

UNCLASSIFIED

PE NUMBER: 0604762F

PE TITLE: Common Low Observable Verification Sys

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604762F Common Low Observable Verification Sys

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	6.605	10.212	8.692	0.000	0.000	0.000	0.000	0.000	0.000	61.641
4683 Common Low Observable Verification System	6.605	10.212	8.692	0.000	0.000	0.000	0.000	0.000	0.000	61.641

(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 Joint Unmanned Combat Air System (J-UCAS). 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 - System Development and Demonstration (SDD) because this program develops the Common Low Observable Verification System (CLOVerS).

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	6.941	10.303	8.646	
(U) Current PBR/President's Budget	6.605	10.212	8.692	
(U) Total Adjustments	-0.336	-0.091		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.091		
Congressional Increases				
Reprogrammings	-0.126			
SBIR/STTR Transfer	-0.210			
(U) <u>Significant Program Changes:</u>				

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PROJECT NUMBER AND TITLE

4683 Common Low Observable
Verification System

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4683 Common Low Observable Verification System	6.605	10.212	8.692	0.000	0.000	0.000	0.000	0.000	0.000	61.641
Quantity of RDT&E Articles	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 Fighter (JSF) and/or Joint Unmanned Combat Air System (J-UCAS). 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 - System Development and Demonstration (SDD) because this program develops the Common Low Observable Verification System (CLOVerS).

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Complete Cart 4/5 development and continue ancillary equipment development.	4.093	7.618	6.742	
(U) Field Testing	1.805	1.788	1.914	
(U) Program Office Support	0.707	0.806	0.036	
(U) Total Cost	6.605	10.212	8.692	0.000

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

	<u>FY 2004</u> <u>Actual</u>	<u>FY 2005</u> <u>Estimate</u>	<u>FY 2006</u> <u>Estimate</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
BP12 - PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C)										
(U) Procurement/Common Support Equipment, Program Title: Common Low Observable Verification System (CLOVerS)	0.000	0.000	0.000	19.897	20.371	32.594	33.733	34.453	2.643	143.691
BP16 - PE27145F: Appn:										
(U) Spares for Common Low Observable Verification	0.000	0.000	0.000	0.962	0.987	1.625	2.663	2.694	1.901	10.832

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**4683 Common Low Observable
Verification System****(U) C. Other Program Funding Summary (\$ in Millions)**

System (CLOVerS)

Operational & Support

(U) Funding (3400) for Common	0.000	0.817	0.000	0.000	0.002	1.685	1.701	1.733	38.822	44.760
Low Observable Verification										
System (CLOVerS)										

(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 SDD program out to Sep 06.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY					PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE				
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(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 Prior to FY 2004 Cost</u>	<u>FY 2004 Cost</u>	<u>FY 2004 Award Date</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Product Development</u>															
Develop CLOVerS EMD Unit	CPFF	Boeing Co., St Louis	33.590	5.801		9.227		8.456				0.000	57.074	57.074	
Subtotal Product Development			33.590	5.801		9.227		8.456		0.000		0.000	57.074	57.074	
Remarks:	Boeing Contract awarded 11 May 1999.														
(U) <u>Support</u>															
JSC Support to obtain electromagnetic licensing (EML) Rqts.	MIPR	Joint Spectrum Cnt, Annapolis, MD	0.601	0.090		0.170		0.180				0.000	1.041	1.041	
88CG - Radar Freq. mgt. support (req'd to obtain EML)	MORD	88th Comm Group, WPAFB, OH	0.015	0.007		0.007		0.020				0.000	0.049	0.049	
AFRL - Ancillary Equipment/Shroud Support	AF Form 616	AFRL, WPAFB, OH	0.116	0.000		0.002						0.000	0.118	0.118	
Subtotal Support			0.732	0.097		0.179		0.200		0.000		0.000	1.208	1.208	
Remarks:	Includes detailed planning, support, data reduction and reports excluding the Contract Data Requirements List data.														
(U) <u>Test & Evaluation</u>													0.000		
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:	Test and evaluation at contractor test facilities included under product development.														
(U) <u>Management</u>															
YSAL - Mission Support Rqts.	Various	ASC/YSAL, WPAFB, OH	1.810	0.707		0.806		0.036				0.000	3.359	3.359	
Subtotal Management			1.810	0.707		0.806		0.036		0.000		0.000	3.359	3.359	
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, program management assessments (PMA) and communication expenses.														
(U) Total Cost			36.132	6.605		10.212		8.692		0.000		0.000	61.641	61.641	

