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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0605278F I HC/MC-130 Recap RDT&E							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	-	-	10.807	-	10.807	23.926	21.879	4.809	4.895	-	66.316
675006: HC/MC-130 RECAP	-	-	-	10.807	-	10.807	23.926	21.879	4.809	4.895	-	66.316
Program MDAP/MAIS Code: 257												
Note In FY16, the HC-MC 130 RECAP RDT&E efforts moved from BA 05 PE 0605278F / Project 655249 to BA 07 PE 0605278F / Project 675006. The descriptions and funding for efforts FY15 and prior are included in the BA 05 PE 0605278F document.												
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 Joint Requirements Oversight Council (JROC) validated the CPD in Aug 2009. This program will develop and integrate changes from discrepancies found during EMD flight test, operational use, and common C-130J block upgrades during HC/MC production. The C-130J program (PE 0401132F) developed Blocks 7.0 and 8.1 separately but all other platforms (including HC/MC) will have combined Block 7.0/8.1 trial kit install and modification programs and will be known simply as Block 8.1. Block 8.1 primarily addresses mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. It also incorporates capabilities such as Link 16, a new Flight Managment System (FMS), Civil GPS Navigation, Identification Friend or FOE (IFF) transponder Mode-5, Civil Data-link, and Automatic Dependent Surveillance-Broadcast (ADS-B). This program has met the condnions of Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year. Starting with the FY16 PB, the HC-MC 130 RECAP 3600 efforts moved from BA 05 PE 0605278F / Project 655249 to BA 07 PE 0605278F / Project 675006. The descriptions and funding for efforts FY15 and prior are included in the R-Docs under BA 05 PE 0605278F.												

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Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		R-1 Program Element (Number/Name) PE 0605278F / HC/MC-130 Recap RDT&E			
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	10.807	-	10.807
Total Adjustments	-	-	10.807	-	10.807
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	10.807	-	10.807
Change Summary Explanation					
In FY16, the HC-MC 130 RECAP RDT&E efforts moved from BA 05 PE 0605278F / Project 655249 to BA 07 PE 0605278F / Project 675006. The descriptions and funding for efforts FY15 and prior are included in the BA 05 PE 0605278F document.					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0605278F / HC/MC-130 Recap RDT&E				Project (Number/Name) 675006 / HC/MC-130 RECAP			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
675006: HC/MC-130 RECAP	-	-	-	10.807	-	10.807	23.926	21.879	4.809	4.895	-	66.316
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2016, HC/MC-130 Recap BA5 efforts were transferred from PE 0605278F, Project Number 655249, HC/MC-130 Recap, as the program achieved full rate production.

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 Joint Requirements Oversight Council (JROC) validated the CPD in Aug 2009.

This program will develop and integrate changes from discrepancies found during development and operational flight test, and common C-130J block upgrades during HC/MC production. The HC/MC Block 8.1 program follows the same "Block Upgrade" strategy being used in the C-130J program (PE 0401132F).

The internationally developed Block 8.1 program addresses mandated Communication, Navigation, and Surveillance/Air Traffic Management (CNS/ATM) requirements. It also incorporates capabilities such as Link 16, a new Flight Managment System (FMS), Civil GPS Navigation, Identification Friend or FOE (IFF) transponder Mode-5, Civil Data-link, and Automatic Dependent Surveillance-Broadcast (ADS-B).

The HC/MC Block 8.1 RDT&E effort integrates Block 8.1 into an HC-130J and a MC-130J via a trial kit install effort followed by a Development and Operational Test effort.

Block 8.1 Production line cut-in is planned with the FY 2019 aircraft buys. A fleet modification program will also begin in FY 2019.

Beginning in FY 2016, this program has met the condtions of Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year.

