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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 I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207444F / <i>Tactical Air Control Party-Mod</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	-	10.008	10.060	12.171	0.000	12.171	12.605	12.864	6.426	6.554	Continuing	Continuing
676013: <i>Equipment Modernization</i>	-	10.008	10.060	12.171	0.000	12.171	12.605	12.864	6.426	6.554	Continuing	Continuing

A. Mission Description and Budget Item Justification

This budget line funds the Air Force Special Warfare (AFSPECWAR) Tactical Air Control Party (TACP) Weapon System which executes precision strike, integration, and all-domain command and control missions to meet Air Force power projection for the joint force's expanded maneuver.

TACP Airmen are part of the Air Force's premier ground combat units that are highly maneuverable and scalable. They execute ground-based command and control functions and seamlessly integrate kinetic and non-kinetic effects across the entire spectrum of conflict. They do this by providing joint force air component commanders with a highly trained force that operates at the tactical edge in highly contested environments and complicates enemy decision-making processes. Additionally, TACP Airmen conduct precision strike and integration operations at all echelons of maneuver warfare, from dismounted operations on the forward edge of the battlefield to tactical command posts; TACP Airmen plan, request, advise, and control joint fires and air power to meet supported commander's objectives.

The purpose of the Tactical Air Control Party - Modernization (TACP-M) program is to provide TACPs with modernized voice, data and video communications, advanced targeting equipment, and enhanced battlefield awareness/management capabilities across all domains. Improved targeting and data communications capabilities improve kill chain timelines, defeat adversary systems through opening and closing kill webs, extended critical networks to the forward edge, and when required reduce the probability of fratricide or collateral damage.

The TACP-M program support includes addressing frequent TACP combat deployments that sometimes lead users to change equipment procurement priorities to support urgent operational needs and respond to evolving threat environments. The TACP-M program jointly develops software with other AFSPECWAR programs to consolidate requirements that are common across the AFSPECWAR enterprise. This teaming arrangement helps standardize equipment, improves efficiency by consolidating acquisition efforts, and often reduces unit costs by increasing procurement quantities.

The TACP-M program provides and modernizes capabilities in the following five major areas: (1) Air Support Operations Center (ASOC)/ Tactical Operational Center (TOC) systems (used in mobile and maneuverable operations centers), (2) Vehicle Mounted Systems (used in tactical vehicles) and maneuverable operations, (3) Dismounted Systems (primarily used by Joint Terminal Attack Controllers (JTACs) in wearable configurations), (4) Digitally-Aided Close Air Support (DACAS) software, and (5) Support distributed and resilient ground-based command and control teams that leverage airpower within the Theater Air Control System

FY25 funding will allow for the continued development of the CASS 1.4.5 and WARHAWK software. The CASS 1.4.5 and WARHAWK software program will modernize the software used in Command, Control, Communications and Cybersecurity (C4) processing systems for ASOC/TOC operations, as well as, vehicle Mounted and Dismounted operations. The software will allow enhanced capability and seamless communication between the operations centers and the TACP military units in high combat areas.

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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 0207444F / <i>Tactical Air Control Party-Mod</i>
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TACP-M 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 such as but not limited to Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 \$00.000M was expended for civilian pay expenses in this program element, and in FY24 \$00.000M 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	10.304	10.060	12.276	0.000	12.276
Current President's Budget	10.008	10.060	12.171	0.000	12.171
Total Adjustments	-0.296	0.000	-0.105	0.000	-0.105
• 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	-0.296	0.000			
• Other Adjustments	0.000	0.000	-0.105	0.000	-0.105

Change Summary Explanation

The FY 2025 funding request was reduced by \$.127 million to account for the availability of prior year execution balances.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207444F / <i>Tactical Air Control Party-Mod</i>				Project (Number/Name) 676013 / <i>Equipment Modernization</i>			
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
676013: <i>Equipment Modernization</i>	-	10.008	10.060	12.171	0.000	12.171	12.605	12.864	6.426	6.554	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207444F / <i>Tactical Air Control Party-Mod</i>	Project (Number/Name) 676013 / <i>Equipment Modernization</i>

TACP-M 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 such as but not limited to Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs.

