

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605278F: HC/MC-130 Recap							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	11.336	20.582	15.536	0.000	15.536	28.348	19.087	16.128	9.910	Continuing	Continuing
655249: HC/MC-130 Recap	11.336	20.582	15.536	0.000	15.536	28.348	19.087	16.128	9.910	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

HC/MC-130 Recapitalization will replace and augment the aging USAF fleets of combat rescue HC-130P/N and special operations MC-130E/P aircraft which are experiencing airworthiness, maintainability and operational limitations. The HC/MC-130 Recap Capabilities Production Document (CPD) defines a common baseline configuration for the weapon system and a FY 2012 Initial Operational Capability. The JROC validated the CPD in Aug 2009.

FY10 HC/MC-130J program RDT&E funding provides for:  
Systems engineering, integration and test of mature, fielded capabilities (e.g., electro-optical-infrared imaging, Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS) and Enhanced Service Life (ESL) Wing, and a Combat Systems Officer crew station) with medium-transport aircraft for the HC/MC-130 Recap aircraft.

The FY10 MC-130J program also has funds in PE 010160429BB for USSOCOM to develop and procure SOF-peculiar modifications to the common-configured aircraft procured by the USAF.

FY11 HC/MC-130J program RDT&E funding provides for:

1) Continuation of systems engineering, integration and test of mature, fielded capabilities (e.g., electro-optical-infrared imaging, Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS) and Enhanced Service Life (ESL) Wing, and a Combat Systems Officer crew station) with medium-transport aircraft for the HC/MC-130 Recap aircraft.

2) Trial kit install of the C-130J Block 7.0 into the HC/MC-130J. The C-130J Block 7.0 program is in PE 0401132F. Block 7.0 primarily addresses mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. Block 7.0 is an international collaboration as the common core development costs are being shared by each participating nation (United Kingdom, Australia, Italy, Canada, Denmark, Norway, and the United States). Block 7.0 requirements include:

a) Communication, Navigation & Identification (CNI) upgrades  
b) Dual Multi-Mode Receivers (MMR) with a Civil Global Positioning System  
c) CNI special processor upgrade

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3600: Research, Development, Test & Evaluation, Air Force		PE 0605278F: HC/MC-130 Recap			
BA 5: Development & Demonstration (SDD)					
d) Tactical datalink					
e) Mission computer upgrades					
The FY11 MC-130J program also has funds in PE 010160429BB for USSOCOM to develop and procure SOF-peculiar modifications to the common-configured aircraft procured by the USAF.					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	11.692	20.582	0.000	0.000	0.000
Current President's Budget	11.336	20.582	15.536	0.000	15.536
Total Adjustments	-0.356	0.000	15.536	0.000	15.536
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.356	0.000			
• Other Adjustments	0.000	0.000	15.536	0.000	15.536
Change Summary Explanation					
Funds were included in PE 0604261F and were transferred to PE 0605278F in FY09.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605278F: <i>HC/MC-130 Recap</i>				<b>PROJECT</b> 655249: <i>HC/MC-130 Recap</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
655249: <i>HC/MC-130 Recap</i>	11.336	20.582	15.536	0.000	15.536	28.348	19.087	16.128	9.910	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<b>A. Mission Description and Budget Item Justification</b> <p>HC/MC-130 Recapitalization will replace and augment the aging USAF fleets of combat rescue HC-130P/N and special operations MC-130E/P aircraft which are experiencing airworthiness, maintainability and operational limitations. The HC/MC-130 Recap Capabilities Production Document (CPD) defines a common baseline configuration for the weapon system and a FY 2012 Initial Operational Capability. The JROC validated the CPD in Aug 2009.</p> <p>FY10 HC/MC-130J program RDT&amp;E funding provides for: Systems engineering, integration and test of mature, fielded capabilities (e.g., electro-optical-infrared imaging, Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS) and Enhanced Service Life (ESL) Wing, and a Combat Systems Officer crew station) with medium-transport aircraft for the HC/MC-130 Recap aircraft.</p> <p>The FY10 MC-130J program also has funds in PE 010160429BB for USSOCOM to develop and procure SOF-peculiar modifications to the common-configured aircraft procured by the USAF.</p> <p>FY11 HC/MC-130J program RDT&amp;E funding provides for: 1) Continuation of systems engineering, integration and test of mature, fielded capabilities (e.g., electro-optical-infrared imaging, Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS) and Enhanced Service Life (ESL) Wing, and a Combat Systems Officer crew station) with medium-transport aircraft for the HC/MC-130 Recap aircraft.</p> <p>2) Trial kit install of the C-130J Block 7.0 into the HC/MC-130J. The C-130J Block 7.0 program is in PE 0401132F. Block 7.0 primarily addresses mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. Block 7.0 is an international collaboration as the common core development costs are being shared by each participating nation (United Kingdom, Australia, Italy, Canada, Denmark, Norway, and the United States). Block 7.0 requirements include: a) Communication, Navigation &amp; Identification (CNI) upgrades b) Dual Multi-Mode Receivers (MMR) with a Civil Global Positioning System c) CNI special processor upgrade</p>											

