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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	290.037	76.628	64.095	78.592	-	78.592	-	-	-	-	-	-
D476: <i>Military Information Support Operations</i>	49.647	5.565	4.261	3.168	-	3.168	-	-	-	-	-	-
S375: <i>Weapons Systems</i>	6.041	1.509	1.604	1.514	-	1.514	-	-	-	-	-	-
S385: <i>Soldier Protection and Survival Systems</i>	31.107	13.465	10.612	14.625	-	14.625	-	-	-	-	-	-
S385A: <i>Body Armor and Associated Equipment</i>	8.443	1.717	1.738	1.684	-	1.684	-	-	-	-	-	-
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	15.096	3.168	2.171	5.047	-	5.047	-	-	-	-	-	-
S700: <i>Communications Equipment and Electronics Systems</i>	44.234	16.738	26.431	21.456	-	21.456	-	-	-	-	-	-
S710: <i>Tactical Systems Development</i>	7.238	2.710	3.344	6.331	-	6.331	-	-	-	-	-	-
S725: <i>Tactical Radio Systems</i>	32.835	10.627	7.940	2.999	-	2.999	-	-	-	-	-	-
S800: <i>Munitions Advanced Development</i>	95.396	21.129	5.994	21.768	-	21.768	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This Program Element (PE) provides for development, rapid prototyping, testing, and integration of specialized equipment in the areas of automation, communication, radio, weapon, soldier protection and survival, visual augmentation, lasers and sensors, munition and Military Information Support Operations (MISO) systems. Warrior Systems specialized equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. Special Operation Forces (SOF) must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success. The efforts within this PE improve SOF warfighting capabilities by continuing efforts to develop smaller, lighter, more efficient and more robust capabilities. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability while, generally, being conducted in harsh environments for unspecified periods and in locations requiring small unit autonomy. Communications efforts will maintain a Command, Control, and Communications (C3) link between SOF Commanders and SOF Teams, and provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies and allied foreign forces. Efforts relating to soldier protection and

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survival requirements will improve survivability and mobility of SOF while conducting varied missions. Counter Unmanned Aerial Systems (C-UAS) efforts rely on cutting edge detection sensors, both passive and active, paired with kinetic and non-kinetic defeat systems to allow SOF Operators to conduct Special Forces missions in denied and hostile environments worldwide. Specialized visual augmentation, lasers and sensors will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. Munition efforts include advanced engineering operational system development and qualification efforts related to SOF-peculiar munitions and equipment. Maritime Precision Engagement Munition (MPE-M) and Ground Organic Precision Strike System (GOPSS) will develop a SOF organic strike mission package to surgically strike an agile and mobile enemy, protect own forces, and minimize collateral damage. Additionally, MISO efforts include planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups and individuals. These technologies will be pursued via rapid prototyping efforts when appropriate.

FY 2020 funding totals include \$5.802 million appropriated for Overseas Contingency Operations.
FY 2021 funding totals include \$5.796 million appropriated for Overseas Contingency Operations.
FY 2022 funding totals include \$78.592 million Base with \$0.000 million Direct War and \$5.195 million for Enduring costs in the Base Budget.

MISO:
This project provides for the development, test and integration of MISO equipment. MISO are planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups, and individuals. This project funds transformational systems and equipment to conduct the seven phase MISO process (planning, targeting audience analysis, series development, product development and design, approval, production/distribution/dissemination, and measures of effectiveness) in support of combatant commanders.

Weapons Systems:
This project provides for next generation system development and Pre-Planned Product Improvements (P3I), testing, and integration of specialized weapon systems and weapon accessories to meet the unique requirements of SOF. Efforts include muzzle brakes and suppressors, and P3I for assault, sniper, and crew served weapons leveraging the latest technological advances to achieve overmatch capability against emerging threats.

Soldier Protection and Survival Systems:
This project funds development, testing, integration, rapid prototyping and evaluation of specialized equipment to meet the unique soldier protection and survival requirements of SOF, to include, but not limited to, individual survival equipment, hearing protection, clothing systems, load bearing equipment, Counter Radio Controlled Improvised Explosive Device (RC-IED) systems, Counter Unmanned Systems (aerial, ground and maritime), and personnel safety equipment to improve the mobility of SOF, while conducting varied missions. These missions are generally conducted in harsh and hostile environments, for unspecified periods and in locations requiring small unit autonomy.

Body Armor and Associated Equipment:
This project provides specialized equipment with ballistic protection to meet the unique soldier protection and survival requirements of SOF. Specialized ballistic equipment improves survivability and load bearing equipment impacting the mobility of SOF while conducting varied missions. This project enhances the SOF Personal

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<p>Equipment Advanced Requirements program by providing for the research, development, and testing of body armor plates, soft armor, helmets, eye protection, and other personal protective equipment to meet current ballistic threats that exist on the battlefield.</p> <p>Visual Augmentation, Lasers and Sensor Systems: This project provides for development, testing, and integration of specialized visual augmentation, laser and sensor systems equipment to meet the unique requirements of SOF and facilitate future Hyper-Enabled Operator capabilities. Programs in this area include binocular/monocular devices; next generation laser designation and geo-location systems; weapon aiming lasers, scopes and accessories; and training and simulation systems.</p> <p>Communications Equipment and Electronics Systems: This project provides for communication systems to meet emergent requirements to support SOF. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. SOF Communications Equipment and Electronics is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.</p> <p>Tactical Systems Development: This project provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of SOF. Tactical systems provide forward deployed forces with advanced networking, automated data processing, storage, and display capabilities to support situational awareness, mission planning and execution, and Command and Control (C2) of forces. Digital Ecosystem provides SOF forces improved situational awareness of the battlespace by leveraging publicly available information.</p> <p>Tactical Radio Systems: This project is for the development of all SOF tactical radio programs. SOF units require radio communication equipment that improves their warfighting capability without degrading their mobility. United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Tactical Radio Systems continue to provide SOF with the required capabilities throughout the 21st century. SOF Tactical Radios provide the critical C3 link between SOF Commanders and SOF Teams involved in operational missions and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied/coalition forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed C2 communications between infiltrated/operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.</p> <p>Munitions Advanced Development: This project provides for the advanced engineering, operational system development, and qualification efforts related to SOF-peculiar and Foreign/Non-standard munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with statutory requirement set forth in U.S. Code, Title 10, Chapter 141, Section 2389 (December 2001). Testing is in accordance with the USSOCOM IM Strategic Plan. Funding also supports efforts to develop and improve MPE-M, GOPSS, and Stand-Off Precision Guided Munitions (SOPGM), including the development and integration of various technologies to enhance/modernize the SOPGMs delivered on to SOF and non-SOF platforms. When appropriate, these technologies will be pursued via rapid prototyping to develop, demonstrate and evaluate residual operational capabilities.</p>		

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B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	81.514	65.307	55.509	-	55.509
Current President's Budget	76.628	64.095	78.592	-	78.592
Total Adjustments	-4.886	-1.212	23.083	-	23.083
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.212			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.691	-			
• Other Adjustments	-2.195	-	19.820	-	19.820
• Digital Ecosystem	-	-	3.263	-	3.263

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: D476: *Military Information Support Operations*

Congressional Add: *NGLS*

Congressional Add Subtotals for Project: D476

Project: S800: *Munitions Advanced Development*

Congressional Add: *SOPGM*

Congressional Add Subtotals for Project: S800

Congressional Add Totals for all Projects

	FY 2020	FY 2021
	3.868	-
	3.868	-
	12.571	-
	12.571	-
	16.439	-

Change Summary Explanation

Funding:

FY 2020: Net decrease of \$4.886 million is due to the transfer of funds to Small Business Innovative Research/Small Business Technology Research Transfer (SBIR/STTR) programs (\$2.691 million) and funding was made available to support emerging Command requirements in the year of execution (\$2.195 million).

FY 2021: Net decrease of \$1.212 million is due to a Congressionally directed reduction in MMP (\$1.178 million) and a Defense-Wide Congressionally directed reduction in Media Production Center (\$0.034 million).

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FY 2022: Net increase of \$23.083 million is due to an increase for MPE-M/GOPSS design configuration development, testing and evaluation, improvement, and subsequent Critical Design Review milestone activity (\$12.546 million), Digital Ecosystem (DE) expansion of data sources, analysis tool/application development, and managed attribution architecture development (\$3.263 million), initiating Visual Augmentation Systems (VAS) Joint Acquisition Task Force/Hyper Enabled Operator (JATF/HEO) transition of an integrated head-mounted sensor and AR display providing threat detection (\$2.912 million), continue SOPGM integration/development efforts (\$0.719 million), initiating on-operator power and data management efforts within the SOF Personal Equipment Advanced Requirements (SPEAR) program (\$1.670 million), Munitions Advanced Development new Maritime Disablement Operations (MDO) requirement and complimentary efforts (\$0.976 million), addressing Blue Force Tracking (BFT) capability enhancements outlined in the latest Capability Development Document version (\$0.500 million), and initiating Tactical Combat Casualty Care (TCCC) new USSOCOM Brain Health RDT&E line. This new effort is in support of the blast overpressure event capture with longitudinal tracking of SOF end users' neurocognitive health to support treatment and recovery (\$0.497 million).

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command										Date: May 2021		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) D476 / <i>Military Information Support Operations</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
D476: <i>Military Information Support Operations</i>	49.647	5.565	4.261	3.168	-	3.168	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for the development and acquisition of Military Information Support Operations (MISO) equipment. MISO are planned operations to convey selected information and indicators to foreign audiences to influence their emotions, motives, objective reasoning, and ultimately, the behavior of foreign governments, organizations, groups, and individuals. This project funds transformational systems and equipment to conduct MISO in support of combatant commanders.

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

	FY 2020	FY 2021	FY 2022
Title: Fly-Away Broadcast System (FABS)	0.897	0.708	0.696
Description: FABS is a transit case fly-away broadcast system that utilizes commercial & industry standard technology to disseminate approved messaging to target audiences via Frequency Modulation (FM), Shortwave (SW), cellular Short Message Service (SMS) and Television (TV) transmitter.			
FY 2021 Plans: Continue testing and evaluation of new systems and components to enhance MISO broadcasts, to include development of Next Generation FABS (v4) to integrate key capabilities to enhance MISO Broadcasts for Next Generation Loud Speakers-Scatterable Media (NGLS-SM) and Software Defined Radio (SDR) implementation that improves efficiencies and reduces Size, Weight, and Power (SWAP). Begin implementation of Windows Tactical Assault Kit - Common Operating Picture (WINTAK/COP) enhancements.			
FY 2022 Plans: Continues testing and evaluation of new systems and components to enhance MISO broadcasts, to include development of Next Generation FABS (v4) to integrate key capabilities to enhance MISO Broadcasts for NGLS-SM and SDR implementation that improves efficiencies and reduces SWAP. Completes development of WINTAK/COP enhancements.			
FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.012 million is due to cost share efficiencies in WINTAK/COP development and testing.			
Title: Next Generation Loud Speakers (NGLS)	0.800	0.879	0.885
Description: NGLS are portable systems capable of disseminating high quality recorded and live audio messages by MISO Forces in varied geographical area and climate conditions. NGLS consists of Dismounted and Mounted variants that are lighter,			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>smaller, and louder than legacy speaker systems, with added clarity and durability. NGLS-SM is a hand-emplaced or air-delivered printed audio-visual device for disseminating delayed or on-cue messages to foreign target audiences.</p> <p>FY 2021 Plans: Continue development and evaluation of new systems and components to enhance MISO broadcasts. Complete NGLS-SM Increment 1 and NGLS-Dismounted GEN 2 with wireless End User Device. Complete MOBY Configurable Mission Module. Begin NGLS-SM Increment 2 and development of Windows Tactical Assault Kit - Common Operating Picture (WINTAK/COP) enhancements. Begin evaluation of NGLS-Sonic Projection.</p> <p>FY 2022 Plans: Continues development and evaluation of new systems and components to enhance MISO broadcasts. Completes NGLS-D GEN 2 with wireless End User Device and NGLS-SM INC 2 and development of WINTAK/COP enhancements. Continues NGLS-Sonic Projection development.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.006 million is due to development, test, and evaluation efforts for NGLS-SM.</p>				
<p>Title: Media Production Center (MPC)</p> <p>Description: MPC is a set of independent but inter-related multi-media production, editing, and archiving capabilities providing MISO Forces and other select organizations with options for imagery, audio, animation, and Audio/Video (AV) products of varying degrees of technical complexity and operational responsiveness.</p> <p>FY 2021 Plans: Initiate development of software application technologies on existing and new systems.</p> <p>FY 2022 Plans: Completes development and begins test and evaluation of software application technologies on existing and new systems.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$1.087 million due to completion of initial core development.</p>		-	2.674	1.587
Accomplishments/Planned Programs Subtotals		1.697	4.261	3.168
		FY 2020	FY 2021	
Congressional Add: NGLS		3.868	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
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	FY 2020	FY 2021
FY 2020 Accomplishments: Congressional add continued development, test, and evaluation of distributable audio media and NGLS-SM.		
Congressional Adds Subtotals	3.868	-

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC1/0204OTHER: OTHER ITEMS <\$5M	103.059	82.691	62.722	-	62.722	-	-	-	-	-	-

Remarks

None.

D. Acquisition Strategy

- The FABS program has an evolutionary acquisition strategy. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.
- The NGLS program has an evolutionary acquisition strategy for the legacy NGLS Mounted and Dismounted and an incremental acquisition strategy for new developmental variants (NGLS-SM, NGLS-Sonic Projection). Commercial and government agencies will be leveraged for engineering, required certifications, functional and operating tests and acceptance support.
- The MPC program will pursue incremental development of advanced media and analytic software capabilities following commercial standards and best practices.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Fly Away Broadcast Systems (FABS)	MIPR	Various : Various	5.204	0.897	Oct 2019	0.708	Feb 2021	0.100	Jul 2022	-		0.100	Continuing	Continuing	-
Next Generation Loud Speakers (NGLS)	Various	Various : Various	1.164	-		0.879	Feb 2022	0.885	Jan 2022	-		0.885	Continuing	Continuing	-
NGLS Congressional Add	Various	Various : Various	11.541	3.868	Apr 2021	-		-		-		-	0.000	15.409	-
Media Production Center (MPC)	C/Various	Various : Various	-	-		2.674	Feb 2021	-		-		-	Continuing	Continuing	-
Prior Year	C/Various	Various : Various	30.929	-		-		-		-		-	0.000	30.929	-
Subtotal			48.838	4.765		4.261		0.985		-		0.985	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
NGLS	Allot	Various : Various	0.100	0.800	Apr 2020	-		-		-		-	Continuing	Continuing	-
FABS	MIPR	Various : Various	-	-		-		0.596	Mar 2022	-		0.596	Continuing	Continuing	-
MPC	C/Various	Various : Various	-	-		-		1.587	Jan 2022	-		1.587	Continuing	Continuing	-
Prior Year	MIPR	Various : Various	0.709	-		-		-		-		-	0.000	0.709	-
Subtotal			0.809	0.800		-		2.183		-		2.183	Continuing	Continuing	N/A

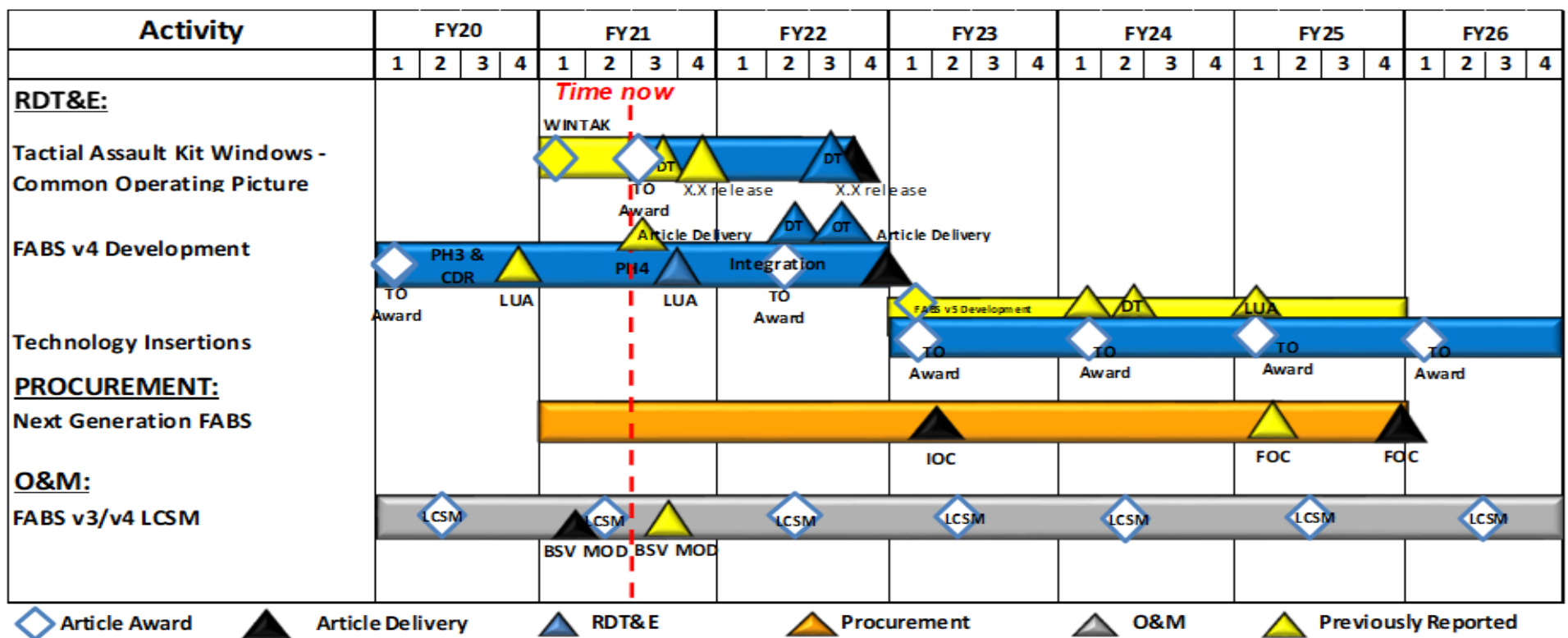
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		49.647	5.565	4.261	3.168	-	3.168	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
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Fly Away Broadcast System (FABS) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

