

UNCLASSIFIED

PE NUMBER: 0604239F
 PE TITLE: F-22 EMD

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604239F F-22 EMD
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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	71.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24,083.237
4069 Advanced Tactical Fighter FSD	71.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24,083.237

(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.

This program is in Budget Activity 5, System Development and Demonstration, 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	75.117	0.000		
(U) Current PBR/President's Budget	71.818	0.000		
(U) Total Adjustments	-3.299			
(U) Congressional Program Reductions	-1.002			
Congressional Rescissions	0.000			
Congressional Increases				
Reprogrammings	-0.186			
SBIR/STTR Transfer	-2.111			
(U) <u>Significant Program Changes:</u>				
None				

Exhibit R-2a, RDT&E Project Justification

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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
4069 Advanced Tactical Fighter FSD	71.818	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24,083.237
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

* Total Cost includes \$3,779,811,000 of Demonstration and Validation funding prior to FY 1992 funded in PE 0603230F.

(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.

This program is in Budget Activity 5, System Development and Demonstration, 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)

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Air Vehicle	44.710			
- Completed full-scale airframe structural fatigue testing and analysis (NSP)				
- Continue structural certification analysis activities. (NSP)				
- Completed EMD flight test and flight test support. (NSP)				
- Completed life extension NRE (early aircraft getting modified to get "full life"). (NSP)				
- Initiated and completed technical support for Force Development Evaluation and Follow-on Operational Test and Evaluation (NSP)				
(U) Avionics	23.050			
- Completed Avionics Integration Lab Block 3.1.3 Integration. (NSP)				
- Completed DMS redesign, requalification and retesting activities. (NSP)				
- Complete EMD OFP development and testing. (NSP) - Initiated and completed technical support for Force Development Evaluation and Follow-on Operational Test and Evaluation (NSP)				
(U) Engine	2.200			
- Completed support and test of flight test engines (25 total). (NSP)				
(U) Other Government Cost	1.858			
- Complete flight test and flight test support at Edwards AFB.				
- Mission support of the SPO; travel, computer costs, misc contracts, etc.				
(U) Total Cost	71.818	0.000	0.000	0.000

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Exhibit R-2a, RDT&E Project Justification

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PE NUMBER AND TITLE

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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) F/A-22 Squadrons RDT&E (PE 0207138F)*	341.789	472.475	743.593	666.848	510.330	417.268	520.979	495.848	Continuing	TBD
(U) F/A-22 Squadrons (3010) Procurement (PE 0207138F)	78.147	188.537	396.402	475.752	421.442	545.565	434.013	425.968	Continuing	TBD
(U) F/A-22 Squadrons (3080) Procurement (PE 0207138F)	1.427	2.727	4.285	0.000	1.237	1.499	2.236	1.559	Continuing	TBD
(U) Military Construction (PE 0207138F)	47.951	62.900	70.180	197.800	26.500	0.000			0.000	457.160
(U) Aircraft Procurement (PE 0207219F) Advanced Tactical Fighter, P-1 Line Item #003**	3686.391	3433.079	3614.765	3708.927	47.892	48.804	1.942	1.938	0.000	34,532.40 0
(U) Munitions Procurement (PE 0207219F)	11.183	16.508	12.659	12.973	16.355	13.046	13.307	13.573	0.000	120.424
(U) F/A-22 Tactical Data Link RDT&E (PE 27445F)	91.414	88.099	51.870	72.333	90.460	0.000				394.176

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

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

(U) D. Acquisition Strategy

The EMD contract is Cost Plus Award Fee with Lockheed Martin Aeronautical Systems (LMAS) to produce the F-22A air vehicle and Pratt & Whitney (P&W) to produce the F119 engines. The engines are provided to LMAS as GFE.

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Exhibit R-3, RDT&E Project Cost Analysis

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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & 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>
<u>(U) Product Development</u> Lockheed (Air Veh)	C/CPAF	Lockheed Martin, Marietta, GA	16,425.368	65.399	Aug-91							0.000	16,490.767	14,727.198
Pratt & Whitney	C/CPFF	Pratt & Whitney, Hartford, CT	2,501.797									0.000	0.000	2,388.171
GFE	Various		66.153									0.000	66.153	
Subtotal Product Development			16,493.521	65.399		0.000		0.000		0.000		0.000	16,556.920	17,115.369
Remarks:														
<u>(U) Support</u> Mission Support	Various		173.997	0.000								0.000	173.997	
Subtotal Support			173.997	0.000		0.000		0.000		0.000		0.000	173.997	0.000
Remarks:														
<u>(U) Test & Evaluation</u> AEDC	PO	Arnold AFB, TN	158.000									0.000	158.000	
AFFTC	PO	Edwards AFB, CA	780.160									0.000	780.160	
All Other Tests	Various		125.131	6.419		0.000						0.000	131.550	
Not Applicable												0.000	0.000	
Subtotal Test & Evaluation			1,063.291	6.419		0.000		0.000		0.000		0.000	1,069.710	0.000
Remarks:														
<u>(U) Management</u> Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
<u>(U) Total Cost</u>			17,730.809	71.818		0.000		0.000		0.000		0.000	17,800.627	17,115.369

NOTE: Total program cost for Engineering and Manufacturing Development only. Does not include \$3,779,811,000 of Demonstration and Validation funding prior to FY92.

