

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	579.710	569.345	576.330	0.000	576.330	555.208	467.944	454.036	677.382	Continuing	Continuing
674785: F-22	579.710	569.345	576.330	0.000	576.330	555.208	467.944	454.036	677.382	Continuing	Continuing
A. Mission Description and Budget Item Justification											
The F-22 Raptor represents the USAF's top priority for providing the Joint Force with air dominance, operational access, and homeland and cruise missile defense for the next 20+ years. The F-22 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 is complete. The program is now continuing the pre-planned modernization effort through incremental development phases that enhance the F-22 Global Strike capability.											
The development program enhances the air vehicle, engine, and training system to improve/enhance F-22 weapons, communications, and Intelligence Surveillance Reconnaissance (ISR) capabilities.											
This program is in Budget Activity 7, Operational System Development, because the F-22 program is developing the next-generation air dominance fighter for the USAF to counter emerging worldwide threats.											
B. Program Change Summary (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Previous President's Budget	605.659	569.345	0.000	0.000	0.000						
Current President's Budget	579.710	569.345	576.330	0.000	576.330						
Total Adjustments	-25.949	0.000	576.330	0.000	576.330						
• Congressional General Reductions		0.000									
• Congressional Directed Reductions		0.000									
• Congressional Rescissions	0.000	0.000									
• Congressional Adds		0.000									
• Congressional Directed Transfers		0.000									
• Reprogrammings	0.000	0.000									
• SBIR/STTR Transfer	0.000	0.000									
• Other Adjustments	-25.949	0.000	576.330	0.000	576.330						

UNCLASSIFIED

R-1 Line Item #134

Page 1 of 15

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010
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<p><u>Change Summary Explanation</u></p> <p>Note 1: The FY2010 President's Budget submittal did not reflect FY2011 through FY2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.</p> <p>Note 2: In FY 2009, \$25.9M decrease in funding due to higher Air Force priorities</p>		

UNCLASSIFIED

R-1 Line Item #134

Page 2 of 15

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS				PROJECT 674785: F-22			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
674785: F-22	579.710	569.345	576.330	0.000	576.330	555.208	467.944	454.036	677.382	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
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 Enemy 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.											
Prior to FY08, the Aircraft Structural Integrity Program (ASIP) was included as a necessary expense to Increment 2 (Drop 1) and 3 (Drops 2 and 3). Due to increased scope in FY08, this effort is now its own line item below.											
All documentation prior to FY08 uses the term "spiral." In accordance with current policy guidance, the new terminology is increment.											
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.											
B. Accomplishments/Planned Program (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
MAJOR THRUST: Continue requirements definition and increment development activities for planned hardware and software capability upgrades.	392.845	411.964	393.409	0.000	393.409						
-Continue Increment 3 to develop Global Strike Conops e...											

UNCLASSIFIED

R-1 Line Item #134

Page 3 of 15

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS		PROJECT 674785: F-22		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: In FY 2009: Software Only Updates - Candidate Definition of the Increment 3.2 Accelerated candidates will be completed, preparing the program to progress into the Requirements Development phase. Candidates that will continue to be developed as part of the Increment 3.2 Accelerated program are selected at the Capabilities Requirements Review. Design, coding, test and integration of the Update 3 software sustainment OFP continues. Increment 3.1 - Integration and certification testing will continue in the Raptor Integration Lab (RAIL) and the Avionics Integration Lab (AIL). Flight test of the Increment 3.1 capabilities will also begin and continue throughout the year. ESMS - F-22 Enhanced Stores Management System (ESMS) software coding and testing will continue along with hardware design and initial Durability Life Testing on the hardware. The program Critical Design Review will also be conducted during this time. Increment 3.2 - Candidate Definition for the Increment 3.2 capabilities continues. Candidates that will continue to be developed as part of the Increment 3.2 program are selected at the Capabilities Requirements Review.						
FY 2010 Plans: In FY 2010: Software Only Updates - Requirements Development will begin, where operational requirements are translated into technical requirements. A Systems Requirements Review and external interface freeze are scheduled to occur during this time. Raptor Integration Lab (RAIL) and the Avionics Integration Lab (AIL) testing, as well as flight test, on the Update 3 software sustainment OFP begins and is conducted throughout the year. Increment 3.1 - Integration and certification testing in the Raptor Integration Lab (RAIL) and the Avionics Integration Lab (AIL) will be completed. Developmental flight test of the Increment 3.1 capabilities will also be completed. ESMS - All software coding, integration and testing will be completed. Hardware Durability Life Testing will be completed and flight worthy modules to support flight testing will be delivered. Increment 3.2 - Candidate Definition is completed and the Requirements Development phase of the Increment 3.2 program will begin. A Systems Requirements Review is scheduled to be conducted during this time.						