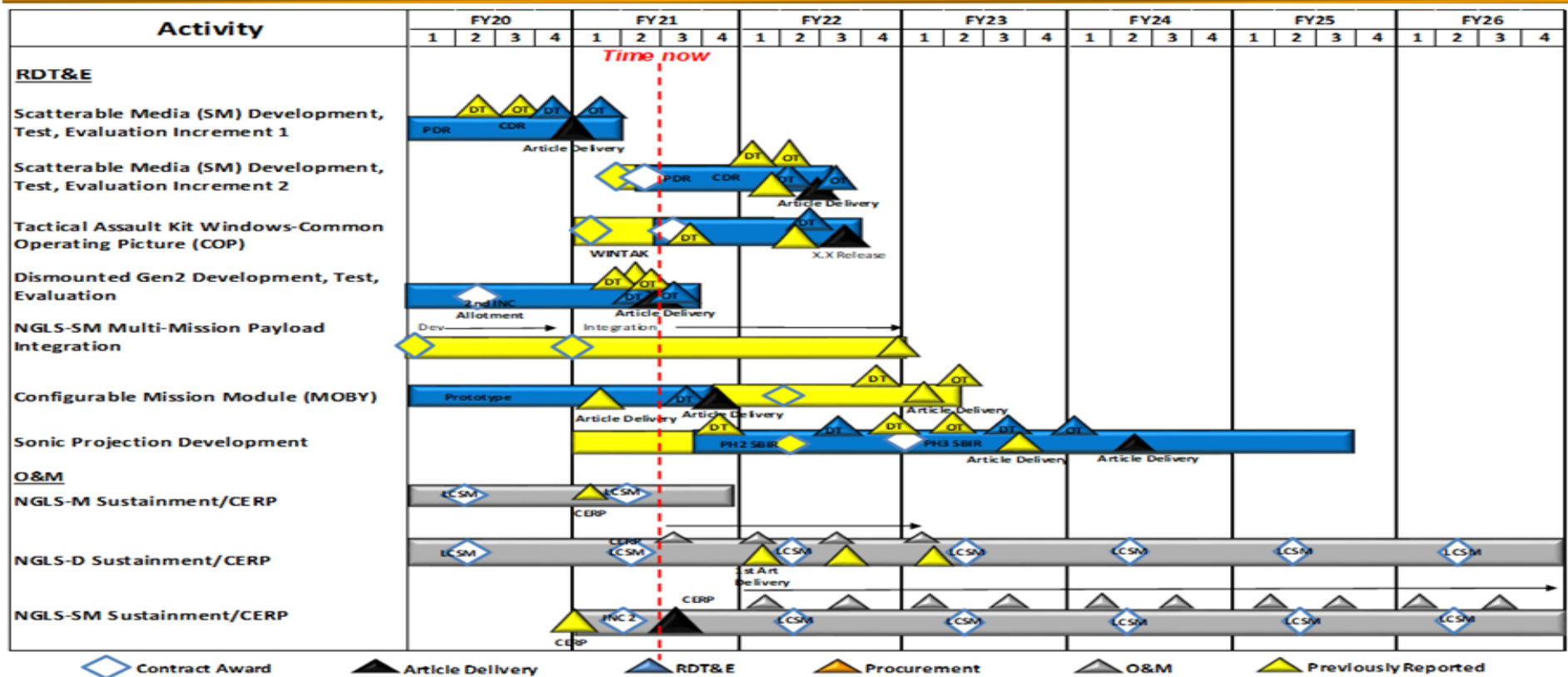
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
D476 / Military Information Support
Operations

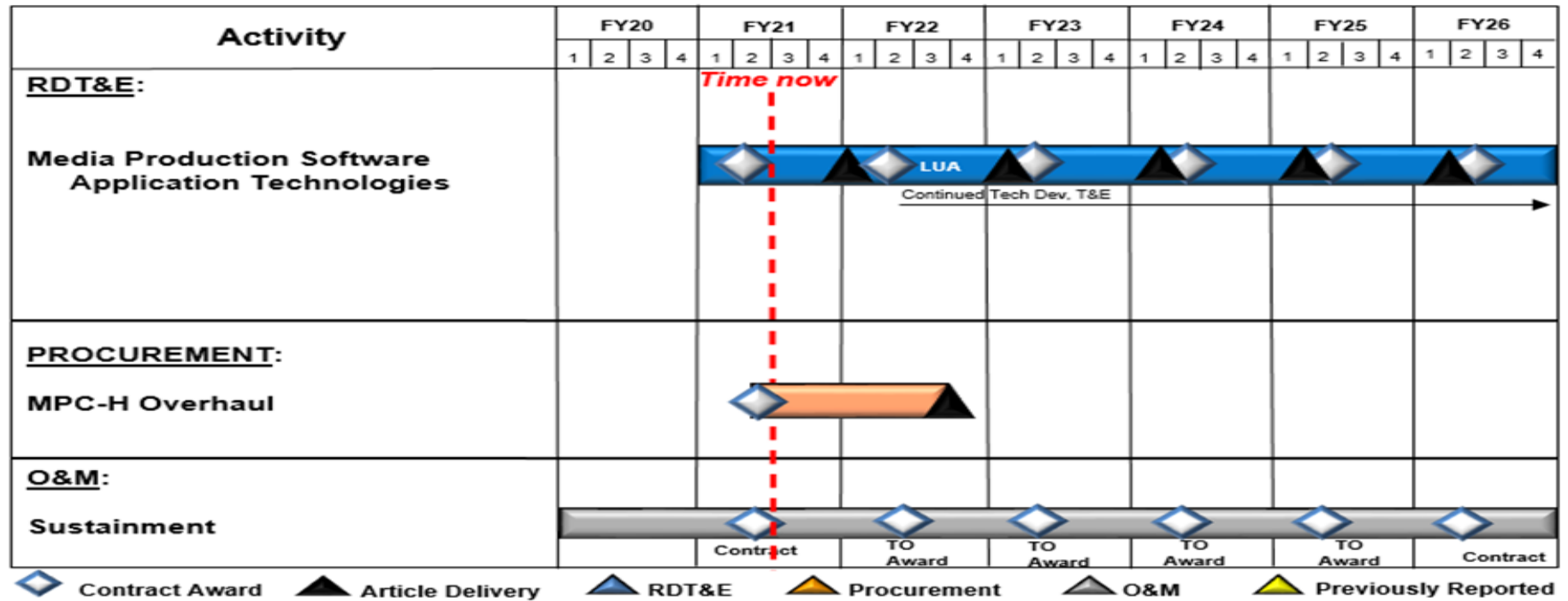
Next Generation Loudspeaker System (NGLS) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
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Media Production Center (MPC) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Fly Away Broadcast Systems (FABS)</i>				
Tactical Assault Kit Windows - Common Operating Picture (COP)	3	2021	3	2022
FABS (V4) Development	1	2020	4	2022
Technology Insertions	1	2023	4	2026
<i>Next Generation Loudspeakers (NGLS)</i>				
Scatterable Media (SM) Development, Test, and Evaluation INC 1	1	2020	1	2021
SM Development, Test, and Evaluation INC 2	2	2021	3	2022
Tactical Assault Kit Windows - COP	2	2021	3	2022
Dismounted GEN 2 Development, Test, and Evaluation	1	2020	3	2021
Configurable Mission Module (MOBY)	1	2020	4	2021
Sonic Projection Development	3	2021	3	2025
<i>Media Production Center (MPC)</i>				
Media Production Software Technologies	1	2021	4	2026

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Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S375 / <i>Weapons Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S375: <i>Weapons Systems</i>	6.041	1.509	1.604	1.514	-	1.514	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for the next generation systems Pre-Planned Product Improvements (P3I), testing, and integration of specialized weapon systems and weapon accessories to meet the unique requirements of Special Operations Forces (SOF). The efforts include the product improvements and testing of the Suppressed Upper Receiver Group (SURG), Advanced Sniper Rifle (ASR), Machine Gun (MG) Barrel, Mid-Range Gas Gun (MRGG), Personal Defense Weapon (PDW), Hand Gun (HG) suppressor, Lightweight Machine Gun-Medium (LMG-M), and Advance Machine Gun (AMG). The product improvements will leverage the latest technological advances to achieve overmatch capability against current and emerging threats. These technologies will be pursued via rapid prototyping efforts when appropriate.

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

	FY 2020	FY 2021	FY 2022
Title: Weapons	1.509	1.604	1.514
Description: SOF weapons are developed to enable the operator to tailor the configuration of the weapon to the assigned mission and operational environment, enhancing the overall effectiveness of the weapons, which enables mission accomplishment and operator survivability. Weapons is designated a Middle Tier of Acquisitions (MTA) program which uses the rapid prototyping pathway and is executed using existing contracts, government agencies, and new contract competitively selected as appropriate.			
FY 2021 Plans: Continue development of enhanced capabilities to improve performance of individual sniper, rifle, and machine gun weapons.			
FY 2022 Plans: Continues development of enhanced capabilities to improve performance of individual sniper, rifle, and machine gun weapons to gain synergy on the Army's Next Generation efforts/gains.			
FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.090 million is due to a reduction in testing and evaluation costs.			
Accomplishments/Planned Programs Subtotals	1.509	1.604	1.514

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

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• PROC/0204WARRIOR: <i>Warrior Systems <\$5M</i>	344.003	342.606	284.548	-	284.548	-	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command	Date: May 2021
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S375 / <i>Weapons Systems</i>
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

Evolutionary acquisition, leveraging emerging technology and rapid prototyping efforts when appropriate. An evolutionary approach delivers capability in increments, recognizing, up front, the need for future capability improvements. Full and open competition with firm-fixed price contracts and other transaction authorities (OTAs).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S375 / <i>Weapons Systems</i>
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Weapon Test & Evaluation	MIPR	Various : Various	6.041	1.509	Jan 2020	1.604	Jan 2021	1.514	Jan 2022	-		1.514	Continuing	Continuing	-
Subtotal			6.041	1.509		1.604		1.514		-		1.514	Continuing	Continuing	N/A
Project Cost Totals			6.041	1.509		1.604		1.514		-		1.514	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

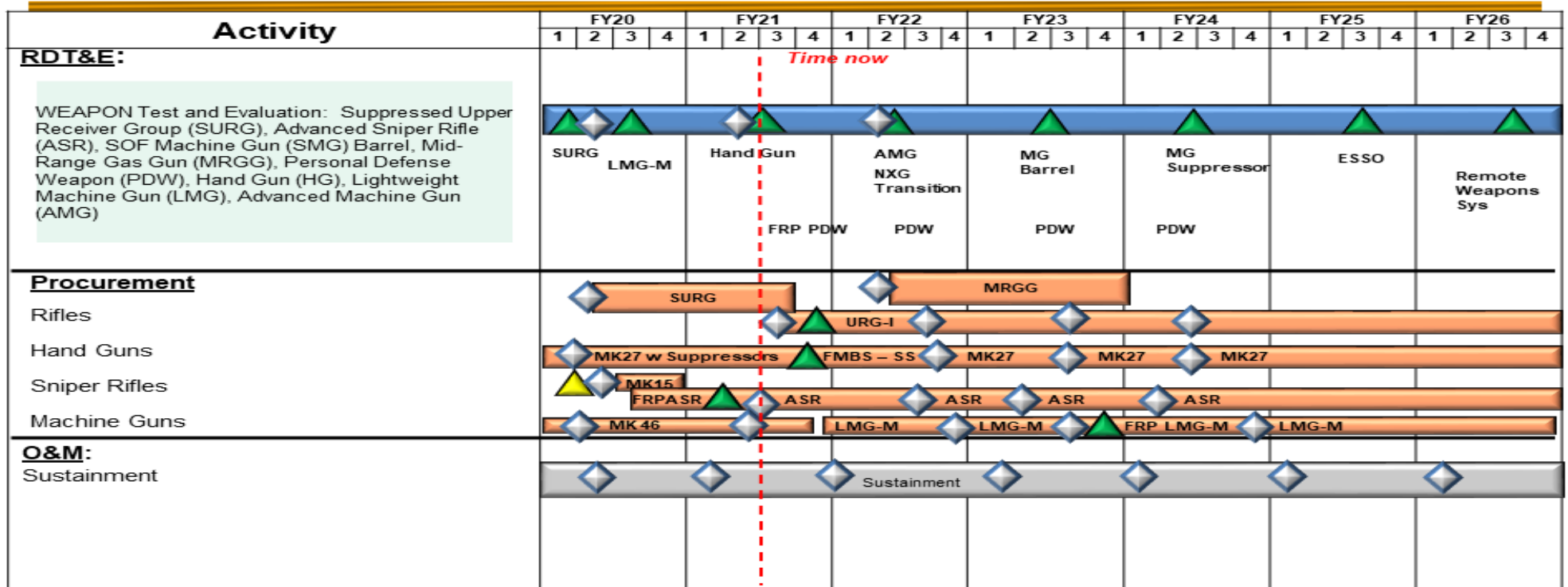
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S375 / Weapons Systems

Weapon Systems Schedule



▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 RDT&E
 Procurement
 O&M
▲ Previously Reported

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S375 / <i>Weapons Systems</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Weapon Systems</i>				
Test & Evaluation: Suppressed Upper Receiver Group, Advanced Sniper Rifle, SOF Machine Gun Barrel, Mid-Range Gas Gun, Personal Defense Weapon, Hand Gun, Lightweight Machine Gun, Advanced Machine Gun	1	2020	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command										Date: May 2021		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S385: <i>Soldier Protection and Survival Systems</i>	31.107	13.465	10.612	14.625	-	14.625	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project funds development, testing, integration, rapid prototyping and evaluation of specialized equipment to meet the unique soldier protection and survival requirements of Special Operations Forces (SOF), to include, but not limited to, individual survival equipment, hearing protection, clothing systems, load bearing equipment, Counter Radio Controlled Improvised Explosive Device (RC-IED) systems, Counter Unmanned Systems (aerial, ground and maritime), and personnel safety equipment to improve the mobility of SOF, while conducting varied missions. These missions are generally conducted in harsh and hostile environments, for unspecified periods and in locations requiring small unit autonomy. These technologies will be pursued via rapid prototyping efforts when appropriate.