Exhibit R-4, RDT&E Schedule Profile

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Program Overview (FY08 BES)

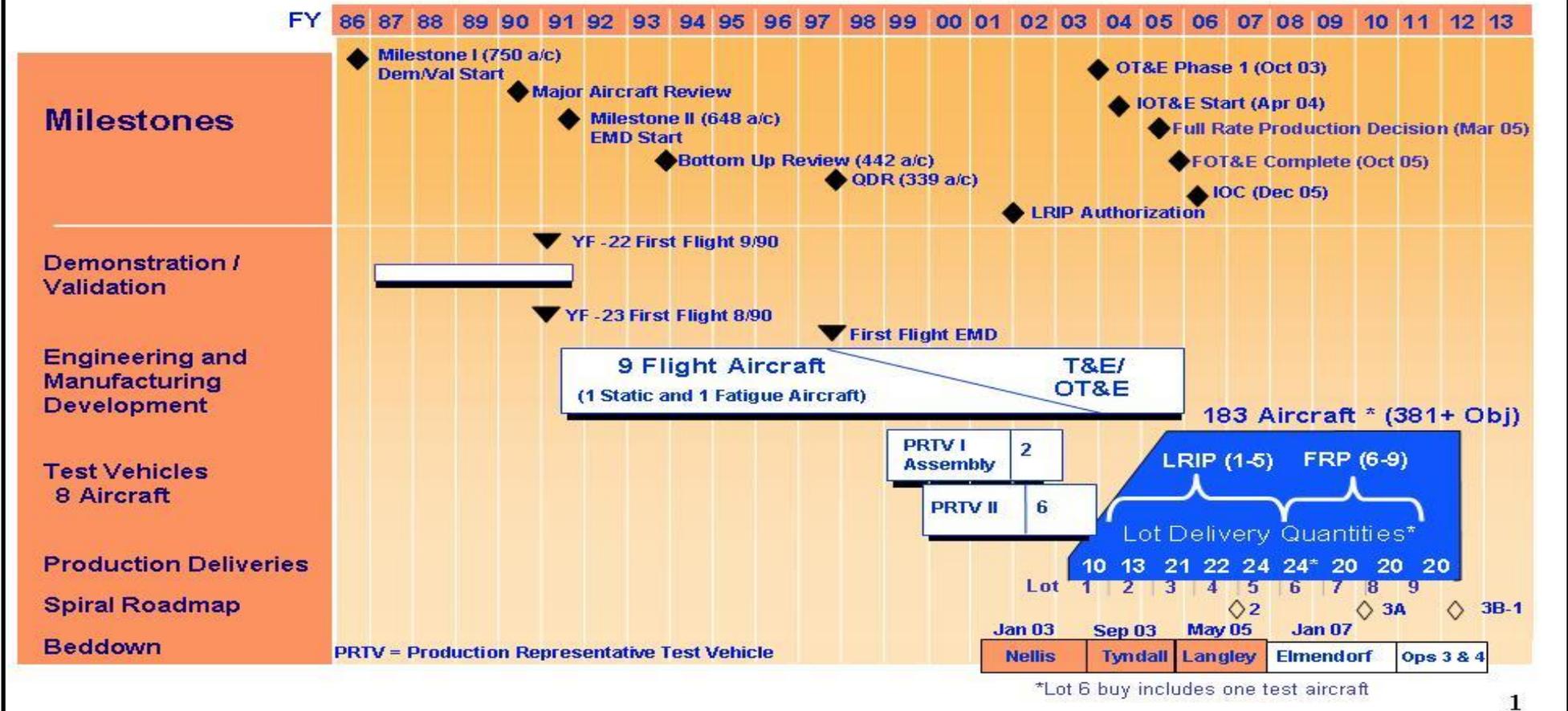


Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

FY 2006

FY 2007

FY 2008

FY 2009

(U) IOT&E Complete

(U) FDE Start

(U) FDE Complete

1Q

(U) FOT&E Start

(U) FOT&E Complete

1Q