

UNCLASSIFIED

PE NUMBER: 0604261F
 PE TITLE: Personnel Recovery Systems

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 0604261F Personnel Recovery Systems
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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	103.337	104.289	0.000	0.000	0.000	0.000	0.000	0.000	207.626
5213 CSAR-X	103.337	94.352	0.000	0.000	0.000	0.000	0.000	0.000	197.689
5249 HC-130Recap	0.000	9.937	0.000	0.000	0.000	0.000	0.000	0.000	9.937

In FY 2007, Project Number 5213, 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 2009 PB separates the CSAR-X and HC-130Recap 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.

Procurement funding for HC/MC-130 Recap is included in Air Combat Command PE 0207224F and Air Force Special Operations Command PE 0207230F, as reported in P-Docs.

(U) A. Mission Description and Budget Item Justification

Program Element 0604261F includes development projects 5213, 5249, and for the Combat Search and Rescue Replacement Vehicle (CSAR-X), HC-130 Recapitalization (Recap), respectively. 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. For more detailed information regarding these programs see the respective R-2a exhibits under the new PEs.

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 HC-130 Recapitalization (Recap) Program will augment and eventually replace the aging USAF fleet of Combat Rescue Tanker (CRT) aircraft which is experiencing airworthiness, maintainability, and operational limitations. The low density/high demand CRT fleet consists of several C-130 variants--37 aircraft in all--in Active Duty, Air Force Reserve, and Air National Guard squadrons.

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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	200.695	290.059	0.000
(U) Current PBR/President's Budget	103.337	104.289	
(U) Total Adjustments	-97.358	-185.770	
(U) Congressional Program Reductions	0.000	-185.111	
Congressional Rescissions	-92.000	-0.659	
Congressional Increases			
Reprogrammings	0.000		
SBIR/STTR Transfer	-5.358		

(U) **Significant Program Changes:**

- CSAR-X: Based on contract award delays Congress rescinded \$92M of FY07 funding and reduced the FY08 President's Budget by \$185.7M. Additionally, the conferees directed that \$99M of the \$185M CSAR-X reduction be directed to maintaining and upgrading the HH-60G CSAR platform so that it may safely and effectively perform the mission until CSAR-X is operational.

- The FY 2009 PB separates the CSAR-X and HC-130Recap projects into distinct PEs (0605277F and 0605278F, respectively) to provide more budget clarity.

- CSAR-X program successfully completed a Block 0 Milestone B in November 2006. This budget reflects Milestone B Block 0 FY08 requirements.

- HC-130 Recap was a New Start in FY08 with funds transferred from terminated "HC-130 Conversion Program," PE 0207224F, BPAC 655249

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604261F Personnel Recovery Systems			PROJECT NUMBER AND TITLE 5213 CSAR-X			
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	103.337	94.352	0.000	0.000	0.000	0.000	0.000	0.000	197.689	
Quantity of RDT&E Articles	0	0	0	0	0	0	0			

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

(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 the 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.

(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<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.	7.564	5.055	
(U) Studies and Analysis	1.320	3.164	
(U) Government Test & Evaluation	1.245	7.152	
(U) Development Support		3.714	
(U) Software		9.791	
(U) Simulator Development		9.140	
(U) Block 0 System Development and Demonstration (SDD) to include, but not limited to non-recurring engineering, test vehicle hardware, and data.	93.208	56.336	
(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) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>						
(U) Total Cost	103.337	94.352	0.000						
(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>									
	<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	207.571	672.172	637.814	824.340	Continuing	TBD
(U) RDT&E, AF PE 0605277			305.062	364.818	379.234	413.090	378.855	Continuing	TBD