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

	FY 2020	FY 2021	FY 2022
Title: SOF Personal Equipment Advanced Requirements (SPEAR)	0.256	1.232	2.980
Description: The SPEAR program provides for the research, development, testing and evaluation of a variety of individual and survival equipment to include: ballistic and environmental protective combat uniforms, load carriage systems, communications headsets, and visual augmentation system mounts.			
FY 2021 Plans: Continue research and development of land communications materiel solutions and environmental protective combat uniforms. Continue materials testing and incorporation into commodity lines. Continue wireless headset evaluations. Continue interoperability of headsets with radios and integrated communication systems.			
FY 2022 Plans: Initiates Land Communications Headset recompile efforts. Continues environmental protective combat uniforms, materials testing, and incorporation into commodity lines, wireless headset evaluations, and begins power and data management efforts.			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$1.748 million initiates on-operator power and data management efforts within the SPEAR program.			
Title: Tactical Combat Casualty Care (TCCC)	0.232	0.229	0.706
Description: TCCC provides lifesaving medical devices, ancillary equipment and Casualty Evacuation (CASEVAC) sets for SOF. The CASEVAC procures a suite of Food and Drug Administration (FDA) approved medical items including, but not limited to, intraosseous infusion devices, patient monitoring and assessment devices, emergency airway kits, as well as devices that provide SOF the capability to support extraction, mobility, transportation, and sustainment of casualties in forward areas. The TCCC			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>program fields essential lifesaving CASEVAC equipment and capabilities and is a platform to transition capabilities developed under the National Mission Force's Tactical Medical Programs. This capability provides significant ability to lessen battlefield losses by providing timely, critical lifesaving and evacuation capabilities to the forward-deployed SOF operators.</p> <p>FY 2021 Plans: Continue test support to include program management, market surveys, rapid prototyping, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC program. Continue the evaluation of enhanced medical monitoring systems capable of enabling telemedicine/telementoring for incorporation into the CASEVAC program.</p> <p>FY 2022 Plans: Continues the test support, market surveys, rapid prototyping, test article acquisition, test and evaluation and systems engineering in direct support of the CASEVAC program with continued focus on enabling telemedicine. The FY22 plan includes the initiation of the United States Special Operations Command (USSCOM) Brain Health Research, Development, Test, and Evaluation (RDT&E) line in support of the longitudinal tracking of SOF end users' neurocognitive health for treatment and recovery.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.477 million initiates the new USSOCOM Brain Health RDT&E line. This new effort is in support of the blast overpressure event capture with longitudinal tracking of SOF end users' neurocognitive health to support treatment and recovery.</p>				
<p>Title: Counter Radio Controlled-Improvised Explosive Device (RC-IED)</p> <p>Description: USSOCOM uses ground (mounted/dismounted) based jammers to provide Electronic Counter Measures (ECM) capabilities to counter radio frequency (RF) controlled devices. This program provides scalable ECM systems whose configuration and modularity address a mission critical capability to counter this threat globally. To stay ahead of emerging threats, USSOCOM has historically developed advanced techniques on an annual basis. Through strategic partnerships with the Services, and other government agencies, USSOCOM vastly improved program affordability while maintaining Joint Force compatibility. USSOCOM's Countering Weapons of Mass Destruction (CWMD) special mission remains the top hardware and special application module upgrades, SOCOM is able to use its ECM for its top priority mission and continue to apply advanced techniques against emerging threats across the spectrum of warfare including great power competition. All Next Generation ECM is designed to support SOF missions in great power competition, while maintaining cost effective counter violent extremist organization (CVEO) capabilities.</p> <p>FY 2021 Plans: Continue test support to the Counter RC-IED program. Continue system engineering, test and evaluation, test article acquisition, and market research of the ECM programs. Maintain range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems from state and non-state actors. Continue development and testing of ECM</p>		1.674	1.632	4.004

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>systems capability to include advanced software technique countermeasures and loadsets for mounted and dismounted systems. Continue implementation of Modi software refactoring, improving stability and future technology integration.</p> <p>FY 2022 Plans: Continues test support to the Counter RC-IED program. Continues system engineering, test and evaluation, test article acquisition, and market research of the ECM programs. Maintains range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems from state and non-state actors. Continues development and testing of ECM systems capability to include advanced software technique countermeasures and loadsets for mounted and dismounted systems. Initiates Next Generation ECM development.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$2.372 million is due to initiating Next Generation ECM hardware and software development.</p>				
<p>Title: Counter Unmanned Aerial System (C-UAS)</p> <p>Description: SOF C-UAS enhances the SOF operator's ability to detect, identify, classify, locate, track, deter, defeat and exploit unmanned system threats. The funding in this program supports a Family of Systems (FoS) design, development, integration, prototyping and test of cutting edge technologies that deliver and integrate various capabilities including, but not limited to, interceptors, Radio Frequency (RF) detection and defeat, other passive detection, radar, and Electro-Optical and Infrared (EO/IR).</p> <p>FY 2021 Plans: Complete C-UAS Sensor Integration Module (SIM) FoS Middle Tier Acquisition rapid prototype and transitions to Army Rapid Capabilities and Critical Technologies Office (RCCTO) for continued development. Continue development and test of kinetic and non-kinetic capabilities of mounted, dismounted, and fixed-site expeditionary form factors to address emerging threats.</p> <p>FY 2022 Plans: Continues test and evaluation of sensor and effector capabilities of mounted, dismounted, and expeditionary fixed-site form factors to address emerging threats with a Systems Integration Partner (SIP).</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.601 million is due to streamlining contract support efforts and transition into a Systems Integration Partner (SIP).</p>		9.671	5.796	5.195
<p>Title: Personal Signature Management (PSM)</p> <p>Description: PSM provides for development, rapid prototyping, test, and evaluation of signature reducing materials and technology, in order to reduce the probability of detection by battlefield threat sensors.</p> <p>FY 2021 Plans:</p>		1.632	1.723	1.740

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>Continue research, development, rapid prototyping, test and evaluation of next generation signature reducing solutions. Provide for program management, market research, test item acquisition and test and evaluation, in support of PSM efforts for both land and maritime operations.</p> <p><i>FY 2022 Plans:</i> Continues research, development, rapid prototyping, test and evaluation of next generation signature reducing solutions. Provides for program management, market research, test item acquisition and test and evaluation, in support of PSM efforts for both land and maritime operations.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Increase of \$0.017 million is due to increase in charges and cost of threat sensor exploitation.</p>			
Accomplishments/Planned Programs Subtotals	13.465	10.612	14.625

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

Remarks

D. Acquisition Strategy

SPEAR: Contracts in support of SPEAR are a combination of Firm Fixed Price (FFP) five year Indefinite Delivery Indefinite Quantity (IDIQ) with single vendor awards, Source America mandatory sole sources, small business set asides and prime vendor style multiple awards.

TCCC: Operator & Medic Kits - Program managed by Program Manager - Special Operations Forces Survival, Support, and Equipment Systems (PM - SOF SSES) using US Army Medical Materiel Agency prime vendor contracts for equipment purchases and Special Operations Forces Support Activity (SOFSFA) for warehousing and sustainment. CASEVAC Set - Program managed by PM - SOF SSES and utilizes and IDIQ Commercial-Off-The-Shelf (COTS) prime integrator contract.

RC-IED: USSOCOM collaborates with the DOD Electronic Counter Measures (ECM) managers and other government agencies in order to maintain Joint Force compatibility and improve program affordability. All next generation ECM development designed to support SOF missions in great power competition, while maintaining cost effective counter violent extremist organization (CVEO) capabilities. Centralized life cycle sustainment of SOF ECM inventory supports Theater Special Operations Command operational demand as Theater Provided Equipment (TPE), Component Continental United States home station training, and rapid deployment requirements. SOF collaborates with the Joint Services, Academia and other government agencies to maintain interoperability and cost effectiveness. SOF ECM will continue to leverage the SOF-to-Service transition of proven capabilities.

C-UAS: SOF C-UAS acquisition strategy focuses on the establishment of a SIP to work alongside Program Manager Counterproliferation. Together, we develop and integrate various sensors in mounted, dismounted and expeditionary fixed-site configurations that enhance SOF's ability to detect, identify, classify, locate, track,

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>
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deter, defeat, and exploit unmanned systems threats. While the services focus primarily on providing capability to address fixed site defense of homeland and Forward Operating Bases (FOBs); SOF requires an increased level of autonomy, lower size, weight, and power (SWaP), and limited signature solutions. Upon completion of various Combat Evaluations in FY20, C-UAS will transition into a Counter Unmanned Systems (CUxS) Program of Record with an approved Capabilities Development Document (CDD). Contracts are expected to be a combination of FFP and Cost type through full and open competition across the SOCOM focus areas. SOF C-UAS collaborates with the Joint C-UAS Office (JCO), Academia and other government agencies for solutions and to maintain interoperability and cost effectiveness when appropriate. SOF will continue to leverage the SOF-to-Service transition of proven capabilities where possible.

PSM: Signature reducing technologies will be embedded into SOF clothing and equipment via modified commercial-off-the-shelf variants. Contracts in support of fielding/sustainment of PSM clothing and equipment will be a combination of sole source FFP five year IDIQ contracts, Source America mandatory sole sources, small business set asides and prime vendor style multiple award contracts. PSM will utilize SOFSA for warehousing and sustainment.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
SOF Personal Equipment Advanced Requirements (SPEAR) - Protective Combat Uniform (PCU)	Various	PM-SSES : Natick, MA	0.647	0.059	Jan 2020	0.400	Jan 2021	0.409	Jan 2022	-		0.409	Continuing	Continuing	-
SPEAR - Hearing Protection and Communications Headsets	Various	PM-SSES : Natick, MA	1.345	0.041	Jan 2020	0.300	Jan 2021	0.300	Jan 2022	-		0.300	Continuing	Continuing	-
SPEAR Modular Glove System (MGS)	Various	PM-SSES : Natick, MA	0.050	0.005	Jan 2020	0.030	Jan 2021	0.030	Jan 2022	-		0.030	Continuing	Continuing	-
SPEAR - Load Carriage System (LCS) and Backpacks	Various	PM-SSES : Natick, MA	0.090	0.017	Mar 2020	0.100	Mar 2021	0.100	Mar 2022	-		0.100	Continuing	Continuing	-
SPEAR - Power and Data Management	Various	PM-SSES : Natick, MA	-	-		-		0.750	Apr 2022	-		0.750	Continuing	Continuing	-
Counter Radio Controlled-Improvised Explosive Device (RC-IED) - Next Generation Capability Development	C/Various	Various : Various	-	-		-		2.327	Jun 2022	-		2.327	Continuing	Continuing	-
Counter Unmanned Aerial System (C-UAS) Emerging Threat Development (Dismount/Mount/ Expeditionary) Overseas Contingency Operations (OCO)	C/Various	Various : Various	-	1.741	Apr 2020	-		-		-		-	0.000	1.741	-
C-UAS Emerging Threat / Advanced Technology Development (Systems Integration Partner)	C/Various	Various : Various	-	2.551	Mar 2020	-		3.689	Mar 2022	-		3.689	Continuing	Continuing	-
C-UAS Emerging Threat / Advanced Technology Development (Systems Integration Partner) (OCO)	C/Various	Various : Various	-	-		3.527	Apr 2021	-		-		-	0.000	3.527	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
C-UAS Sensor Integration Module (SIM) Phase I: Concept Development (OCO)	C/Variou	Command, Control, Communications, Computers, and Counter-intelligence ISR Center, Night Vision & Electronic Sensors Directorate : Ft. Belvoir, VA	3.000	-		-		-		-		-	0.000	3.000	-
C-UAS SIM Phase II: Prototype Development	C/Variou	C5ISR Center, Night Vision & Electronic Sensors Directorate : Ft. Belvoir, VA	-	1.318	Mar 2020	-		-		-		-	0.000	1.318	-
C-UAS SIM Phase III: Operational Assessment and Test (OCO)	C/Variou	Various : Various	-	2.552	Apr 2020	-		-		-		-	0.000	2.552	-
Personal Signature Management (PSM) Development (Inc II and III)	Various	Various : Various	0.799	0.747	Jul 2020	0.861	Mar 2021	1.040	Mar 2022	-		1.040	Continuing	Continuing	-
Rotary Wing Aviation Helmet Congressional Add	C/Variou	PM-SSES : Natick, MA	1.500	-		-		-		-		-	0.000	1.500	-
Subtotal			7.431	9.031		5.218		8.645		-		8.645	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
SPEAR - PCU testing/ Pre-Planned Product Improvement	Various	PM-SSES : Natick, MA	0.556	0.049	Mar 2020	0.100	Mar 2021	0.100	Mar 2022	-		0.100	Continuing	Continuing	-
SPEAR - MGS Test and Evaluation	Various	PM-SSES : Natick, MA	0.101	0.008	Jan 2020	0.045	Jan 2021	0.045	Jan 2022	-		0.045	Continuing	Continuing	-
SPEAR - Hearing Protection and Comms Headset Test & Evaluation	Various	PM-SSES : Natick, MA	1.878	0.058	Jan 2020	0.162	Jan 2021	0.162	Jan 2022	-		0.162	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
SPEAR - LCS/Body Armor Vest/Backpack Material and Prototype Test and Evaluation	Various	PM-SSES : Natick, MA	0.146	0.019	Feb 2020	0.095	Feb 2021	0.095	Feb 2022	-		0.095	Continuing	Continuing	-
SPEAR - Power and Data Managment	Various	PM-SSES : Natick, MA	-	-		-		0.989	Apr 2022	-		0.989	Continuing	Continuing	-
Tactical Combat Casualty Care (TCCC) CASEVAC Sets Development, Test and Evaluation	Various	PM-SSES : Natick, MA	1.738	0.232	Feb 2020	0.229	Jan 2021	0.209	Jan 2022	-		0.209	Continuing	Continuing	-
TCCC Brain Health Test and Evaluation	C/Various	PM-SSES : Natick, MA	-	-		-		0.497	Jan 2022	-		0.497	Continuing	Continuing	-
RC-IED Technology Insertion/Software/Techniques	C/Various	Various : Various	15.694	1.674	Apr 2020	1.632	Mar 2021	1.677	Mar 2022	-		1.677	Continuing	Continuing	-
C-UAS Test and Evaluation Support	C/Various	Various : Various	1.500	-		-		1.506	Nov 2021	-		1.506	Continuing	Continuing	-
C-UAS Test and Evaluation Support (OCO)	C/Various	Various : Various	-	1.509	Nov 2019	2.269	Mar 2021	-		-		-	0.000	3.778	-
PSM Test and Evaluation	Various	Various : Various	0.798	0.885	Jan 2020	0.862	Jan 2021	0.700	Feb 2022	-		0.700	Continuing	Continuing	-
Prior Year	MIPR	Various : Various	0.865	-		-		-		-		-	0.000	0.865	-
Prior Year (OCO)	Various	Various : Various	0.400	-		-		-		-		-	0.000	0.400	-
Subtotal			23.676	4.434		5.394		5.980		-		5.980	Continuing	Continuing	N/A

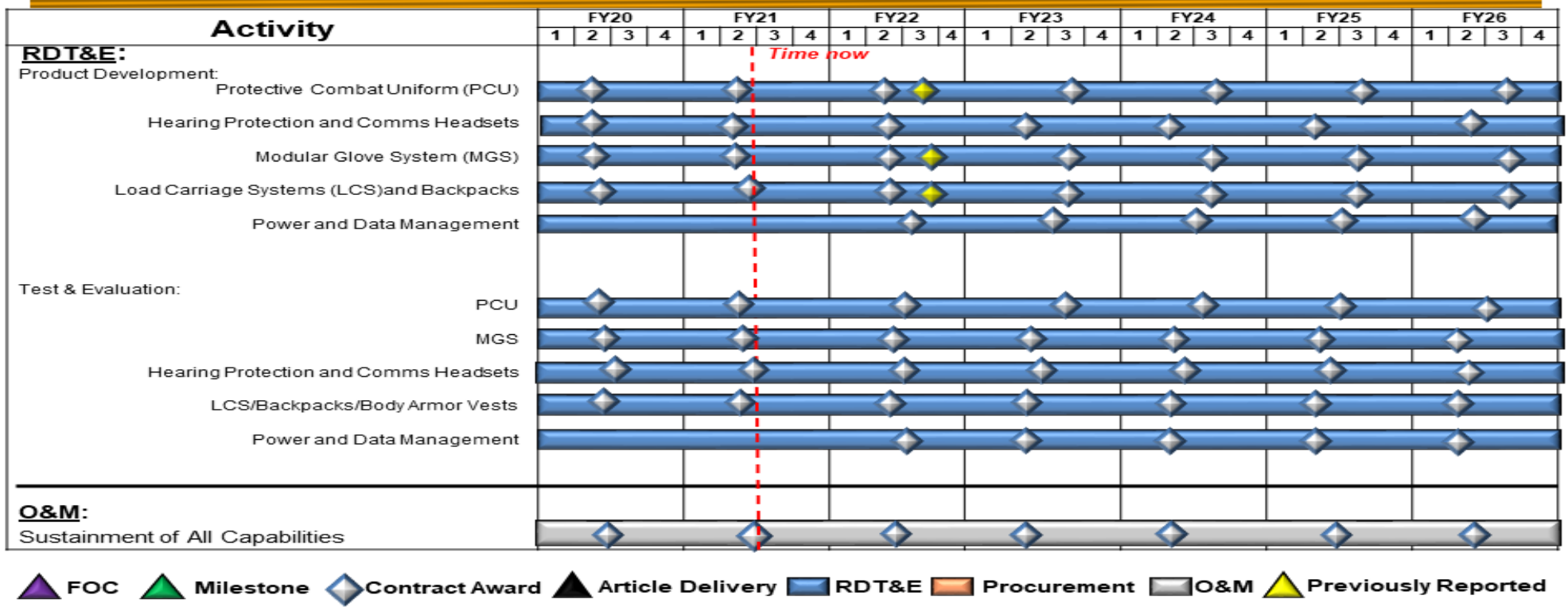
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	31.107	13.465	10.612	14.625	-	14.625	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

Special Operations Forces Personal Equipment Advanced Requirements (SPEAR) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

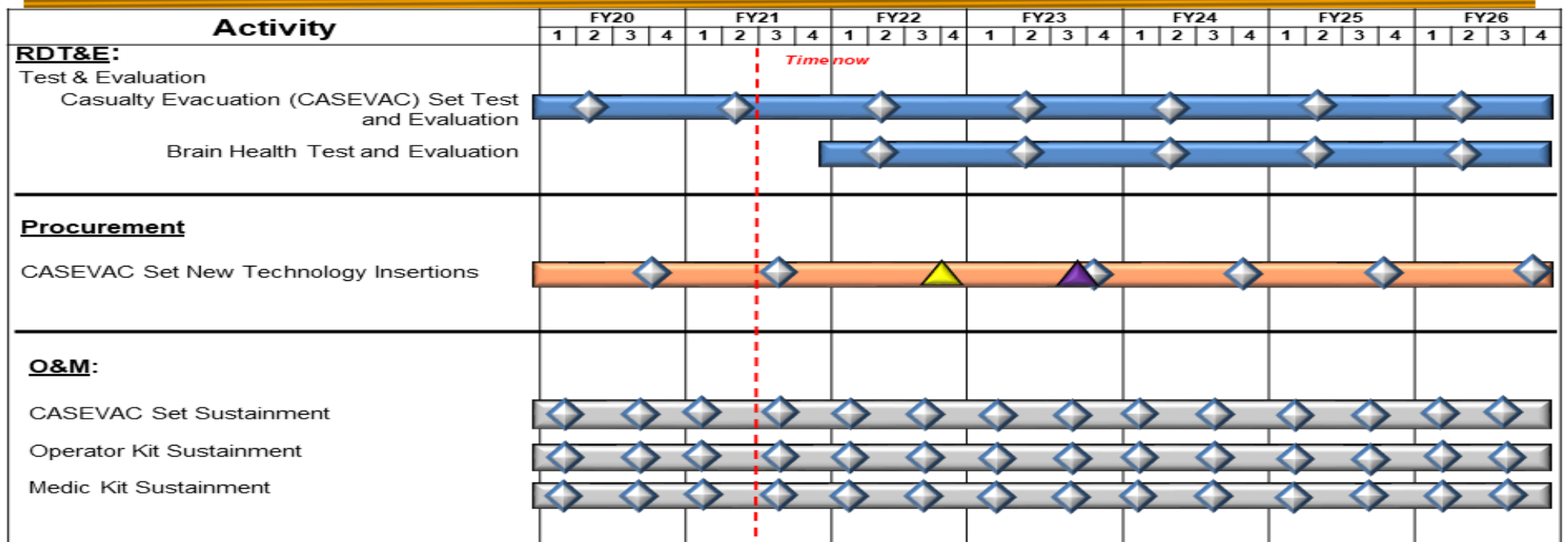
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S385 / Soldier Protection and Survival Systems

