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**Exhibit R-2, RDT&E Budget Item Justification: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	367.063	67.226	125.473	129.133	-	129.133	137.487	101.542	92.527	102.947	Continuing	Continuing
D476: <i>Military Information Support Operations</i>	55.212	3.705	3.168	5.371	-	5.371	5.500	3.434	3.503	3.573	Continuing	Continuing
S375: <i>Weapons Systems</i>	7.549	1.646	1.514	1.518	-	1.518	1.592	1.619	1.642	1.675	Continuing	Continuing
S385: <i>Soldier Protection and Survival Systems</i>	45.136	10.437	23.295	16.916	-	16.916	17.091	16.831	17.005	17.335	Continuing	Continuing
S385A: <i>Body Armor and Associated Equipment</i>	9.596	1.674	1.684	1.688	-	1.688	1.773	1.800	1.825	1.862	Continuing	Continuing
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	16.812	2.092	5.047	4.990	-	4.990	5.152	5.188	5.198	5.301	Continuing	Continuing
S700: <i>Communications Equipment and Electronics Systems</i>	60.999	28.356	21.456	48.665	-	48.665	49.902	24.013	16.204	23.070	Continuing	Continuing
S710: <i>Tactical Systems Development</i>	9.912	3.222	14.331	21.736	-	21.736	25.597	26.683	25.191	27.417	Continuing	Continuing
S725: <i>Tactical Radio Systems</i>	43.178	4.149	12.999	10.058	-	10.058	10.339	5.414	5.490	5.568	Continuing	Continuing
S800: <i>Munitions Advanced Development</i>	118.669	11.945	41.979	18.191	-	18.191	20.541	16.560	16.469	17.146	Continuing	Continuing

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

This Program Element (PE) provides for the 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

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protection and 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 SOF 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) develop a SOF organic strike mission package to surgically strike an agile and mobile enemy, protect our forces, and minimize collateral damage. The MISO efforts 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.

Fiscal Year (FY) 2021 funding totals include \$5.796 million appropriated for Overseas Contingency Operations (OCO).  
 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.  
 FY 2023 Overseas Operations Costs funding accounted for in the Base Budget include:

- Combat or direct combat support expenses that discontinue once combat operations end at major contingency locations (\$0.000 million).
- In-theater and in-CONUS expenses that remain after combat operations cease and have been previously funded in OCO (\$4.128 million).

**MISO:**  
 This project funds the development, test, and integration of systems 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. MISO efforts 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.

**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 the 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; Multi-Mission Electronic Countermeasures (MM-ECM) formerly Counter Radio Controlled Improvised Explosive Device (RC-IED) systems; Counter Unmanned Systems (aerial, ground and maritime); and personal 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.

The total cost of the C-UAS Middle Tier of Acquisition effort is \$30.234 million (FY 2023 – FY2027), including Research Development Test & Evaluation (RDT&E) and procurement of prototype units. The C-UAS effort is fully funded across the Future Years Defense Program (FYDP).

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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 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.

Visual Augmentation, Lasers and Sensor Systems:

This project provides for the 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.

Communications Equipment and Electronics Systems:

This project provides for communication systems to meet emergent requirements to support SOF. The 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.

Tactical Systems Development:

This project provides for the 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.

Tactical Radio Systems:

This project provides for the development of all SOF tactical radio programs. The SOF units require radio communication equipment that improves their warfighting capability without degrading their mobility. The USSOCOM has developed an overall strategy to ensure that Tactical Radio Systems continue to provide SOF with the required capabilities throughout the 21st century. The SOF Tactical Radios provide the critical command, control, and communications 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.

The total cost of the Remote, Advise and Assist Virtual Accompany Kit (RAA/VAK) Middle Tier of Acquisition effort is \$5.451 million (FY 2023 – FY2027), including RDT&E and procurement of prototype units. The RAA/VAK effort is fully funded across the FYDP.

Munitions Advanced Development:

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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 the 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 onto SOF and non-SOF platforms. When appropriate, these technologies will be pursued via rapid prototyping to develop, demonstrate, and evaluate residual operational capabilities. Munitions Scalable Effects (MSE) is designated a Middle Tier of Acquisition (MTA) program which uses a Rapid Prototype effort to assess a capability to deliver different munitions with multiple effects at short range from maritime platforms. MPE-M and GOPSS are designated MTA programs which uses the rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts competitively selected as appropriate.

