization upgrades that further enhance the F-22A 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)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	373.124	584.290	645.556	563.901
(U) Current PBR/President's Budget	341.789	472.475	743.593	666.848
(U) Total Adjustments	-31.335	111.815		
(U) Congressional Program Reductions		-110.000		
Congressional Rescissions	-0.011	-1.815		
Congressional Increases				
Reprogrammings	-21.154			
SBIR/STTR Transfer	-10.170			

**(U) Significant Program Changes:**

FY07 Congressional Mark of negative \$110M

FY08 increases are due to the Aircraft Structural Integrity Program (ASIP)(a New Start) and an additional requirement on F-22 test engines.

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**Exhibit R-2a, RDT&E Project Justification**

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BUDGET ACTIVITY <b>07 Operational System Development</b>					PE NUMBER AND TITLE <b>0207138F F-22 SQUADRONS</b>			PROJECT NUMBER AND TITLE <b>4785 F-22</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4785 F-22	341.789	472.475	743.593	666.848	510.330	417.268	520.979	495.848	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

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**(U) B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue requirements definition and increment development activities for planned hardware and software capability upgrades. (NSP)	170.961	314.474	422.847	456.126
--Continue Increment 2 to develop Global Strike Conops basic capabilities.				
--Continue Increment 3 to develop Global Strike Conops enhanced capabilities.				
(U) Continue Post-EMD System Engineering/Program Management Contract Support	8.179	16.760	17.469	18.699
(U) Continue Air Vehicle Instrumentation support (Training and Test Instrumentation)	15.189	8.000	17.300	2.600
(U) Continue Flight test and flight test support	49.446	96.690	159.975	120.811
(U) Continue Mission support of the SPO; travel, computer costs, misc contracts, etc.	10.108	10.751	10.945	11.142
(U) Continue F-22A Reliability and Maintainability Maturation Program (RAMMP)	13.931	25.800	38.000	18.000
(U) Initiate Aircraft Structural Integrity Program (ASIP)			38.930	11.860
(U) Replacement Test Aircraft (RTA) and Instrumentation	73.975	0.000	38.127	27.610
(U) Total Cost	341.789	472.475	743.593	666.848

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) AF RDT&E (PE 64239F)	71.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24,295.158
(U) PRTV II (6)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1,580.580
(U) F-22A Squadrons Procurement (3010) (PE 0207138F)*	100.116	188.537	396.402	475.752	421.442	545.565	434.013	425.968	Continuing	TBD
(U) F-22A Squadrons Procurement (3080) (PE 027138F)	1.427	2.727	4.285	0.000	1.237	1.499	2.236	1.559	Continuing	TBD
(U) Military Construction (PE 0604239F)	0.000	0.000	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	0.000	0.000	96.018
(U) Military Construction (PE 0207138F)	47.951	62.900	70.180	197.800	26.500	0.000	0.000	0.000	0.000	443.371
(U) Aircraft Procurement (PE 0207219F) Advanced Tactical Fighter, P-1 Line Item #003**	3678.331	3433.079	3614.715	3708.927	47.892	48.804	1.942	1.938	Continuing	TBD
(U) Munitions Procurement (PE 0207219F)	11.183	16.508	12.659	12.973	16.355	13.046	13.307	13.573	Continuing	TBD
(U) Tactical Data Link RDT&E (PE 27445F)***	115.818	112.755	39.545	74.312	91.577	0.000	0.000	0.000	135.373	TBD

\* NOTE: Includes BP10, 11, 12, 16, 19 (Depot Activation)

\*\* NOTE: Includes BP10, 11, 19 and Advance Buy.

