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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Air Force **Date:** March 2023

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	12.779	10.304	10.060	0.000	10.060	12.276	12.583	12.841	6.415	0.000	77.258
676013: <i>Equipment Modernization</i>	-	12.779	10.304	10.060	0.000	10.060	12.276	12.583	12.841	6.415	0.000	77.258

**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 operations to meet Air Force air, space, and cyber power projection and joint force objectives. TACP Airmen are the USAF's highly mobile and scalable ground-based command and control capability, which seamlessly integrates kinetic and non-kinetic effects cross the entire spectrum of conflict, by providing agile command and control to compete with or defeat peer adversaries at the tactical edge in highly contested environments. Additionally, TACP Airmen conduct precision strike and integration operations at all echelons of ground maneuver warfare, from dismounted operations on the front lines to Tactical Operation Center (TOC) operations; TACP Airmen plan, request, advise, and control joint fires and air power to meet commander objectives.

The purpose of the Tactical Air Control Party - Modernization (TACP-M) program is to provide TACPs voice, data and video communications, as well as targeting and battlefield awareness/management capabilities across all domains. Improved targeting and data communications capabilities provide more accurate target coordinates, reduce Close Air Support (CAS) response times, and reduce the probability of fratricide or collateral damage using networked data communication.

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 operational TACP equipment, improve 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)/TOC systems (used in fixed and mobile operations centers), (2) Vehicle Mounted Systems (used in TACP tactical vehicles) and semi-mobile operations, (3) Dismounted Systems (used by Joint Terminal Attack Controllers (JTACs) during Dismounted infantry operations), and (4) Digitally-Aided Close Air Support (DACAS) software, (5) Support USAF TOC-Light and TOC-Medium, as well as, support new USAF Tactical Airspace Control System (TACS)/Army Air Ground System (AAGS).

ASOC provides execution management and integration with fires systems, utilizes Air Operations Center (AOC) (i.e., the Air Tasking Order (ATO), Airspace Control Order (ACO)) inputs and archives data, provides a visual depiction and will assist in the management of the forward battlespace/area of contention in coordination with DOD, non-governmental, and international partners. It additionally provides TACP planning documents and data management/server capability for integrating ISR management, Common Operation Picture (COP) displays, target lists/priorities, and video feeds; managing ATOs in real time; and receiving Battle Damage Assessment (BDA) inputs. The ASOC will tie into the Theater Deployable Communications (TDC) Program Management Directive (PMD); provide Joint All Domain Command and Control (JADC2) capabilities that will be leader-centric, network enabled, and ready to operate in complex and degraded information environments; and support/execute air taskings should the AOC require assistance during periods of degraded operations.

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>
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Dismounted and ASOC/TOC/Mounted (ATM) software meets the technical needs of implementing TACP Command and Control (C2) capabilities in operational environments. Software supports a wide variety of radio systems and other emerging systems to be employed by TACPs in the future. Future upgrades are necessary to maintain interoperability with strike aircraft, joint fire support systems, and emerging data networking waveforms. Software upgrades provide a modular architecture for digital communications, messaging, data handling, hardware management, targeting, and battle space awareness capabilities. The key characteristic of the software will be the agile development of Open System, Modular architectures that will enable rapid integration with new end user devices (such as laser range finders, radios, Full Motion Video (FMV), targeting and laptops/hand held computing devices, and tactical gateways) and rapid development, testing and fielding of new mission capability modules to meet immediate and future requirements. TACP C2 elements will be aligned and integrated with the Advanced Battle Management System to ensure synergy of effort.

TACP DACAS (WARHAWK) software provides required advanced communication, advanced targeting capability, and significant interoperability improvements for mobile computing devices used by Vehicle Mounted systems and stationary systems used in operations centers. TACP DACAS software enables digital data communications with joint C2 nodes, other TACPs, strike aircraft, and Army C2 and Fire Support systems. It includes interfaces with ASOC/TOC, and JTAC radios and targeting devices, interoperability across the Dismounted, Vehicle Mounted systems, and ASOC/TOC mission sets. It also provides battlespace awareness capabilities needed to plan, request, coordinate, and control airspace, the integration of air and surface fires and Close Air Support (CAS) in support of ground maneuver forces.

The DACAS software interfaces with all TACP-M components and provides interoperability with joint strike aircraft (F-35, A-10, F-16, F-15, F/A-18, AV-8B, B-52, etc.), Remotely Piloted Aircraft (RPA), artillery fire support systems, network-enabled weapons, and C2 nodes. To enable data communications with those systems / nodes, DACAS incorporates several communications protocols including Variable Message Format (VMF), Link 16, Situational Awareness Data Link (SADL), Marine Tactical System (MTS), and U.S. Message Text Format (USMTF); along with emerging waveform technologies.

