

UNCLASSIFIED

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

DATE

February 2003

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - System Development and Demonstration (SDD)

0604762F Common Low Observable Verification Sys 4683

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
4683 Common Low Observable Verification System	5,732	4,730	7,000	0	0	0	0	0	19,000	59,659
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**

Common Low Observable Verification System (CLOVerS) is intended as an easily deployable flightline system to evaluate surface anomalies on low observable (stealth) aircraft. It will allow maintenance personnel to determine if a repair is needed, or if the repair performed was successful in restoring the low observable characteristic of the aircraft. CLOVerS is intended for use with the B-2, F-117, F-22, as well as future aircraft such as the Joint Strike Fighter (JSF) and/or Unmanned Combat Air Vehicle (UCAV). Key capabilities required include the ability to detect, locate, and resolve small surface defects, reduced measurement time (compared to existing verification methods), operation under less restrictive security measures, and a small deployment footprint.

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

(U) \$0 Accomplishments / Planned Program
 (U) \$4,849 Design, build and assemble Cart 3 whole body evolution. Data analysis system built to include technician, diagnostic and expert modes.
 (U) \$393 Program Office Support
 (U) \$490 Govt. System Test & Eval.
 (U) \$5,732 Total

(U) **FY 2003 (\$ in Thousands)**

(U) \$0 Accomplishments / Planned Program
 (U) \$3,966 Continue Cart 3 whole bode development. Conduct field tests of Cart 3.
 (U) \$545 Program Office Support
 (U) \$219 Govt. System Test & Eval.
 (U) \$4,730 Total

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05 - System Development and Demonstration (SDD)**0604762F Common Low Observable Verification Sys 4683**(U) **A. Mission Description Continued**(U) FY 2004 (\$ in Thousands)

(U) \$0 Accomplishments / Planned Program

(U) \$6,230 Design, build and assembly of Cart 4/5 zone capability.

(U) \$770 Program Office Support

(U) \$7,000 Total

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

This program is in budget activity 5 - System Development and Demonstration (SDD) because this program develops the Common Low Observable Verification System (CLOVerS).

(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	6,647	4,781	7,000	59,659
(U) Appropriated Value	6,713	4,781		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-66	-51		
b. Small Business Innovative Research	-216			
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram	-671			
e. Rescissions	-28			
(U) Adjustments to Budget Years Since FY 2003 PBR				
(U) Current Budget Submit/FY 2004 PBR	5,732	4,730	7,000	TBD

(U) **Significant Program Changes:**

FY04 increase due to program restructure and re-alignment to match the F/A-22 schedule.

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05 - System Development and Demonstration (SDD)**0604762F Common Low Observable Verification Sys 4683****(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) PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Test Equipment	11		692	0	16,220	24,970	18,730		0	60,623

(U) E. Acquisition Strategy

The contract was awarded May 99, using full and open competition. The SDD contract was awarded as a Cost Plus Award Fee. Contract restructured Jul 02 to convert contract to Cost Plus Fixed Fee and to stretch out the period of performance from Apr 02 to Jan 05.

(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) Cart 3 Software Detailed Design (SDD) Completed			*									
(U) Vertical Mast Design Review				*								
(U) Cart 3 Test and Evaluation						X						
(U) Cart 4/5 Software Development Completed									X			
(U) Hardware Design Review									X			
(U) DT&E											X	
(U) OT&E												X

* = Completed event

X = Planned event

- Cart 4/5 Software Development and Hardware Design Review slipped to 1QFY04 due to program restructure and delay in obtaining EMI License.

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

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BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - System Development and Demonstration (SDD)

0604762F Common Low Observable Verification Sys 4683

(U) A. Project Cost Breakdown (\$ in Thousands)

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>
(U) CLOVerS Development Contract	4,849	3,966	6,230
(U) Program Office Support	393	545	650
(U) Govt. System Test & Evaluation Organizations	490	219	120
(U) Total	5,732	4,730	7,000

(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)(U) Performing Organizations:

<u>Contractor or Government</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2002</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget FY 2004</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>										
Boeing Co., St Louis	CPFF	May 99	43,879	54,124	22,143	4,849	3,966	6,230	14,679	51,867
<u>Support and Management Organizations</u>										
ASC/FBXC, WPAFB OH	Various	Various			1,054	393	545	651	4,321	6,964
<u>Test and Evaluation Organizations</u>										
Joint Spectrum Center	MIPR	Various				366	200	100		666
88th Comm Group	MORD	Various				14	13	13		40
Air Force Research Laboratories	AF Form 616	30 Jan 02				110	6	6		122

(U) Government Furnished Property:

<u>Item Description</u>	<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Delivery Date</u>	<u>Total Prior to FY 2002</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget FY 2004</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Property</u>									

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)

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05 - System Development and Demonstration (SDD)

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(U) Government Furnished Property Continued:

Advanced Diagnostic Analysis Package (ADAP) and Radar Diagnostic Expert Equipment (RDES) software will be available to the contractor. Imaging Data from the B-2, F-117, and F-22 will be provided as appropriate. Current landing gear shrouds and flight control surface supports will be used until the CLOVerS items are developed. Imaging data (classified) on relevant platforms will be provided for software algorithm development. Electro-Magnetic License (EML) will be obtained by the government prior to testing.

Support and Management PropertyTest and Evaluation Property

	<u>Total Prior</u> <u>to FY 2002</u>	<u>Budget</u> <u>FY 2002</u>	<u>Budget</u> <u>FY 2003</u>	<u>Budget</u> <u>FY 2004</u>	<u>Budget to</u> <u>Complete</u>	<u>Total</u> <u>Program</u>
<u>Subtotals</u>						
Subtotal Product Development	22,143	4,849	3,966	6,230	14,679	51,867
Subtotal Support and Management	1,054	393	545	651	4,321	6,964
Subtotal Test and Evaluation		490	219	119		828
Total Project	23,197	5,732	4,730	7,000	19,000	59,659