The total cost of the Ordnance (MPE-M and GOPSS) MTA effort is \$48.033 million (FY 2023 – FY2027), including RDT&E and procurement of prototype units. The Ordnance effort is fully funded across the FYDP.

The total cost of the Target Engagements MTA effort is \$15.329 million (FY 2023 – FY2027), including RDT&E and procurement of prototype units. The Target Engagements effort is fully funded across the FYDP.

The total cost of the MSE MTA effort is \$2.812 million (FY 2023 – FY2027), including RDT&E and procurement of prototype units. The MSE effort is fully funded across the FYDP.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	64.095	78.592	0.000	-	0.000
Current President's Budget	67.226	125.473	129.133	-	129.133
Total Adjustments	3.131	46.881	129.133	-	129.133
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	46.881			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.128	-			
• Other Adjustments	5.259	-	-	-	-
• Adjustments to Budget Year	-	-	129.133	-	129.133

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

**Project:** S385: *Soldier Protection and Survival Systems*

	<b>FY 2021</b>	<b>FY 2022</b>

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<b><u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u></b>	<b>FY 2021</b>	<b>FY 2022</b>
Congressional Add: <i>C-UAS</i>	-	8.670
Congressional Add Subtotals for Project: S385	-	8.670
<b>Project:</b> <i>S710: Tactical Systems Development</i>		
Congressional Add: <i>Special Operations Fused Global Data Analytics and Visualization</i>	-	8.000
Congressional Add Subtotals for Project: S710	-	8.000
<b>Project:</b> <i>S725: Tactical Radio Systems</i>		
Congressional Add: <i>STC - Software-Defined Radio Waveforms</i>	-	10.000
Congressional Add Subtotals for Project: S725	-	10.000
<b>Project:</b> <i>S800: Munitions Advanced Development</i>		
Congressional Add: <i>Various Effects Launcher Capability</i>	-	16.000
Congressional Add: <i>Maritime Scalable Effects Acceleration</i>	-	4.211
Congressional Add Subtotals for Project: S800	-	20.211
Congressional Add Totals for all Projects	-	46.881

**Change Summary Explanation**

Funding:

FY 2021: Net increase of \$3.131 million is due to an increase for product development, design, and integration of MPE-M test articles for the Altius-700 warhead payload and product development and integration of GOPSS manpackable loitering munitions (LM) capabilities (\$5.169 million); an increase to support the evaluation of Satellite Deployable Node High (SDN) Throughput Satellite constellations and terminals (\$2.900 million); an increase for product development of classified MSE against identified adversaries (\$1.000 million); an increase to support the implementation of Windows Tactical Assault Kit-Common Operating Picture - MISO enhancements (\$0.523 million); an increase for weapons prototype suppression construction (\$0.100 million); a decrease to support the evaluation of SDN High Throughput Satellite constellations and terminals and emerging critical command requirements (-\$3.500 million); a decrease to support implementation of Windows Tactical Assault Kit-Common Operating Picture enhancements and emerging critical command requirements (-\$0.933 million); and a decrease due to a reprogramming of funds to the congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs (-\$2.128 million).

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<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 1160431BB / <i>Warrior Systems</i>

FY 2022: Net increase of \$46.881 million is due to a Congressional Add for C-UAS (\$8.670 million); a Congressional Add for Special Operations Fused Global Data Analytics and Visualization (\$8.000 million); a Congressional Add for Software-Defined Radio Waveforms (\$10.000 million); a Congressional Add for Various Effects Launcher Capability (\$16.000 million); and a Congressional Add for Maritime Scalable Effects Acceleration (\$4.211 million).