TACP DACAS (Special Warfare Assault Kit (SWAK)) - This program is a Software Engineering and Integration Program. 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 program's lifecycle. A suite of map-centric software applications that enables the transfer of precision targeting, information management, C4ISR (Command, Control Communications, Computers, Intelligence, Surveillance, and Reconnaissance), and Situational Awareness (SA) information is constantly being iteratively developed and integrated to provide the Special Warfare operators (TACPs) the ability to find, fix, track, target, and engage the enemy to include control and re-targeting of Network Enabled Weapons (NEW)". This greatly reduces the kill chain and drastically decreases the possibility of fratricide by enhancing the operator's SA on the battlefield.

Funding supports Dismounted, Vehicle Mounted, and ASOC/TOC software and hardware to address: interfaces with new Dismounted requirements, evolution of existing Tactical Assault Kit (TAK)/SWAK software which provides a framework for the TACP software interfaces, ASOC-Mod (interoperability and hardware/software interfaces), changes to Army fires support systems, changes to AOC Theater Battle Management Core Systems, updates for fielded versions, new USAF and Army future JADC2 capabilities, EMS (Electro-Magnetic Spectrum) Awareness and defensive/offensive capabilities, C2 shelter/trailer development, Small Unmanned Aerial System (SUAS) relaying and targeting equipment development, MCS connectivity, new joint DACAS standards, technical support to operators employing the software, and system prototyping for required future ASOC/TOC/Vehicle Mounted system capabilities.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 Air Force	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>
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Items requested in FY24 as identified in this Exhibit are representative but not limited to the items to be developed. Items developed during execution may change based on critical equipment needed to support current Air Force mission requirements. 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 for operational TACP units.

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.

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 FY2022 \$0.000M was expended for civilian pay expenses in this program element, and in FY 2023 \$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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	13.081	10.315	11.981	0.000	11.981
Current President's Budget	12.779	10.304	10.060	0.000	10.060
Total Adjustments	-0.302	-0.011	-1.921	0.000	-1.921
• 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	-0.302	0.000			
• Other Adjustments	0.000	-0.011	-1.921	0.000	-1.921

**Change Summary Explanation**

FY23 Project 674934 TACP-M funding incorrect due to a database error. Project 674934 TACP-M FY23 Current President Budget should equal \$10.008M. In FY23, there is a -\$0.296 SBIR/STTR adjustment

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Air Force										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 3600 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>				<b>Project (Number/Name)</b> 676013 / <i>Equipment Modernization</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
676013: <i>Equipment Modernization</i>	-	12.779	10.304	10.060	0.000	10.060	12.276	12.583	12.841	6.415	0.000	77.258
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Air Force Special Warfare (AFSPECWAR) Tactical Air Control Party (TACP) Weapon System executes precision strike, integration, and all-domain command and control operations to meet Air Force air, space, and cyber power projection and joint force objectives. TACP Airmen are the USAF's highly mobile and scalable ground based command and control capability, which seamlessly integrates kinetic and non-kinetic effects cross the entire spectrum of conflict, by providing agile command and control to compete with or defeat peer adversaries at the tactical edge in highly contested environments. Additionally, TACP Airmen conduct precision strike and integration operations at all echelons of ground maneuver warfare, from Dismounted operations on the front lines to tactical operations center operations at higher headquarters; TACP Airmen plan, request, advise, and control joint fires and air power to meet commander objectives.

The purpose of the Tactical Air Control Party - Modernization (TACP-M) program is to provide TACPs voice, data and video communications, targeting and battlefield awareness/management capabilities across all domains. Improved targeting and data communications capabilities provide more accurate target coordinates, reduce Close Air Support (CAS) response times, and reduce the probability of fratricide or collateral damage using networked data communication.

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 operational TACP equipment, improve 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 Operations Center (TOC) systems (used in fixed and mobile operations centers), (2) Vehicle Mounted Systems (used in TACP tactical vehicles) and semi-mobile operations, (3) Dismounted Systems (used by Joint Terminal Attack Controllers (JTACs) during Dismounted infantry operations), and (4) Digitally-Aided Close Air Support (DACAS) software, (5) Support to USAF Tactical Operations Center (TOC)-Light and TOC-Medium to support new USAF Tactical Airspace Control System (TACS)/Army Air Ground System (AAGS).

