

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207141F F-117A SQUADRON

PROJECT

3956

COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
3956 F-117A Stealth Fighter	2,139	3,417	14,752	31,539	57,069	47,021	31,574	1,630	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**

NOTE: In FY 2004, Combat Capability Sustainment Program (CCSP) includes Expanded Data Transfer System (EDTS) and Brooklyn Bridge New Start efforts.

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 modernization and sustainment activities for the F-117, which is projected to remain in service through at least 2018.

This project provides research and development funding for multiple modifications to the F-117 weapon system to enhance combat capability while improving safety, reliability and supportability. The MIL-STD-1760 Stores Management Processor (SMP) modification, which completed development in May 01, is an essential prerequisite for integration of advanced weapons on the F-117. Development efforts continue for Smart Weapons Integration. The current program implements full three weapons capability to include EGBU-27, JDAM and WCMD. System Development & Demonstration (SDD) started in FY01.

The Combat Capability Sustainment Program (CCSP) replaces obsolete avionics systems, establishes new vendors and improves reliability and maintainability to keep the F-117 operational through its service life. CCSP began Concept & Technology Development (CTD) in FY00 with Congressional Add funding. Beginning in FY2004, System Development & Demonstration (SDD) starts for Expanded Data Transfer System (EDTS) and Brooklyn Bridge. EDTS is the system that allows data to be transferred from the mission planning environment to the aircraft for operations. The Brooklyn Bridge consists of the F-117 outboard elevon actuator support structure.

(U) **FY 2002 (\$ in Thousands)**

(U) \$0 Accomplishments/Planned Program
 (U) \$2,139 Continue SDD for Smart Weapons Integration
 (U) \$2,139 Total

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PROJECT

07 - Operational System Development**0207141F F-117A SQUADRON****3956**(U) **A. Mission Description Continued**(U) **FY 2003 (\$ in Thousands)**

(U) \$0 Accomplishments/Planned Program

(U) \$3,417 Continue SDD for Smart Weapons Integration

(U) \$3,417 Total

(U) **FY 2004 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$9,905 Continue SDD for Smart Weapons Integration

(U) \$4,634 Initiate SDD for CCSP Expanded Data Transfer System (EDTS)

(U) \$213 Initiate SDD for Brooklyn Bridge

(U) \$14,752 Total

(U) **B. Budget Activity Justification**

This program is in budget activity 7, Operational System Development, because all aircraft have been delivered and the program is in its deployment phase.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>
(U) Previous President's Budget	2,305	3,525	10,059	TBD
(U) Appropriated Value	2,305	3,525		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-23	-37		
b. Small Business Innovative Research	-74			
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram	-59	-71		
e. Rescissions				
(U) Adjustments to Budget Years Since FY 2003 PBR	-10		4,693	
(U) Current Budget Submit/FY 2004 PBR	2,139	3,417	14,752	TBD

(U) **Significant Program Changes:**

FY04 funding adjustments due to New Start System Development & Demonstration for EDTS and Brooklyn Bridge.

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3956**(U) D. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Other APPN										
(U) Aircraft Procurement (BA-5), Appn 3010/BP1100, AF F117A Squadrons, PE 27141F	26,939	20,341	16,790	23,219	20,663	22,209	85,611	79,788	Continuing	TBD
(U) Aircraft Procurement (BA-5), Appn 3010/BP1600, AF F117A Squadrons, PE 27141F	0	0	0	1,052	0	0	2,691	2,737	Continuing	TBD

(U) E. Acquisition Strategy

Lockheed Martin Aeronautics Company at Palmdale (LMAC-P) is the F-117 prime contractor and has Total System Support Partnership (TSSP) for the F-117 weapon system. Modification programs are sole source to LMAC-P as part of the larger TSSP effort. RDT&E funds are executed to develop improved capability, reliability, maintenance and safety modifications. Operational Flight Program (OFP) software is continuously updated as needed to complement modification development efforts. The contracting approach varies by individual effort and involves Cost Plus Fixed Fee (CPFF) and Cost Plus Award Fee (CPAF) contract types.

(U) F. Schedule Profile

	<u>FY 2002</u>			<u>FY 2003</u>			<u>FY 2004</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Smart Weapons Integ-Full JDAM (CTD Sep 98-Nov 01)	*											
(U) Smart Weapons Integ Preliminary Design Review (PDR) (July 02)				*								
(U) Smart Weapons Integ Critical Design Review (CDR) (May 03)						X						
(U) CCSP Pre-SDD (CTD Phase 1 Jun 00-Dec 03)									X			
(U) CCSP SDD (EDTS Jan 04 - Sep 05)										X		
(U) Brooklyn Bridge SDD (Jan 04 - Sep 04)										X		

* = Completed Effort
X = Planned Effort

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2003		
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development					0207141F F-117A SQUADRON				3956	
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
					<u>FY 2002</u>		<u>FY 2003</u>		<u>FY 2004</u>	
(U) Stores Management Processor (SMP) SDD										
(U) Smart Weapons Integration CTD										
(U) Smart Weapons Integration SDD					2,139		3,417		9,905	
(U) CCSP CTD										
(U) CCSP EDTS SDD									4,634	
(U) Brooklyn Bridge SDD									213	
(U) Total					2,139		3,417		14,752	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
<u>Contractor or</u>		<u>Contract</u>								
<u>Government</u>		<u>Method/Type</u>								
<u>Performing</u>		<u>or Funding</u>		<u>Award or</u>		<u>Performing</u>		<u>Project</u>		
<u>Activity</u>		<u>Vehicle</u>		<u>Obligation</u>		<u>Activity</u>		<u>Office</u>		<u>Total Prior</u>
				<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 2002</u>
								<u>Budget</u>		<u>Budget</u>
								<u>FY 2002</u>		<u>FY 2003</u>
								<u>FY 2004</u>		<u>Budget to</u>
								<u>Complete</u>		<u>Total</u>
										<u>Program</u>
<u>Product Development Organizations</u>										
Smart Wpn Integration SDD, CPAF				May 01		27,463		27,463		1,605
Lockheed Martin, Palmdale CA								2,139		3,417
								9,905		Continuing
										TBD
CCSP CTD, Lockheed		CPFF		Apr 00		7,284		7,284		7,284
Martin, Palmdale CA								0		0
								0		Continuing
										TBD
CCSP EDTS SDD, Lockheed		CPFF		Jan 04		14,137		14,137		0
Martin, Palmdale CA								0		0
								4,634		Continuing
										TBD
Brooklyn Bridge SDD,		CPFF		Jan 04		217		217		0
Lockheed Martin, Palmdale CA								0		0
								213		0
										213
<u>Support and Management Organizations</u>										
<u>Test and Evaluation Organizations</u>										
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)					DATE February 2003	
BUDGET ACTIVITY		PE NUMBER AND TITLE				PROJECT
07 - Operational System Development		0207141F F-117A SQUADRON				3956
		<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
		<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>
<u>Subtotals</u>						<u>Total</u>
Subtotal Product Development		8,889	2,139	3,417	14,752	TBD
Subtotal Support and Management						TBD
Subtotal Test and Evaluation						TBD
Total Project		8,889	2,139	3,417	14,752	TBD

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