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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	12.589	13.081	10.315	0.000	10.315	11.981	12.204	12.462	12.739	Continuing	Continuing
676013: <i>Equipment Modernization</i>	-	12.589	13.081	10.315	0.000	10.315	11.981	12.204	12.462	12.739	Continuing	Continuing

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 four 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.

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<p>ASOC provides execution management and integration with fires systems, utilizes Air Operations Center (AOC) (i.e., the Air Tasking Order (ATO)) 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 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 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. 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 Machine to Machine (M2M) 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. A suite of map-centric software applications that enables M2M transfer of precision targeting, information management, C4ISR (Command, Control Communications, Computers, Intelligence, Surveillance, and Reconnaissance), and Situational Awareness (SA) information. Provides the Special Warfare</p>		

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<p>operators (TACPs) 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>Funding supports Dismounted, Vehicle Mounted, and ASOC/TOC software 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, new joint DACAS standards, technical support to operators employing the software, and system prototyping for required future ASOC/TOC/Vehicle Mounted system capabilities.</p> <p>Items requested in FY23 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.</p> <p>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.</p> <p>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 FY2021 \$0.000M was expended for civilian pay expenses in this program element, and in FY 2022 \$0.000M is forecasted for civilian pay expenses in this program element.”</p> <p>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.</p> <p>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.</p>		

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	12.882	13.081	0.000	0.000	0.000
Current President's Budget	12.589	13.081	10.315	0.000	10.315
Total Adjustments	-0.293	0.000	10.315	0.000	10.315
• 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	-0.293	0.000			
• Other Adjustments	0.000	0.000	10.315	0.000	10.315

Change Summary Explanation

"The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner."

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force										Date: April 2022		
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
676013: <i>Equipment Modernization</i>	-	12.589	13.081	10.315	0.000	10.315	11.981	12.204	12.462	12.739	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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ASOC provides execution management and integration with fires systems, utilizes Air Operations Center (AOC) (i.e., the Air Tasking Order (ATO)) 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 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 Command and Control (JADC2) capabilities that will be leader-centric, network enabled, and ready to operate in

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<p>complex and degraded information environments; to include the ability to support/ execute air taskings should the AOC required 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. 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 Machine to Machine (M2M) 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. A suite of map-centric software applications that enables M2M transfer of precision targeting, information management, C4ISR (Command, Control Communications, Computers, Intelligence, Surveillance, and Reconnaissance), and Situational Awareness (SA) information. Provides the Special Warfare operators (TACPs) 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>Funding supports Dismounted, Vehicle Mounted, and ASOC/TOC software 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, new joint DACAS standards, technical support to operators employing the software, and system prototyping for required future ASOC/TOC/Vehicle Mounted system capabilities</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force	Date: April 2022
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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.

•"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 PY \$XX.XXXM was expended for civilian pay expenses in this program element, and in CY \$XX.XXXM 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. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
<p>Title: Close Air Support System (CASS)</p> <p>Description: Title: : DACAS (WARHAWK/CASS)</p> <p>Description: Title: TACP-M Software System (TSS)</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>FY 2022 Plans:</p> <ul style="list-style-type: none"> -Continuing to support development/fielding of Special Warfare Assault Kit (SWAK) Dismounted Special Warfare software. -Continuing TACP common software architecture for further development to meet other Special Warfare airman operational needs. -Conducting investigations to provide additional features (capabilities) for the software. -Continuing to integrate WARHAWK with ASOC-Mod software acquisition. 	12.589	13.081	10.315

