PE NUMBER: 0604762F PE TITLE: Common Low Observable Verification Sys

Exhib	oit R-2, RDT	&E Budge	t Item Just	ification			DATE	February	2004
BUDGET ACTIVITY 05 System Development and Demonstrat	ion (SDD)			E NUMBER AND	TITLE	oservable Ve	rification Sys		
Cost (\$ in Millions)	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to	Total
. ,	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
Total Program Element (PE) Cost	4.695	6.941	10.303	8.646	0.000	0.000	0.000	Continuing	TB
4683 Common Low Observable Verfication System	4.695	6.941	10.303	8.646	0.000	0.000	0.000	Continuing	TB
U) A. Mission Description and Budget Item Common Low Observable Verification Sy aircraft. It will allow maintenance personn aircraft. CLOVerS is intended for use witt (UCAV). Key capabilities required include methods), operation under less restrictive s This program is in budget activity 5 -Engin System (CLOVerS).	stem (CLOVer nel to determine h the B-2, F-11' le the ability to security measur	e if a repair is n 7, F/A-22, as y detect, locate, a es, and a small	needed, or if the well as future ai and resolve sma deployment fo	repair perform rcraft such as t all surface defe otprint.	ned was success the Joint Strike ects, reduced me	sful in restoring Fighter (JSF) a easurement time	g the low obser nd/or Unmann e (compared to	vable character ed Combat Air existing verific	istic of the Vehicle cation
J) <u>B. Program Change Summary (\$ in Mil</u>	<u>lions)</u>					EX 2002		2004	EX 2005
U) Previous President's Budget						<u>FY 2003</u> 4.730		<u>2004</u> 7.000	<u>FY 2005</u> 0.000
U) Current PBR/President's Budget						4.695		.000 .941	10.303
J) Total Adjustments						-0.035		.059	
J) Congressional Program Reductions									
Congressional Rescissions							-0	.059	
Congressional Increases									
Reprogrammings						0.112			
SBIR/STTR Transfer						-0.147			
U) <u>Significant Program Changes:</u> EV02 mound \$0.2M from TEWS Upprode	DE64270E/Der	inat 652015 fr	n commission of	f contracted off	fort volated to C	Sout 2			
FY03 moved \$0.3M from TEWS Upgrade	, PE042/0F/Pro	ject 653945 IC	or completion of	I contracted en	fort related to C	art 5			
		<u>R-1</u> Sh	nopping List - Item	n No. 88-2 of 88-6	8			Exhibit R-2 (F	PE 0604762F
			999					·	

