

UNCLASSIFIED

PE NUMBER: 0604762F

PE TITLE: Common Low Observable Verification Sys

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604762F Common Low Observable Verification Sys
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	4.695	6.941	10.303	8.646	0.000	0.000	0.000	Continuing	TBD
4683 Common Low Observable Verification System	4.695	6.941	10.303	8.646	0.000	0.000	0.000	Continuing	TBD

(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. Program Change Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	4.730	7.000	0.000
(U) Current PBR/President's Budget	4.695	6.941	10.303
(U) Total Adjustments	-0.035	-0.059	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.059	
Congressional Increases			
Reprogrammings	0.112		
SBIR/STTR Transfer	-0.147		

(U) Significant Program Changes:

FY03 moved \$0.3M from TEWS Upgrade, PE64270F/Project 653945 for completion of contracted effort related to Cart 3

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Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)							PE NUMBER AND TITLE 0604762F Common Low Observable Verification Sys		PROJECT NUMBER AND TITLE 4683 Common Low Observable Verification System	
Cost (\$ in Millions)		FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4683	Common Low Observable Verification System	4.695	6.941	10.303	8.646	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles		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 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)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Continue Cart 3/4/5 development. Continue ancillary equipment development. Conduct field testing.	4.097	6.137	9.318
(U) Program Office Support	0.357	0.707	0.806
(U) Govt. System Test & Eval Support	0.241	0.097	0.179
(U) Total Cost	4.695	6.941	10.303

(U) C. Other Program Funding Summary (\$ in Millions)

	<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>Complete</u>	
BP12 - PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity:									
(U) Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Verification System (CLOVerS)	0.000	0.444	0.000	0.000	19.505	19.919	31.510	72.313	143.691
(U) BP16 - PE27145F: Appn: Spares for Common Low	0.000	0.170	0.000	0.000	0.943	0.965	1.571	7.183	10.832

Exhibit R-2a, RDT&E Project Justification	DATE February 2004
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(U) **C. Other Program Funding Summary (\$ in Millions)**

Observable Verification System (CLOVerS)										
Operational & Support Funding (3400) for Common Low Observable Verification System (CLOVerS)	0.000	0.000	0.839	0.873	1.495	1.600	2.000	42.257	49.064	

(U) **D. Acquisition Strategy**

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.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2004		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604762F Common Low Observable Verification Sys				PROJECT NUMBER AND TITLE 4683 Common Low Observable Verification System				
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u> <u>2003</u> <u>Cost</u>	<u>FY</u> <u>2003</u> <u>Award</u> <u>Date</u>	<u>FY</u> <u>2004</u> <u>Cost</u>	<u>FY</u> <u>2004</u> <u>Award</u> <u>Date</u>	<u>FY</u> <u>2005</u> <u>Cost</u>	<u>FY</u> <u>2005</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total</u> <u>Cost</u>	<u>Target</u> <u>Value of</u> <u>Contract</u>
<u>(U) Product Development</u>												
Develop CLOVerS EMD Unit	CPFF	Boeing Co., St Louis	26.993	4.097		6.137		9.318		Continuing	TBD	
Subtotal Product Development			26.993	4.097		6.137		9.318		Continuing	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 detailed planning, support, data reduction and reports (excluding the Contract Data Requirements List data) from such technical services											
<u>(U) Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Management</u>												
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
Remarks:	The mission support element includes miscellaneous administrative costs incurred in the day-to-day operations by the program office. Costs include training, travel, office equipment, office supplies, printing, computer support, contract services in support of program office operations (including Advisory & Assistance Services (A&AS) contracts), program management assessments (PMA) and communication expenses.											

