

**UNCLASSIFIED**

PE NUMBER: 0605277F  
 PE TITLE: CSAR-X

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	<b>DATE</b> <b>February 2008</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0605277F CSAR-X</b>
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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	0.000	0.000	305.062	364.818	379.234	413.090	378.855	Continuing	TBD
5213 CSAR-X	0.000	0.000	305.062	364.818	379.234	413.090	378.855	Continuing	TBD

In FY 2007, CSAR-X, RDT&E efforts were transferred from PE 0207224F, Combat Rescue and Recovery, CSAR-X, to more accurately reflect funding within the CSAR-X program.

The FY 2008 PB, PE 0604261F, Personnel Recovery Systems included funds for CSAR-X and HC-130 Recap projects. The FY 2009 PB separates the two projects into distinct PEs (0605277F and 0605278F, respectively) to provide more budget clarity.

Procurement funding for CSAR-X remains in PE 0207224F and is reported in P-Docs.

**(U) A. Mission Description and Budget Item Justification**

The primary mission of the Combat Search and Rescue Replacement Vehicle (CSAR-X) is to recover downed aircrew and isolated personnel from hostile or denied territory. Rescue forces may also conduct other missions inherent in their capabilities to conduct Personnel Recovery (PR), such as non-conventional assisted recovery, non-combatant evacuation operations, civil search and rescue, international aid, emergency medical evacuation, disaster/humanitarian relief, and insertion/extraction of combat forces.

The CSAR-X will provide USAF combat forces with a vertical take-off and landing aircraft that is deployable and capable of main base and austere location operations for worldwide Combat Search and Rescue (CSAR) and Joint PR missions. On-board weapons and defensive capabilities will permit the CSAR-X to operate in an increased threat environment. An in-flight refueling system will provide an airborne alert capability and extend its combat mission range. The aircraft will be self-supporting to the maximum extent practical. The CSAR-X will be capable of operating in all environmental regions of the globe, day or night, during adverse weather conditions, to include passing through Nuclear, Biological, and Chemical (NBC) environments.

Budget Justification: RDT&E funding includes, but is not limited to, the development of three Block 0 Test Vehicles, non-recurring engineering, software development, integration, testing and certification of the CSAR-X mission components required by the Capability Development Document (CDD), as well as simulator development for both aircrew and maintenance trainers.

Previous year funding for CSAR-X is located PE 0604261, Personnel Recovery Systems. The FY 2009 PB separated the CSAR-X and HC/MC-130 Recap projects under PE 0604261, Personnel Recovery Systems, into distinct PEs (0605277F and 0605278F, respectively) to provide more budget clarity.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget			
(U) Current PBR/President's Budget	0.000		305.062
(U) Total Adjustments	0.000		
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			

(U) **Significant Program Changes:**

- Previous year funding for CSAR-X is located PE 0604261, Personnel Recovery Systems. The FY 2009 PB separated the CSAR-X and HC/MC-130 Recap projects under PE 0604261, Personnel Recovery Systems, into distinct PEs (0605277F and 0605278F, respectively) to provide more budget clarity.

- The CSAR-X program successfully completed a Block 0 Milestone B. Budget reflects Milestone B Block 0 requirements as well as Block 10 requirements beginning in FY10 after a successful Milestone A.

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

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BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>				PE NUMBER AND TITLE <b>0605277F CSAR-X</b>			PROJECT NUMBER AND TITLE <b>5213 CSAR-X</b>		
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
5213 CSAR-X	0.000	0.000	305.062	364.818	379.234	413.090	378.855	Continuing	TBD
Quantity of RDT&E Articles	0	0	2	1	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

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Previous year funding for CSAR-X is located PE 0604261, Personnel Recovery Systems. The FY 2009 PB separated the CSAR-X and HC/MC-130 Recap projects under PE 0604261, Personnel Recovery Systems, into distinct PEs (0605277F and 0605278F, respectively) to provide more budget clarity.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) SPO support to include, but not limited to the development of test and evaluation master plan, preparation of Block 10 Milestone (MS) A and Block 0 MS C documentation, and execution of SDD contract.			5.943
(U) Studies and Analysis			3.209
(U) Government Test and Evaluation			13.753
(U) Development Support			8.561
(U) Software			17.635
(U) Simulator Development			48.002
(U) Block 0 System Development and Demonstration (SDD) to include, but not limited to non-recurring engineering, test vehicle hardware, and data.			207.959
(U) Block 10 SDD to include, but not limited to non-recurring engineering, test vehicle hardware, software, simulator development, and data.			

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(U) <b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>									
(U) Total Cost									
(U) <b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>									
	<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) APAF (including Advanced Procurement), PE 0207224F			15.000	207.751	672.172	637.814	824.340	Continuing	TBD
(U) RDT&E, AF PE 0604261	103.337	94.352						0.000	197.689

(U) **D. Acquisition Strategy**

The CSAR-X program will pursue an incremental development strategy composed of Block 0 and Block 10 increments, each with separate milestone decision points. Block 0 will include development and fielding of a new Combat Search and Rescue (CSAR) weapon system. Block 0 will correct HH-60G force-size shortfalls while improving current CSAR capabilities of range, payload, armament, and defensive systems. Block 10 will provide for the insertion of additional systems and improved technologies into the CSAR-X to meet all thresholds stated in the CDD.

Block 0 production deliveries are planned to begin in FY12. At the conclusion of Block 10 Operational Testing, the program will begin Block 10 aircraft production and the retrofitting of Block 0 aircraft to a Block 10 configuration. The program will procure and field 141 CSAR-X helicopters along with support equipment, spares, aircrew and maintenance trainers, and associated Type 1 training.

