

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605430N: C/KC-130 Avionics Modernization Program (AMP)							
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	18.922	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.922
3199: Avionics Modernization Program	18.922	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.922
A. Mission Description and Budget Item Justification											
Avionics Modernization - Due to programmatic delays of the Avionics Modernization Program and USMC decision to pursue an all KC-130J model fleet, the program is being restructured.											
Harvest HAWK - The objective of this effort is to integrate an ISR (Intelligence, Surveillance & Reconnaissance) Weapon System Kit into the KC-130J aircraft which provides an armed capability to provide intra-theater suppressive fire support for ground troops as well as intelligence and reconnaissance capability for theater commanders. The new KC-130J is a force multiplier. The J tanker is capable of refueling both fixed wing and rotary wing aircraft, as well as conducting rapid ground refueling. KC-130Js have been continuously deployed in support of world-wide combat operations providing multi-mission, tactical aerial refueling, and fixed-wing assault support. This added capability will provide the Marine Air Group Task Force (MAGTF) commander increased capability for real time intelligence gathering and an armed capability for targets of opportunity and suppressive fire-support. The ISR/Weapon System Kit will consist of a target sight sensor, wing mounted air-to-ground missiles, air-to-ground precision guided munition delivery via the aft cargo door, and a rapid fire 30mm cannon. The system will be configured as a Roll-On/ Roll-Off capability to allow for rapid deployment. The program will leverage off of current technology/fielded systems to provide rapid integration of this new capability. Future capabilities will include door modifications to allow the 30mm cannon to be able to fire with the door in the closed position, capability to launch precision guided munitions from within the aircraft while pressurized and moving the Hellfire launch rack from the 330 wing-station to the 430 wing-station.											
This program element includes \$5.809 million for the Defense Acquisition Development Fund (DAWDF) in FY 2009.											

UNCLASSIFIED

R-1 Line Item #132

Page 1 of 8

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy		PE 0605430N: C/KC-130 Avionics Modernization Program (AMP)			
BA 5: Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	24.291	0.000	0.000	0.000	0.000
Current President's Budget	18.922	0.000	0.000	0.000	0.000
Total Adjustments	-5.369	0.000	0.000	0.000	0.000
• 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	-4.742	0.000			
• SBIR/STTR Transfer	-0.627	0.000			
Change Summary Explanation					
Technical: Not applicable.					
Schedule: Due to Developmental delays, DT/QRA will not be completed until April 2010.					
FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.					

UNCLASSIFIED

R-1 Line Item #132

Page 2 of 8

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0605430N: <i>C/KC-130 Avionics Modernization Program (AMP)</i>				PROJECT 3199: <i>Avionics Modernization Program</i>			
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
3199: <i>Avionics Modernization Program</i>	18.922	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.922
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification <p>Avionics Modernization - Due to programmatic delays of the Avionics Modernization Program and USMC decision to pursue an all KC-130J model fleet, the program is being restructured.</p> <p>Harvest HAWK - The objective of this effort is to integrate an ISR (Intelligence, Surveillance & Reconnaissance) Weapon System Kit into the KC-130J aircraft which provides an armed capability to provide intra-theater suppressive fire support for ground troops as well as intelligence and reconnaissance capability for theater commanders. The new KC-130J is a force multiplier. The J tanker is capable of refueling both fixed wing and rotary wing aircraft, as well as conducting rapid ground refueling. KC-130Js have been continuously deployed in support of world-wide combat operations providing multi-mission, tactical aerial refueling, and fixed-wing assault support. This added capability will provide the Marine Air Group Task Force (MAGTF) commander increased capability for real time intelligence gathering and an armed capability for targets of opportunity and suppressive fire-support. The ISR/Weapon System Kit will consist of a target sight sensor, wing mounted air-to-ground missiles, air-to-ground precision guided munition delivery via the aft cargo door, and a rapid fire 30mm cannon. The system will be configured as a Roll-On/ Roll-Off capability to allow for rapid deployment. The program will leverage off of current technology/fielded systems to provide rapid integration of this new capability. Future capabilities will include door modifications to allow the 30mm cannon to be able to fire with the door in the closed position, capability to launch precision guided munitions from within the aircraft while pressurized and moving the Hellfire launch rack from the 330 wing-station to the 430 wing-station.</p> <p>This program element includes \$5.809 million for the Defense Acquisition Development Fund (DAWDF) in FY 2009.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Avionics Modernization Program						13.113	0.000	0.000	0.000	0.000	