Exhibit R-4, RDT&E Schedule Profile

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BUDGET ACTIVITY

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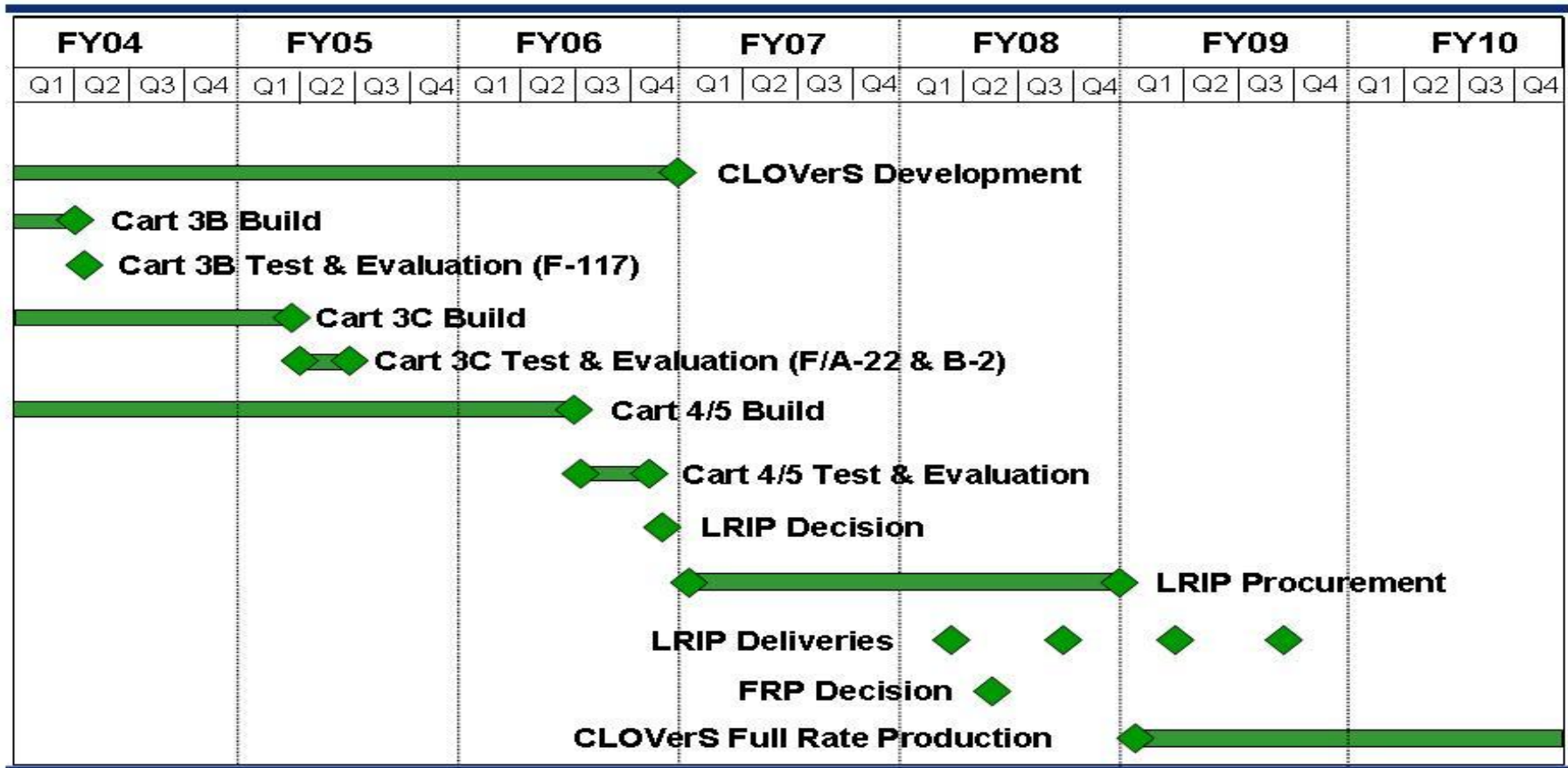
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CLOVerS Overview



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Exhibit R-4a, RDT&E Schedule Detail

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Verification System(U) **Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) Cart 3B Test and Evaluation

2Q

(U) Cart 3C Test and Evaluation

2Q

(U) Cart 4/5 Build

2Q

(U) Cart 4/5 Test and Evaluation

3Q