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0605278F: HC/MC-130 Recap		PROJECT 655249: HC/MC-130 Recap	
d) Tactical datalink e) Mission computer upgrades					
The FY11 MC-130J program also has funds in PE 010160429BB for USSOCOM to develop and procure SOF-peculiar modifications to the common-configured aircraft procured by the USAF.					
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Systems Engineering, integration and test of mature, fielded capabilities	11.244	17.582	2.600	0.000	2.600
FY 2009 Accomplishments: In FY 2009: Integration of matured items such as Electro-Optical-Infrared Imaging (EO/IR), Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS), Enhanced Service Life (ESL) Wing, and a Combat Systems Officer (CSO) crew station on to a C-130J.					
FY 2010 Plans: In FY 2010: Continued integration of matured items such as Electro-Optical-Infrared Imaging (EO/IR), Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS), Enhanced Service Life (ESL) Wing, and a Combat Systems Officer (CSO) crew station on to a C-130J.					
FY 2011 Base Plans: In FY 2011: Concluding integration of matured items such as Electro-Optical-Infrared Imaging (EO/IR), Universal Aerial Refueling Receptacle Slipway Installation (UARRSI), Enhanced Cargo Handling System (ECHS), Enhanced Service Life (ESL) Wing, and a Combat Systems Officer (CSO) crew station on to a C-130J.					
FY 2011 OCO Plans: In FY 2011 OCO: N/A					

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Integration of C-130J Block 7.0 into HC/MC-130J 7.6 configuration. Block 7.0 primarily addresses CNS/ATM requirements.  FY 2009 Accomplishments: In FY 2009: N/A  FY 2010 Plans: In FY 2010: N/A  FY 2011 Base Plans: In FY 2011: Block 7.0 will add Link 16, a new Flight Management System (FMS), Civil Global Positioning System (GPS) Navigation, and a Special Mission Processor-Interface (SMP-I), as well as numerous software updates to the Mission Computer and other subsystems. Integration and testing of a provided TKI from C-130J will begin in 2011.  FY 2011 OCO Plans: In FY 2011 OCO: N/A		0.000	0.000	3.300	0.000	3.300
MAJOR THRUST: Test and Evaluation Planning, Conduct and Support for developmental and operational testing.  FY 2009 Accomplishments: In FY 2009: The first phase of testing begins in the form of the Operational Assessment, supported by using Commands, Program Office, and AFOTEC.  FY 2010 Plans: In FY 2010: Operational Assessment will continue, as well as the initial Contractor Test & Evaluation (CT&E).		0.092	3.000	9.636	0.000	9.636

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force							<b>DATE:</b> February 2010				
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605278F: <i>HC/MC-130 Recap</i>			<b>PROJECT</b> 655249: <i>HC/MC-130 Recap</i>				
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
							<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<b>FY 2011 Base Plans:</b> In FY 2011: Testing will move into the Developmental Testing & Evaluation (DT&E) phase, concluding with a DT&E report.  <b>FY 2011 OCO Plans:</b> In Fy 2011 OCO: N/A											
Accomplishments/Planned Programs Subtotals							11.336	20.582	15.536	0.000	15.536
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PE Not Provided (24395): N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>D. Acquisition Strategy</b>											
AF is using FY 2009, FY08 GWOT and FY 2010 funds to procure modified KC-130Js to meet the warfighter's urgent requirement . The Milestone C decision for the remaining program is planned in 2nd quarter of FY2010.											
<b>E. Performance Metrics</b>											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605278F: <i>HC/MC-130 Recap</i>				<b>PROJECT</b> 655249: <i>HC/MC-130 Recap</i>					
<b>Product Development (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Systems Engineering and Integration	SS/CPFF	WPAFB OH	21.144	17.582	Oct 2009	2.600	Oct 2010	0.000		2.600	0.000	41.326	Continuing
Block 7.0 Integration	SS/CPFF	WPAFB OH	0.000	0.000		3.300	Nov 2010	0.000		3.300	0.000	3.300	Continuing
<b>Subtotal</b>			21.144	17.582		5.900		0.000		5.900	0.000	44.626	
<b>Remarks</b>													
<b>Test and Evaluation (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Test and Evaluation Support	C/FFP	EAFB FL	0.092	3.000	Jan 2010	9.636	Oct 2010	0.000		9.636	0.000	12.728	Continuing
<b>Subtotal</b>			0.092	3.000		9.636		0.000		9.636	0.000	12.728	
<b>Remarks</b>													

