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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0408011F / <i>Special Tactics / Combat Control</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	6.163	9.198	9.421	0.000	9.421	9.655	9.854	10.211	10.413	Continuing	Continuing
675138: <i>ST System Development</i>	-	6.163	9.198	9.421	0.000	9.421	9.655	9.854	10.211	10.413	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Special Tactics (ST) System Development project focuses on modernization development for the Special Warfare Acquisition Growth and Refresh (SWAGR). SWAGR will develop, test, train, and modernize the existing and future Family of Systems (FoS) that provide a state-of-the-art Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) capability. It also provides a suite of systems for all Air Force Specialty Codes supporting the ST community within the Air Force Special Operations Command's (AFSOC's) Special Warfare operators. ST System Development focuses on reducing the risk of fratricide and substantially reducing size and weight of the equipment carried through various core capabilities, which include but are not limited to: Human Machine Interface (HMI), Line of Sight (LOS) targeting, medical monitoring, Machine-to-Machine (M2M) C4ISR System, Electromagnetic Spectrum awareness/defensive/offensive capabilities and all other ST capability needs.

This program will develop and enhance technologies for Special Warfare ST operators to recognize, identify, range, nominate, and designate targets during both day and night operations. SWAGR will also significantly reduce the time required to find, track, fix targets, and engage the enemy by attacking adversary signals of interest, providing highly accurate target grid coordinates in three dimensions, generating target imagery both pre- and post-strike, and transmitting target data to Command and Control centers. SWAGR systems are light, compact, and portable for use by dismounted Special Warfare ST operators. FY25 SWAGR funding will provide significant improvements in operational capability, situational awareness, and precision lethality in the battle space while continuing to build and enhance the SWAGR family of systems. This may be conducted through industry technology demonstrations, prototypes, and associated engineering support to posture the SWAGR for technology insertion. These efforts will deliver enhanced capability for the dismounted soldier in terms of dramatic weight reduction and increase mission effectiveness across the conflict spectrum. SWAGR also supports AFSOC Tactical Command and Control (TAC C2) programs to develop and enhance communications systems and equipment essential for ST combat controllers, pararescue, special reconnaissance, and tactical air controller parties within AFSOC to perform their mission. The ST operators use this equipment to gather and transmit assault zone suitability and weather data and to perform tactical airfield/assault landing/drop zone operations. Due to the rapidly changing threat environment, the acquisition program manager has the authority to redirect funding as necessary to meet current slated and emerging requirements. The above efforts may change based on the need to support current Air Force mission requirements.

SWAGR funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F,

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0606398F. In FY23 \$1.986M was expended for civilian pay expenses in this program element, and in FY24 \$0.000M is forecasted for civilian pay expenses in this program element.

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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	6.297	9.198	9.404	0.000	9.404
Current President's Budget	6.163	9.198	9.421	0.000	9.421
Total Adjustments	-0.134	0.000	0.017	0.000	0.017
• 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	-0.134	0.000	0.017	0.000	0.017

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Human Machine Interface (HMI)	1.600	2.000	2.052
Description: HMI is a system of systems that provides integrated operator interface between all the machine components by using unified visual and auditory displays and controls, such as head-mounted displays, tactical earplug connectivity with man pack or handheld communications, integrated tactical computing solution, electromagnetic spectrum Awareness, defensive/offensive capabilities and power generation and management systems.			
FY 2024 Plans:			
- Support digitally aided combat close air support operations. Plan to develop and operate tests or full spectrum certification (Joint Interoperable Test Command (JITC), Air Force System Interoperability Test (AFSIT), and Authority to Operate (ATO)).			
- Define requirements for implementation of the Iridium waveform granting DoD dedicated airtime.			
- Upgrade HMI efforts which reduce the Size, Weight, and Power required to be carried by the Special Tactics Community. Specifically includes wireless technology.			
- Mature available technology for future dismounted communication contract in order to meet the requirements of the user.			
FY 2025 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> - Will continue to support digitally aided combat close air support operations. Plan to develop and operate tests or full spectrum certification JITC, AFSIT, and ATO. - Will continue to explore and define requirements for implementation of the Iridium waveform granting DoD dedicated airtime. - Will upgrade HMI efforts which reduce the size, weight and power required to be carried by the Special Tactics Community. Specifically includes wireless technology. - Will require maturation of available technology for future dismounted communication contract in order to meet the requirements of the user. <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased to account for inflation adjustments</p>				
<p>Title: Line of Sight</p> <p>Description: Line of Sight (LOS) targeting enables the Special Warfare ST operators to find, fix, track, target and engage the enemy at close range during day or night operations by providing highly accurate target coordinates in three dimensions. LOS generates vital imagery both pre and post-strike at a fraction of the weight and is more efficient than legacy equipment carried by the operator. Non Line of sight (XLOS) targeting device exploration and development will help capture future capabilities to the Special Tactics community. XLOS devices allow for a remote expendable reporting environmental sensor that enhances AFSOC Special Tactics Team's ability to provide timely, accurate, and critical deep battle space weather reconnaissance and intelligence.</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Explore and develop future XLOS targeting device capabilities and capabilities for sensing (passive and active) enemy activity within the electromagnetic spectrum (RF communication) and jamming effectiveness (EMS awareness), develop and integrate Low-Probability Intercept/Low-Probability Detection (LPI/LPD) capabilities, and Small UAS comm relay systems for Special Tactics community. <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Will continue to explore and develop future Non Line of sight (XLOS) targeting device capabilities and capabilities for sensing (passive and active) enemy activity within the electromagnetic spectrum (RF communication) and jamming effectiveness (EMS awareness), develop and integrate LPI/LPD capabilities, and Small UAS comm relay systems for Special Tactics community. <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased to account for inflation adjustments</p>		0.222	0.250	0.262
<p>Title: Machine-to-Machine (M2M) Software Development</p>		4.341	6.948	7.107