UNCLASSIFIED

R-1 Line Item #134

Page 4 of 15

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS		PROJECT 674785: F-22		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: Software Only Updates - Requirements Development of Increment 3.2 Accelerated will be completed and Detailed Design of the capabilities hardware and software will begin. A System Design Review is scheduled at the end of Requirements Development and Preliminary Design Review and Critical Design Review are scheduled during the Detailed Design phase. Preliminary work to begin preparing lab and test facilities for Development, Integration, and test will also begin. Flight test on the Update 3 software sustainment OFP release is completed. FOT&E will be conducted on Update 3 and it will be released to the field. ESMS - Sub-system integration will be conducted and completed in the Avionics Integration Lab (AIL). Flight test of the ESMS sub-system will also be performed and scheduled to be completed as well. Increment 3.2 - Requirements Development of Increment 3.2 will be completed and Detailed Design of the capabilities hardware and software will begin. A System Design Review is scheduled at the end of Requirements Development and a Preliminary Design Review is scheduled during the Detailed Design phase.						
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Continue System Engineering/Program Management Support FY 2009 Accomplishments: In FY 2009: Provides for F-22 program wide planning and execution comprised of, but not limited to, the following: requirements identification, schedule analysis and integration, cost estimating data, and systems engineering process management. FY 2010 Plans: In FY 2010: Same as prior year. FY 2011 Base Plans: In FY 2011: Same as prior year.		14.214	18.100	19.500	0.000	19.500

UNCLASSIFIED

R-1 Line Item #134

Page 5 of 15

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS		PROJECT 674785: F-22		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Continue Air Vehicle Instrumentation support (Training and Test Instrumentation) FY 2009 Accomplishments: In FY 2009: Funds the Instrumentation System Data Link (ISDL) ground-station used to monitor F-22 Inter-Flight Data Link (IFDL) supporting test, training, and evaluation. FY 2010 Plans: In FY 2010: Not Applicable FY 2011 Base Plans: In FY 2011: Not Applicable FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.		0.700	0.000	0.000	0.000	0.000
MAJOR THRUST: Continue flight test and flight test support FY 2009 Accomplishments: In FY 2009: Provides for all flight test requirements for both the air vehicle and engine required to conduct development flight test at Edwards AFB for all F-22 efforts including both software and hardware upgrades. This effort includes personnel and material needed to conduct flight test, maintain flight test aircraft and engines, and perform flight test planning and analysis. FY 2010 Plans: In FY 2010: Same as prior year.		127.184	115.500	127.725	0.000	127.725

UNCLASSIFIED

R-1 Line Item #134

Page 6 of 15

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force			DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS	PROJECT 674785: F-22			
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: In FY 2011: Same as prior year.					
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.					
MAJOR THRUST: Continue mission support of the Program Office; travel, computer costs, misc contracts, etc. FY 2009 Accomplishments: In FY 2009: Funds provide centralized Program Management Administration (PMA) allowing management and oversight activities in direct support of F-22 Increment Development, RAMMP, ASIP, flight test support, etc. FY 2010 Plans: In FY 2010: Same as prior year. FY 2011 Base Plans: In FY 2011: Same as prior year. FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.	8.162	11.681	11.906	0.000	11.906
MAJOR THRUST: Continue F-22 Reliability and Maintainability Maturation Program (RAMMP) FY 2009 Accomplishments: In FY 2009: Provides for development of multiple efforts implemented to improve Mean Time Between Maintenance (MTBM), maintainability, and reduce F-22 weapon system life cycle cost. This effort directly influences sortie generation rates and manpower requirements.	10.800	7.000	18.000	0.000	18.000

UNCLASSIFIED

R-1 Line Item #134

Page 7 of 15

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS		PROJECT 674785: F-22		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: In FY 2010: Same as prior year.						
FY 2011 Base Plans: In FY 2011: Same as prior year.						
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Continue Aircraft Structural Integrity Program (ASIP) FY 2009 Accomplishments: In FY 2009: The ASIP program provides F-22 structural analysis needed as a result of modernization hardware changes to the aircraft. This effort includes development of analysis models and tools.		4.590	4.500	5.790	0.000	5.790
FY 2010 Plans: In FY 2010: Same as prior year.						
FY 2011 Base Plans: In FY 2011: Same as prior year.						
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
MAJOR THRUST: Deliver Replacement Test Aircraft (RTA) and Instrumentation FY 2009 Accomplishments: In FY 2009: Includes final development, fabrication and procurement of instrumentation package needed for the RTA. The RTA is a production representative development test vehicle utilized at Edwards AFB in support of F-22 flight test requirements.		21.215	0.600	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #134