(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 is 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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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)				0604261F Personnel Recovery Systems				5213 CSAR-X				
(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 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 & Analysis	Various	Various		1.320		3.164					4.484	
Block 0 SDD	CPIF/AF	TBD		93.208		35.023					128.231	
Test Vehicle Hardware	CPIF/AF	TBD				14.589					14.589	
Software	CPIF/AF	TBD				9.791					9.791	
Simulator Development	CPIF/AF	TBD				9.140					9.140	
Block 10 SDD	CPIF/AF	TBD									0.000	
Subtotal Product Development			0.000	94.528		71.707		0.000		0.000	166.235	0.000
Remarks:												
(U) <u>Support</u>												
Development Support	CPIF/AF	TBD				3.714					3.714	
Subtotal Support			0.000	0.000		3.714		0.000		0.000	3.714	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Gov't Test & Evaluation		46 TW, Eglin AFB, FL		1.245		7.152					8.397	
Contractor Test & Evaluation	CPIF/AF	TBD				6.724					6.724	
Subtotal Test & Evaluation			0.000	1.245		13.876		0.000		0.000	15.121	0.000
Remarks:												
(U) <u>Management</u>												
SPO Support				7.564		5.055					12.619	
Subtotal Management			0.000	7.564		5.055		0.000		0.000	12.619	0.000
Remarks:												
(U) Total Cost			0.000	103.337		94.352		0.000		0.000	197.689	0.000

Exhibit R-4, RDT&E Schedule Profile

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PE NUMBER AND TITLE
0604261F Personnel Recovery Systems