Block 10 development is planned to begin in FY10 after a successful Milestone A decision. Block 10 will develop two Test Vehicles to the Block 10 configuration allowing for design, integration, and testing of the Block 10 capabilities.

The program is currently in source selection and development schedules are offeror dependent.

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

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<b>05 System Development and Demonstration (SDD)</b>				<b>0605277F CSAR-X</b>				<b>5213 CSAR-X</b>				
(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 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>												
Studies and Analysis	Various	Various						3.209		Continuing	TBD	
Block 0 SDD	CPIF/AF	TBD						89.328		Continuing	TBD	
Test Vehicle Hardware	CPIF/AF	TBD						74.536		Continuing	TBD	
Software	CPIF/AF	TBD						17.635		Continuing	TBD	
Simulator Development	CPIF/AF	TBD						48.002		Continuing	TBD	
Block 10 SDD	CPIF/AF	TBD								Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		232.710		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Development Support	CPIF/AF	TBD	0.000					8.561		Continuing	TBD	
Subtotal Support			0.000	0.000		0.000		8.561		Continuing	TBD	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u>												
Government Test and Evaluation		46 TW; Eglin AFB, FL						13.753		Continuing	TBD	
Contractor Test and Evaluation	CPIF/AF	TBD						44.095		Continuing	TBD	
Subtotal Test & Evaluation			0.000	0.000		0.000		57.848		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>												
SPO Support								5.943		Continuing	TBD	
Subtotal Management			0.000	0.000		0.000		5.943		Continuing	TBD	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		305.062		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

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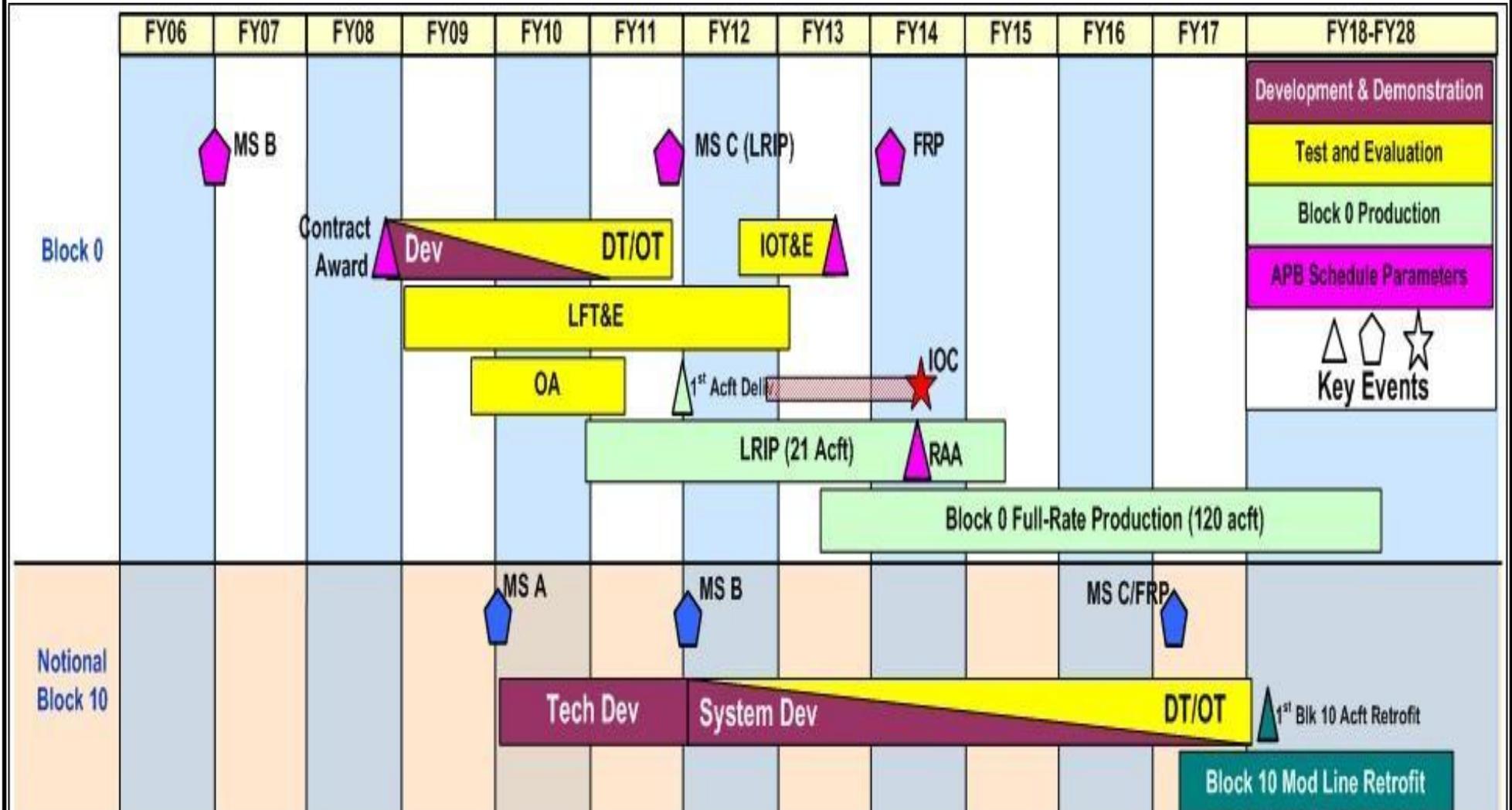


Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

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(U) Schedule Profile

FY 2007

FY 2008

FY 2009

(U) Block 0 Milestone (MS) B

1Q

(U) Conduct CSAR-X Source Selection (Amendment 5)

1-3Q

(U) Block 0 Contract Award (Including Amendment 5)

4Q