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

	FY 2023	FY 2024	FY 2025
<p>Title: Software - CASS 1.4.5 and WARHAWK</p> <p>Description: The CASS 1.4.5 and WARHAWK software program will modernize the software used in Command, Control, Communications and Cybersecurity (C4) processing systems for ASOC/TOC operations, as well as, vehicle Mounted and Dismounted operations. The software will allow enhanced capability and seamless communication between the operations centers and the TACP military units in high contested areas.</p> <p>FY 2024 Plans:</p> <ul style="list-style-type: none"> -Continue agile software development with quarterly software releases across TACP systems. -Continue testing quarterly software releases, as applicable. -Continue to support development/fielding of Special Warfare Assault Kit (SWAK) and Dismounted Special Warfare software. -Continue TACP common software architecture for further development to meet other Special Warfare airman operational needs. -Continue to integrate WARHAWK with ASOC-Mod software acquisition. -Continue to integrate and test DACAS software data communications interfaces with C2 Nodes, CAS aircraft, Army Tactical Network (ATN), Soldier Radios Waveform (SRW) networks, Theater Battle Management Core Systems (TBMCS), and Mobile User Objective System (MUOS) Satellite communications (SATCOM) networks to enhance interoperability between TACPs and other joint warfighters. -Conduct investigations to provide additional features (capabilities) for the software. <p>FY 2025 Plans:</p> <ul style="list-style-type: none"> -Will continue agile software development with at least quarterly software releases across TACP systems. -Will continue testing software releases, as applicable. -Will continue to support development/fielding of Special Warfare Assault Kit (SWAK)/Tactical Assault Kit (TAK) and Dismounted Special Warfare software. -Will continue TACP common software architecture for further development to meet other Special Warfare airman operational needs. -Will continue to integrate WARHAWK with ASOC-Mod software acquisition. -Will continue to integrate and test DACAS software data communications interfaces with C2 Nodes, CAS aircraft, Army Tactical Network (ATN), Soldier Radios Waveform (SRW) networks, Theater Battle Management Core Systems (TBMCS), and Mobile User Objective System (MUOS) Satellite communications (SATCOM) networks to enhance interoperability between TACPs and other joint warfighters. 	10.008	10.060	12.171

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force	Date: March 2024
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
-Will conduct investigations, studies and assessments to provide additional features (capabilities) for the software.			
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Increase in funding due to inflationary adjustments and to perform additional WARHAWK software sprint releases.			
Accomplishments/Planned Programs Subtotals	10.008	10.060	12.171

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF 03 Line item 837100: <i>Tactical C-E Equipment</i>	53.632	38.535	51.031	-	51.031	54.046	59.912	37.790	38.311	Continuing	Continuing

Remarks

D. Acquisition Strategy

TACP-M continues the replacement of CASS 1.4.5 software; titled WARHAWK. The original WARHAWK contract continues support activities through FY28. The new contract activity will be awarded in FY25 to continue required agile software development.

The ASOC-Mod effort will continue to modernize fielded ASOC/TOC software capabilities by developing enhanced communications capabilities

The SWAK/TAK Dismounted software awarded the follow-on Systems Engineering and Integration (S&EI) contract in May 23, which continues agile development and deployment through FY33

The Air Force Life Cycle Management Center (AFLCMC) located at Wright-Patterson AFB, OH is the contracting authority for the TACP-M program. 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

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CASS (TAK/SWAK) Software Dev Dismounted	Various	TBD : Dayton, OH	-	1.521	Apr 2023	2.652	Feb 2024	2.357	Feb 2025	-		2.357	Continuing	Continuing	-
WARHAWK CASS System Dev Mounted ATM	C/CPFF	GDIT : Dayton, OH	-	5.938	Mar 2023	4.568	Mar 2024	6.074	Mar 2025	-		6.074	Continuing	Continuing	-
WARHAWK CASS NSW, Crane (Naval Surface Warfare Center)	MIPR	NSWC Crane : Crane, IN	-	0.917	Jan 2023	1.060	Jan 2024	2.121	Jan 2025	-		2.121	Continuing	Continuing	-
Subtotal			-	8.376		8.280		10.552		-		10.552	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Agency Support	MIPR	Various : Multiple, FL	-	0.564	Apr 2023	0.619	Apr 2024	0.632	Apr 2025	-		0.632	Continuing	Continuing	-
Subtotal			-	0.564		0.619		0.632		-		0.632	Continuing	Continuing	N/A

Remarks
Development, operational and interoperability testing

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Support Costs (PSC)	Various	Various/Various : TBD	-	1.068	Jul 2023	1.161	Jul 2024	0.987	Jul 2025	-		0.987	Continuing	Continuing	-
Subtotal			-	1.068		1.161		0.987		-		0.987	Continuing	Continuing	N/A

			Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	10.008	10.060	12.171	-	12.171	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

WARHAWK Close Air Support System(CASS)	
DACAS (SWAK/TAK) Software SE&I follow-on contract (all versions) Design, Development, Testing and Fielding	
DACAS (WARHAWK) ATM Software follow-on contract (all versions) Design, Development, Testing and Fielding	
DACAS (SWAK/TAK) Software (all versions) Design, Development, Testing and Fielding	
DACAS (WARHAWK) ATM Software (all versions) Design, Development, Testing and Fielding	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
WARHAWK Close Air Support System(CASS)				
DACAS (SWAK/TAK) Software SE&I follow-on contract (all versions) Design, Development ,Testing and Fielding	2	2023	4	2029
DACAS (WARHAWK) ATM Software follow-on contract (all versions)Design, Development, Testing and Fielding	2	2025	4	2029
DACAS (SWAK/TAK) Software (all versions) Design, Development ,Testing and Fielding	1	2023	4	2028
DACAS (WARHAWK) ATM Software (all versions)Design, Development, Testing and Fielding	1	2023	2	2028