PROJECT NUMBER AND TITLE
5213 CSAR-X

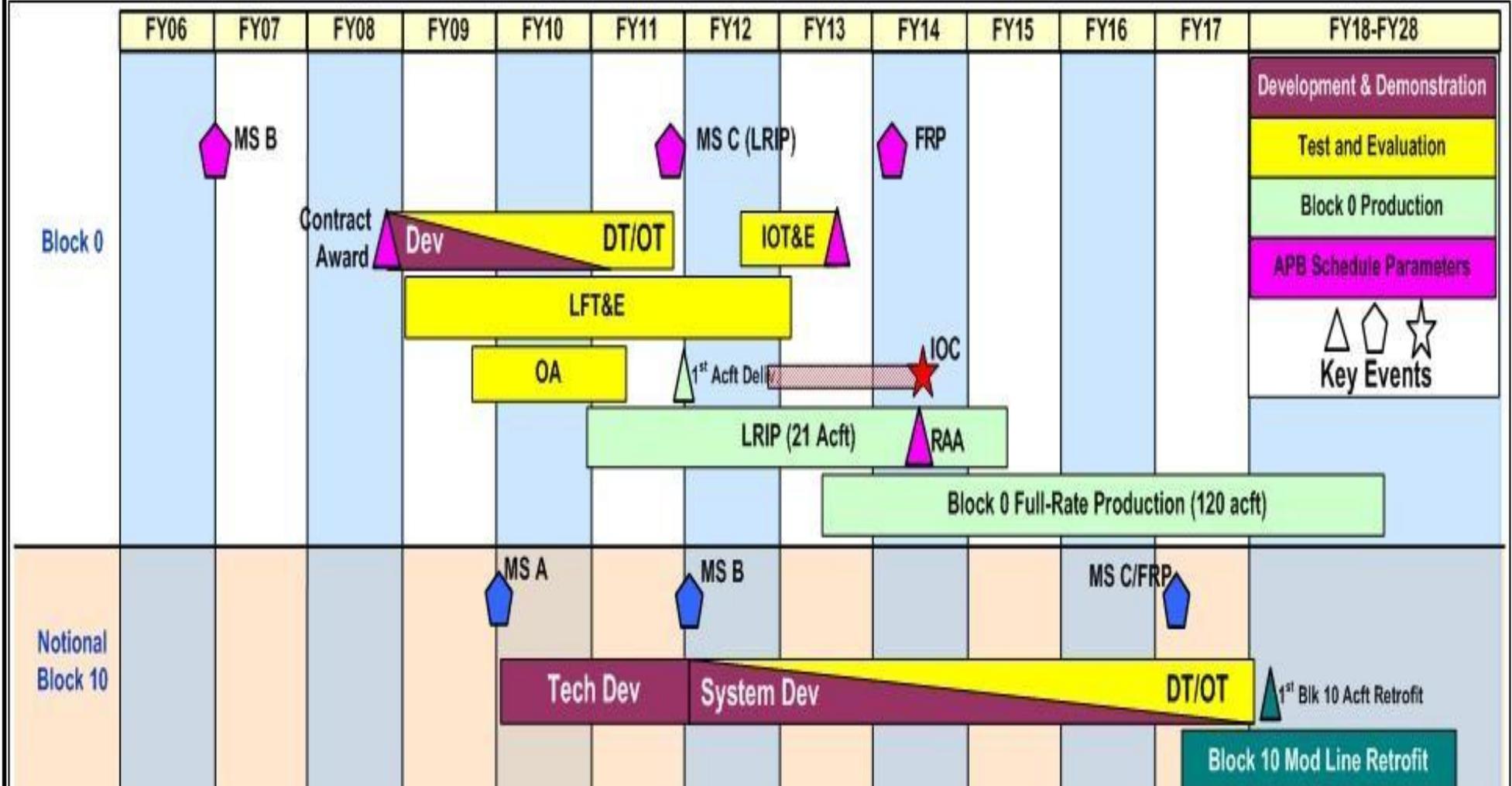


Exhibit R-4a, RDT&E Schedule Detail

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PE NUMBER AND TITLE

0604261F Personnel Recovery Systems

PROJECT NUMBER AND TITLE

5213 CSAR-X

(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

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604261F Personnel Recovery Systems			PROJECT NUMBER AND TITLE 5249 HC-130Recap		
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
5249 HC-130Recap	0.000	9.937	0.000	0.000	0.000	0.000	0.000	0.000	9.937
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**
 The FY 2008 President's Budget, PE 0604261F, Personnel Recovery Systems included funds for CSAR-X and HC/MC-130 Recap projects. The FY 2009 PB separates the two projects into distinct PEs (0605277F and 0605278F, respectively) to provide more budget clarity. HC/MC-130 Recap was a FY 2008 New Start.

<u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Acquisition Planning, Milestone Preparation, RFP development and Source Selection Activities		2.101	
(U) Systems Engineering and Integration		4.000	
(U) Test and Evaluation Planning, Conduct and Support		3.836	
(U) Total Cost	0.000	9.937	0.000

<u>C. Other Program Funding Summary (\$ in Millions)</u>	<u>FY 2007</u> <u>Actual</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>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) HC/MC-130 Recap RDT&E PE 0605278F		0.000	11.692	10.054	4.015	2.504	2.500	Continuing	TBD
(U) HC/MC-130 Recap APAF (Including Advance Procurement)	0.000	75.221	587.677	734.688	671.980	608.478	588.465	Continuing	TBD

(U) **D. Acquisition Strategy**
 AF plans to procure modified KC-130Js in FY 2009 and FY 2010 to meet the Warfighter's immediate requirement and conduct a business case analysis to determine the acquisition strategy to procure the remaining aircraft.

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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				
05 System Development and Demonstration (SDD)				0604261F Personnel Recovery Systems				5249 HC-130Recap				
(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>												
Systems Engineering and Integration	TBD	TBD		0.000		4.000	Nov-07				4.000	TBD
Subtotal Product Development			0.000	0.000		4.000		0.000		0.000	4.000	TBD
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Test and Evaluation Conduct	TBD	TBD		0.000		2.000	Mar-08				2.000	TBD
Test and Evaluation Support	TBD	TBD		0.000		1.836	Mar-08				1.836	TBD
Subtotal Test & Evaluation			0.000	0.000		3.836		0.000		0.000	3.836	TBD
Remarks:												
(U) <u>Management</u>												
SPO Support	TBD	TBD				2.101					2.101	TBD
Subtotal Management			0.000	0.000		2.101		0.000		0.000	2.101	TBD
Remarks:												
(U) Total Cost			0.000	0.000		9.937		0.000		0.000	9.937	TBD

