DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) June 2001 PE NUMBER AND TITLE BUDGET ACTIVITY PROJECT 05 - Engineering and Manufacturing Development 0604762F Common Low Observable Verification Sys 4683 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2000 Cost to **Total Cost** COST (\$ in Thousands) Estimate Estimate Estimate Estimate Estimate Estimate Complete Actual Estimate 4683 Common Low Observable Verfication System 9,704 11,515 6,713 0 0 0 0 0 32,586 0 0 0 0 0 0 Quantity of RDT&E Articles 0

FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(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. 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) <u>FY 2000 (\$ in Thousands)</u>

(U) \$9,578 Continue Development Contract

(U) \$126 Program Office Support

(U) \$9.704 Tota

The following net transactions are not reflected in the FY00 program total: BTR=-26K.

(U) <u>FY 2001 (\$ in Thousands)</u>

(U) \$11,208 Continue Development Contract

(U) \$96 Continue Development Contract Award Fee

(U) \$211 Program Office Support

(U) \$11,515 Total

The following net transactions are not reflected in the FY01 program total: BTR=-2072K and SBIR=-420K. These transactions are not reflected in other sections of the R-docs where an FY01 total is shown.

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DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) June 2001 PE NUMBER AND TITLE BUDGET ACTIVITY PROJECT 05 - Engineering and Manufacturing Development 0604762F Common Low Observable Verification Sys 4683 A. Mission Description Continued **(U)** FY 2002 (\$ in Thousands) (U)(U) \$6,468 Complete Development Contract \$48 Complete Development Contract Award Fee (U) \$197 **Program Office Support** (U) \$6,713 Total **B. Budget Activity Justification** This program is in budget activity 5 - Engineering and Manufacturing Development, Research Category 6.4 because this program develops the Common Low Observable Verification System (CLOVerS). C. Program Change Summary (\$ in Thousands) FY 2000 FY 2001 FY 2002 Total Cost Previous President's Budget (FY 2001 PBR) 5,818 11,621 2,078 24,041 (U) Appropriated Value (U) 5,893 11,621 Adjustments to Appropriated Value a. Congressional/General Reductions -36 -81 b. Small Business Innovative Research -168 c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram 4,038 e. Rescissions -23 -25 Adjustments to Budget Years Since FY 2001 PBR 4,635 8,545 Current Budget Submit/FY 2002 PBR 9,704 11.515 6.713 32.586 Significant Program Changes: FY00 \$4.1M was transferred to PE64762F from other Air Force programs. \$4.6M reprogrammed from FY02 production funds (PE27145F) to complete developmental efforts. Project 4683 Page 2 of 5 Pages Exhibit R-2 (PE 0604762F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001			
	GET ACTIVITY - Engineering and Manufacturing Development			PE NUMBER AND TITLE 0604762F Common Low Observable						PROJECT			
05 -	Engineering and Manufac	turing	Develor	ment	06	U4/62F (common	Low Obs	ervable v	erification Sy	s 4683		
		2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost		
(U)	PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Test Equipment	0	0	11	4,783	705	0	0	0	0	5,499		
(U)	E. Acquisition Strategy The contract was awarded using full	and ope	en competitio	n. Engineer	ing and Manu	ıfacturing De	evelopment (EMD) contra	ct type is Co	st Plus Award Fee.			
(U)	F. Schedule Profile												
1						FY 2000		<u>FY 2</u>	<u>001</u>	<u>FY :</u>	2002		
1					1 2	2 3	4 1	2	3 4	1 2	3 4		
I \ /	Test Van Final Review						*						
(U)	Test Van Deployment						*		**				
(U)	Baseline Software Development								X				
(U)	Conduct B-2 Initial Integration Testi	_							X				
	Develop Platform Specific Software	;								X			
	Develop Advanced Diagnostics Hardware Design Review									X	X		
(U) (U)	DT&E										X X		
. /	OT&E										X		
` ′	LRIP Production - FY03										21		
. /	System Deliveries Begin (FY03)												
	* = Completed event												
	X = Planned event												
P	roject 4683				Page 3 of	5 Pages				Exhibit R-2 (P	E 0604762F)		

	RDT&E PROG	RAM ELE	MENT/F	ROJECT C	OST B	REAKDO	WN (R-3)		DATE	June 200	01
	GET ACTIVITY Engineering and Mai	nufacturing	Developr	ment		ER AND TITLE	on Low O	bservable	Verificat	ion Sys	PROJECT 4683
(U)	A. Project Cost Breakdown	(\$ in Thousand	<u>ds</u>)				EV	2000	FY 200	1 1	FY 2002
(U)	CLOVerS Development Con	tract						.578	11,20		6,468
(U)	CLOVerS Development Con						,	0	9		48
(U)	Program Office Support	aruct 11ward 1 cc						126	21		197
(U)	Total							704	11,51		6,713
(U)	B. Budget Acquisition History	ory and Plannin	g Informatio	on (\$ in Thousand	<u>ls)</u>						
(U)	Performing Organizations: Contractor or Government	Contract Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	Total
	Activity	Vehicle	<u>Date</u>	EAC	EAC	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	
	Product Development Organi	zations								_	
	Boeing Co., St Louis	CPAF/FPIF	May 99	21,910	22,263	3,093	9,578	11,304	6,516	0	30,491
	Support and Management Or										
	ASC/AAZ, WPAFB OH	Various				1,561	126	211	197	0	2,095
	Test and Evaluation Organiza	ations									
(U)	Government Furnished Pro	operty: Contract Method/Type	Award or								
	<u>Item</u>	or Funding	Obligation	<u>Delivery</u>		Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Description	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		to FY 2000	FY 2000	FY 2001	FY 2002	Complete	<u>Program</u>
	Product Development Property 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. Support and Management Property Test and Evaluation Property										
Р	roject 4683			Pag	e 4 of 5 Pag	ges			Exhib	it R-3 (PE (0604762F)

RDT&E PROGRAM ELEMENT/PROJEC		DATE June 2001				
BUDGET ACTIVITY	PE NUMBER AND TITLE	_				PROJECT
05 - Engineering and Manufacturing Development	0604762F Comm	on Low C	bservable	Verificat	ion Sys	4683
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>
Subtotals	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	
Subtotal Product Development	3,093	9,578	11,304	6,516	0	30,491
Subtotal Support and Management	1,561	126	211	197	0	2,095
Subtotal Test and Evaluation						
Total Project	4,654	9,704	11,515	6,713	0	32,586
Project 4683	Page 5 of 5 Pages			Exhib	it R-3 (PE 0)604762F)