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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0207224F <i>I Combat Rescue and Recovery</i>							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	0.398	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.398
676016: <i>Avionics Development and Integration</i>	-	0.398	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.398
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.412	0.000	0.000	0.000	0.000
Current President's Budget	0.398	0.000	0.000	0.000	0.000
Total Adjustments	-0.014	0.000	0.000	0.000	0.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.014	0.000	0.000	0.000	0.000

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

	FY 2016	FY 2017	FY 2018
Title: Avionics Development and Integration	0.398	-	-
Description: Program focuses on developing and integrating technologies that will increase the situational awareness of helicopter crews in a degraded visibility environment.			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
<u>FY 2016 Accomplishments:</u> Provides program management to advance Laser Radar development and landing guidance symbology integration. N/A				
Accomplishments/Planned Programs Subtotals		0.398	-	-
<u>D. Other Program Funding Summary (\$ in Millions)</u> N/A <u>Remarks</u> <u>E. Acquisition Strategy</u> 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. <u>F. Performance Metrics</u> 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.				