

**UNCLASSIFIED**

PE NUMBER: 0604762F

PE TITLE: Common Low Observable Verification Sys

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2006</b>
---	------------------------------

<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604762F Common Low Observable Verification Sys</b>
--	--

Cost (\$ in Millions)	FY 2005 Actual	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	8.940	8.568	0.000	0.000	0.000	0.000	0.000	0.000	61.641
4683 Common Low Observable Verification System	8.940	8.568	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 wholebody 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 provides 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. Due to software / hardware development issues, CLOVerS development is estimated to extend six additional months from 4Q FY06 to 2Q FY07. 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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	10.212	8.568	
(U) Current PBR/President's Budget	8.940	8.568	
(U) Total Adjustments	-1.272	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions	-0.008		
Congressional Increases			
Reprogrammings	-1.000		
SBIR/STTR Transfer	-0.264		
(U) <u>Significant Program Changes:</u>			

UNCLASSIFIED

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2006**

<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>				<b>PE NUMBER AND TITLE</b> <b>0604762F Common Low Observable Verification Sys</b>			<b>PROJECT NUMBER AND TITLE</b> <b>4683 Common Low Observable Verification System</b>		
Cost (\$ in Millions)	FY 2005 Actual	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	8.940	8.568	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 wholebody 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 provides 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. Due to software / hardware development issues, CLOVerS development is estimated to extend six additional months from 4Q FY06 to 2Q FY07. 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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Complete Cart 4/5 development and continue ancillary equipment development.	6.734	6.199	
(U) Field Testing	1.788	1.914	
(U) Program Office Support	0.418	0.455	
(U) Total Cost	8.940	8.568	0.000

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

	<u>FY 2005</u> <u>Actual</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>
(U) BP12 - PE27145F:Appn: Aircraft Procurement, AF (APAF) Budget Activity: Aircraft (A/C) Procurement/Common Support Equipment, Program Title: Common Low Observable Verification System (CLOVerS)	0.000	0.000	20.228	20.666	33.055	34.230	35.000	2.643	145.822
(U) BP16 - PE27145F: Appn: Spares for Common Low	0.000	0.000	0.962	0.987	1.625	2.663	2.694	1.901	10.832

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**February 2006**

BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0604762F Common Low Observable Verification Sys</b>	PROJECT NUMBER AND TITLE <b>4683 Common Low Observable Verification System</b>
---	---	---

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

Observable Verification System (CLOVerS)

**(U) Operational & Support Funding (3400) for Common Low Observable Verification System (CLOVerS)**

0.000	0.000	0.000	0.000	1.620	1.672	1.684	38.822	43.798
-------	-------	-------	-------	-------	-------	-------	--------	--------

**(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 stretched the period of performance. The program has experienced technical challenges and currently being restrctured. Due to software / hardware development issues, CLOVerS development is estimated to extend six additional months from 4Q FY06 to 2Q FY07 and requires additional funds in FY06 and FY07.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**February 2006**

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 &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2005 Cost</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	39.724	7.900	Dec-04	7.350	Oct-05			0.000	54.974	53.301
Subtotal Product Development			39.724	7.900		7.350		0.000		0.000	54.974	53.301
Remarks:												
(U) <u>Support</u> Electromagnetic Licensing and Misc Support	Various	Joint Spectrum Center, 88 CG, AFRL	2.495	0.550	Dec-04	0.664	Jan-06				3.709	3.636
Independant Logistics Assessment	Fixed	LOGTEC, Fairborn, OH		0.072	Nov-05	0.099	Nov-05				0.171	0.171
Subtotal Support			2.495	0.622		0.763		0.000		0.000	3.880	3.807
Remarks:												
(U) <u>Program Office Support</u> PMA	Various	Various	1.790	0.418	Oct-04	0.455	Oct-05				2.663	2.653
Subtotal Program Office Support			1.790	0.418		0.455		0.000		0.000	2.663	2.653
Remarks:												
(U) Total Cost			44.009	8.940		8.568		0.000		0.000	61.517	59.761