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605278F: <i>HC/MC-130 Recap</i>				<b>PROJECT</b> 655249: <i>HC/MC-130 Recap</i>					
<b>Management Services (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
SPO Support	C/FFP	WPAFB OH	3.400	0.000		0.000		0.000		0.000	0.000	3.400	0.000
<b>Subtotal</b>			3.400	0.000		0.000		0.000		0.000	0.000	3.400	0.000
<b>Remarks</b>													
			<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			24.636	20.582		15.536		0.000		15.536	0.000	60.754	
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 5: Development & Demonstration (SDD)

**R-1 ITEM NOMENCLATURE**

PE 0605278F: HC/MC-130 Recap

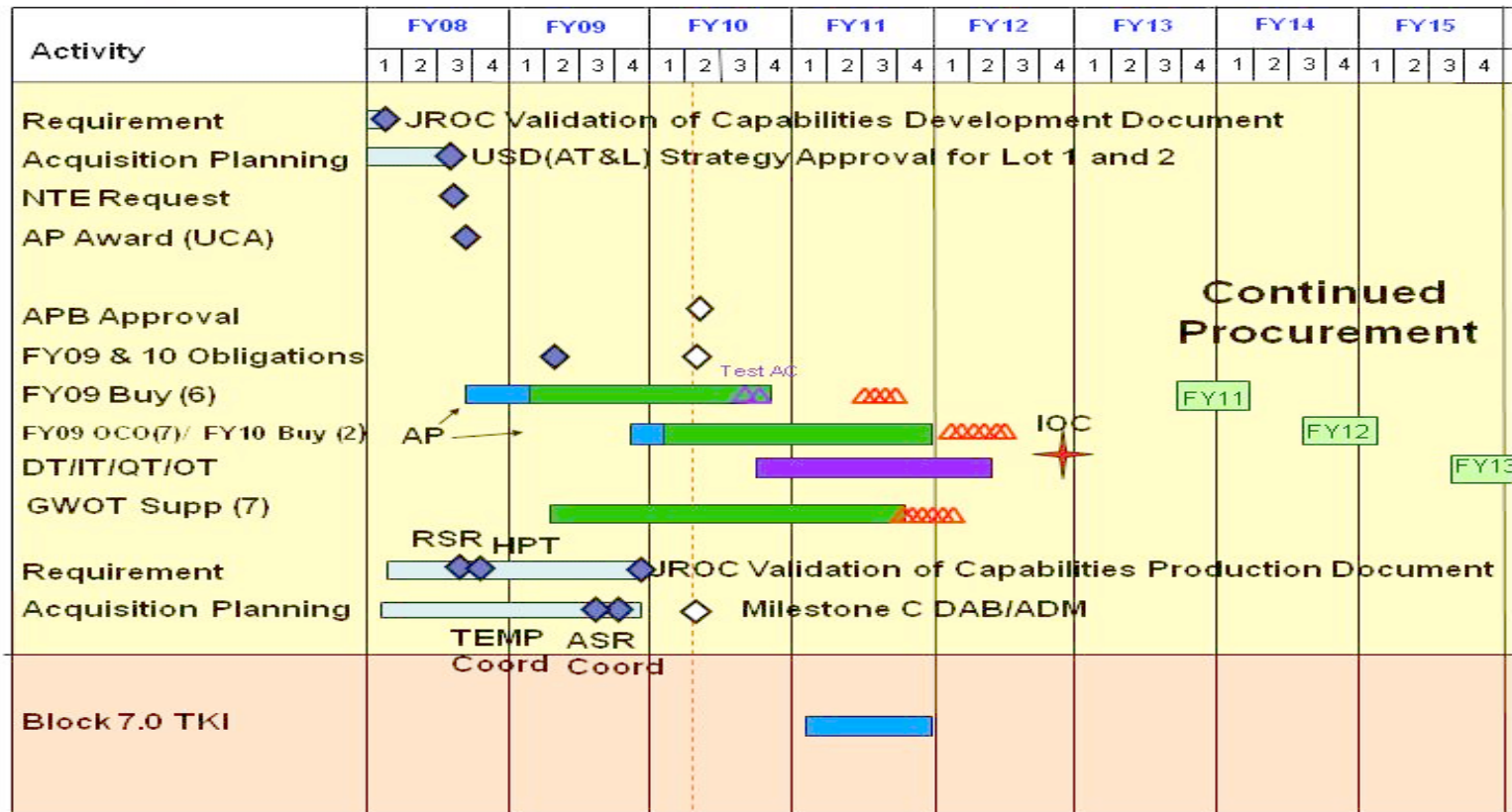
**PROJECT**

655249: HC/MC-130 Recap



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# HC/MC-130 Recap Program Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010		
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Schedule Details					
		Start		End	
Event		Quarter	Year	Quarter	Year
Systems Engineering and Integration		1	2009	4	2011
Block 7.0 Integration		1	2011	4	2011

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