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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 0207227F I Combat Rescue - Pararescue							
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	-	0.350	0.883	0.657	-	0.657	0.708	0.697	0.657	0.669	Continuing	Continuing
675352: Guardian Angel RDT&E	-	0.350	0.883	0.657	-	0.657	0.708	0.697	0.657	0.669	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Guardian Angel (GA) is an Air Force non-aircraft weapon system within the overarching Battlefield Airmen Modernization program. GA is a Family of Systems (FoS) based in both human and equipment capabilities formulated to execute Air Force Personnel Recovery (PR) across the full spectrum of military operations. Established by the Air Force Chief of Staff in 2003 and officially captured in AFD 10-9, the GA FoS is employed by three distinct Air Force specialties: Pararescuemen (PJ), Combat Rescue Officer (CRO), and Survival, Evasion, Resistance, Escape (SERE). The GA FoS is comprised of nine critical mission areas: Precision Aerial Insertion, Information Management, Force Application, Visual Augmentation, Maritime Recovery, Ground Mobility, Technical Rescue, Medical, and SERE. GA focus is on maintaining legacy weapon system capability while modernizing/improving subsystems for better mission effectiveness.

Funds will be used to obtain significant improvements in operational capability and develop items within the GA FoS to include but not limited to: SONAR, Maritime Recovery, Technical Recovery, Oxygen Systems, Medical Monitoring, and the Guardian Angel Air Operations Kit. The Guardian Angel weapon system development activities also include studies, analysis, and developmental testing to support both current and future program planning and execution. Funding will deliver enhanced capability for the dismounted Guardian Angel soldier in terms of dramatic weight reduction and increased mission effectiveness across the conflict spectrum.

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 or 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	0.350	0.883	0.791	-	0.791
Current President's Budget	0.350	0.883	0.657	-	0.657
Total Adjustments	-	-	-0.134	-	-0.134
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.134	-	-0.134

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2014	FY 2015	FY 2016		
Title: Guardian Angel Family of Systems (FoS)								0.350	0.883	0.657		
Description: Standardize, modernize and develop additional capability for the Guardian Angel (GA) weapon system used by Combat Rescue Officers and Pararescuemen. Development efforts provide enhanced and improved capabilities for execution of Air Force combat search and rescue and personnel recovery. This weapon system is utilized across the full spectrum of Personnel Recovery (PR) military operations to include patient treatment, extrication, surface/underwater search and recovery, airborne infill/exfill, and ground recovery operations.												
FY 2014 Accomplishments: Completed development of software plug-ins, software updates, and integration for inclusion of Medical 9 Line and CSAR 15 Line form templates in GAO Kit software for greater battlefield situational awareness and patient care. In addition, additional training was required to be developed and conducted to support government testing events for the GAO Kit software and equipment. Continued development efforts and studies for Remote Patient Monitoring and Digital Enhanced Vision Devices as tools for use within the GAO Kit. Continued exploration and studies of an upgraded Fire Suppression System for Technical Recovery that will increase pararescue capabilities for extraction of personnel and equipment.												
FY 2015 Plans: Continue execution and development of previous year's acquisition activities. Complete test, study, strategic planning, and development activities for increased capability and address Engineering Change Proposals as needed. Conduct development and system enhancements on existing and future systems through incorporating test feedback and user inputs into subsequent iterations for better capability and mission success.												
FY 2016 Plans: Will continue execution and development of previous year's acquisition activities. Will complete test, study, strategic planning, and development activities for increased capability and address Engineering Change Proposals as needed. Will conduct development and system enhancements on existing and future systems through incorporating test feedback and user inputs into subsequent iterations for better capability and mission success.												
Accomplishments/Planned Programs Subtotals								0.350	0.883	0.657		
D. 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	
• OPAF: BA04: Line Item # 842990: Items Less than \$5M (Safety)	19.593	24.174	11.924	-	11.924	28.551	25.828	22.025	22.415	Continuing	Continuing	

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D. Other Program Funding Summary (\$ in Millions)											
			FY 2016	FY 2016	FY 2016					Cost To	
Line Item	FY 2014	FY 2015	Base	OCO	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• OPAF: BA02: Line Item# 823230: <i>Security and Tactical Vehicles</i>	0.580	3.719	3.911	-	3.911	3.983	4.054	4.126	4.200	Continuing	Continuing
• OPAF: BA04: Line Item# 842140: <i>Night Vision Goggles</i>	2.430	2.409	0.801	-	0.801	-	-	-	-	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
The Guardian Angel (GA) program will address warfighter immediate needs to standardize, modernize, and develop additional capability for the weapon system used by Combat Rescue Officers and Pararescuemen (Phase one). The program will also address future requirements for the weapon system that will encompass the needs of all three GA career fields (Phase two). Phase two of the GA program is an incremental evolutionary acquisition effort in which requirements are fulfilled through further sub-system development and integration. These requirements are being identified in an ongoing study conducted by HQ Air Combat Command. The program has been divided into two phases to more rapidly meet the user's immediate need to standardize and modernize the weapon system.											
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 0207227F / Combat Rescue - Pararescue				Project (Number/Name) 675352 / Guardian Angel RDT&E					
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
GA Family Of Systems	Various	Various : Various,	-	-		0.883	Jan 2015	0.657	Jan 2016	-		0.657	Continuing	Continuing	TBD
Subtotal			-	-		0.883		0.657		-		0.657	-	-	-
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
GAO Kit Software	C/Various	413 TS : WPAFB, OH	-	0.300	Sep 2014	-		-		-		-	Continuing	Continuing	TBD
Test Agency Support	RO	46TS : Eglin AFB, FL	-	0.050	Mar 2014	-		-		-		-	Continuing	Continuing	TBD
Subtotal			-	0.350		-		-		-		-	-	-	-
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			-	0.350		0.883		0.657		-		0.657	-	-	-
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 0207227F / <i>Combat Rescue - Pararescue</i>			Project (Number/Name) 675352 / <i>Guardian Angel RDT&E</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
Handheld Link 16																												
GAO Kit Software																												
Minor Modifications																												

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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 0207227F / Combat Rescue - Pararescue	Project (Number/Name) 675352 / Guardian Angel RDT&E	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Handheld Link 16	2	2017	4	2020
GAO Kit Software	1	2014	4	2020
Minor Modifications	2	2017	2	2020