Tactical Combat Casualty Care (TCCC) Schedule

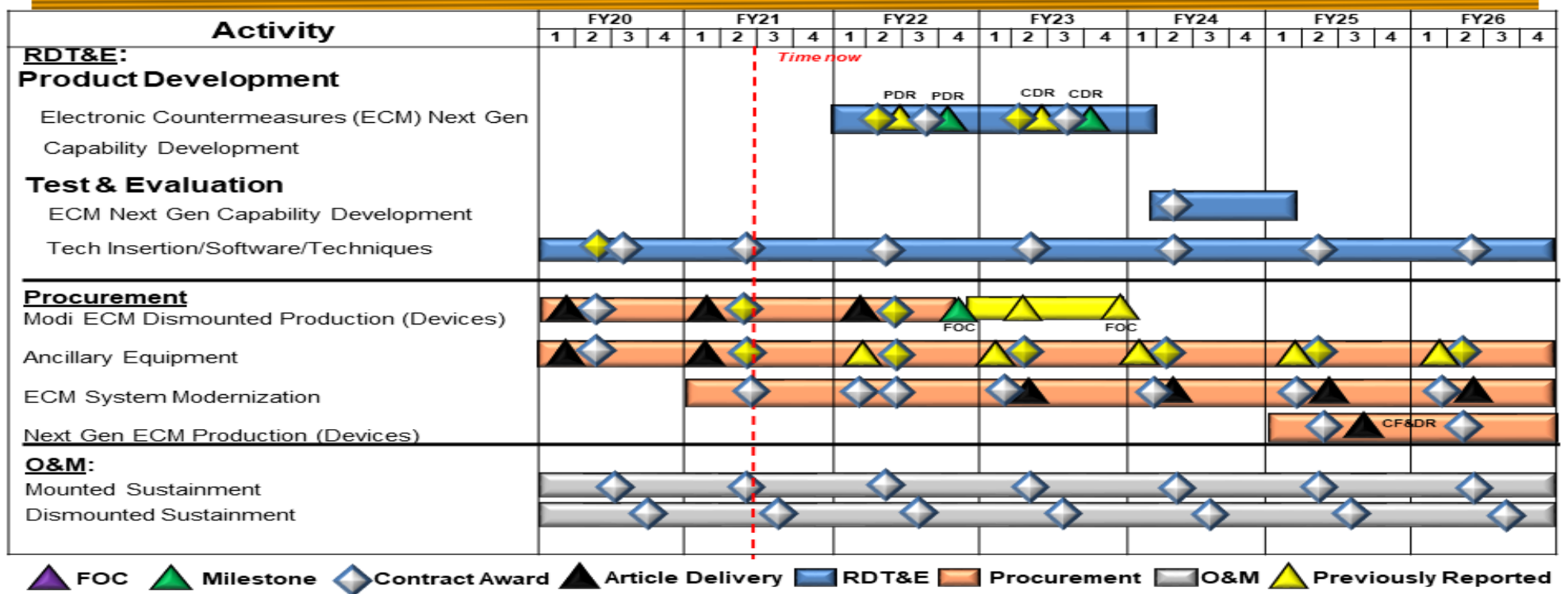


▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

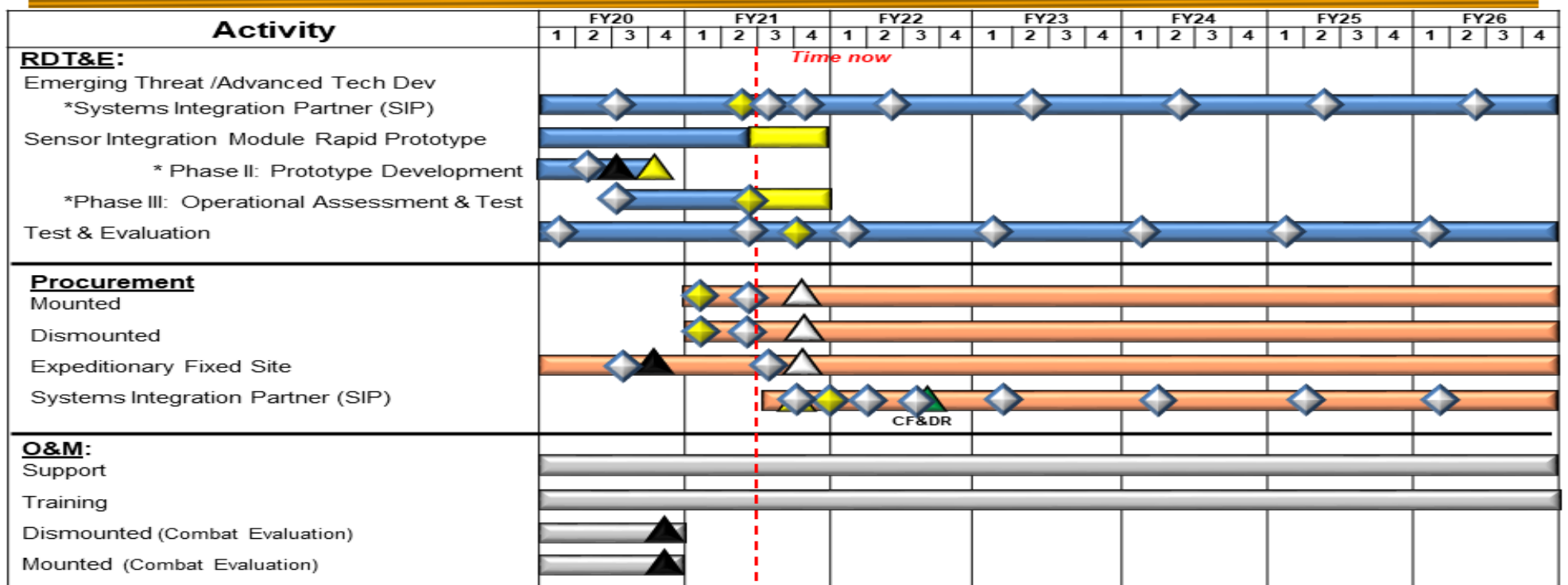
Counter Radio Controlled - Improvised Explosive Device (RC-IED) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

Counter Unmanned Aerial Systems Schedule

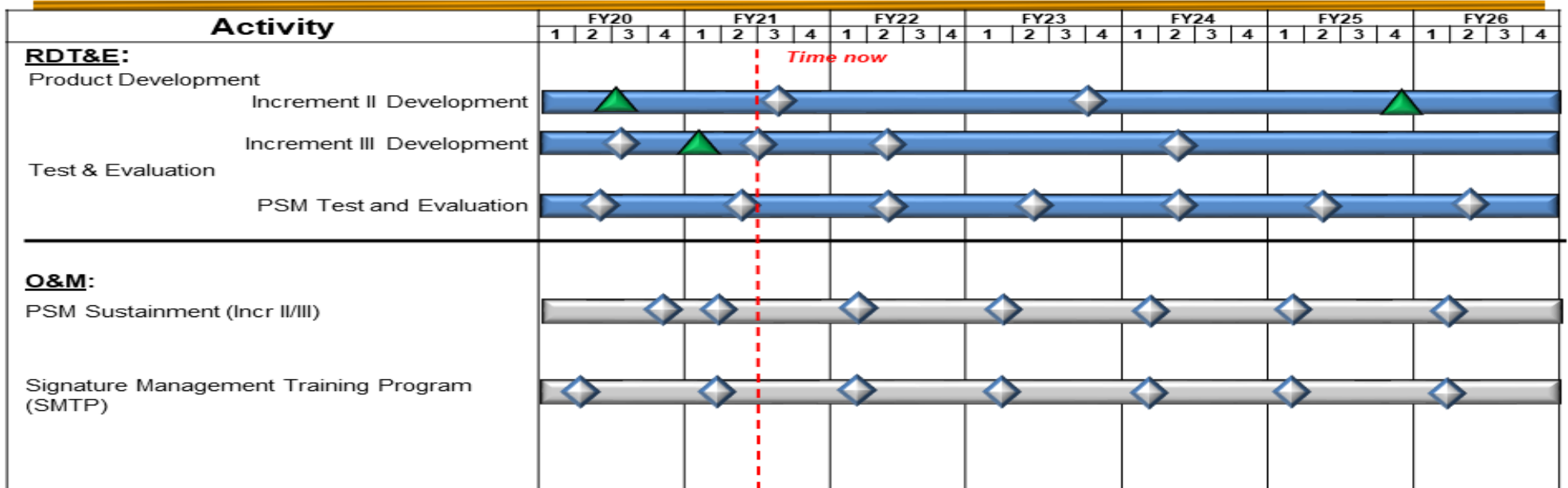


▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

Personal Signature Management (PSM) Schedule



▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Soldier Protection and Survival Systems (SPEAR)</i>				
Protective Combat Uniform (PCU) Product Development	1	2020	4	2026
Hearing Protection & Comms Headsets Product Development	1	2020	4	2026
Modular Glove System (MGS) Product Development	1	2020	4	2026
Load Carriage System (LCS) and Backpacks Product Development	1	2020	4	2026
Power and Data Management Development	1	2020	4	2026
PCU Test & Evaluation	1	2020	4	2026
MGS Test & Evaluation	1	2020	4	2026
Hearing Protection & Comms Headsets Test & Evaluation	1	2020	4	2026
LCS/Backpack/Body Armor Vest Test & Evaluation	1	2020	4	2026
Power and Data Management Test & Evaluation	1	2020	4	2026
<i>Tactical Combat Casualty Care (TCCC)</i>				
TCCC Casualty Evacuation (CASEVAC) Sets Development, Test & Evaluation	1	2020	4	2026
TCCC Brain Health Test and Evaluation	4	2021	4	2026
<i>Counter Radio Controlled-Improvised Explosive Device (R-CIED)</i>				
Next Generation Electronic Countermeasures (ECM) Capability Development (Product Development)	1	2022	1	2024
Next Generation ECM Capability Development (Test & Evaluation Support)	2	2024	1	2025
Technology Insertion/Software/Techniques (Test & Evaluation Support)	1	2020	4	2026
<i>Counter Unmanned Aerial System (C-UAS)</i>				
C-UAS Emerging Threat /Advanced Technology Development (Systems Integration Partner)	1	2020	4	2026
Sensor Integration Module Rapid Prototype Product Development	1	2020	2	2021

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
C-UAS FoS-SIM - Phase 2 (Prototype Development)	2	2020	3	2020
C-UAS FoS-SIM - Phase 3 (Prototype Operational Assessment and Test)	3	2020	2	2021
C-UAS Test and Evaluation Support	1	2020	4	2026
<i>Personnel Signature Management (PSM)</i>				
PSM Development (Incr II)	1	2020	4	2026
PSM Development (Incr III)	1	2020	4	2026
PSM Test & Evaluation	1	2020	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
<i>S385A: Body Armor and Associated Equipment</i>	8.443	1.717	1.738	1.684	-	1.684	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides specialized equipment to meet the unique operator protection and survival requirements of SOF, to include: Army Rangers; Army Special Forces; Navy Sea, Air, Land (SEAL) teams; Navy Special Boat Units; Air Force Operators; and Marine Raiders. Specialized ballistic equipment improves survivability impacting the mobility of SOF while conducting varied missions. These missions are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy.

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

	FY 2020	FY 2021	FY 2022
Title: SOF Personal Equipment Advanced Requirement (SPEAR)-Ballistic Protection	1.717	1.738	1.684
Description: This project enhances the SPEAR program by supporting body armor helmets and eye protection. It also provides for the research, development, and testing of a variety of body armor and personal protective equipment.			
FY 2021 Plans: Continue foreign ammunition testing and threat validation to assess effectiveness of currently fielded personal protective equipment. Continue development and testing of lightweight body armor and helmets to upgrade systems that have been fielded. Continue evaluation of transparent armor products which include variable light transmission and laser lenses to upgrade systems that have been fielded. Continue development and testing of technologies to upgrade the maritime crewman helmet.			
FY 2022 Plans: Continues foreign ammunition testing and threat validation to assess effectiveness of currently fielded personal protective equipment. Continues development and testing of lightweight body armor and helmets to upgrade systems that have been fielded. Continues evaluation of transparent armor products which include variable light transmission and laser lenses to upgrade systems that have been fielded. Continues development and testing of technologies to upgrade the maritime crewman and rotary wing helmet.			
FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.054 million was made available to support emerging critical Command requirements.			
Accomplishments/Planned Programs Subtotals	1.717	1.738	1.684

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR:: <i>Warrior Systems<\$5M</i>	344.003	342.606	284.548	-	284.548	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

SPEAR ballistic protection equipment takes advantage of modified Commercial-Off-The-Shelf (COTS) or non-developmental items. As United States Special Operations Command required tailored solutions for SOF Mission sets, SPEAR items leveraged from industry are often on cutting edge of technology with modifications specific for SOF missions and require substantial testing in SOF environments. Utilizes Special Operations Forces Support Activity (SOFSFA) for warehousing and sustainment, Program Manager Special Operations Forces - Survival, Support, and Equipment Systems (PM - SOF SSES) has cradle to grave responsibility. Contracts in support of SPEAR are a combination of firm fixed price five year indefinite delivery indefinite quantity with single vendor awards, Source America mandatory sole sources, small business set asides and prime vendor style multiple award contracts.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
SOF Personal Equipment Advanced Requirement (SPEAR) - Body Armor	Various	PM-SSES : Natick, MA	2.776	0.388	Jun 2020	0.387	Feb 2021	0.556	Feb 2022	-		0.556	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmets	Various	PM-SSES : Natick, MA	1.843	0.377	May 2020	0.378	Jan 2021	0.390	Feb 2022	-		0.390	Continuing	Continuing	-
SPEAR - Eye Protection	Various	PM-SSES : Natick, MA	0.286	0.105	Jun 2020	0.116	Mar 2021	0.060	Mar 2022	-		0.060	Continuing	Continuing	-
Subtotal			4.905	0.870		0.881		1.006		-		1.006	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
SPEAR - Body Armor	Various	PM-SSES : Natick, MA	1.959	0.377	Jun 2020	0.381	Apr 2021	0.378	Jun 2022	-		0.378	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmet	Various	PM-SSES : Natick, MA	1.384	0.377	May 2020	0.381	Apr 2021	0.260	Jun 2022	-		0.260	Continuing	Continuing	-
SPEAR - Transparent Armor	Various	PM-SSES : Natick, MA	0.195	0.093	Jun 2020	0.095	Mar 2021	0.040	Mar 2022	-		0.040	Continuing	Continuing	-
Subtotal			3.538	0.847		0.857		0.678		-		0.678	Continuing	Continuing	N/A

Project Cost Totals	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.443	1.717	1.738	1.684	-	1.684	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>

Special Operations Forces Personal Equipment Advanced Requirements (SPEAR) - Body Armor Schedule



▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Body Armor and Associated Equipment</i>				
Body Armor Product Development	1	2020	4	2026
Lightweight Ballistic Helmets Product Development	1	2020	4	2026
Eye Protection Product Development	1	2020	4	2026
Body Armor Test & Evaluation	1	2020	4	2026
Lightweight Ballistic Helmets Test & Evaluation	1	2020	4	2026
Transparent Armor Test & Evaluation	1	2020	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command										Date: May 2021		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	15.096	3.168	2.171	5.047	-	5.047	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for development, testing and integration of specialized visual augmentation, binocular and monocular night vision devices, laser markers, laser designators, geo-location systems, weapon optics, weapon aiming lasers, sensor systems, visible lights, infrared imagers, clandestine pointers, simulators and accessories to meet the unique requirements of Special Operations Forces (SOF). These projects ensure SOF hyper-enabled operators will remain technologically superior to enemy threats and ensure mission success.

