

UNCLASSIFIED

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

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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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 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	4.361	0.000	0.000	0.000	0.000	0.000	0.000	0.000	61.641
4683 Common Low Observable Verification System	4.361	0.000	0.000	0.000	0.000	0.000	0.000	0.000	61.641

(U) A. Mission Description and Budget Item Justification

The Common Low Observable Verification System (CLOVerS) is a deployable flight line maintenance inspection tool capable of evaluating radar cross-section (RCS) defects on low observable aircraft. The system performs zone and whole body aircraft measurements to detect, locate, and assess RCS defects and potential defects. Following repair of the defect, CLOVerS measures the area surrounding the defect to verify that the maintenance action corrected the defect. CLOVerS can provide a common RCS assessment system to support operations and maintenance of F-117, B-2 and F-22 aircraft. CLOVerS will provide RCS assessment support at both main operating base and forward operating locations. Key capabilities required include the ability to detect and locate RCS defects, reduced measurement time (compared to existing verification methods), operation under less restrictive security measures, and a small deployment footprint.

The CLOVerS program began experiencing delays in system development during FY05 when contractor testing revealed issues in the design of the motion control software and the vertical/ horizontal mast structure. In FY06, the Air Force decided the increased costs to complete development and produce the required number of units were prohibitive. As a result, the program office re scoped the current RDT&E effort to capture the hardware and software developed under the CLOVerS program that are transferable to other LO diagnostic tools.

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	4.483		
(U) Current PBR/President's Budget	4.361		
(U) Total Adjustments	-0.122		
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.122		

(U) Significant Program Changes:

The Air Force terminated all production funding including FY07 funding in the FY08 POM and transferred those production funds to meet higher prior USAF

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requirements. The RDTE program will complete current development efforts and transfer technologies to other low observable platforms.

Exhibit R-2a, RDT&E Project Justification

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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4683 Common Low Observable Verification System	4.361	0.000	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		

(U) A. Mission Description and Budget Item Justification

The Common Low Observable Verification System (CLOVerS) is a deployable flight line maintenance inspection tool capable of evaluating radar cross-section (RCS) defects on low observable aircraft. The system performs zone and whole body aircraft measurements to detect, locate, and assess RCS defects and potential defects. Following repair of the defect, CLOVerS measures the area surrounding the defect to verify that the maintenance action corrected the defect. CLOVerS can provide a common RCS assessment system to support operations and maintenance of F-117, B-2 and F-22 aircraft. CLOVerS will provide RCS assessment support at both main operating base and forward operating locations. Key capabilities required include the ability to detect and locate RCS defects, reduced measurement time (compared to existing verification methods), operation under less restrictive security measures, and a small deployment footprint.

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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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Complete Cart 4/5 development and continue ancillary equipment development.	4.261		
(U) Field Testing			
(U) Program Office Support	0.100		
(U) Total Cost	4.361	0.000	0.000

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</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>	
(U) Bp-16 Spares	0.798								

(U) D. Acquisition Strategy

The contract was awarded May 99 using full and open competition as a Cost Plus Award Fee. Contract was modified in Jul 02 to convert to Cost Plus Fixed Fee and to stretch the period of performance.

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 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		4.261						0.000	4.261	53.301
Subtotal Product Development			0.000	4.261		0.000		0.000		0.000	4.261	53.301
Remarks:												
(U) <u>Support</u> Electromagnetic Licensing and Misc Support	Various	Joint Spectrum Center, 88 CG, AFRL									0.000	3.636
Independent Logistics Assessment	Fixed	LOGTEC, Fairborn, OH									0.000	0.171
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	3.807
Remarks:												
(U) <u>Program Office Support</u> PMA	Various	Various		0.100							0.100	2.653
Subtotal Program Office Support			0.000	0.100		0.000		0.000		0.000	0.100	2.653
Remarks:												
(U) Total Cost			0.000	4.361		0.000		0.000		0.000	4.361	59.761

Exhibit R-4, RDT&E Schedule Profile

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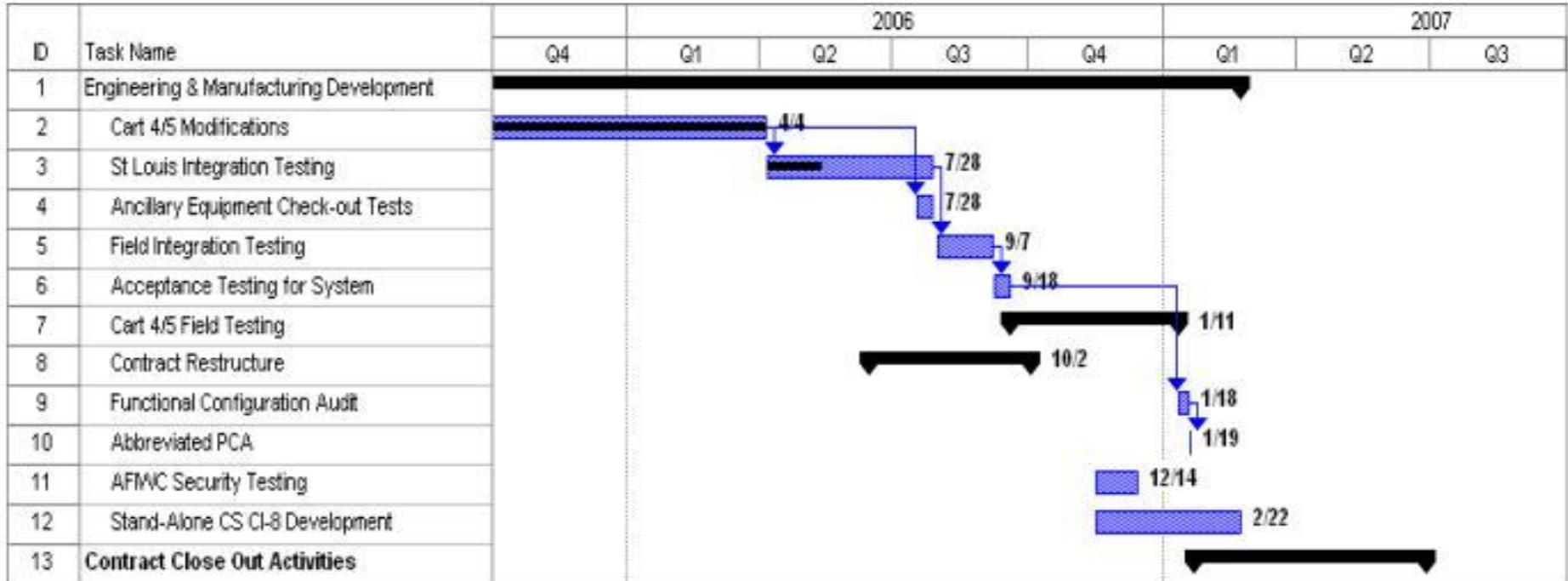
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CLOVerS Schedule



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Exhibit R-4a, RDT&E Schedule Detail		DATE February 2008
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(U) <u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Contract Close-out	3Q		