ASOC provides execution management and integration with fires systems, utilizes Air Operations Center (AOC) (i.e., the Air Tasking Order (ATO), Airspace Control Order (ACO) inputs and archives data, provides a visual depiction and will assist in the management of the forward battlespace/area of contention in coordination with DOD, non-governmental, and international partners. It additionally provides TACP planning documents and data management/server capability for integrating ISR management, Common Operation Picture (COP) displays, target lists/priorities, and video feeds, managing Air Tasking real time, and receiving Battle Damage Assessment (BDA) inputs. The ASOC will tie into the Theater Deployable Communications (TDC) Program Management Directive (PMD), provide Joint All Domain

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<p>Command and Control (JADC2) capabilities that will be leader-centric, network enabled, and ready to operate in complex and degraded information environments; to include the ability to support/execute air taskings should the AOC require assistance during periods of degraded operations.</p> <p>Dismounted and ASOC/TOC/Mounted (ATM) software meets the technical needs of implementing TACP Command and Control (C2) capabilities in operational environments. Software supports a wide variety of radio systems and other emerging systems to be employed by TACPs in the future. Future upgrades are necessary to maintain interoperability with strike aircraft, joint fire support systems, and emerging data networking waveforms. Software upgrades provide a modular architecture for digital communications, messaging, data handling, hardware management, targeting, and battle space awareness capabilities. The key characteristic of the software will be the agile development of Open System, Modular architectures that will enable rapid integration with new end user devices (such as laser range finders, radios, Full Motion Video (FMV), targeting and laptops/hand held computing devices, and tactical gateways) and rapid development, testing and fielding of new mission capability modules to meet immediate and future requirements. TACP C2 elements will be aligned and integrated with the Advanced Battle Management System to ensure synergy of effort.</p> <p>TACP DACAS (WARHAWK) software provides required advanced communication, advanced targeting capability, and significant interoperability improvements for mobile computing devices used by Vehicle Mounted systems and stationary systems used in operations centers. TACP DACAS software enables digital data communications with joint C2 nodes, other TACPs, strike aircraft, and Army C2 and Fire Support systems. It includes interfaces with ASOC/TOC, and JTAC radios and targeting devices, interoperability across the Dismounted, Vehicle Mounted systems, and ASOC/TOC mission sets. It also provides battlespace awareness capabilities needed to plan, request, coordinate, and control airspace, the integration of air and surface fires and Close Air Support (CAS) in support of ground maneuver forces.</p> <p>The DACAS software interfaces with all TACP-M components and provides interoperability with joint strike aircraft (F-35, A-10, F-16, F-15, F/A-18, AV-8B, B-52, etc.), Remotely Piloted Aircraft (RPA), artillery fire support systems, network-enabled weapons, and C2 nodes. To enable data communications with those systems / nodes, DACAS incorporates several communications protocols including Variable Message Format (VMF), Link 16, Situational Awareness Data Link (SADL), Marine Tactical System (MTS), and U.S. Message Text Format (USMTF); along with emerging waveform technologies.</p> <p>TACP DACAS (Special Warfare Assault Kit (SWAK)) - This program is a Software Engineering and Integration Program. 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 program's lifecycle. A suite of map-centric software applications that enables the transfer of precision targeting, information management, C4ISR (Command, Control Communications, Computers, Intelligence, Surveillance, and Reconnaissance), and Situational Awareness (SA) information is constantly being iteratively developed and integrated to provide the Special Warfare operators (TACPs) the ability to find, fix, track, target, and engage the enemy to include control and re-targeting of Network Enabled Weapons (NEW)". This greatly reduces the kill chain and drastically decreases the possibility of fratricide by enhancing the operator's SA on the battlefield.</p> <p>Funding supports Dismounted, Vehicle Mounted, and ASOC/TOC software and hardware to address: interfaces with new Dismounted requirements, evolution of existing Tactical Assault Kit (TAK)/SWAK software which provides a framework for the TACP software interfaces, ASOC-Mod (interoperability and hardware/software interfaces), changes to Army fires support systems, changes to AOC Theater Battle Management Core Systems, updates for fielded versions, new USAF and Army future JADC2 capabilities, EMS (Electro-Magnetic Spectrum) Awareness and defensive/offensive capabilities, C2 shelter/trailer development, Small Unmanned Aerial System (SUAS)</p>		

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<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>	<b>Project (Number/Name)</b> 676013 / <i>Equipment Modernization</i>
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relaying and targeting equipment development, MCS connectivity, new joint DACAS standards, technical support to operators employing the software, and system prototyping for required future ASOC/TOC/Vehicle Mounted system capabilities.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> TACP CASS 1.4.5</p> <p><b>Description:</b> CASS 1.4.5 and WARHAWK</p> <p>The TACP-M Software program will modernize software for Command, Control, Communications and Cybersecurity (C4) processing systems for multiple TACP mission areas, i.e., ASOC/TOC operations, Vehicle Mounted, and Dismounted operations</p> <p><b>FY 2023 Plans:</b></p> <ul style="list-style-type: none"> <li>-Will continue agile software development with quarterly software releases across TACP systems.</li> <li>-Will continue with testing of quarterly software releases as applicable.</li> <li>-Will continue to support development/fielding of Special Warfare Assault Kit (SWAK) and Dismounted Special Warfare software.</li> <li>-Will continue to standardize TACP common software architecture for further development to meet other Special Warfare airman operational needs.</li> <li>-Will continue to integrate WARHAWK with ASOC-Mod Software.</li> <li>-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.</li> <li>-Will conduct investigations to provide additional features (capabilities) for the software.</li> </ul> <p><b>FY 2024 Plans:</b></p>	12.779	10.304	10.060