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

	FY 2020	FY 2021	FY 2022
Title: Visual Augmentation Systems (VAS)	3.168	2.171	5.047
Description: Sensor technologies being developed include image intensification thermal imaging, short wave infrared, multi-spectral, fusion, and other sensor types. Developments will decrease weight, increase range, increase situational awareness, provide data, image processing, image filtering, determine wind speed, observe bullet trace, and sensor fusion to be able to detect, identify, classify and engage targets at greater ranges. Some efforts may be tied to Hyper-Enabled Operator (HEO).			
FY 2021 Plans: Continue development and testing of visual augmentation, laser devices, and continue development and testing of simulators to improve situational awareness, sharing of data/images, target acquisition, and training.			
FY 2022 Plans: Continues development and testing of visual augmentation, laser devices, and continues development and testing of simulators to improve situational awareness, sharing of data/images, target acquisition, and training. Initiates the Joint Acquisition Task Force (JATF)/HEO transition of an integrated head-mounted sensor and augmented reality display providing threat detection. Real-time shared imaging and sensor discovery with distributed algorithm processing of a common operating picture.			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$2.876 million will initiate the JATF/HEO transition of an integrated head-mounted sensor and Augmented Reality (AR) display providing threat detection.			
Accomplishments/Planned Programs Subtotals	3.168	2.171	5.047

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems<\$5M</i>	344.003	342.606	284.548	-	284.548	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

Evolutionary acquisition and leveraging emerging technologies. An evolutionary approach delivers capability in increments, recognizing, up front, the need for future capability improvements. Full and open competition; Contracts are a combination of five-year Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) and small business set asides at several location; primarily via Naval Surface Warfare Center, Crane Contracting office, USSOCOM Contracting Office and other contracting offices.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Visual Augmentation Systems (VAS) Product Development (Laser and Optic)	C/CPFF	USSOCOM : Tampa, FL	8.934	1.514	Apr 2020	1.000	Apr 2021	4.367	Mar 2022	-		4.367	Continuing	Continuing	-
Visual Augmentation Systems (VAS) Product Development (Simulator)	C/CPFF	USSOCOM : Tampa, FL	1.500	1.444	Apr 2020	0.481	Apr 2021	0.480	Apr 2022	-		0.480	Continuing	Continuing	-
Prior Year	C/CPFF	USSOCOM : Tampa, FL	1.500	-		-		-		-		-	Continuing	Continuing	-
Prior Year Overseas Contingency Operations (OCO)	C/CPFF	USSOCOM : Tampa, FL	2.667	-		-		-		-		-	0.000	2.667	-
Subtotal			14.601	2.958		1.481		4.847		-		4.847	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
VAS Test and Evaluation	C/CPFF	USSOCOM : Tampa, FL	0.495	-		-		-		-		-	0.000	0.495	-
VAS Optic Test and Evaluation	C/CPFF	USSOCOM : Tampa FL	-	0.105	Apr 2020	0.345	Apr 2021	0.100	Sep 2022	-		0.100	Continuing	Continuing	-
VAS Laser Test and Evaluation	C/CPFF	USSOCOM : Tampa FL	-	0.105	Apr 2020	0.345	Apr 2021	0.100	Aug 2022	-		0.100	Continuing	Continuing	-
Subtotal			0.495	0.210		0.690		0.200		-		0.200	Continuing	Continuing	N/A

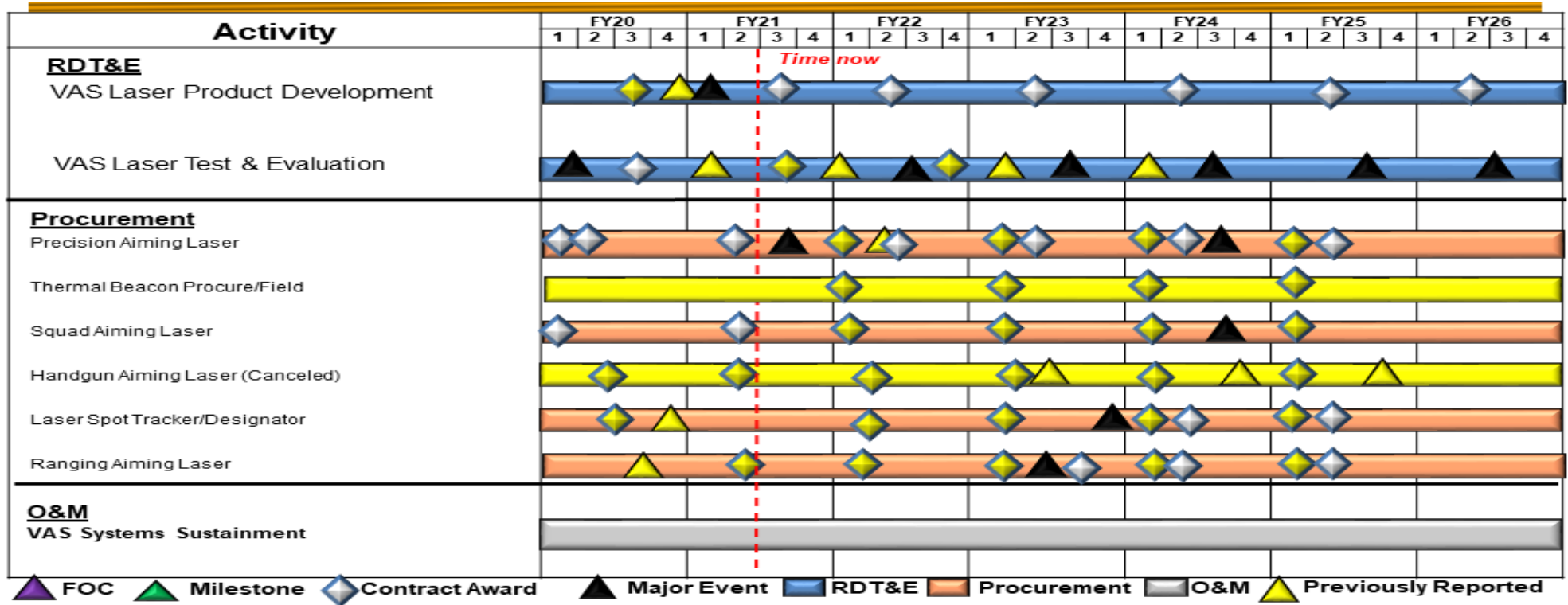
Project Cost Totals	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
	15.096	3.168	2.171	5.047	-	5.047	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S395 / Visual Augmentation, Lasers and Sensor Systems

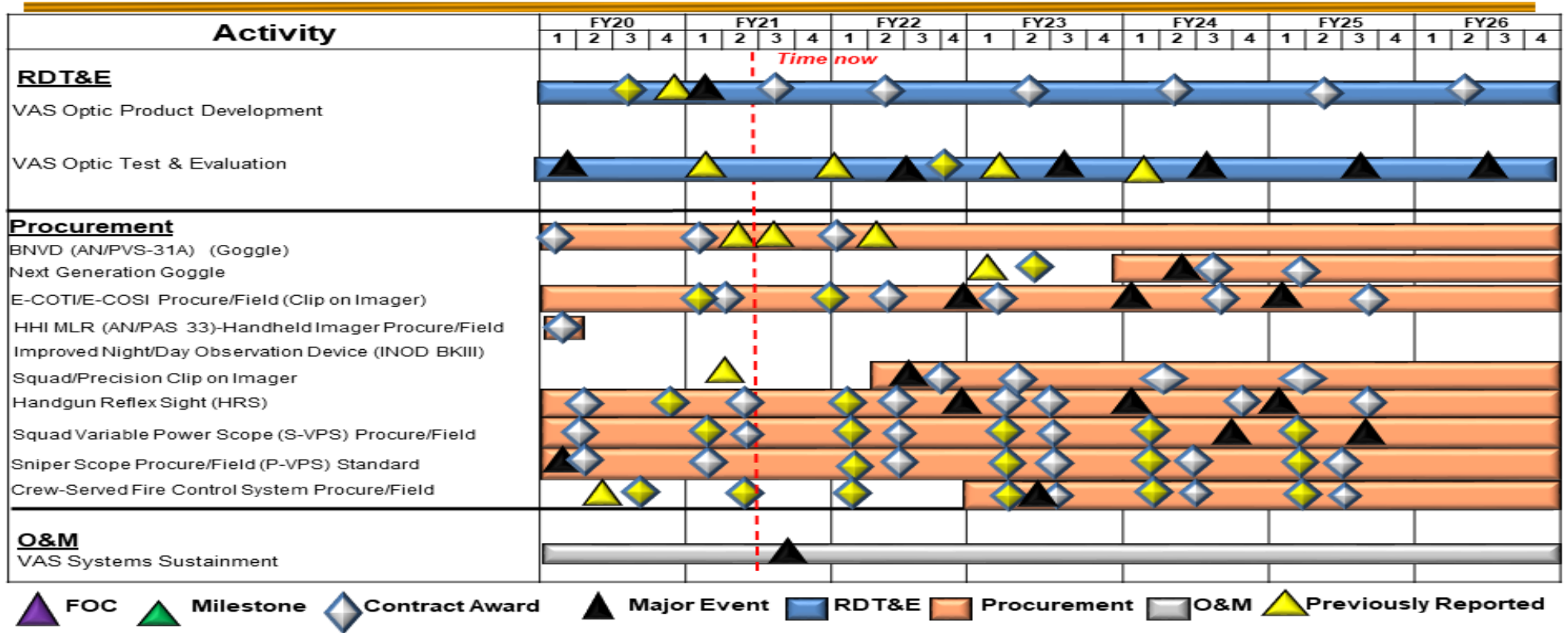
Visual Augmentation Systems Laser Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

Visual Augmentation Systems Optic Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

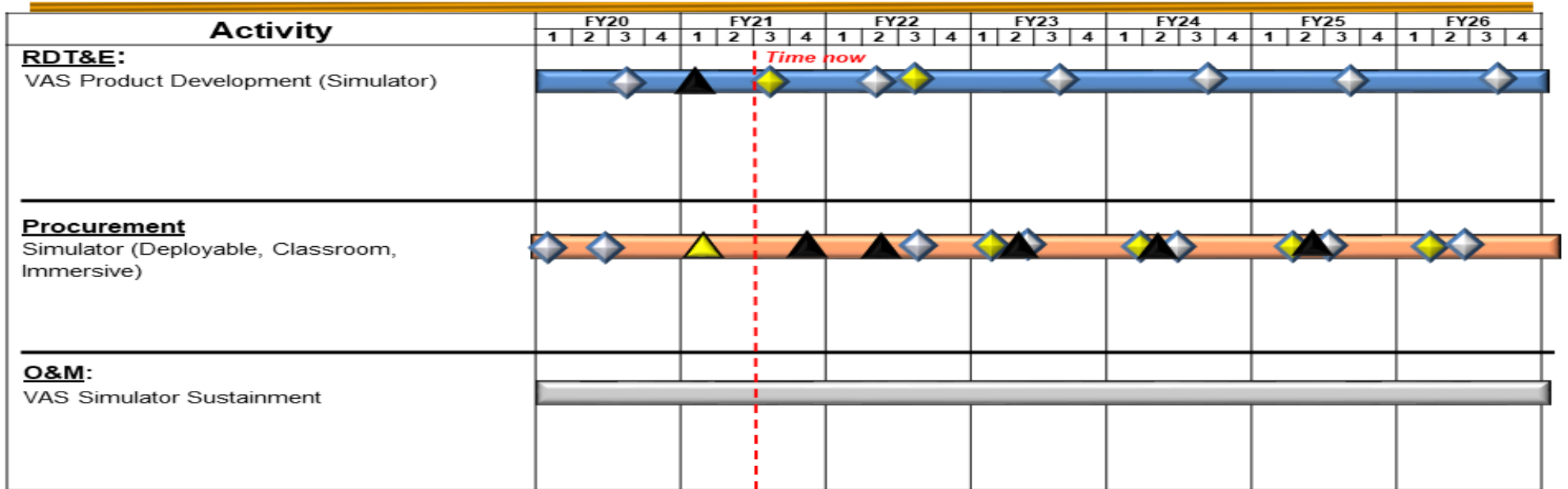
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / *Warrior Systems*

Project (Number/Name)
S395 / *Visual Augmentation, Lasers and Sensor Systems*

Visual Augmentation Systems Simulator Schedule



▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Visual Augmentation Systems</i>				
VAS Laser Development and Test	1	2020	4	2026
VAS Optic Development and Test	1	2020	4	2026
VAS Simulator Development and Test	1	2020	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command										Date: May 2021		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
<i>S700: Communications Equipment and Electronics Systems</i>	44.234	16.738	26.431	21.456	-	21.456	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project provides for communication systems to meet emergent requirements to support Special Operations Forces (SOF). Communications Equipment and Electronics Systems is a continuing effort to develop smaller, lighter, more efficient and more robust SOF Command, Control, Communications, and Computer (C4) capabilities.

United States Special Operations Comand C4 systems comprise an integrated network of systems providing positive command and control and the timely exchange of information to all organizational echelons. The C4 systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration within the Global Information Grid (GIG). The GIG is a multitude of existing and projected national assets that allows SOF elements to operate with any force combination in multiple environments.

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

	FY 2020	FY 2021	FY 2022
Title: Satellite Deployable Node (SDN)	9.002	10.641	5.634
<p>Description: SDN is a family of deployable, super high frequency, multi-band, Satellite Communications (SATCOM) systems providing the transport path for high-capacity, voice, data, Video Teleconferencing (VTC), and Full Motion Video (FMV) at all levels of classification. It consists of SDN subprograms, transport for intelligence variants, technology insertions and Capital Equipment replacement.</p> <p>FY 2021 Plans: Continue assessments, tests, and evaluations for wide-band Communications On The Move (COTM) maritime, ground mobile, and airborne technologies. Continue assessments in Size, Weight and Power (SWaP) reduction across all SDN systems. Continue evaluation of High Throughput Satellite (HTS) constellations and terminals. Continue evaluation of resilience of systems in a degraded communications environment.</p> <p>FY 2022 Plans: Continues assessments, tests, and evaluations for wide-band COTM maritime, ground mobile, and airborne technologies. Continues assessments in SWAP reduction across all SDN systems. Continues evaluation of HTS constellations and terminals. Continues evaluation of resilience of systems in a degraded communications environment.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
Decrease of \$5.007 million is due to technology development and reduced HTS service assessments.				
<p>Title: Civil Information Management (CIM)</p> <p>Description: The CIM Data Processing System (CIMDPS) is an automation system that assists active Civil Affairs (CA) and others engaged in civil-military operations to collect, process, analyze, maintain, mine, and deliver Civil Information and analysis products to support the Next Generation CIMDPS Systems.</p> <p>FY 2021 Plans: Complete development and integration of the Next Generation CIMDPS hardware platform in support of CA communities.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.010 million is due to CIMDPS program divestiture.</p>		-	0.010	-
<p>Title: Special Communications (SPCOM) Enterprise program</p> <p>Description: SPCOM includes organizations, practices, processes, services, networks, systems and subsystems that manage and provide clandestine exchange of information between elements (field-to-field, field-to-base, base-to-field) for worldwide deployed SOF units, often in austere environments with heavy adversarial monitoring. Acquisition efforts are structured for rapid, tailored development to counter adaptable emerging threats in all theaters of SOF sensitive missions.</p> <p>FY 2021 Plans: Continue segment development for the SPCOM enterprise; develop means and methods to provide near-term impact to operators. Continue development of anti-intrusion/anti-tamper capabilities. Continue extensive vulnerability assessments plus independent verification and validation. Acquisition efforts are structured for rapid, tailored development to counter adaptable emerging threats in all theaters of SOF sensitive missions.</p> <p>FY 2022 Plans: Continues segment development for the SPCOM enterprise; develops means and methods to provide near-term impact to operators. Continues development of anti-intrusion/anti-tamper capabilities. Continues extensive vulnerability assessments plus independent verification and validation. Acquisition efforts are structured for rapid, tailored development to counter adaptable emerging threats in all theaters of SOF sensitive missions.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.019 million is due to additional capability developments in support of SPCOM.</p>		7.736	11.201	11.220
<p>Title: Mission Command System Common Operational Picture (MCS/COP)</p>		-	4.579	4.602

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>Description: MCS/COP provides shared situational awareness for Special Operations Forces Commanders across all domains at the tactical, operational, and strategic levels. The MCS/COP delivers a near-real time operational understanding of the intelligence and operational environment to support decision making.</p> <p>FY 2021 Plans: Begin rapid prototyping, product development, and operational testing and evaluation based upon dynamic and emergent operational requirements.</p> <p>FY 2022 Plans: Continues rapid prototyping, product development, and operational testing and evaluation based upon dynamic and emergent operational requirements.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.023 million will accelerate rapid prototyping and product development of near-real time intelligence and operational environment capabilities to support decision making.</p>			
Accomplishments/Planned Programs Subtotals	16.738	26.431	21.456

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• PROC/0204WARRIOR: <i>Warrior Systems <\$5M</i>	344.003	342.606	284.548	-	284.548	-	-	-	-	-	-
• PROC/0204OTHER: <i>OTHER ITEMS <\$5M</i>	103.059	82.691	62.722	-	62.722	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

SDN is a fielded program with Evolutionary Technology Insertions (ETI) into all variants: Heavy, Medium, and Light, and wide-band COTM. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.

SPCOM is an ETI effort to provide and support multiple field mission sets fully integrated with secure transports for complete end-to-end capabilities. In particular, rapid, phased prototyping is prioritized to both develop operationally-relevant prototypes but also to be flexible and agile in ensuring countermeasures against dynamically adapting special communication threats in all theaters. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

CIM has an evolutionary acquisition strategy to enhance its capability to meet the CA community's emerging requirements.

