Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force

Date: February 2015

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0207224F I Combat Rescue and Recovery

Operational Systems Development

	-											
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

PE 0207224F: Combat Rescue and Recovery

Page 1 of 6

R-1 Line #143

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force		Date: February 2015
· · · · · · · · · · · · · · · · · · ·	R-1 Program Element (Number/Name) PE 0207224F / Combat Rescue and Recovery	

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.

PE 0207224F: Combat Rescue and Recovery

Air Force

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Page 2 of 6 R-1 Line #143

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Air F	orce								Date:	February	2015		
Appropriation/Budget Activity 3600 / 7									lumber/Na Pescue and	Project (Number/Name) 676016 I Avionics Development and Integration						
Product Developme	nt (\$ in M	illions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Award Date Cost Date Cost		Award Date	Cost	Cost To	Total Cost	Target Value o Contrac			
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 Millior	ns)			FY 2	2014	FY 2	2015		2016 ase		2016 CO	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	Total Cost	Target Value o Contrac	
		Subtotal	-	-		-		-		-		-	-	-		
Test and Evaluation	(\$ in Milli	ions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	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	Total Cost	Target Value o Contrac	
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 Servic	es (\$ in M	lillions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	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	Total Cost	Target Value o Contrac	
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			_	

PE 0207224F: Combat Rescue and Recovery

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	016 Air F	orce								Date:	February	2015	
Appropriation/Budget Activity 3600 / 7					7224F <i>I</i>	•	umber/Nar escue and	•	_	t (Number 6 I Avionics tion	,	ment an	d
	Prior Years	FY 2	2014	FY 2	2015	FY 2 Ba		FY 2 OC		FY 2016 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	Project Cost Totals - 2.582					0.412	0.412	-	-	-			

Remarks

PE 0207224F: Combat Rescue and Recovery

Exhibit R-4, RDT&E Schedule Profile: PB 2016	Air F	orce	Э																					Dat	e: F	ebru	ıary	201	5	
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207224F / Combat Rescue and Recovery											Project (Number/Name) 676016 I Avionics Development and Integration													
	FY 2014			l	FY 2015				FY 2016				FY 2017			FY 201			018			FY 2019			FY 20					
	1	2	: 3	3 4	ı.	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																														

PE 0207224F: Combat Rescue and Recovery Air Force

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

Schedule Details

	St	art	E	nd
Events	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

PE 0207224F: Combat Rescue and Recovery