System O <th></th> <th>Exh</th> <th>nibit R-2a, I</th> <th>RDT&E Pro</th> <th>oject Justi</th> <th>fication</th> <th></th> <th></th> <th>DATE</th> <th>February</th> <th>2004</th>		Exh	nibit R-2a, I	RDT&E Pro	oject Justi	fication			DATE	February	2004
Cost (§ in Multions) Actual Estimate Estimate Estimate Estimate Complete 4683 Common Low Observable Verification 4.695 6.941 10.303 8.646 0.000 0.000 Continuing The particular interval			ion (SDD)			0604762F Cor	nmon Low O	oservable	4683 Commo	on Low Obse	rvable
4683 Common Low Observable Verification 4.695 6.941 10.303 8.646 0.000 0.000 Continuing TT Quantity of RDT&E Articles 0 0 0 0 0 0 0 0 0 (U) A. Mission Description and Budget Item Justification 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/A-22, as well as future aircraft such as the Joint Strike Figher (JSF) and/or Umananed 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. This program is in budget activity 5 - Engineering, Manufacturing and Development. Conduct field testing. 4.097 6.137 9.318 (U) Continue Cat 3/4/5 development. Continue ancillary equipment development. Conduct field testing. 4.097 6.137 9.318 (U) Continue Cat 3/4/5 development. Continue ancillary equipment development. Conduct field testing. 4.097 0.137 9.318 (U) Continue Cat 3/4/5 development. C		Cost (\$ in Millions)									Total
(U) A.Mission Description and Budget Item Justification 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/A-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. This program is in budget activity 5 -Engineering, Manufacturing and Development (EMD) because this program develops the Common Low Observable Verification System (CLOVerS). (U) B.Accomplishments/Planned Program (§ in Millions) EY 2003 EY 2004 EY 2005 (U) Govt. System Test & Eval Support 0.341 0.097 0.137 9.318 (U) Govt. System Test & Eval Support 4.695 6.941 10.303 (U) C.Other Program Funding Summary (§ in Millions) Evaluate Estimate Estimate Estimate Estimate Complete Total Cost (U) Govt. System Test & Eval Support 0.000 0.444 0.000 0.000 19.505 19.919 31.510 72.313 143.691	4683		4.695	6.941	10.303	3 8.646	0.000	0.000	0.000		TBD
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/A-22, as well as future aircraft such as the Joint Strike Fighter (JSF) and/or Ummanned 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. This program is in budget activity 5 -Engineering, Manufacturing and Development (EMD) because this program develops the Common Low Observable Verification System (CLOVerS). (U) B. Accomplishments/Planned Program (S in Millions) FY 2003 FY 2004 FY 2005 (U) Continue Cart 3/4/5 development. Continue ancillary equipment development. Conduct field testing. 4.097 6.137 9.318 (U) Forgram Office Support 0.3357 0.707 0.806 (U) Total Cost 4.695 6.941 10.303 (U) Total Cost EY 2003 FY 2004 FY 2005 FY 2007 FY 2008 FY 2009 Cost to (U) Total Cost Actual Estimate Estimate Estimate Estimate <td></td> <td>Quantity of RDT&E Articles</td> <td>0</td> <td>0</td> <td>(</td> <td>) 0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td>		Quantity of RDT&E Articles	0	0	() 0	0	0	0		
FY 2003FY 2004FY 2005FY 2006FY 2007FY 2008FY 2009Cost toTotal CostBP12 - PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity:EstimateEstimateEstimateEstimateEstimateEstimateCompleteTotal Cost(U) Procurement/Common Support Equipment, Program Title: Common Low Observable Verification System (CLOVerS)0.0000.4440.0000.00019.50519.91931.51072.313143.691(U) BP16 - PE27145F: Appn:0.0000.1700.0000.0000.9430.9651.5717.18310.832	(U) 1 (U) 0 (U) 1 (U) 0	Common Low Observable Verification Sy aircraft. It will allow maintenance personn aircraft. CLOVerS is intended for use witt (UCAV). Key capabilities required include methods), operation under less restrictive s This program is in budget activity 5 -Engin System (CLOVerS). B. Accomplishments/Planned Program (S Continue Cart 3/4/5 development. Continue Program Office Support Govt. System Test & Eval Support	stem (CLOVe nel to determin h the B-2, F-11 le the ability to security measus neering, Manuf in Millions)	e if a repair is a 7, F/A-22, as detect, locate, res, and a smal facturing and E	needed, or if the well as future and resolve su deployment ()	he repair perform aircraft such as mall surface defe footprint. EMD) because t	ned was success the Joint Strike ects, reduced me	sful in restorin Fighter (JSF) easurement tir velops the Cor	ng the low obser and/or Unmann ne (compared to mmon Low Obs 7 2003 4.097 0.357 0.241	rvable character ned Combat Air o existing verif servable Verific <u>FY 2004</u> 6.137 0.707 0.097	ristic of the r Vehicle ication
ActualEstimateEstimateEstimateEstimateEstimateCompleteBP12 - PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C)6.0000.4440.0000.00019.50519.91931.51072.313143.691(U)Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Verification System (CLOVerS)0.0000.4440.0000.00019.50519.91931.51072.313143.691	(U)	C. Other Program Funding Summary (\$	in Millions)								
(U) Aircraft (A/C) 0.000 0.444 0.000 0.000 19.505 19.919 31.510 72.313 143.691 Procurement/Common Support Equipment, Program Title: Common Low Observable Verification System (CLOVerS) BP16 - PE27145F: Appn: 0.000 0.170 0.000 0.000 0.943 0.965 1.571 7.183 10.832		BP12 - PE27145F:Appn:									<u>Total Cost</u>
(J) BP16 - PE27145F: Appn: 0.000 0.170 0.000 0.000 0.943 0.965 1.571 7.183 10.832	(U)	Aircraft (A/C) Procurement/Common Support Equipment, Program Title:	0.000	0.444	0.000	0.000	19.505	19.919	31.510	72.313	143.691
	(II)	BP16 - PE27145F: Appn:	0.000	0.170	0.000	0.000	0.943	0.965	1.571	7.183	10.832
Project 4683 R-1 Shopping List - Item No. 88-3 of 88-8 Exhibit R-2a (PE 0604762) 1000 1000	Proje	ect 4683		R-1 S			8			Exhibit R-2a	(PE 0604762F)