MCS/COP employs the software acquisition pathway to facilitate rapid and iterative delivery of operational software to meet dynamic SOF requirements. Commercial, open and government sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S700 / Communications Equipment and Electronics Systems</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Satellite Deployable Node (SDN) Development	Various	Various : Various	11.350	6.375	Mar 2020	5.321	Jan 2021	1.125	Dec 2021	-		1.125	Continuing	Continuing	-
Civil Information Management Data Processing System (CIMDPS) Development	PO	SOF AT & L - KS : MACDILL AFB	1.788	-		0.010	Mar 2021	-		-		-	0.000	1.798	-
Special Communications (SPCOM) Enterprise Capability Development	C/Various	Various : Various	15.206	6.237	Jul 2020	9.330	Mar 2021	9.220	May 2022	-		9.220	Continuing	Continuing	-
SPCOM Technology Vulnerability Assessments	MIPR	MITRE : Bedford, MA	3.099	1.155	May 2020	1.423	Dec 2020	1.600	Apr 2020	-		1.600	Continuing	Continuing	-
Mission Command System Common Operational Picture (MCS/COP)	C/Various	Various : Various	-	-		2.292	Apr 2021	3.500	Mar 2022	-		3.500	Continuing	Continuing	-
Subtotal			31.443	13.767		18.376		15.445		-		15.445	Continuing	Continuing	N/A

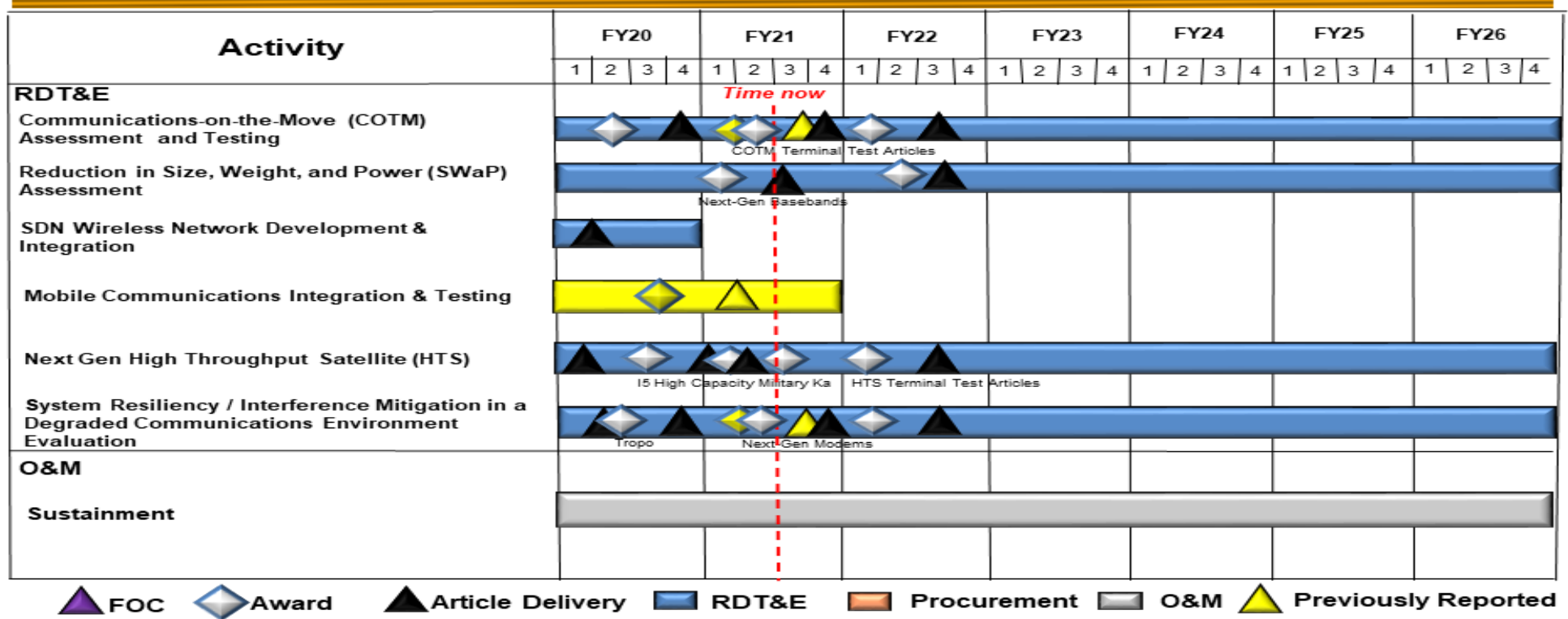
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SDN Evaluation and Testing	Various	Various : Various	11.150	2.627	Apr 2020	5.320	Feb 2021	4.509	Dec 2021	-		4.509	Continuing	Continuing	-
SPCOM Independent Verification and Validation	MIPR	MITRE : Bedford, MA	1.641	0.344	Mar 2020	0.448	Dec 2020	0.400	Apr 2022	-		0.400	Continuing	Continuing	-
Mission Command System Common Operational Picture (MCS/COP)	C/Various	Various : Various	-	-		2.287	Apr 2021	1.102	Mar 2022	-		1.102	Continuing	Continuing	-
Subtotal			12.791	2.971		8.055		6.011		-		6.011	Continuing	Continuing	N/A

Project Cost Totals	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
	44.234	16.738	26.431	21.456	-	21.456	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

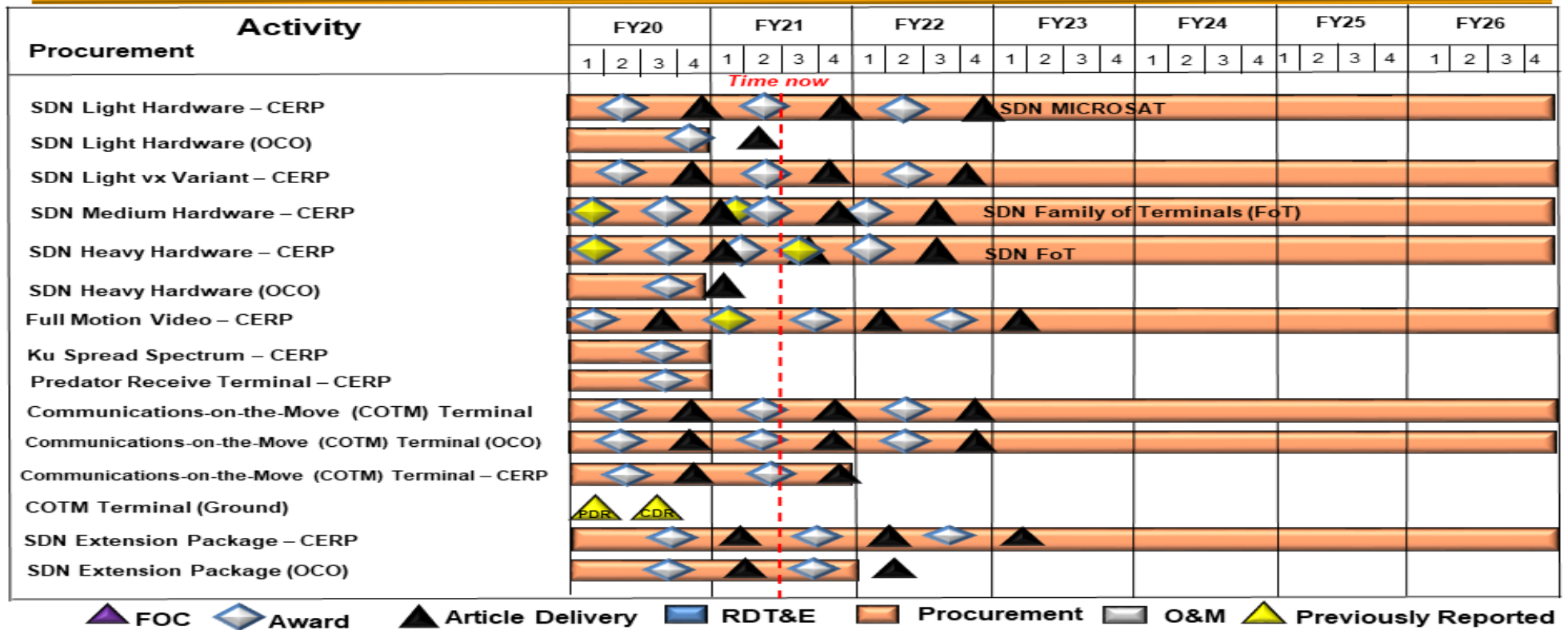
Satellite Deployable Node (SDN) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S700 / Communications Equipment and Electronics Systems

SDN Schedule (con't)



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S700 / Communications Equipment and Electronics Systems</i>

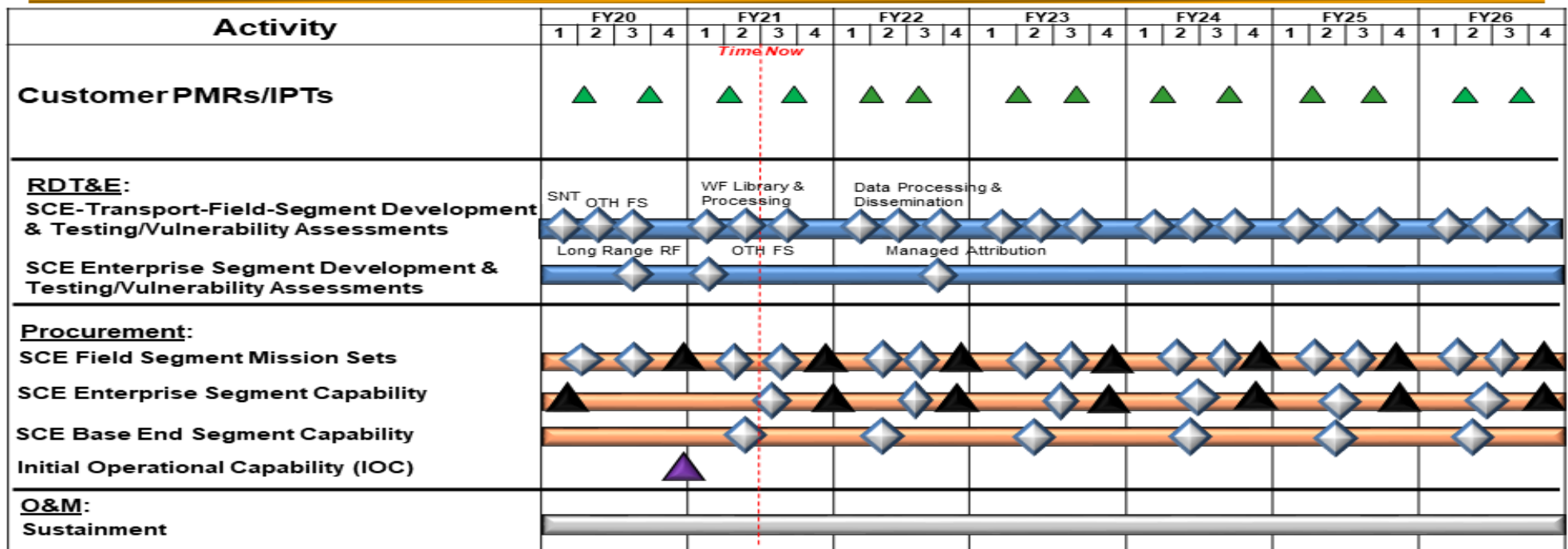
Civil Information Management Data Processing Schedule

Activity	FY20				FY21				FY22				FY23				FY24				FY25				FY26			
	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
RDT&E:																												
O&M:																												

Contract Award
 Article Delivery
 RDT&E
 Procurement
 O&M
 Previously Reported

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S700 / Communications Equipment and Electronics Systems

Special Communications Enterprise (SPCOM) Schedule



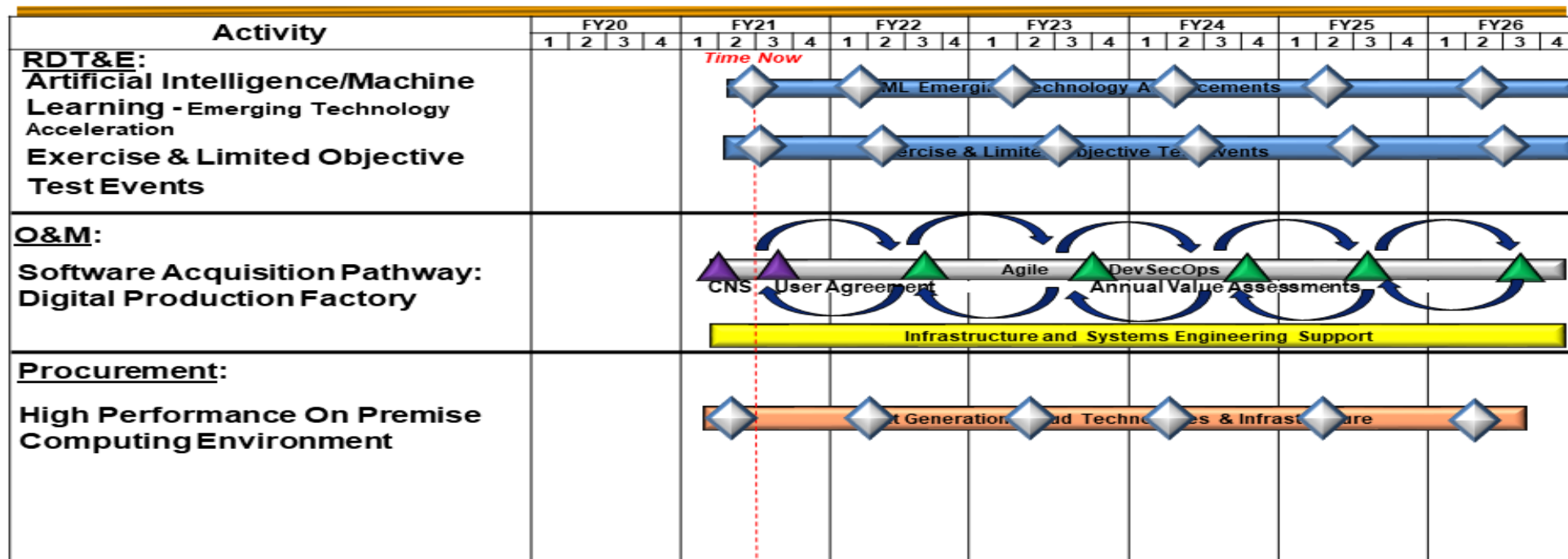
▲ IOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M

SNT: Secure Note Taking OTH FS: Over the Horizon Field Set
 RF: Radio Frequency WF: Waveform

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

Mission Command System (MCS)/ Common Operational Picture (COP) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Deployable Node (SDN)</i>				
Communications-on-the-Move (COTM) Assessment & Testing	1	2020	4	2026
Assess Reduction in Size, Weight, and Power (SWaP)	1	2020	4	2026
SDN Wireless Network Development & Integration	1	2020	4	2020
Next Generation High Throughput (HTS) Satellite Market Research	1	2020	4	2026
Evaluate System Resiliency / Interference Mitigation in Degraded Communications Environment Evaluation	1	2020	4	2026
<i>Civil Information Management (CIM)</i>				
Hardware Software Integration	1	2020	2	2021
<i>Special Communications (SPCOM) Enterprise Program</i>				
Transport - Field Segment Kit Development and Testing/Vulnerability Assessments	1	2020	4	2026
Enterprise Segment Development and Testing/Vulnerability Assessments	1	2020	4	2026
<i>Mission Command System Common Operational (MCS/COP)</i>				
Artificial Intelligence/Machine Learning (AI/ML)	3	2021	4	2026
Exercise & Limited Objective Test Events	3	2021	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
<i>S710: Tactical Systems Development</i>	7.238	2.710	3.344	6.331	-	6.331	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized automation equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.