FY 2015 and prior this program was funded in Budget Activity 5, System Development and Demonstration because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validadated requirements prior to full-rate production.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: Test and Evaluation	-	-	0.764

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016
Description: Test and evaluation planning, conduct, and support for developmental and operational testing.					
FY 2014 Accomplishments: Funding in BA 05					
FY 2015 Plans: Funding in BA 05					
FY 2016 Plans: Funding provided to support developmental and operational testing.					
Title: Continuous Improvement Program			-	-	1.978
Description: Software-only updates to address discrepancies identified during development or operational test and evaluation. These updates will be incorporated in both production and fielded aircraft.					
FY 2014 Accomplishments: Funding in BA 05					
FY 2015 Plans: Funding in BA 05					
FY 2016 Plans: Funding provided to add system and software modifications to the aircraft configurations as identified as deficiency reports by using command.					
Title: Block 8.1			-	-	8.065
Description: Combined software/hardware upgrade for Block 8.1. Additional efforts include: Link 16, a new Flight Managment System (FMD), Civil Global Positioning System (GPS) Navigation, a Special Mission Processor Interface (SMP-I), Identification Friend or Foe (IFF) Mode 5, Civil Data Link, and Automatic Dependent Surveillance-Broadcast (ADS-B).					
FY 2014 Accomplishments: N/A					
FY 2015 Plans: Funding in BA 05					
FY 2016 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
Due to program interdependencies, Block 8.1 development will ramp-up in FY16. Funding is to develop and integrate HC-130J Delta Block 8.1 in Increment 2 configuration and develop and integrate MC-130J Delta Block 8.1 in Increment 3 configuration.												
Accomplishments/Planned Programs Subtotals										-	-	10.807
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• P-59: APAF, HC/ MC-130J Block 8.1	-	-	-	-	-	-	-	32.209	-	293.229	325.438	
• P-6,7: APAF, PE 0207224F, HC-130 Recap	210.121	382.024	493.934	-	493.934	320.407	10.550	-	103.663	648.384	2,115.082	
• P-8,9: APAF, PE 0207230F, MC-130 Recap	453.434	372.971	888.472	-	888.472	603.246	483.563	611.173	353.420	2,524.383	6,290.662	
Remarks												
D. Acquisition Strategy												
The full rate production decision for the HC/MC-130J RECAP was 4 Oct 13. Lockheed Martin is the prime contractor for Research and Development work in support of the HC/MC-130J RECAP program. Work done to date on the HC/MC-130J RECAP program has been on Cost Plus Award Fee (CPAF) and Cost Plus Incentive Fee (CPIF) type contracts.												
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 2016 Air Force												Date: February 2015			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0605278F / HC/MC-130 Recap RDT&E				Project (Number/Name) 675006 / HC/MC-130 RECAP					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Continuous Improvement Program (CIP)	SS/CPIF	Lockheed Martin : Marietta, GA	-	-		-		1.978	May 2016	-		1.978	Continuing	Continuing	TBD
Block 8.1	SS/CPIF	Lockheed Martin : Marietta, GA	-	-		-		8.065	Apr 2016	-		8.065	Continuing	Continuing	TBD
Subtotal			-	-		-		10.043		-		10.043	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation Support	RO	46the Test Wing : EAFB, FL	-	-		-		0.764	May 2016	-		0.764	Continuing	Continuing	TBD
Subtotal			-	-		-		0.764		-		0.764	-	-	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		10.807		-		10.807	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force	Date: February 2015
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0605278F / HC/MC-130 Recap RDT&E	Project (Number/Name) 675006 / HC/MC-130 RECAP
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	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Software Development Test and Evaluation																												
HC/MC-130 RECAP Block 8.1 Development																												
HC/MC-130 RECAP Block 8.1 First Article Installation and Developmental Test																												
Continuous Improvement Program (CIP)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force			Date: February 2015
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0605278F / HC/MC-130 Recap RDT&E	Project (Number/Name) 675006 / HC/MC-130 RECAP	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Software Development Test and Evaluation	2	2014	4	2015
HC/MC-130 RECAP Block 8.1 Development	4	2015	4	2016
HC/MC-130 RECAP Block 8.1 First Article Installation and Developmental Test	4	2016	4	2018
Continuous Improvement Program (CIP)	1	2014	4	2019