Exhibit R-2a, RDT&E Project Justification									2004	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				0604762F Common Low Observable 46				PROJECT NUMBER AND TITLE 4683 Common Low Observable Verfication System		
 (U) <u>C. Other Program Funding Summa</u> Observable Verification System (CLOVerS) Operational & Support Funding (3400) for Common Low (U) Observable Verification System (CLOVerS) 	ry (\$ in Millions 0.000	0.000	0.839	0.873	1.495	1.600	2.000	42.257	49.064	

(U) **<u>D. Acquisition Strategy</u>**

The contract was awarded May 99, using full and open competition 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. Another restructure was initiated in Feb 03 due to a realignment of the Future Years Defense Plan and stretched the EMD program out to Sep 06.

Exhibit R-2a (PE 0604762F)

E	xhibit R-3, RD	T&E Project Cost	Analysis	5					DATE		ny 200	14
BUDGET ACTIVITY 05 System Development and Demonst	0604762F Common Low Observable					4683	February 2004 PROJECT NUMBER AND TITLE 4683 Common Low Observable Verfication System					
(U) <u>Cost Categories</u>	Contract Method	Performing Activity &	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	Cost to	<u>Total</u>	<u>Target</u>
(Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>& Туре</u>	Location	Prior to FY 2003 Cost	<u>2003</u> <u>Cost</u>	2003 Award Date	<u>2004</u> <u>Cost</u>	2004 Award Date	<u>2005</u> <u>Cost</u>	2005 Award Date	<u>Complete</u>	<u>Cost</u>	Value of Contract
(U) <u>Product Development</u>			<u>C08</u>		Date		Date		Date			
Develop CLOVerS EMD Unit Subtotal Product Development	CPFF	Boeing Co., St Louis	26.993 26.993	4.097 4.097		6.137 6.137		9.318 9.318		Continuing Continuing	TBD TBD	0.000
Remarks: (U) <u>Support</u>												
JSC Support to obtain electromagnetic licensing (EML) requirement	MIPR	Joint Spectrum Center, 2004 Turbot Landing, Annapolis, MD 21402	0.366	0.235		0.090		0.170		Continuing	TBD	
88CG - Radar frequency management support (req'd to obtain EML)	MORD	88th Comm Group, 2435 5th St., WPAFB, OH 45433	0.015	0.000		0.007		0.007		Continuing	TBD	
AFRL - Ancillary Equipment/Shroud Support	AF Form 616	AFRL, 2591 K Street, Bldg 254, WPAFB, OH 45433	0.110	0.006		0.000		0.002		Continuing	TBD	
Subtotal Support			0.491	0.241		0.097		0.179		Continuing	TBD	0.000
Remarks: This element includes detaile	d planning, support	, data reduction and repo	rts (excluding	g the Co	ntract Da	ata Requ	irements	List dat	a) from s	such technica	al servic	es
(U) <u>Test & Evaluation</u>											0.000	
Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000	0.000	
(U) Management												
FBXC - Mission Support Requirements	Various	ASC/FBXC and ASC/FB, 2725 C. St, Bldg 553, WPAFB, OH 45433	1.453	0.357		0.707		0.806		Continuing	TBD	
Subtotal Management			1.453	0.357		0.707		0.806		Continuing	TBD	0.000
The mission support element Remarks: travel, office equipment, offic Services (A&AS) contracts),	e supplies, printing	g, computer support, cont	ract services	in suppo	ort of pro		• •	-			-	
bervices (nand) contracts),	program managom	ent assessments (1 wiA) d		cation c	rpenses.							