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

	FY 2020	FY 2021	FY 2022
<p>Title: Tactical Local Area Network (TACLAN) Suites</p> <p>Description: TACLAN provides SOF operational commanders and forward deployed forces advanced networking, automated data processing, storage, and display capabilities to support situational awareness, mission planning and execution, and command and control of forces. The TACLAN consists of Suites, Mission Planning Kits, Field Computing Devices (FCD), and tactical work stations.</p> <p>FY 2021 Plans: Continue integration and testing of Evolutionary Technology Insertions (ETIs) for TACLAN FCD and Network Management Suite upgrades. Continue the development of Mobile Edge Computing capabilities for integration and assessment in the TACLAN Family of Systems.</p> <p>FY 2022 Plans: Continues integration and testing of ETIs for TACLAN FCD and Network Management Suite upgrades. Completes the development of Mobile Edge Computing capabilities for integration and assessment in the TACLAN Family of Systems.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$0.276 million is due to the completion of Mobile Edge Computing integration and assessments.</p>	2.710	3.344	3.068
<p>Title: Digital Ecosystem (DE)</p> <p>Description: Provide enterprise solutions to address SOF mission sets requiring collection, processing, and analysis of publicly available, non publicly available, and commercially available information. Mission sets supported include (but not limited to): Civil Affairs (CA), Counterintelligence (CI), Counter-Threat Finance (CTF), Identity Management (IdM)/Signature Management,</p>	-	-	3.263

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Information Operations (IO), Open Source Intelligence (OSINT), Operational Preparation of the Environment (OPE) and Targeting. Additional detail provided under separate cover, to include schedule.			
<i>FY 2022 Plans:</i> Develops, tests, and implements additional features. Continues incorporation of additional data sources, improves data fusion and display methods.			
<i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Increase of \$3.263 million is for expansion of data sources and analysis tool development. Funding for FY20 and FY21 is located in PE 1160408BB/Operational Enhancements.			
Accomplishments/Planned Programs Subtotals	2.710	3.344	6.331

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC/0204OTHER: <i>OTHER ITEMS <\$5M</i>	103.059	82.691	62.722	-	62.722	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

- TACLAN - The TACLAN evolutionary acquisition strategy includes the use of commercial and government agency sources, that will be leveraged for required certifications, functional and operational test, and acceptance support.
- DE - In accordance with DoDI 5000.87, this program is transitioning to the Software Acquisition Pathway. The acquisition strategy under this pathway will promote continuous engineering and delivery of capability throughout the software lifecycle.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

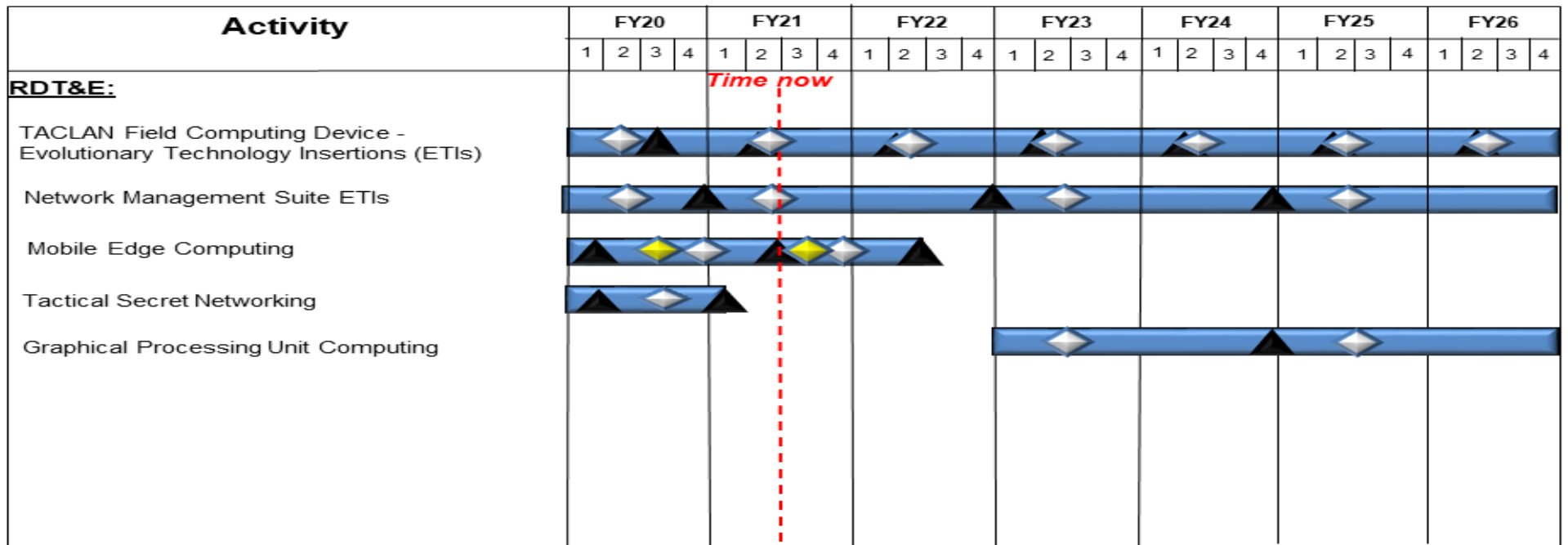
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / *Warrior Systems*

Project (Number/Name)
S710 / *Tactical Systems Development*

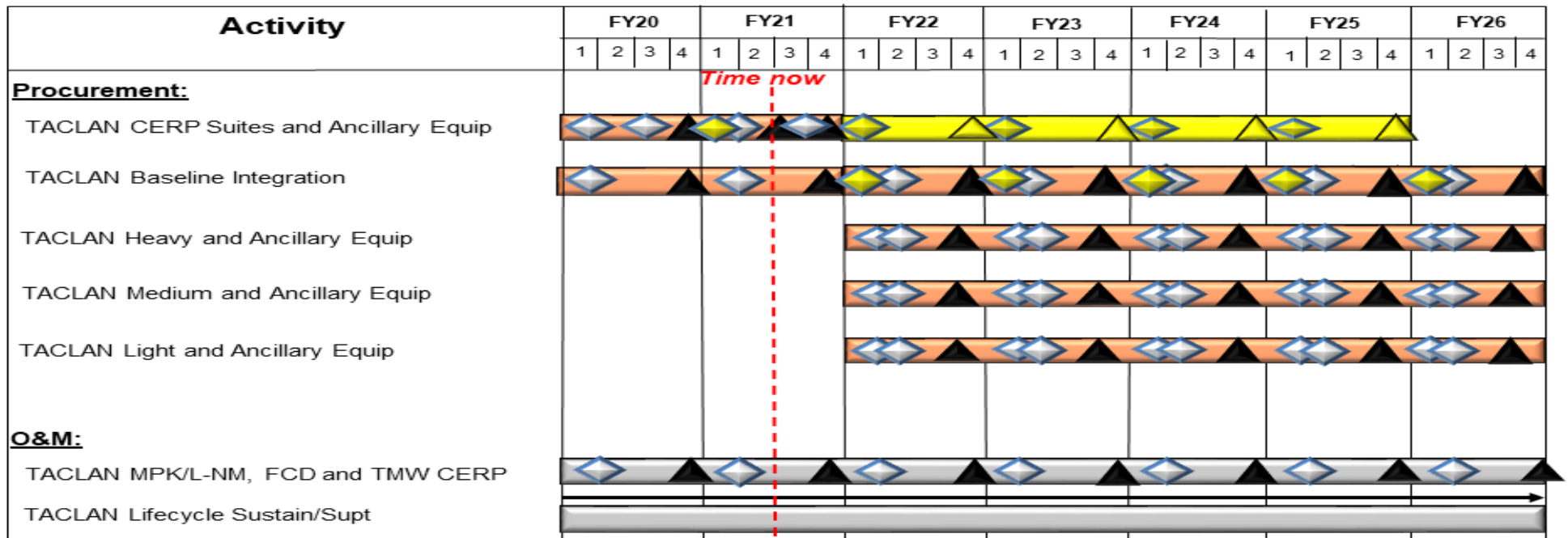
Tactical Local Area Network (TACLAN) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S710 / Tactical Systems Development

TACLAN Schedule (con't)



FOC
 Award
 Article Delivery
 RDT&E
 Procurement
 O&M
 Previously Reported

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Tactical Local Area Network (TACLAN) Suites</i>				
TACLAN Field Computing Device (FCD) Upgrades	1	2020	4	2026
Network Management Suite ETIs	1	2020	4	2026
Mobile Edge Computing	1	2020	2	2022
Tactical Secret Networking	1	2020	1	2021
Graphical Processing Unit Computing	1	2023	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems				Project (Number/Name) S725 / Tactical Radio Systems			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
<i>S725: Tactical Radio Systems</i>	32.835	10.627	7.940	2.999	-	2.999	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project is for the development of all Special Operations Forces (SOF) tactical radio programs. Tactical Radios provide the critical Command, Control, and Communications (C3) link between SOF Commanders and SOF Teams conducting operational missions and training exercises. They also provide interoperability with all Services, various agencies of the U.S. Government, Air Traffic Control, commercial agencies, and allied foreign forces. Tactical Radios rapidly and seamlessly establish and maintain mobile and fixed Command and Control (C2) communications between operational elements and higher echelon headquarters, allowing SOF to operate with any force combination in multiple environments.

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

	FY 2020	FY 2021	FY 2022
<p>Title: SOF Tactical Communications (STC)</p> <p>Description: STC consists of Next-Generation SOF Communication Systems which replace most of the currently fielded SOF tactical radios. Capabilities include Real Time, Hostile and Friendly Force Information; Line of Sight (LOS) and Beyond LOS (BLOS) Communications; and access to Situational Awareness in the form of Intelligence Inputs, Broadcasts, and Networks.</p> <p>FY 2021 Plans: Complete A-Tactical Assault Kit development and integration. Continue Software Development Kit (SDK) Mission Module (MM) development. Begin High Throughput (HT) MM development and integration that will provide high throughput capability to existing Mobile Ad-hoc Networks (MANET). Continue Engineering Change Proposals (ECP) for Next Generation Handheld (NGHH) and Next Generation Manpack (NGMP). Complete NGMP user assessments. Continue High Frequency (HF) platform modernization incorporating two systems into a single Government-owned form factor that provides Low Probability Intercept/Detection (LPI/D) capabilities. Complete Line of Sight (LOS)/Below LOS contested communications/waveform development.</p> <p>FY 2022 Plans: Completes the second phase of development for the SDK MM and HT MM that will provide high throughput capability to existing MANET. Continues ECPs for the NGHH and NGMP, to include development of a Wide-Area Personal Area Network to reduce tactical radio footprints through the use of wireless technologies. Continues HF platform modernization incorporating two systems into a single Government-owned form factor that provides LPI/D capabilities. Begins next phase of contested communications/waveform development focusing on anti-jam capabilities.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$5.462 million is due to completion of HF Modernization and MM development.</p>	9.961	7.253	1.791
<p>Title: Blue Force Tracking (BFT)</p>	0.666	0.687	1.208

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S725 / <i>Tactical Radio Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>Description: BFT is a family of devices used to remotely track and monitor SOF unit personnel. The capability enhances C2, threat warning, force protection, situational awareness, combat search and rescue, counter-fratricide, and battlefield visualization. This capability is unique to SOF because it requires the devices to be lightweight, portable, secure with a Low Probability of Intercept/Low Probability of Detection.</p> <p>FY 2021 Plans: Continue development and test of new capabilities in BFT equipment.</p> <p>FY 2022 Plans: Continues development and testing of new capabilities as outlined in the BFT Capability Development Document.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.521 million is due to addressing capability enhancements outlined in the latest Capability Development Document version.</p>			
Accomplishments/Planned Programs Subtotals	10.627	7.940	2.999

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

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• PROC/0204WARRIOR: <i>Warrior Systems<\$5M</i>	344.003	342.606	284.548	-	284.548	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

- STC is a Commercial-Off-The-Shelf (COTS)/Non-Development Item program with Evolutionary Technology Insertions. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.
- BFT is a fielded program with evolutionary technology insertions leveraging commercial and other government agency sources for required certifications, functional and operational tests, and technology updates.

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

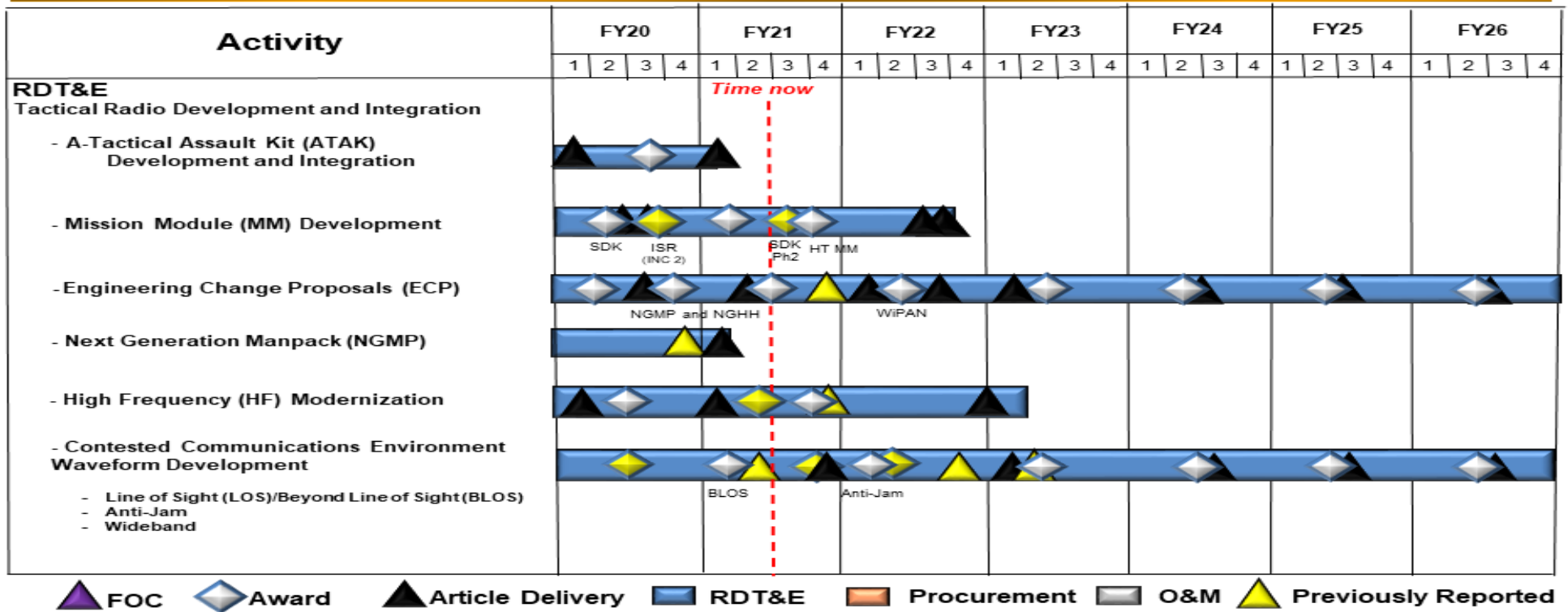
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S725 / Tactical Radio Systems

SOF Tactical Communications (STC)/ Next Generation Tactical Communications (NGTC) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

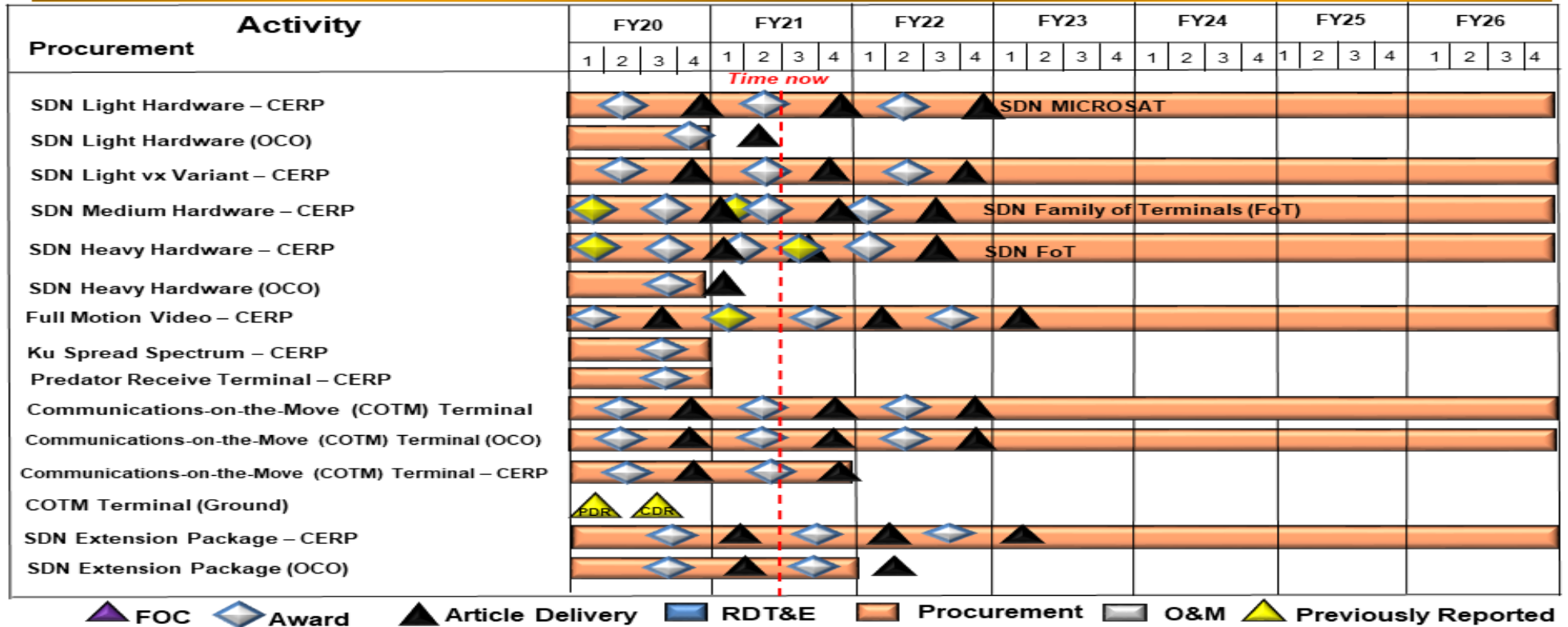
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S725 / Tactical Radio Systems

SDN Schedule (con't)



Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S725 / Tactical Radio Systems

Blue Force Tracking Schedule

Activity	FY20				FY21				FY22				FY23				FY24				FY25				FY26							
	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				
Customer PMRs/IPTs	▲		▲		▲		▲		▲		▲		▲		▲		▲		▲		▲		▲		▲		▲		▲		▲	
RDT&E: Rapid Prototyping, Product Development, and Device Integration	WF-B Integration Phase A				WF-B Integration Phase B				PR Integration																							
SOF Assessments & Operational Testing	▲	▲	▲		▲	▲	▲		▲	▲	▲		▲	▲	▲		▲	▲	▲		▲	▲	▲		▲	▲	▲		▲	▲	▲	
Procurement: Contract Awards	◆	◆			◆	◆			◆	◆			◆	◆			◆	◆			◆	◆			◆	◆			◆	◆		
Deliveries		▲				▲				▲				▲				▲				▲				▲				▲		
O&M: Lifecycle Sustainment Management & Fielding Support	[Grey bar representing O&M activity across all years]																															



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S725 / Tactical Radio Systems</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Tactical Communications Radio</i>				
A-Tactical Assault Kit (ATAK) Development and Integration	1	2020	1	2021
Mission Module (MM) Development	1	2020	3	2022
Engineering Change Proposals (ECPs)	1	2020	4	2026
Next Generation (NGEN) Manpack (MP) Test and Evaluation	1	2020	1	2021
High Frequency (HF) Modernization	1	2020	1	2023
Contested Communications	1	2020	4	2026
<i>Blue Force Tracking</i>				
Rapid Prototyping, Product Development, and Device Integration	1	2020	4	2026
SOF Assessment & Operational Testing	1	2020	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S800: <i>Munitions Advanced Development</i>	95.396	21.129	5.994	21.768	-	21.768	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds advanced engineering, operational system development and qualification efforts related to specialized munitions and equipment to meet the unique requirements of SOF.