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY

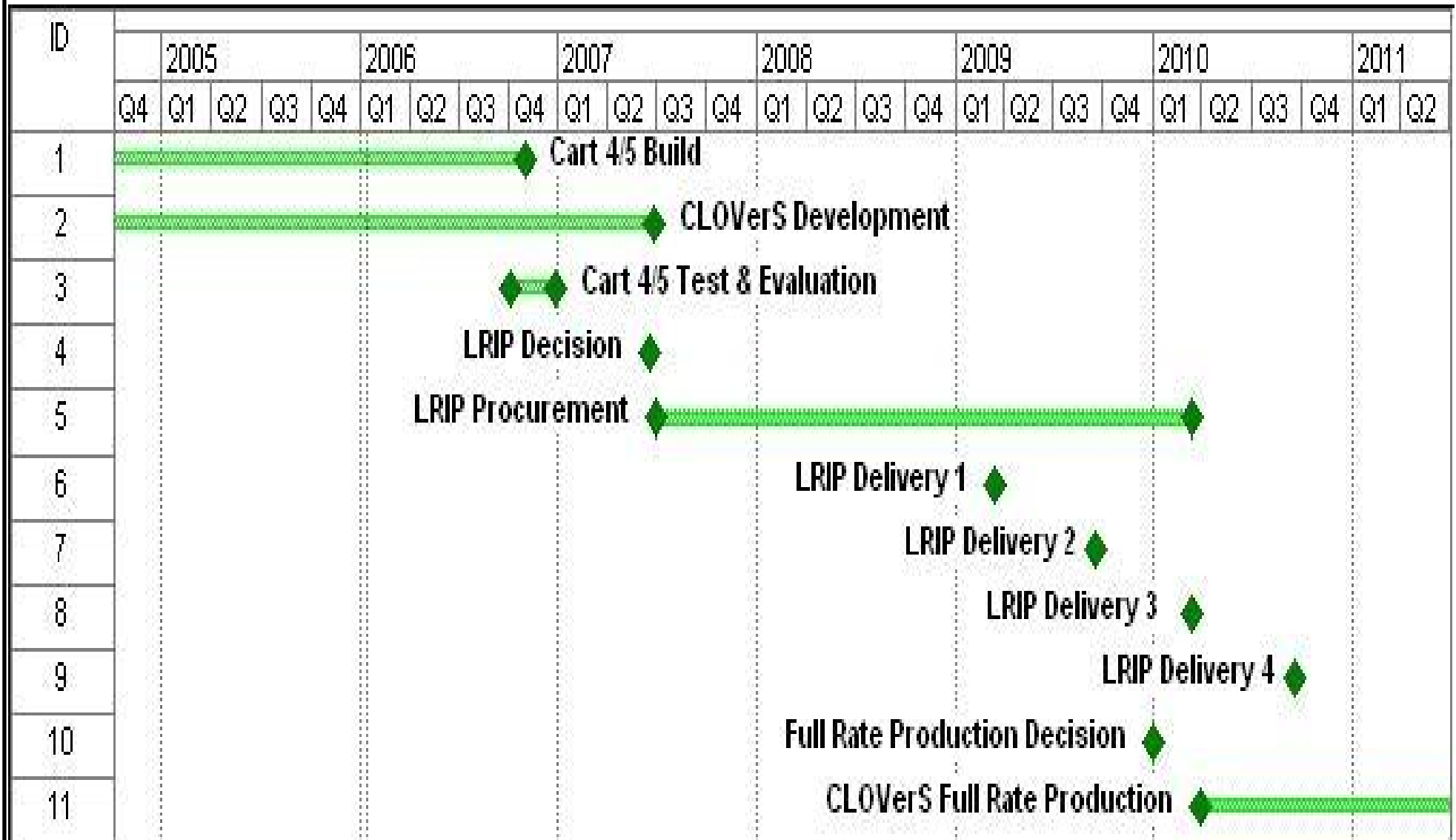
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604762F Common Low Observable Verification Sys

PROJECT NUMBER AND TITLE

4683 Common Low Observable Verification System



**UNCLASSIFIED**

**Exhibit R-4a, RDT&E Schedule Detail**

DATE

**February 2006**

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) **Schedule Profile**

FY 2005

FY 2006

FY 2007

(U) Cart 4/5 Build and Integration

2-4Q

(U) Cart 4/5 Test & Eval

4Q

(U) EMD Completion

2-3Q

(U) LRIP Contract Award

2-3Q