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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 0207224F I Combat Rescue and Recovery							
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	-	2.582	5.095	0.412	-	0.412	-	-	-	-	-	8.089
676016: Avionics Development and Integration	-	2.582	5.095	0.412	-	0.412	-	-	-	-	-	8.089
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2016, Project 676016, Avionics Development and Integration will complete.

A. Mission Description and Budget Item Justification

The Air Force Rotary Wing Avionics Development and Integration effort is a program to develop a fully integrated avionics upgrade that includes predictive terrain awareness. This program focuses on developing and integrating technologies that will increase the situational awareness of helicopter crews in a degraded visibility environment. A severable portion of this program is Brown Out Symbology Software & Landing Guidance (BOSS-LG), which provides precision approach cues to command navigation to a landing point in adverse weather and/or reduced visibility conditions. This total effort was initiated by the Defense Safety Oversight Council.

This program is in 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 and subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	2.582	5.095	0.415	-	0.415
Current President's Budget	2.582	5.095	0.412	-	0.412
Total Adjustments	-	-	-0.003	-	-0.003
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.003	-	-0.003

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

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Avionics Development and Integration	2.582	5.095	0.412	-	0.412

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C. Accomplishments/Planned Programs (\$ in Millions)							
			FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Description: Program focuses on developing and integrating technologies that will increase the situational awareness of helicopter crews in a degraded visibility environment. FY 2014 Accomplishments: Provided integration contracting support, program management, engineering, simulation, software support, and second developmental flight test. Completed integrated payload design. Completed Military Utility Assessment. FY 2015 Plans: Provided program management, engineering, software support to build and qualify integrated Forward Looking InfraRed/Laser Radar Turrets for HH-60G. FY 2016 Base Plans: Provides program management to advance Laser Radar development and landing guidance symbology integration. FY 2016 OCO Plans: N/A							
Accomplishments/Planned Programs Subtotals			2.582	5.095	0.412	-	0.412
D. Other Program Funding Summary (\$ in Millions) N/A							
Remarks							
E. Acquisition Strategy The Air Force is in the process of integrating the Three Dimensional Landing Zone (3D-LZ) technology into an airworthy payload. This payload will be integrated with existing forward looking infrared turrets to minimize additional equipment and weight on the aircraft. Once the payload is tested, the Air Force will finalize its strategy for fleet implementation.							
F. 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 0207224F / <i>Combat Rescue and Recovery</i>						Project (Number/Name) 676016 / <i>Avionics Development and Integration</i>			
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
System Engineering	C/CPFF	Raytheon Space and Airborne Systems : El Segundo, CA	-	1.018	Mar 2014	4.100	Nov 2014	-		-		-	Continuing	Continuing	-
Subtotal			-	1.018		4.100		-		-		-	-	-	-
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
Flight Test	MIPR	Aero Flight Dynamics Directorate : Moffett Field, CA	-	1.118	Jun 2014	0.885	Feb 2015	-		-		-	Continuing	Continuing	-
Subtotal			-	1.118		0.885		-		-		-	-	-	-
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
Program Management	MIPR	AFRL : Eglin AFB, FL	-	0.446	Feb 2014	0.110	Jan 2015	0.412	Jan 2016	-		0.412	Continuing	Continuing	-
Subtotal			-	0.446		0.110		0.412		-		0.412	-	-	-

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	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	-	2.582		5.095		0.412		-		0.412	-	-	-
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Air Force			Date: February 2015		
Appropriation/Budget Activity 3600 / 7		R-1 Program Element (Number/Name) PE 0207224F / <i>Combat Rescue and Recovery</i>			Project (Number/Name) 676016 / <i>Avionics Development and Integration</i>

	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
Ladar Payload Development and Assembly																												
EH-60 Ladar Flight Test																												
Military Utility Assessment																												
Integrated Payload Ladar Development and Flight Test																												
Integrated FLIR/Ladar Payload Assembly																												

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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 0207224F / <i>Combat Rescue and Recovery</i>	Project (Number/Name) 676016 / <i>Avionics Development and Integration</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Ladar Payload Development and Assembly	1	2014	2	2014
EH-60 Ladar Flight Test	2	2014	3	2014
Military Utility Assessment	3	2014	1	2015
Integrated Payload Ladar Development and Flight Test	1	2015	1	2016
Integrated FLIR/Ladar Payload Assembly	1	2016	1	2017