Page 8 of 15

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS			PROJECT 674785: F-22				
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2010 Plans: In FY 2010: Includes final cost for delivery of the RTA. The RTA is a production representative development test vehicle utilized at Edwards AFB in support of F-22 flight test requirements.											
FY 2011 Base Plans: In FY 2011: Not Applicable											
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.											
Accomplishments/Planned Programs Subtotals						579.710	569.345	576.330	0.000	576.330	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0604239F: AF RDT&E (3600)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24,295.158
• PE Not Provided (8487): PRTV II (6)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0207138F: F-22A Squadrons Procurement (3010)*	468.673	288.999	602.634	0.000	602.634	546.390	416.560	471.783	388.270	0.000	0.000
• PE 0207138F (1): F-22A Squadrons Procurement (3080)	0.000	1.207	1.452	0.000	1.452	2.163	1.503	1.525	1.550	0.000	0.000
• PE 0207219F: Aircraft Procurement (3010) Advanced Tactical Fighter, P-1 Line Item #003**	3,655.981	80.132	159.915	0.000	159.915	118.221	1.292	1.310	1.333	0.000	0.000
• PE 0604239F (2): Military Construction (3300)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	65.000

UNCLASSIFIED

R-1 Line Item #134

Page 9 of 15

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS				PROJECT 674785: F-22			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0207138F (3): Military Construction (3300)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	96.018
• PE 0207138F (4): Military Construction (3300)	197.750	0.000	22.125	0.000	22.125	1.057	11.740	0.000	0.000	0.000	496.660
• PE 0207219F (5): Munitions Procurement (3011)	12.829	15.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0207445F: Tactical Data Link RDT&E (3600)	55.069	66.872	85.492	0.000	85.492	169.748	118.655	0.000	0.000	0.000	607.872
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 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 various phases 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.											
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.											

UNCLASSIFIED

R-1 Line Item #134

Page 10 of 15

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207138F: <i>F-22 SQUADRONS</i>				PROJECT 674785: <i>F-22</i>						
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Increment development activities	C/CPAF	Lockheed Martin TBD	392.845	411.789	Dec 2009	393.409	Dec 2010	0.000		393.409	Continuing	Continuing	0.000	
Air Vehicle Instrumentation support (Training and Test Instrumentation)	C/CPAF	Lockheed Martin TBD	0.700	0.000		0.000	Dec 2010	0.000		0.000	Continuing	Continuing	0.000	
System Engineering / Program Management	C/CPAF	Lockheed Martin TBD	14.214	18.600	Dec 2009	19.500	Dec 2010	0.000		19.500	Continuing	Continuing	0.000	
F-22A Reliability and Maintainability Maturation Program (RAMMP)	C/CPAF	Lockheed Martin TBD	10.800	7.000	Dec 2009	18.000	Dec 2010	0.000		18.000	Continuing	Continuing	0.000	
Aircraft Structural Integrity Program (ASIP)	C/CPAF	Lockheed Martin TBD	4.590	3.330	Dec 2009	5.790	Dec 2010	0.000		5.790	Continuing	Continuing	0.000	
Subtotal			423.149	440.719		436.699		0.000		436.699			0.000	
Remarks														
Support (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Support Contracts	C/Various	TBD	8.162	11.726		11.906		0.000		11.906	Continuing	Continuing	0.000	

UNCLASSIFIED

R-1 Line Item #134

Page 11 of 15

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207138F: F-22 SQUADRONS				PROJECT 674785: F-22					
Support (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
		TBD												
Subtotal			8.162	11.726		11.906		0.000		11.906			0.000	
Remarks														
Test and Evaluation (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
AFFTC and Contractor Flight Test Support	C/Various	TBD TBD	127.184	115.000	Nov 2009	127.725	Nov 2010	0.000		127.725	Continuing	Continuing	0.000	
Replacement Test Aircraft (RTA) and Instrumentation	C/CPAF	Lockheed Martin TBD	21.215	1.900	Dec 2009	0.000	Dec 2010	0.000		0.000	0.000	23.115	126.155	
Subtotal			148.399	116.900		127.725		0.000		127.725			126.155	
Remarks														
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			579.710	569.345		576.330		0.000		576.330			126.155	

UNCLASSIFIED

R-1 Line Item #134

Page 12 of 15

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force							DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>			R-1 ITEM NOMENCLATURE PE 0207138F: <i>F-22 SQUADRONS</i>		PROJECT 674785: <i>F-22</i>			
	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Remarks Total Prior Years Cost may include only FY 2009 data.								

