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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605278F: <i>HC/MC-130 Recap</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	20.496	15.536	27.071	-	27.071	19.003	16.054	9.861	10.044	Continuing	Continuing
655249: <i>HC-130Recap</i>	20.496	15.536	27.071	-	27.071	19.003	16.054	9.861	10.044	Continuing	Continuing

Note

Prior years funding estimate is \$26.618M. The total cost to complete all RDT&E work in support of the HC/MC-130 Recap program is estimated to be \$154.3M, per the Milestone C, OSD accomplished Independent Cost Estimate.

A. Mission Description and Budget Item Justification

Totals include funding for PRCP Program Number 257, HC/MC-130 Recap.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

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.

FY12 HC/MC-130J funding completes the HC/MC systems engineering and development for the basic aircraft

FY12 HC/MC-130J program RDT&E funding also provides for Trial Kit Install (TKI) 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, d) Tactical datalink, and e) Mission computer upgrades.

The FY12 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.

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605278F: <i>HC/MC-130 Recap</i>
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B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	20.582	15.536	28.348	-	28.348
Current President's Budget	20.496	15.536	27.071	-	27.071
Total Adjustments	-0.086	-	-1.277	-	-1.277
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-0.086	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-1.277	-	-1.277

Change Summary Explanation

FY12 request is \$1.277M less than what was projected in the FY11 budget.
\$0.090M is for inflation and \$1.187M is for program underexecution.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
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-130Recap			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
655249: HC-130Recap	20.496	15.536	27.071	-	27.071	19.003	16.054	9.861	10.044	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
Totals include funding for PRCP Progrm Number 257, HC/MC-130 Recap.											
This program is in Budget Activity 5, System Development and Demonstration (SDD) because it is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.											
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.											
FY12 HC/MC-130J funding completes the HC/MC systems engineering and development for the basic aircraft											
FY12 HC/MC-130J program RDT&E funding also provides for Trial Kit Install (TKI) 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, d) Tactical datalink, and e) Mission computer upgrades.											
The FY12 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 Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Systems Engineering							17.582	2.600	3.700	-	3.700
Description: Systems Engineering, integration and test of mature, fielded capabilities											
FY 2010 Accomplishments:											

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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-130Recap				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
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 Plans: 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 2012 Base Plans: Funding provides for systems engineering, test of mature systems, and program management in support of HC/MC-130J Block 7.6 efforts. FY 2012 OCO Plans:						
Title: Test and Evaluation Description: Test and evaluation planning, conduct, and support for developmental and operational testing. FY 2010 Accomplishments: Operational assessment as well as intial Contractor Test and Evaluation. FY 2011 Plans: Testing will move into the Developmental Test and Evaluation (DT&E) phase concluding with a DT&E report. FY 2012 Base Plans: Funding provides for OT&E efforts in support of HC/MC-130J, verifying operational effectiveness and suitability. FY 2012 OCO Plans:		2.914	9.836	11.100	-	11.100
Title: Software Integration Description: Funding provides for the integration of C-130J Block 7.0 common block TKI and software into the Block 6.6 configuration resulting in a Block 7.6 configuration on both the HC-130J and MC-130J aircraft variant. FY 2010 Accomplishments: FY 2011 Plans:		-	3.100	10.700	-	10.700

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0605278F: <i>HC/MC-130 Recap</i>		PROJECT 655249: <i>HC-130Recap</i>	

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<i>FY 2012 Base Plans:</i> Funding provides for the integration of C-130J Block 7.0 common block TKI and software into the Block 6.6 configuration resulting in a Block 7.6 configuration on both the HC-130J and MC-130J aircraft variant.					
<i>FY 2012 OCO Plans:</i> <i>Title:</i> Other <i>Description:</i> Funding provides for unique costs to the government such as contractor test support.	-	-	1.571	-	1.571
<i>FY 2010 Accomplishments:</i> <i>FY 2011 Plans:</i> <i>FY 2012 Base Plans:</i> Funding provides for unique costs to the government such as contractor test support.					
<i>FY 2012 OCO Plans:</i>					
Accomplishments/Planned Programs Subtotals	20.496	15.536	27.071	-	27.071

C. Other Program Funding Summary (\$ in Millions)												
	<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
•	N/A:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy
The Milestone C decision for the HC/MC-130J Recap program was approved in April 2010. Lockheed Martin is the prime contractor for the Research & Development work in support of the HC/MC-130J Recap program. Work done to date on the HC/MC-130 Recap program has been on a Cost Plus Award Fee (CPAF) type contract.

E. Performance Metrics
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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				PE 0605278F: HC/MC-130 Recap				655249: HC-130Recap					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering and Integration	SS/CPFF	Lockheed Martin:Marietta, GA	50.498	8.900	Oct 2010	9.323	Nov 2011	-		9.323	36.325	105.046	TBD
Subtotal			50.498	8.900		9.323		-		9.323	36.325	105.046	
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Other	Various	ASC/WIS:WPAFB, OH	-	-		4.248	Feb 2012	-		4.248	11.956	16.204	0.000
Subtotal			-	-		4.248		-		4.248	11.956	16.204	0.000
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation Support	C/FFP	46th Test Wing:EAFB, FL	2.914	6.636	Oct 2010	13.500	Nov 2011	-		13.500	10.000	33.050	TBD
Subtotal			2.914	6.636		13.500		-		13.500	10.000	33.050	
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			53.412	15.536		27.071		-		27.071	58.281	154.300	
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605278F: <i>HC/MC-130 Recap</i>	PROJECT 655249: <i>HC-130Recap</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
HC/MC-130 Recap Systems Inegration & Development	1	2010	4	2012
HC/MC-130 Recap Flight test	1	2011	4	2012
HC/MC-130 Recap Block 7.0 TKI Development	3	2011	3	2014
HC/MC-130 Recap TKI	3	2013	3	2014

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