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

	FY 2020	FY 2021	FY 2022
<p>Title: Stand-Off Precision Guided Munitions (SOPGM)</p> <p>Description: SOPGM provides for the integration and testing of service-common and recently developed precision guided munitions on SOF-unique platforms. This project received a congressional add in FY 2020.</p> <p>FY 2021 Plans: Continue engineering, integration and test on Small Glide Munitions (SGM).</p> <p>FY 2022 Plans: Continues the engineering, integration and testing on various technologies (munitions and warheads) within the precision guided munitions portfolio.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$1.101 million will continue SOPGM integration/development efforts.</p>	-	3.155	4.256
<p>Title: Munitions Advanced Development</p> <p>Description: The Munitions Advanced Development program provides for Insensitive Munitions (IM) technology development and evaluations that allow SOF munitions to pass testing which includes bullet impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the United States Special Operations IM Testing Plan. Munitions product improvements are tested in accordance with command priorities.</p> <p>FY 2021 Plans: Continue proof of concept development and IM testing on various munitions. Continue full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munitions, 26 Sep 2006).</p> <p>FY 2022 Plans:</p>	0.569	0.549	1.549

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>Continues proof of concept development and IM testing on various munitions. Continues full scale testing to satisfy safety requirements in Military Standard 2105C (Department of Defense Test and Method Standard: Hazard Assessment Test for Non-Nuclear Munitions, 26 Sep 2006). Scalable Effects effort funding will enable developmental testing, initial operational test evaluations, and finalized safety certifications for operational approvals. Additional detail provided under separate cover.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$1.000 million is due to new Maritime Disablement Operations (MDO) requirement and complimentary efforts. These programs require development, testing, safety classification and analyses, and validation before fielding. Additional details provided under separate cover.</p>				
<p>Title: Maritime Precision Engagement Munition (MPE-M) Ground Organic Precision Strike System (GOPSS)</p> <p>Description: Guided Rocket or propeller Systems provides for the engineering, integration and testing of service-common and recently developed precision guided munitions on SOF-unique platforms. MPE-M GOPSS is designated a Middle Tier Acquisition (MTA) program which uses the rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts competitively selected as appropriate.</p> <p>FY 2021 Plans: Continue the engineering, integration and testing of service-common and recently developed precision guided munitions on SOF-unique platforms.</p> <p>FY 2022 Plans: Enables continued development of MPE-M by funding the following: engineering services; munition magazines; munition aircraft, launchers, and payloads; control systems; system emulators; test and evaluation events to include range time and support, testing materials, and equipment; post-event processing with revised capability and programmatic documents. These efforts will generate a Critical Design Review package and prepare the MPE-M program for fleet safety certifications, Developmental and Operational Assessments, and production. Enables development of each echelon within the GOPSS through funding the following: integration of missile launcher onto mobile platforms; purchase of developmental test articles and test equipment, test and evaluation events to include range costs; performance of critical munitions safety assessments; post-event processing and analysis with revised capability and programmatic documents;. All of this will prepare GOPSS for Critical Design Review milestone packages and prepare the GOPSS program for weapons safety certifications, Developmental and Operational Assessments, and production.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>		7.989	2.290	15.963

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Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Increase of \$13.673 million is for design configuration development, testing and evaluation, improvement, and subsequent Critical Design Review milestone activity and will also enable the integration of MPE-M with the Naval Special Warfare Combatant Craft Medium (CCM) platform and subsequent weapon system safety certification.			
Accomplishments/Planned Programs Subtotals	8.558	5.994	21.768

	FY 2020	FY 2021
Congressional Add: SOPGM	12.571	-
FY 2020 Accomplishments: Continued SGM Unmanned Aerial System (UAS) integration (\$2.901 million) and began SGM collaborative strike enhancement (\$9.670 million) for SOPGM.		
Congressional Adds Subtotals	12.571	-

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0203ORDN: <i>Ordnance Items <\$5M</i>	402.899	289.652	168.072	-	168.072	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

SOPGM: Integration and developmental testing of precision guided munitions will be conducted using government laboratories or industry partners depending on the munitions for various SOF platforms.

Munitions Advanced Development: Munitions and packaging redesign shall take place within government laboratories, as well as in industry, depending on the munitions. IM solutions shall be tested on a small scale for proof of principle. Planned product improvements are tested at Army, Navy, and Air Force test centers leveraging mid-tier acquisition authorities and Other Transaction Authorities (OTAs).

MPE-M/GOPSS: Integration and developmental testing of precision strike systems with follow-on government-led integration effort leveraging lessons learned from similar rapid integration and prototype efforts on other SOF platforms.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Stand-off Precision Guided Munitions (SOPGM) Development	SS/ Various	Various : Various	-	-		3.155	Feb 2021	3.756	Mar 2022	-		3.756	Continuing	Continuing	-
SOPGM Small Glide Munitions (SGM)/MQ-9 Integration Congressional Plus Up	C/Various	Dynetics : AL	5.900	1.661	Feb 2020	-		-		-		-	0.000	7.561	-
SOPGM SGM Collaborative Strike Enhancement Congressional Plus Up	C/Various	Dynetics : AL	-	8.128	Feb 2020	-		-		-		-	0.000	8.128	-
Maritime Precision Engagement Munition (MPE-M) Aircraft Development	C/Various	Various : Various	0.400	4.323	Nov 2020	0.500	Nov 2020	9.850	Nov 2021	-		9.850	Continuing	Continuing	-
MPE-M - Payload development	C/Various	Various : Various	-	1.010	Dec 2020	-		1.200	Nov 2021	-		1.200	Continuing	Continuing	-
MPE-M Integration Development	C/Various	Various : Various	1.350	0.500	Aug 2020	1.000	Nov 2020	0.956	Nov 2021	-		0.956	Continuing	Continuing	-
Ground Organic Precision Strike System (GOPSS)	C/Various	Various : Various	-	2.067	Jan 2021	-		1.775	Nov 2021	-		1.775	Continuing	Continuing	-
Prior Year Funding - Base	C/Various	Various : Various	57.426	-		-		-		-		-	0.000	57.426	-
Prior Year Funding - Overseas Contingency Operations (OCO)	C/Various	Various : Various	0.002	-		-		-		-		-	0.000	0.002	-
Prior Year Funding - Congressional Plus Up	C/Various	Various : Various	8.268	-		-		-		-		-	0.000	8.268	-
Subtotal			73.346	17.689		4.655		17.537		-		17.537	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Prior Year	C/Various	Various : Various	1.100	-		-		-		-		-	0.000	1.100	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Prior Year Funding - OCO	C/Various	Various : Various	0.001	-		-		-		-		-	0.000	0.001	-
Prior Year Funding - Congressional Plus Up	C/Various	Various : Various	7.868	-		-		-		-		-	0.000	7.868	-
Subtotal			8.969	-		-		-		-		-	0.000	8.969	N/A

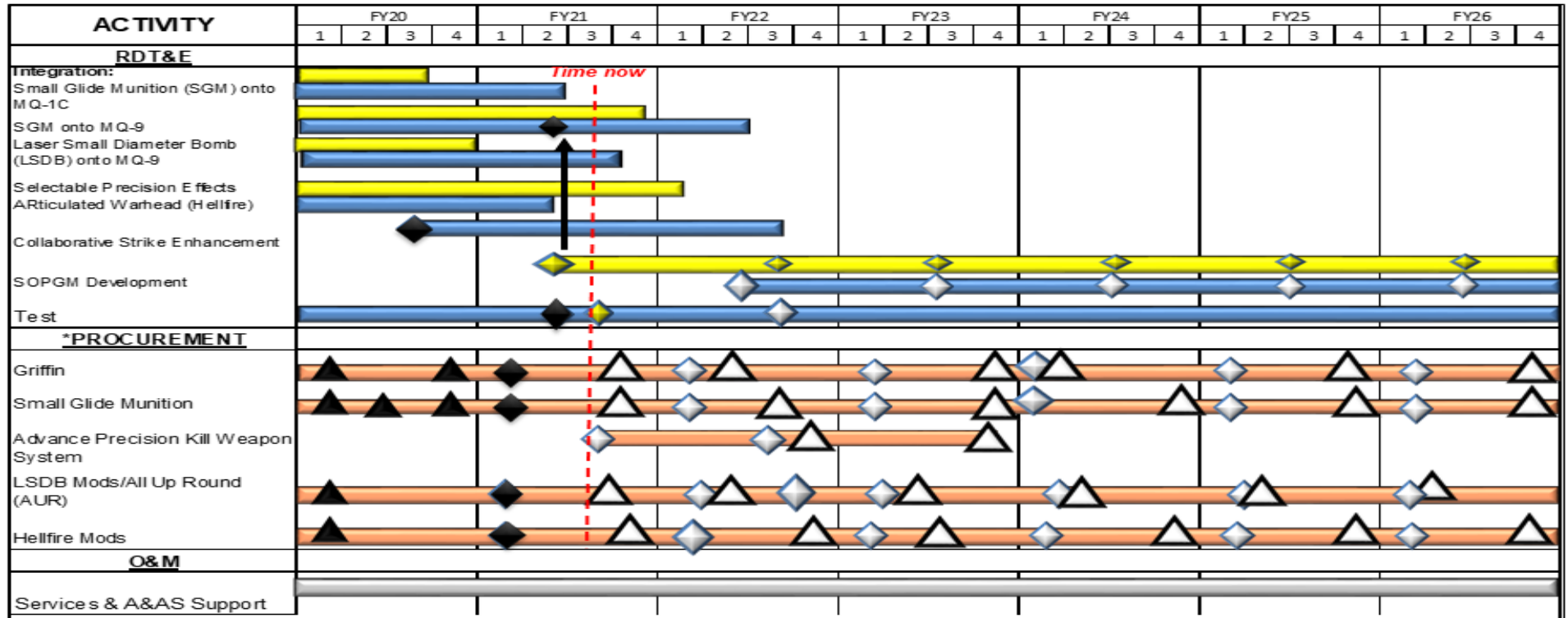
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOPGM SGM/MQ-9 Integration Congressional Plus up	C/Various	Dynetics : AL	-	1.240	May 2020	-		-		-		-	0.000	1.240	-
SOPGM SGM Collaborative Strike Enhancement Congressional Plus Up	C/Various	Dynetics : AL	-	1.542	May 2020	-		-		-		-	0.000	1.542	-
SOPGM Development	C/Various	Various : Various	-	-		-		0.500	Feb 2022	-		0.500	Continuing	Continuing	-
Munitions - Insensitive Munitions (IM) Evaluation	C/FFP	US Air Force Air Armaments Center : Eglin, AFB, FL	0.164	0.058	Dec 2019	0.060	Dec 2020	0.067	Dec 2021	-		0.067	Continuing	Continuing	-
Munitions - IM Testing	Allot	ARDEC : Picatinny Arsenal, NJ	0.840	0.363	Dec 2019	0.267	Dec 2020	0.268	Dec 2021	-		0.268	Continuing	Continuing	-
Munitions Advanced Development - Obtain Munitions Test Articles	C/FFP	General Dynamics : Canada	0.334	0.148	Dec 2019	0.222	Dec 2020	1.214	Dec 2021	-		1.214	Continuing	Continuing	-
MPE-M - Safety	Allot	NSWC : Indian Head, MD	0.300	0.089	Aug 2020	0.159	Jun 2021	0.419	Nov 2021	-		0.419	Continuing	Continuing	-
MPE-M - Payload Test	Allot	Redstone : Various	0.450	-		0.631	May 2021	0.468	Feb 2022	-		0.468	Continuing	Continuing	-
MPE-M - Test Ranges	Allot	NSWC : Indian Head, MD	-	-		-		1.295	Feb 2022	-		1.295	Continuing	Continuing	-
Prior Year Funding - Base	C/Various	Various : Various	2.313	-		-		-		-		-	0.000	2.313	-
Prior Year Funding - OCO	C/Various	Various : Various	0.406	-		-		-		-		-	0.000	0.406	-

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S800 / Munitions Advanced Development

Stand-Off Precision Guided Munitions Schedule



▲ Milestone ◆ Contract Award ▲ Article Delivery [Blue] RDT&E [Orange] Procurement [Grey] O&M [Yellow] Previously Reported

*Articles delivered monthly

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command

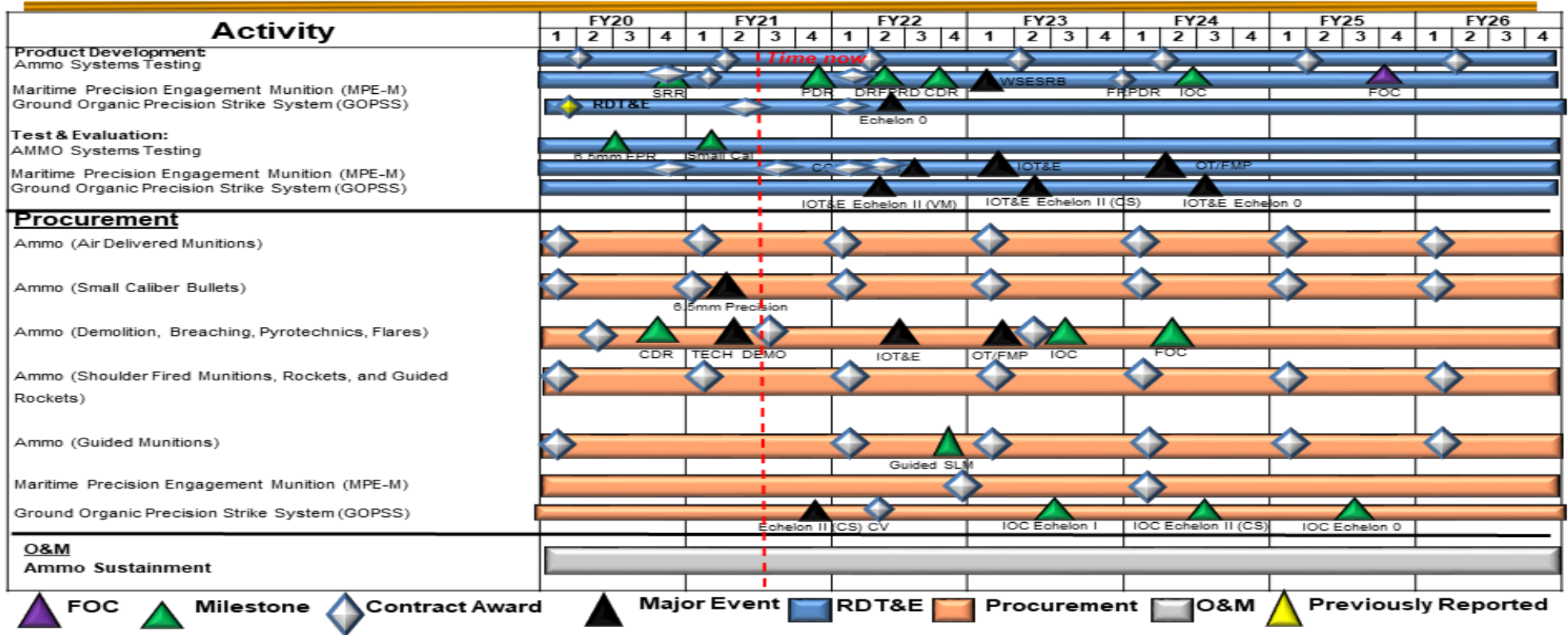
Date: May 2021

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S800 / Munitions Advanced Development

Munitions (Ordnance Items <\$5M) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Stand-off Precision Guided Munitions (SOPGM)</i>				
Small Glide Munitions (SGM) onto MQ-1C Integration	1	2020	2	2021
SGM onto MQ-9 Integration	1	2020	2	2022
Laser Small Diameter Bomb (LSDB) onto MQ-9 Integration	1	2020	3	2021
Selectable Warhead Hellfire (HF) Integration	1	2020	2	2021
SGM Collaborative Strike Enhancement	3	2020	3	2022
SOPGM Development	2	2022	4	2026
SOPGM Testing	1	2020	4	2026
<i>Munitions (Ordnance Items)</i>				
Ammo Systems Product Development	1	2020	4	2026
Maritime Precision Engagement Munition (MPE-M) Product Development	1	2020	4	2026
Ground Organic Precision Strike System (GOPSS) Product Development	1	2020	4	2026
Ammo Systems Test and Evaluation	1	2020	4	2026
MPE-M Test and Evaluation	1	2020	4	2026
GOPSS Test and Evaluation	1	2020	4	2026