UNCLASSIFIED

R-1 Line Item #134

Page 13 of 15

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 7: Operational Systems Development

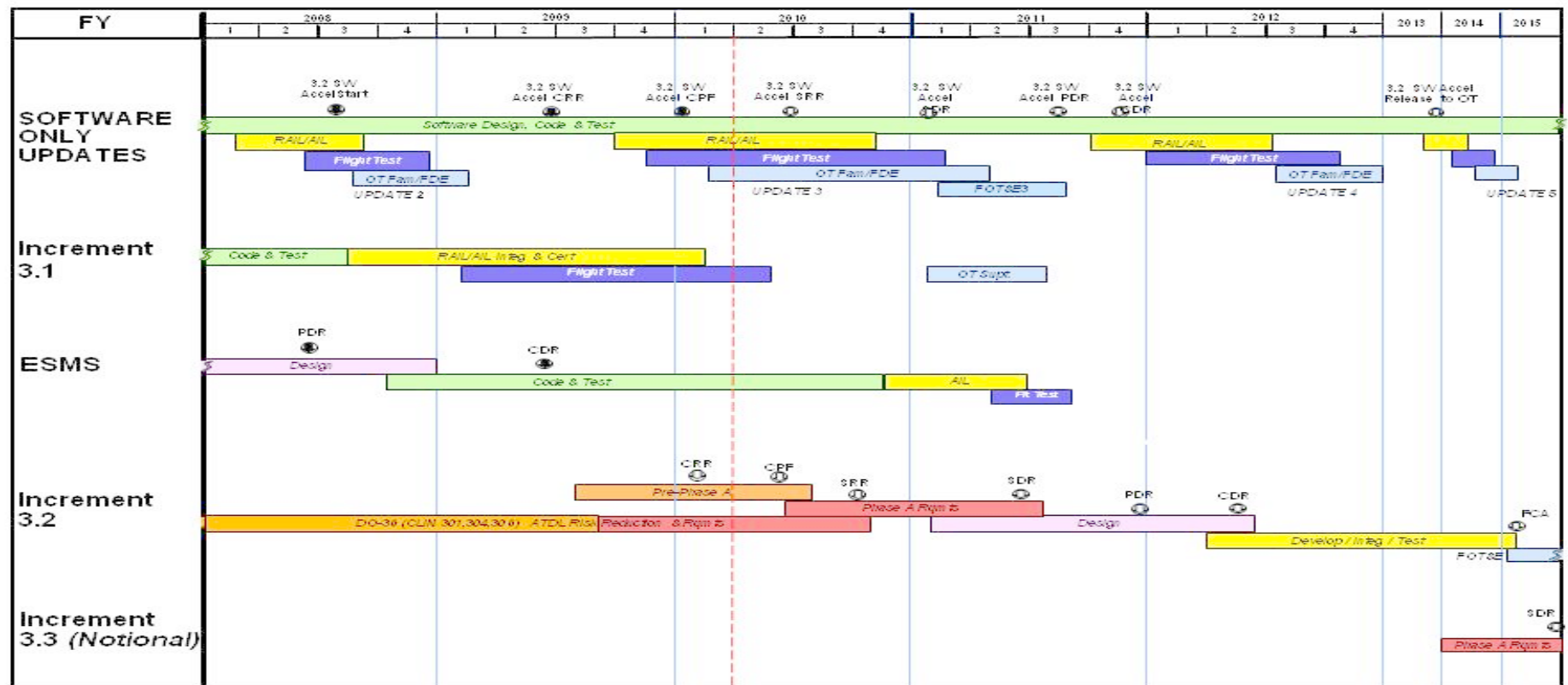
R-1 ITEM NOMENCLATURE

PE 0207138F: F-22 SQUADRONS

PROJECT

674785: F-22

Modernization Master Planning Schedule Summary



UNCLASSIFIED

R-1 Line Item #134

Page 14 of 15

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0207138F: <i>F-22 SQUADRONS</i>	PROJECT 674785: <i>F-22</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Complete Increment 2 Phase C, D, &E (Development, Integration & Test)	2	2010	2	2010
Complete Inc 3.2 Pre-Phase A (Requirements Analysis)	3	2009	3	2010
--Increment 3.2 CRR (A)	3	2009	3	2009
--Increment 3.2 CRR (B)	1	2010	1	2010
Initiate Increment 3.2 Phase A (Requirements)	2	2010	2	2011
--Increment 3.2 SRR (A)	2	2010	2	2010
--Increment 3.2 SRR (B)	3	2010	3	2010
--Increment 3.2 SDR (A)	1	2011	1	2011
--Increment 3.2 SDR (B)	2	2011	2	2011
Initiate 3.2 Design Phase (Phase B)	1	2011	4	2011
--Increment 3.2 PDR (A)	3	2011	3	2011
--Increment 3.2 PDR (B)	4	2011	4	2011
--Increment 3.2 CDR (A)	4	2011	4	2011
Initiate ESMS Phase C (Development, Integration, & Test)	3	2009	2	2011
--ESMS CDR	2	2009	2	2009

UNCLASSIFIED