FY 2023: FY 2023 funding increase of \$129.133 million reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

FY 2023 funding request was reduced by \$1.957 million to account for the availability of prior year execution balances.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> D476 / <i>Military Information Support Operations</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
D476: <i>Military Information Support Operations</i>	55.212	3.705	3.168	5.371	-	5.371	5.500	3.434	3.503	3.573	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for the development and acquisition of MISO equipment. The 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)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Fly-Away Broadcast System (FABS)	0.682	0.696	2.836
<b>Description:</b> The FABS is a transit case fly-away broadcast system that uses Government and industry standard technology to disseminate approved messaging to target audiences via Frequency Modulation (FM), Shortwave (SW), cellular Short Message Service (SMS), and Television (TV) transmissions.			
<b>FY 2022 Plans:</b> Continue development of the Next Generation FABS-Broadcast Dissemination Platform (BDP) by integrating key capabilities that enhance MISO broadcast (Short Wave, AM Broadcast, Multi-Mode, Live Streaming and Next Generation Loud Speakers (NGLS)-Scatterable Media Integration) and reduce size, weight, and power (SWAP) through the employment of a Software Defined Radio (SDR).			
<b>FY 2023 Plans:</b> Continues development and commences test and evaluation of the Next Generation FABS-BDP by integrating key capabilities that enhance MISO broadcast (Short Wave, AM Broadcast, Multi-Mode, Live Streaming and NGLS-Scatterable Media Integration) and reduce SWAP through the employment of a SDR.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$2.140 million supports the continued development and the beginning of development/operational test of the Next Generation FABS BDP.			
<b>Title:</b> Next Generation Loud Speakers (NGLS)	1.370	0.885	0.904
<b>Description:</b> The NGLS are portable capabilities that disseminate high quality pre-recorded and live audio messages for global employment by MISO SOF. The NGLS consists of three variants: NGLS Dismounted (NGLS-D), NGLS-Scatterable Media (NGLS-SM), and NGLS-Sonic Projection (NGLS-SP). The NGLS-D is a man-portable capability that is lighter, smaller, and louder			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>than legacy speaker systems with increased resilience and durability. The NGLS--SM is a hand-emplaced or air delivered printed audio-visual device that disseminates delayed or on-cue messages to foreign target audiences. The NGLS-SP is a loudspeaker with a highly focused and narrow beam of sound capable of projecting an audio message to one specific targeted individual while being concealed from personnel in the immediate vicinity.</p> <p><b>FY 2022 Plans:</b> Continue development and evaluation of new systems and components to enhance MISO broadcasts. Complete NGLS-SM Increment 2 and development of Windows-Tactical Assault Kit/Common Operating Picture enhancements. Begin NGLS-SP development.</p> <p><b>FY 2023 Plans:</b> Continues NGLS-D development, test, and evaluation. Continues NGLS-SP development.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.019 million supports accelerated NGLS-SP development.</p>			
<p><b>Title:</b> Media Production Center (MPC)</p> <p><b>Description:</b> The MPC is a family of systems which include multi-media production, editing, and archiving capabilities to deliver imagery, audio, animation, and audio/video products of varying technical complexity to support SOF Psychological Operations Operators.</p> <p><b>FY 2022 Plans:</b> Continue incremental development, test, and evaluation of emerging software applications.</p> <p><b>FY 2023 Plans:</b> Continues incremental development, test, and evaluation of emerging software applications.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.044 million due to costs associated with the test and evaluation of new technologies.</p>	1.653	1.587	1.631
<b>Accomplishments/Planned Programs Subtotals</b>	3.705	3.168	5.371

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC1/0204OTHER: OTHER ITEMS <\$5M	82.776	55.722	98.096	-	98.096	131.156	88.698	93.486	125.880	Continuing	Continuing

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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**Remarks**

None.

