

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 7 - Operational System Development	PE NUMBER AND TITLE 0207141F F-117A Squadrons	PROJECT 3956
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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
3956 F-117A Stealth Fighter	8,902	5,097	4,807	2,847	2,312	3,562	10,161	7,222	1,067	61,428
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

The F-117 is the world's first operational low-observable (LO) combat aircraft. Its combination of stealth and precision weapons delivery capability allows the United States Air Force to hold even the most highly defended targets at risk. The program completed production in Jul 1990 with the delivery of the final F-117 (number 59). The single operational F-117 unit is the 49th Fighter Wing stationed at Holloman AFB, NM. The program is now primarily engaged in sustainment activities for the F-117 which is projected to remain in service through at least 2018. This program provides funds to develop improved systems to enhance combat capability while maintaining a safe, reliable and supportable aircraft.

This project provides research and development for multiple modifications to the F-117 weapons system. The MIL-STD-1760 Stores Management Processor (SMP) development continues in FY99 and is expected to be complete in FY00. The SMP modification is an essential pre-requisite for integration of advanced weapons on the F-117. Development efforts for Smart Weapons Integration, providing Joint Direct Attack Munition (JDAM) and the Wind Corrected Munitions Dispenser (WCMD) capabilities on the F-117, began in FY98 using FY97 funds originally planned for the Ozone Depleting Chemical modification. The Single Configuration Fleet (SCF) program reduces F-117 ownership costs by standardizing the F-117 fleet to a single optimized spray/sheet coating and edge configuration. The program strips the current radar absorbing materials (RAM), re-coats the aircraft with a more durable spray RAM and reduces the maintenance required for LO restoration after service panel access. A robotic application system for spray RAM has been developed to reduce installation costs and improve the quality of surface coatings. SCF development concluded in FY99 and the modification effort has started. Development efforts begin in FY02 on Fuel Quantity Processor hardware replacement to reduce fuel system maintenance requirements. Finally, development begins in FY04 to provide the F-117 with an Enhanced GBU-27 capability.

(U) FY 1998 (\$ in Thousands):

- (U) \$4,544 Continued development work on Stores Management Processor (SMP)
- (U) \$4,358 Completed development work on Single Configuration Fleet (SCF) in Jan 99
- (U) \$8,902 Total

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
7 - Operational System Development	0207141F F-117A Squadrons	3956
<p>(U) <u>FY 1999 (\$ in Thousands):</u></p> <ul style="list-style-type: none">- (U) \$4,924 Continue development work on Stores Management Processor (SMP)- (U) \$ 173 Identified as a source for SBIR- (U) \$5,097 Total <p>(U) <u>FY 2000 (\$ in Thousands):</u></p> <ul style="list-style-type: none">- (U) \$2,360 Complete development work on SMP- (U) \$2,447 Continue development work on Smart Weapons Integration- (U) \$4,807 Total <p>(U) <u>FY 2001 (\$ in Thousands):</u></p> <ul style="list-style-type: none">- (U) \$2,847 Continue development work on Smart Weapons Integration- (U) \$2,847 Total <p>(U) B. <u>Budget Activity Justification:</u></p> <p>This program is in budget activity 7, Operational System Development, because all aircraft have been delivered and the program is in its deployment phase.</p>		
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(U) C. <u>Program Change Summary (\$ in Thousands)</u>										
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>					
(U) Previous President's Budget: (FY 1999 PB)	8,964	5,147	4,896	2,903	55,589					
(U) Appropriated Value	9,520	5,147								
(U) Adjustments to Appropriated Value										
a. Congressional/General Reductions	-311	-50								
b. SBIR	-246									
c. Omnibus or Other Above Threshold Reprogram	-61									
d. Below Threshold Reprogramming										
(U) Adjustments to Budget Years Since FY 1999 PB			-89	-56						
(U) Current Budget Submit/FY 2000 President's Budget	8,902	5,097	4,807	2,847	61,428					
(U) Significant Program Changes:										
Smart Weapons Integration development efforts began in Sep 98 using \$350K of FY97 funds originally planned for the Ozone Depleting Chemical modification, which has been cancelled due to increased cost. FY 98 and FY99 funding was redirected to support higher priority programs. Program funding for Smart Weapons Integration resumes in FY00.										
FY99: \$173 identified as a source for SBIR										
(U) D. <u>Other Program Funding Summary (\$ in Thousands)</u>										
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Compl</u>	<u>Total Cost</u>
(U) Aircraft Procurement (BA-5), Appn 3010/BP1100, AF F117A Squadrons, PE 27141F	24,898	25,570	34,646	29,580	28,172	21,808	11,955	776	TBD	TBD
Project 3956										
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(U) **E. Acquisition Strategy:** RDT&E funds are executed to develop improved capability, maintenance and safety modification development efforts. Operational Flight Program (OFP) software is continuously updated (Block Cycle Update every 2 years) to complement modification development efforts. The contracting approach varies by individual effort and involves Firm Fixed Price (FFP), Cost Plus Fixed Fee (CPFF), and Cost Plus Award Fee (CPAF) contract types.