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Exhibit R-3, RDT&E Project Cost Analysis

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

**0604762F Common Low Observable
Verification Sys**

PROJECT NUMBER AND TITLE

**4683 Common Low Observable
Verification System**

(U) Total Cost

28.937	4.695	6.941	10.303	Continuing	TBD	0.000
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Exhibit R-4, RDT&E Schedule Profile

DATE

February 2004

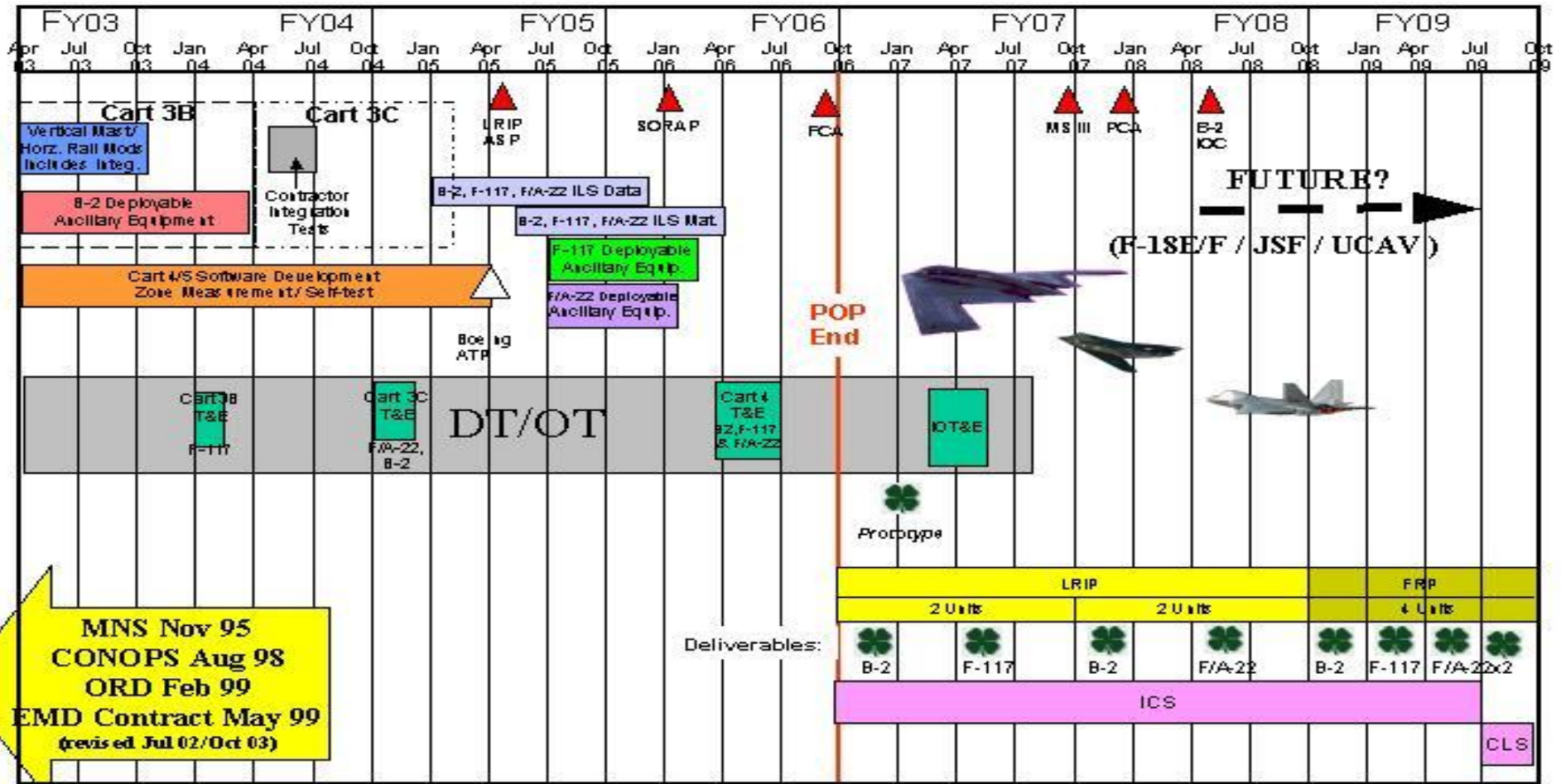
BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604762F Common Low Observable
Verification Sys

PROJECT NUMBER AND TITLE
4683 Common Low Observable
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CLOVerS Schedule

EMD & ECP



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Exhibit R-4a, RDT&E Schedule Detail		DATE February 2004
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(U) <u>Schedule Profile</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Cart 3B Test and Evaluation		2Q	
(U) Cart 3C Test and Evaluation			1Q
(U) Cart 4/5 Software Development			3Q