Exhibit R-4, RDT&E Schedule Profile

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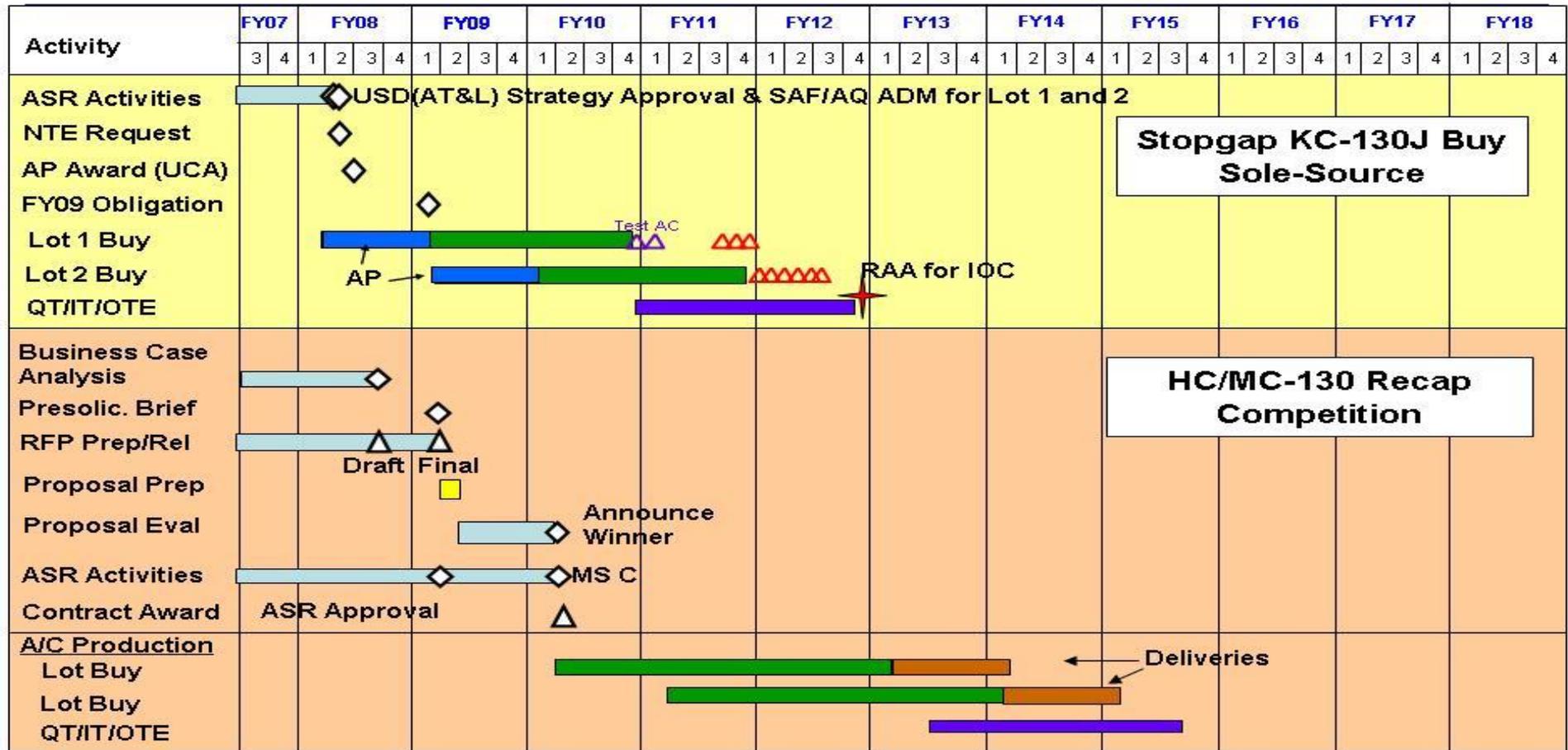
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5249 HC-130Recap

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HC/MC-130 Recapitalization Program Schedule



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Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

5249 HC-130Recap

(U) Schedule Profile

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Conduct Market Research	1-3Q		
(U) Develop Acquisition Strategy	1-4Q		
(U) JROC Validation of CDD		1Q	
(U) Acquisition Strategy Approval		2Q	
(U) Advance Procurement Contract Award (Lot 1)		2Q	
(U) Production Contract Award (Lot 1)			1Q
(U) Advance Procurement Contract Award (Lot 2)			1Q