(U) **F. Schedule Profile**

	<u>FY 1998</u>				<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(U) Stores Management Processor (SMP) (RDT&E Started Jul 96, Finishes Mar 00; Retrofit Starts Apr 00, Finishes Sep 04)												X				
(U) Single Configuration Fleet (SCF) (RDT&E Started Apr 96, Finishes Jan 99; Retrofit Starts FY99/2, Finishes FY05)							*									
(U) Smart Weapons Integration (RDT&E Starts Sep 98, Finishes Sep 05)								*								
(U) Fuel Quantity Processor (RDT&E Starts FY 02, Finishes FY 04; Retrofit Starts FY04, Finishes FY06)																
(U) Enhanced GBU-27 (RDT&E Starts FY04, Finishes FY06)																

* = Completed event
X = Planned event

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE February 1999	
BUDGET ACTIVITY 7 - Operational System Development					PE NUMBER AND TITLE 0207141F F-117A Squadrons					PROJECT 3956	
(U) A. <u>Project Cost Breakdown (\$ in Thousands)</u>											
			<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>					
(U)	Development work on SMP (MIL-STD-1760)		4,544	4,924	2,360						
(U)	Development work on SCF (RAM Recoating)		4,358								
(U)	Smart Weapons Integration				2,447	2,847					
(U)	Identified as a source for SBIR			173							
(U)	Total		8,902	5,097	4,807	2,847					
(U) B. <u>Budget Acquisition History and Planning Information (\$ in Thousands)</u>											
Performing Organizations:											
	Contract										
	Method/Type										
	or Funding										
	Award or										
	Obligation										
	Performing										
	Activity										
	Project										
	Office										
	Total										
	Prior to										
	FY 1998										
	Budget										
	FY 1998										
	Budget										
	FY 1999										
	Budget										
	FY 2000										
	Budget										
	FY 2001										
	Budget										
	to Compl										
	Total										
	Program										
	173										
	173										
<u>Product Development Organizations</u>											
SMP (MIL-STD-1760 modification)											
	CPAF	Jul 98	18,478	18,478	6,650	4,544	4,924	2,360	0	0	18,478
	Lockheed Martin Skunk Works, Palmdale CA										
Single Configuration Fleet (RAM Recoat Modification)											
	AF 616	Apr 96	329	329	329	0	0	0	0	0	329
	Wright Laboratory, Signature technology office										
	MIPR	Jan 98	4,751	4,751	3,284	1,467	0	0	0	0	4,751
	Sandia Labs, Albuquerque NM										
	T&M	Apr 98	5,590	5,590	2,699	2,891	0	0	0	0	5,590
	Lockheed Martin Skunk Works, Palmdale CA										
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE	
7 - Operational System Development										February 1999	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
7 - Operational System Development					0207141F F-117A Squadrons					3956	
Contractor or Government Performing Activity	Contract Method/Type or Funding Vehicle	Award or Obligation Date	Performing Activity EAC	Project Office EAC	Total Prior to FY 1998	Budget FY 1998	Budget FY 1999	Budget FY 2000	Budget FY 2001	Budget to Compl	Total Program
Ozone Depleting Chemical Modification	CPFF	Sep 97	2,139	2,139	2,139	0	0	0	0	0	2,139
Lockheed Martin Skunk Works (Ozone), Palmdale CA											
Smart Wpn Integration	CPAF	Sep 98	21,880	21,880	350	0	0	2,447	2,847	16,236	21,880
Lockheed Martin Skunk Works, Palmdale CA											
Fuel Quantity Processor	TBD	FY 02	TBD	TBD	0	0	0	0	0	938	938
Contractor TBD											
Enhanced GBU-27	TBD	FY 04	TBD	TBD	0	0	0	0	0	7,150	7,150
Contractor TBD											
<u>Support and Management Organizations</u>											
Not Applicable											
<u>Test and Evaluation Organizations</u>											
Not Applicable											
(U) B. Budget Acquisition History and Planning Information Continued (\$ in Thousands)											
Government Furnished Property:											
Not Applicable											
Identified as a source for SBIR								173			173
Subtotal Product Development					15,451	8,902	4,924	4,807	2,847	24,324	61,255
Subtotal Support and Management					0	0	0	0	0	0	0
Subtotal Test and Evaluation					0	0	0	0	0	0	0
Total Project					15,451	8,902	5,097	4,807	2,847	24,324	61,428