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>-Continuing to integrate, and test DACAS software data communications interfaces with C2 Nodes, CAS aircraft, Army Tactical Network (ATN), Soldier Radios Waveform (SRW) networks, TBMCS, and Mobile User Objective System (MUOS) Satellite Communications (SATCOM) networks and enhancing interoperability between TACPs, and other joint warfighters.</p> <p>-Complete WARHAWK Cyber, Development and Operational Testing</p> <p>-Start fielding of WARHAWK with delivery of minimally viable product (MVP). Once MVP fielded, continue agile software development with quarterly software releases across TACP systems.</p> <p>FY 2023 Plans:</p> <p>-Will continue agile software development with quarterly software releases across TACP systems.</p> <p>-Will continue with testing of quarterly software releases as applicable.</p> <p>-Will continue to support development/fielding of Special Warfare Assault Kit (SWAK) and Dismounted Special Warfare software.</p> <p>-Will continue TACP common software architecture for further development to meet other Special Warfare airman operational needs.</p> <p>-Will continue to integrate WARHAWK with ASOC-Mod Software acquisition.</p> <p>-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.</p> <p>-Fielding to be underway for ASOC-Mod and will continue to test and field in MCS, TTG and other TACP systems.</p> <p>-Will conduct investigations to provide additional feature (capabilities) for the software.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: FY 2022 to FY 2023 Increase/Decrease Statement: The increase in budget from FY22 to FY23 is due to inflation.</p>			
Accomplishments/Planned Programs Subtotals	12.589	13.081	10.315

C. Other Program Funding Summary (\$ in Millions)										
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>
• OPAF 03 Line item 837100: <i>Tactical C-E Equipment</i>	50.093	52.200	50.269	-	50.269	35.883	33.000	41.800	39.900	Continuing

Remarks
 OPAF funding covers all TACP-M programs with some 3080 funding assigned to CASS, WARHAWK and SWAK based on phase.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force		Date: April 2022
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D. Acquisition Strategy

TTACP-M is executing agile development for the TACP-M CASS software. CASS, Dismounted, and ATM software strategy continues the development and deployment process through the active WARHAWK contract with yearly option Contract Line Item Numbers (CLINs) through FY25.

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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force **Date:** April 2022

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
DACAS(TAK/SWAK) Software Dismounted	Various	GDIT : Dayton, OH	-	2.789	Jun 2021	2.085	Apr 2022	1.643	Apr 2023	-		1.643	Continuing	Continuing	-
DACAS (WARHAWK)Software ATM	C/CPIF	GDIT : Dayton, OH	-	5.997	Oct 2020	5.374	Mar 2022	4.526	Mar 2023	-		4.526	Continuing	Continuing	-
ASOC MOD	Various	Multiple : Multiple	-	0.450	Aug 2021	1.557	Jan 2022	1.127	Jan 2023	-		1.127	Continuing	Continuing	-
DACAS (WARHAWK) NSWC Crane (Naval Surface Warfare Center)	MIPR	NSWC Crane : Crane, IN	-	0.633	Jan 2021	1.229	Jan 2022	0.988	Jan 2023	-		0.988	Continuing	Continuing	-
Subtotal			-	9.869		10.245		8.284		-		8.284	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	-	0.942	Apr 2021	0.736	Apr 2022	0.592	Apr 2023	-		0.592	Continuing	Continuing	-
Subtotal			-	0.942		0.736		0.592		-		0.592	Continuing	Continuing	N/A

Remarks
Development, operational and interoperability testing

Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Management Services	Various	Various/Various : TBD	-	1.778	Jul 2021	2.100	Jul 2022	1.439	Jul 2023	-		1.439	Continuing	Continuing	-
Subtotal			-	1.778		2.100		1.439		-		1.439	Continuing	Continuing	N/A

Remarks
PMA funds: EPASS all multiple contractors in Massachusetts, North Carolina and Florida.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Air Force		Date: April 2022
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FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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 (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 2023 Air Force		Date: April 2022
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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 (all versions) Design, Development ,Testing and Fielding	1	2021	4	2027
DACAS (WARHAWK) ATM Software (all versions)Design, Development, Testing and Fielding	1	2021	2	2027

Note

IOC & FOC dates are based on Objective and not Threshold dates.