Exhibit R-3, RDT&E Pro		DATE February 2004					
UDGET ACTIVITY 5 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604762F Common Low Observable			February 2004PROJECT NUMBER AND TITLE4683 Common Low ObservableVerfication System			
J) Total Cost	28.937 4.695	6.941	10.303	Continuing	TBD	0.00	
Project 4683	Shopping List - Item No. 88-6 of 88-8			Exhibit R-		47605	

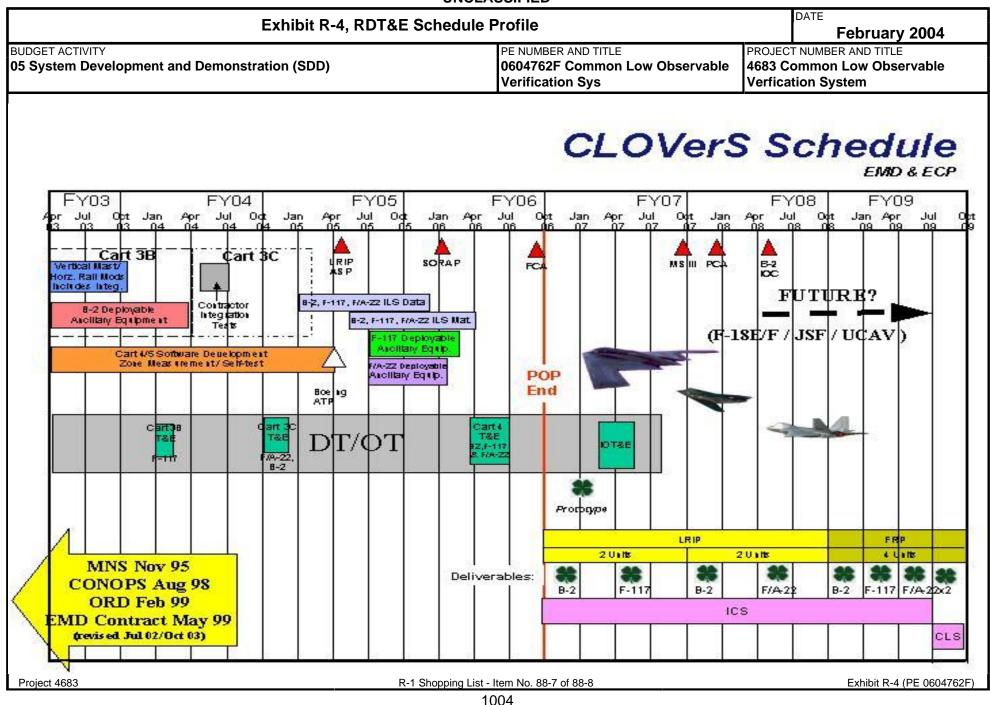


Exhibit R-4a, RDT&E	Schedule Detail		DATE Februa	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604762F Common Low Observable Verification Sys	PROJEC 4683 C Verfica	LE servable	
 (U) Schedule Profile (U) Cart 3B Test and Evaluation (U) Cart 3C Test and Evaluation (U) Cart 4/5 Software Development 	ΕΥ 2003		<u>FY 2004</u> 2Q	<u>FY 2005</u> 1Q 3Q
Project 4683 R-1	Shopping List - Item No. 88-8 of 88-8		Exhibit R-4	ła (PE 0604762F)