UNCLASSIFIED

R-1 Line Item #132

Page 3 of 8

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)			R-1 ITEM NOMENCLATURE PE 0605430N: C/KC-130 Avionics Modernization Program (AMP)			PROJECT 3199: Avionics Modernization Program					
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2009 Accomplishments: Avionics Modernization - Due to Programmatic Delays of the Avionics Modernization Program and USMC decision to pursue an all KC-130J model fleet, the program is being restructured. FY09: Harvest HAWK - Technical Interchange Meeting (TIM) completed 3/09. System Design Review (SDR) completed 7/09.											
DAWDF FY 2009 Accomplishments: DAWDF Realignment.						5.809	0.000	0.000	0.000	0.000	
Accomplishments/Planned Programs Subtotals						18.922	0.000	0.000	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• APN/0560: C-130 Series (OSIP 022-07)	2.000	52.324	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	83.224
D. Acquisition Strategy											
Avionics Modernization - Due to Programmatic Delays of the Avionics Modernization Program and USMC decision to pursue an all KC-130J model fleet, the program is being restructured.											
Harvest HAWK - The Harvest HAWK Program has awarded a FFP contract with Lockheed Martin Marietta / Lockheed Martin Skunkworks to perform system integration and engineering of the Harvest HAWK capability. The strategy is to use one contract to perform both system integration and production.											
E. Performance Metrics											
Successful completion of Developmental Testing/Quick Assessment Review to support OCONUS deployment NLT April 2010.											

UNCLASSIFIED

R-1 Line Item #132

Page 4 of 8

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605430N: C/KC-130 Avionics Modernization Program (AMP)				PROJECT 3199: Avionics Modernization Program					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Aircraft Integration	SS/FFP	Lockheed Martin Marietta, GA	22.800	0.000		0.000		0.000		0.000	0.000	22.800	22.800
GFE	MIPR	Various Various	0.874	0.000		0.000		0.000		0.000	0.000	0.874	Continuing
Subtotal			23.674	0.000		0.000		0.000		0.000	0.000	23.674	22.800
Remarks													
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Developmental Test & Evaluation	WR	NAWCAD Patuxent River	2.511	0.000		0.000		0.000		0.000	0.000	2.511	Continuing
Operational Test & Evaluation	WR	NAWCAD Patuxent River	3.431	0.000		0.000		0.000		0.000	0.000	3.431	Continuing
Live Fire Test & Evaluation	WR	NAWCWD Patuxent River	0.800	0.000		0.000		0.000		0.000	0.000	0.800	Continuing
Subtotal			6.742	0.000		0.000		0.000		0.000	0.000	6.742	
Remarks													

UNCLASSIFIED

R-1 Line Item #132

Page 5 of 8

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
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Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Contractor Engineering Support	WR	NAWCAD Patuxent River	0.610	0.000		0.000		0.000		0.000	0.000	0.610	Continuing
Government Engineering Support	WR	Various Various	4.178	0.000		0.000		0.000		0.000	0.000	4.178	Continuing
Program Management Support	WR	NADEP Cherry Point	0.266	0.000		0.000		0.000		0.000	0.000	0.266	Continuing
DAWDF Realignment	Various/ Various	Various Various	5.809	0.000		0.000		0.000		0.000	0.000	5.809	Continuing
Subtotal			10.863	0.000		0.000		0.000		0.000	0.000	10.863	
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			41.279	0.000		0.000		0.000		0.000	0.000	41.279	22.800
Remarks													
Totals may not add due to rounding.													

UNCLASSIFIED

R-1 Line Item #132

Page 6 of 8

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy																								DATE: February 2010							
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)												R-1 ITEM NOMENCLATURE PE 0605430N: C/KC-130 Avionics Modernization Program (AMP)												PROJECT 3199: Avionics Modernization Program							
Fiscal Year		2009				2010				2011				2012				2013				2014				2015					
		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		
Acquisition Milestones																															
New Start Approval																															
Contract Award																															
First Flight Deliver Aircraft																															
Technical Reviews																															
Test & Evaluation Milestones																															
Development Test																															
Quick Readiness Assessment																															
Production Milestones																															
LRIP I																															
LRIP II																															
FRP																															
Production Deliveries																															

UNCLASSIFIED

R-1 Line Item #132

Page 7 of 8

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0605430N: <i>C/KC-130 Avionics Modernization Program (AMP)</i>	PROJECT 3199: <i>Avionics Modernization Program</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
New Start Approval	2	2009	2	2009
Contract Award	3	2009	3	2009
First Flight	4	2009	4	2009
Deliver Aircraft	4	2009	4	2009
Technical Interface Meeting (TIM)	2	2009	2	2009
System Design Review (SDR)	4	2009	4	2009
Flight Readiness Review (FRR)	4	2009	4	2009
Ground Vibration Testing (GVT)	3	2009	4	2009
Flight Test Complete	4	2009	4	2009
Developmental Testing (DT-IIA)	2	2010	2	2010
Quick Readiness Assessment (QRA)	2	2010	3	2010

UNCLASSIFIED