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Description: This program is a Modern Software Development Program (MSDP). The software acquisition uses a modern software development methodology and is not primarily in sustainment. It has no objective system and will use iterative development across the project's lifecycles.</p> <p>A suite of map-centric software applications that enables M2M transfer of precision targeting, information management, C4ISR and situational awareness information. Provides the Special Warfare ST operators the ability to find, fix, track, target, and engage the enemy which greatly reduces the kill chain and drastically decreases the possibility of fratricide by enhancing the operator's SA on the battlefield.</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> - Explore requirements to address future FoS capability gaps. - Research, develop and test efforts to support requirements in BAO FoS CDD, which includes but is not limited to Assault Zones, precision approach, Fires, Weather, Personnel Recovery, electromagnetic spectrum awareness/defensive/offensive and enabling capabilities. <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> - Will continue to explore requirements to address future FoS capability gaps. - Will continue research, develop and test efforts to support requirements in BAO FoS CDD, which includes but is not limited to Assault Zones, precision approach, Fires, Weather, Personnel Recovery, electromagnetic spectrum awareness/defensive/offensive and enabling capabilities. <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding increased to account for inflation adjustments</p>			
Accomplishments/Planned Programs Subtotals	6.163	9.198	9.421

D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• OPAF 03 Line Item 837100: <i>Tactical C-E Equipment</i>	18.033	17.311	24.814	-	24.814	20.555	21.401	26.855	40.637	Continuing	Continuing
• OPAF 04 Line Item 842990: <i>Personal Safety and Rescue Equipment</i>	12.496	2.469	5.054	-	5.054	4.592	3.675	5.283	14.543	Continuing	Continuing

Remarks

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E. Acquisition Strategy

Special Warfare Acquisition Growth and Refresh (SWAGR) awarded a competitive contract in May FY23 to continue machine-to-machine (M2M) software development. This effort includes system engineering, design, integration, and fielding support for M2M software. The above efforts may change based on the need to support current Air Force mission requirements. Program management for the SWAGR program is under direction of the Program Executive Office Intelligence, Surveillance, Reconnaissance (ISR) and Special Operations Forces (SOF), Air Force Life Cycle Management Center (AFLCMC) Air Force Materiel Command, at Wright-Patterson Air Force Base, Ohio. AFLCMC provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
3600 / 7				PE 0408011F / <i>Special Tactics / Combat Control</i>						675138 / <i>ST System Development</i>					
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Human Machine Interface (HMI)	C/Variou	Various : Various	-	1.035	Dec 2022	1.500	Dec 2023	1.525	Dec 2024	-		1.525	Continuing	Continuing	-
Line of Sight	SS/ Various	Phsyical Optics Corporation : Torrance, CA	-	0.002	Nov 2022	0.250	Nov 2023	0.262	Nov 2024	-		0.262	Continuing	Continuing	-
Machine-To-Machine (M2M) Software Development	C/CPFF	General Dynamics IT : Dayton, OH	-	0.600	Oct 2022	-		-		-		-	0.000	0.600	-
Machine-To-Machine (M2M) Software Development(New Contract)	C/CPFF	General Dynamics IT : Dayton, OH	-	1.602	Feb 2023	4.418	Oct 2023	4.481	Oct 2024	-		4.481	Continuing	Continuing	-
Subtotal			-	3.239		6.168		6.268		-		6.268	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Direct Cite Civilian Pay	WR	TBD : WP AFB, OH	-	0.770	Oct 2022	0.787	Oct 2023	0.800	Oct 2024	-		0.800	Continuing	Continuing	-
DCA Civilian Pay	WR	TBD : Hurlburt Field, FL	-	0.924	Oct 2022	0.943	Oct 2023	1.043	Oct 2024	-		1.043	Continuing	Continuing	-
Subtotal			-	1.694		1.730		1.843		-		1.843	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Test Agency Support	Various	46 TS : Eglin AFB, FL	-	0.800	Jan 2023	0.862	Jan 2024	0.870	Jan 2025	-		0.870	Continuing	Continuing	-
Subtotal			-	0.800		0.862		0.870		-		0.870	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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

<i>ST System Development</i>	
Human Machine Interface (HMI)	
Line of Sight	
Machine-To-Machine Software Development	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0408011F / <i>Special Tactics / Combat Control</i>	Project (Number/Name) 675138 / <i>ST System Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>ST System Development</i>				
Human Machine Interface (HMI)	1	2023	4	2029
Line of Sight	1	2023	4	2029
Machine-To-Machine Software Development	1	2023	4	2029