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Air Force		<b>Date:</b> March 2023
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
-Will continue agile software development with quarterly software releases across TACP systems. -Will continue testing quarterly software releases, as applicable. -Will continue to support development/fielding of Special Warfare Assault Kit (SWAK) 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. -Will conduct investigations to provide additional features (capabilities) for the software.  <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> The decrease in budget from FY23 to FY24 is due to higher Air Force priorities			
<b>Accomplishments/Planned Programs Subtotals</b>	12.779	10.304	10.060

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• OPAF 03 Line item 837100: <i>Tactical C-E Equipment</i>	52.200	53.632	38.671	-	38.671	33.719	47.105	41.345	26.368	0.000	293.040

**Remarks**  
 OPAF funding covers all TACP-M programs with some OPAF funding assigned to CASS, WARHAWK and SWAK based on phase.

**D. Acquisition Strategy**  
 TACP-M is executing the replacement to the currently fielded CASS 1.4.5 software; titled WARHAWK. The WARHAWK contract remains under continuous agile development and deployment contractually through FY25 with support activities through FY28. In FY25 a new contract activity will need to be awarded to continue required 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 remains under continuous agile development and deployment through FY28.

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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 2024 Air Force** **Date:** March 2023

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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	-	2.085	Apr 2022	1.646	Apr 2023	1.000	Apr 2024	-		1.000	Continuing	Continuing	-
WARHAWK CASS System Dev Mounted ATM	C/CPFF	GDIT : Dayton, OH	-	5.374	Mar 2022	3.733	Mar 2023	4.718	Mar 2024	-		4.718	Continuing	Continuing	-
ASOC MOD	Various	Multiple : Multiple	-	1.557	Jan 2022	1.058	Jan 2023	1.409	Jan 2024	-		1.409	Continuing	Continuing	-
WARHAWK CASS NSWC, Crane (Naval Surface Warfare Center)	MIPR	NSWC Crane : Crane, IN	-	1.229	Jan 2022	0.917	Jan 2023	0.936	Jan 2024	-		0.936	Continuing	Continuing	-
<b>Subtotal</b>			-	10.245		7.354		8.063		-		8.063	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	-	0.736	Apr 2022	0.717	Apr 2023	0.620	Apr 2024	-		0.620	Continuing	Continuing	-
<b>Subtotal</b>			-	0.736		0.717		0.620		-		0.620	Continuing	Continuing	N/A

**Remarks**  
Development, operational and interoperability testing

<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	-	1.798	Jul 2022	2.233	Jul 2023	1.377	Jul 2024	-		1.377	Continuing	Continuing	-
<b>Subtotal</b>			-	1.798		2.233		1.377		-		1.377	Continuing	Continuing	N/A

			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			-	12.779	10.304	10.060	-	10.060	Continuing	Continuing	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2024 Air Force							<b>Date:</b> March 2023			
<b>Appropriation/Budget Activity</b> 3600 / 7			<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>			<b>Project (Number/Name)</b> 676013 / <i>Equipment Modernization</i>				
	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	

**Remarks**

WARHAWK CASS System Dev Mounted ATM: FY24 increased based on investigating/developing additional capabilities within the software.

Test Agency Support: FY23 increased due to additional testing required for ASOC MOD and WARHAWK.

Program Support Costs (PSC): FY23 increased due to additional travel

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Air Force</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>	<b>Project (Number/Name)</b> 676013 / <i>Equipment Modernization</i>

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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

<b>WARHAWK Close Air Support System(CASS)</b>	
DACAS (SWAK/TAK) Software (all versions) Design, Development, Testing and Fielding	
DACAS (WARHAWK) ATM Software (all versions) Design, Development, Testing and Fielding	

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Air Force		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207444F / <i>Tactical Air Control Party-Mod</i>	<b>Project (Number/Name)</b> 676013 / <i>Equipment Modernization</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>WARHAWK Close Air Support System(CASS)</b>				
DACAS (SWAK/TAK) Software (all versions) Design, Development ,Testing and Fielding	1	2022	4	2028
DACAS (WARHAWK) ATM Software (all versions)Design, Development, Testing and Fielding	1	2022	2	2028