\*\*\*NOTE: F-22A total budget is subset of 27445F TDL budget

**(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 as required. 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 increment

**Exhibit R-2a, RDT&E Project Justification**

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is broken into phases. Phase A is to initiate requirements analysis, Phase B is the design phase and Phases C, D, and E are the development, integration and verification phase of a specific incremental development effort. Separate delivery orders will be issued for each phase of an increment. These separate delivery orders at these predetermined breakpoints allow the modernization program to be tailored to the technology maturity, available funding and capability priority during the life of the program.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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BUDGET ACTIVITY										PE NUMBER AND TITLE		PROJECT NUMBER AND TITLE			
<b>07 Operational System Development</b>										<b>0207138F F-22 SQUADRONS</b>		<b>4785 F-22</b>			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
<b>(U) Product Development</b>															
Increment development activities	Cost Plus		575.556	170.961	Dec-05	314.474	Dec-06	422.847	Dec-07	456.126	Dec-08	Continuing	TBD		
Air Vehicle Instrumentation support (Training and Test Instrumentation)	Cost Plus		3.601	15.189	May-06	8.000	Oct-06	17.300	Oct-07	2.600	Nov-08	Continuing	TBD		
System Engineering / Program Management	Cost Plus		100.188	8.179	Dec-05	16.760	Dec-06	17.469	Dec-07	18.699	Dec-08	Continuing	TBD		
F-22A Reliability and Maintainability Maturation Program (RAMMP)	Cost Plus			13.931	Apr-06	25.800	Dec-06	38.000	Dec-07	18.000	Dec-08	Continuing	TBD		
Aircraft Structural Integrity Program (ASIP)	Cost Plus							38.930	Dec-07	11.860	Dec-08	Continuing	TBD		
Not Applicable													0.000		
Subtotal Product Development			679.345	208.260		365.034		534.546		507.285		Continuing	TBD	0.000	
Remarks:															
<b>(U) Support</b>															
Support Contracts	Various		13.439	10.108		10.751		10.945		11.142		Continuing	TBD		
In House Support												Continuing	TBD		
Not Applicable													0.000		
Subtotal Support			13.439	10.108		10.751		10.945		11.142		Continuing	TBD	0.000	
Remarks:															
<b>(U) Test &amp; Evaluation</b>															
AFFTC and Contractor	Various	Edwards AFB, CA	18.272	49.446	Nov-05	96.690	Oct-06	159.975	Nov-07	120.811	Nov-08	Continuing	TBD		
Replacement Test Aircraft (RTA) and Instrumentation	Fixed Price		35.697	73.975	Feb-06	0.000		38.127	Dec-07	27.610	Dec-08	Continuing	TBD		
Not Applicable													0.000		
Subtotal Test & Evaluation			53.969	123.421		96.690		198.102		148.421		Continuing	TBD	0.000	
Remarks:															
<b>(U) Management</b>															
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:															
<b>(U) Total Cost</b>			746.753	341.789		472.475		743.593		666.848		Continuing	TBD	0.000	

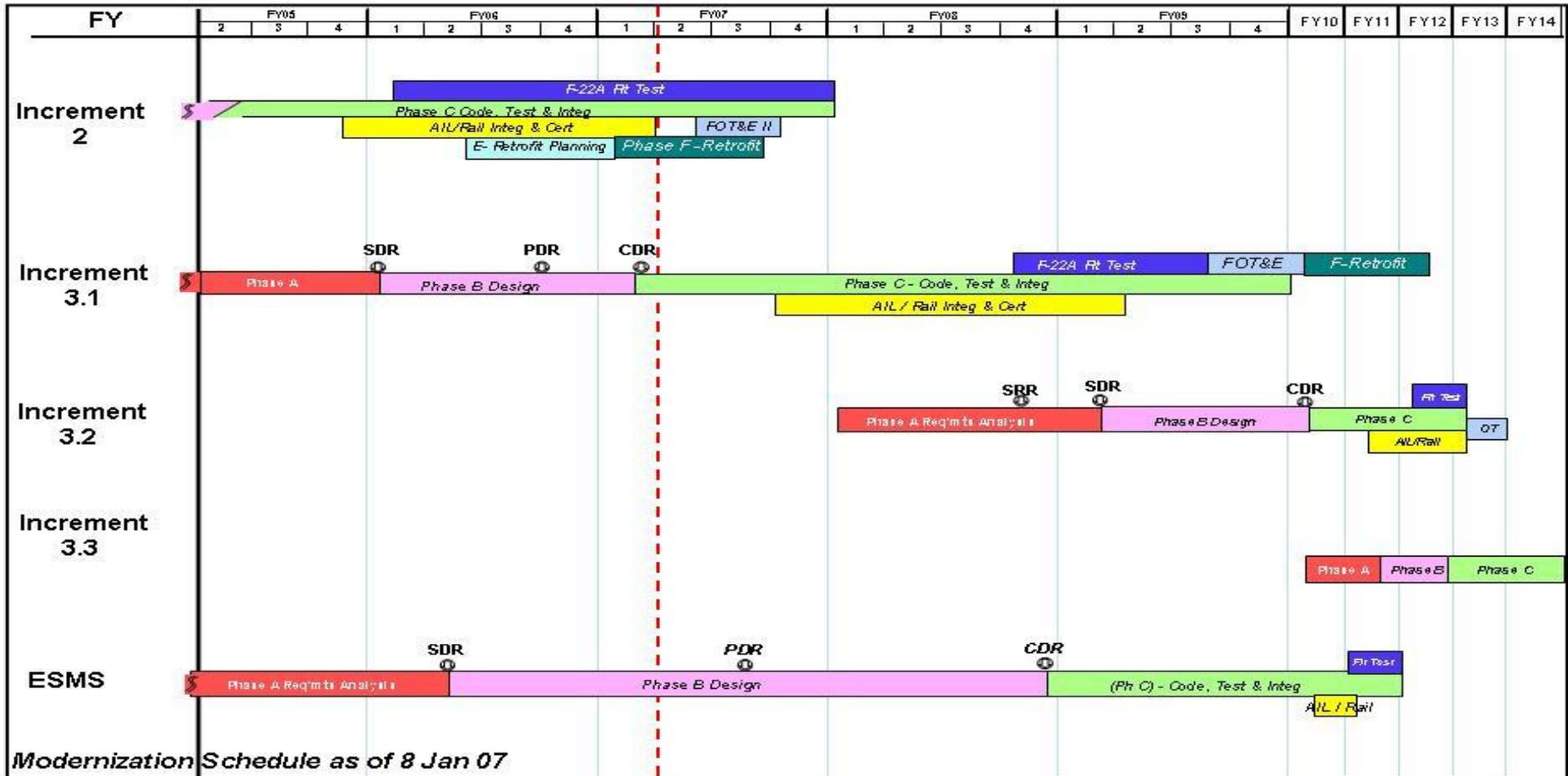
Exhibit R-4, RDT&E Schedule Profile

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2007</b>
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	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) <b><u>Schedule Profile</u></b>				
(U) Complete Increment 2 Phase C, D, &E (Development, Integration & Test)			1Q	
(U) Complete Increment 3.1 Phase A (Requirements Analysis)	1Q			
(U) --Increment 3.1 SDR	1Q			
(U) Initiate Increment 3.1 Phase B (Design)	1Q			
(U) --Increment 3.1 PDR	3Q			
(U) --Increment 3.1 CDR		1Q		
(U) Initiate Increment 3.2 Phase A (Requirements Analysis)			1Q	
(U) --Increment 3.2 SRR			4Q	
(U) --Increment 3.2 SDR				1Q
(U) Complete ESMS Phase A (Requirements Analysis)	2Q			
(U) --ESMS SDR	2Q			
(U) Initiate Enhanced Stores Management System (ESMS) Phase B (Design)	2Q			
(U) --ESMS PDR		3Q		
(U) --ESMS CDR			4Q	