**D. Acquisition Strategy**

- The FABS program has an evolutionary acquisition strategy that aligns to the availability of developmental and commercial off-the-shelf technology, Government agencies and commercial sources are leveraged for required certifications, functional and operational tests, and sustainment.
- The NGLS program has an evolutionary acquisition strategy for the legacy NGLS-D and an incremental acquisition strategy for developmental variants NGL-SM and NGLS-SP. Government agencies and commercial sources are leveraged for required certifications, functional and operational tests, and sustainment.
- The MPC program has an incremental acquisition strategy for the development, test, and evaluation of advanced software applications. Government agencies and commercial sources are leveraged for required certifications, functional and operational tests, and sustainment.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Fly Away Broadcast Systems (FABS) - Broadcast Dissemination Platform (BDP)	MIPR	Various : Various	6.101	0.682	Feb 2021	0.696	Nov 2021	2.736	Dec 2022	-		2.736	Continuing	Continuing	-
Next Generation Loud Speakers (NGLS)	Various	Various : Various	1.164	1.370	Feb 2021	0.885	Apr 2022	0.804	Jun 2023	-		0.804	Continuing	Continuing	-
Media Production Center (MPC)	C/Various	Various : Various	-	1.653	Feb 2021	1.487	Jan 2022	1.531	Jan 2023	-		1.531	Continuing	Continuing	-
Prior Year	C/Various	Various : Various	30.929	-		-		-		-		-	0.000	30.929	-
Prior Year - Congressional Add	C/Various	Various : Various	15.409	-		-		-		-		-	0.000	15.409	-
<b>Subtotal</b>			53.603	3.705		3.068		5.071		-		5.071	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
FABS-BDP	MIPR	Various : Various	-	-		-		0.100	Mar 2023	-		0.100	Continuing	Continuing	-
NGLS	MIPR	Various : Various	-	-		-		0.100	Jun 2023	-		0.100	Continuing	Continuing	-
MPC	C/Various	Various : Various	-	-		0.100	Jan 2022	0.100	Jan 2023	-		0.100	Continuing	Continuing	-
Prior Year	Various	Various : Various	1.609	-		-		-		-		-	0.000	1.609	-
<b>Subtotal</b>			1.609	-		0.100		0.300		-		0.300	Continuing	Continuing	N/A

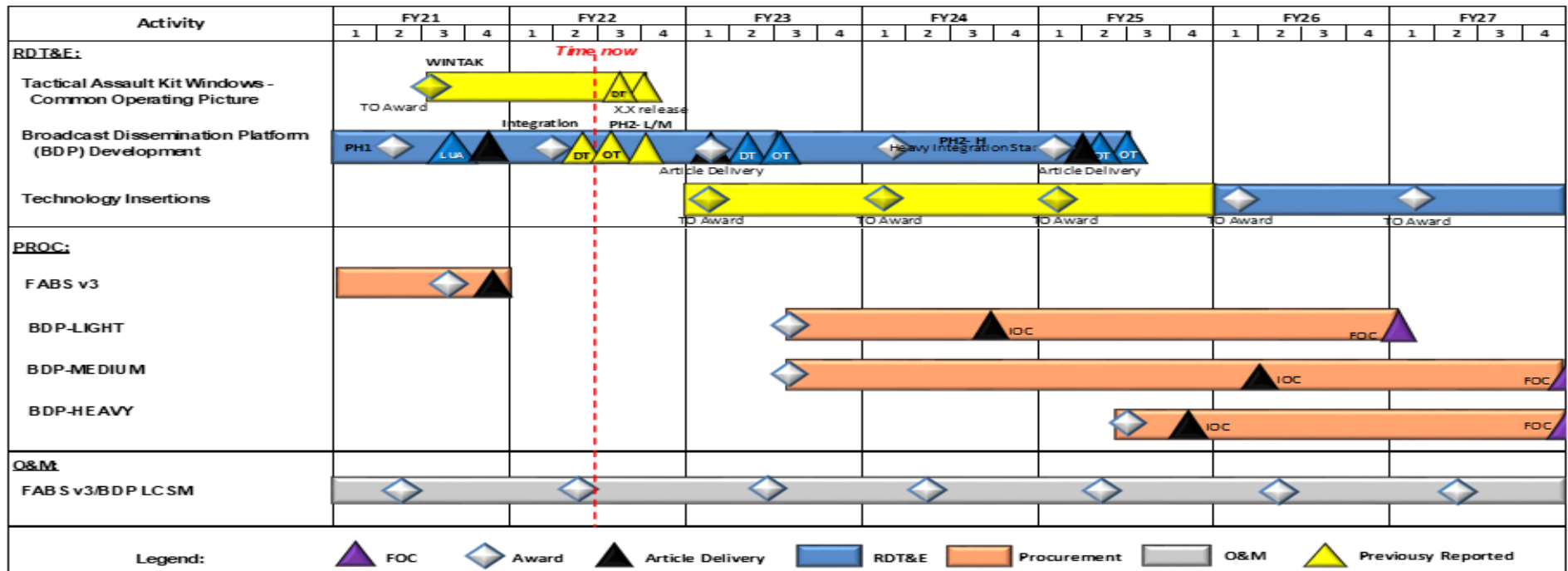
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	55.212	3.705	3.168	5.371	-	5.371	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 United States Special Operations Command</b>		<b>Date: April 2022</b>
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> D476 / <i>Military Information Support Operations</i>

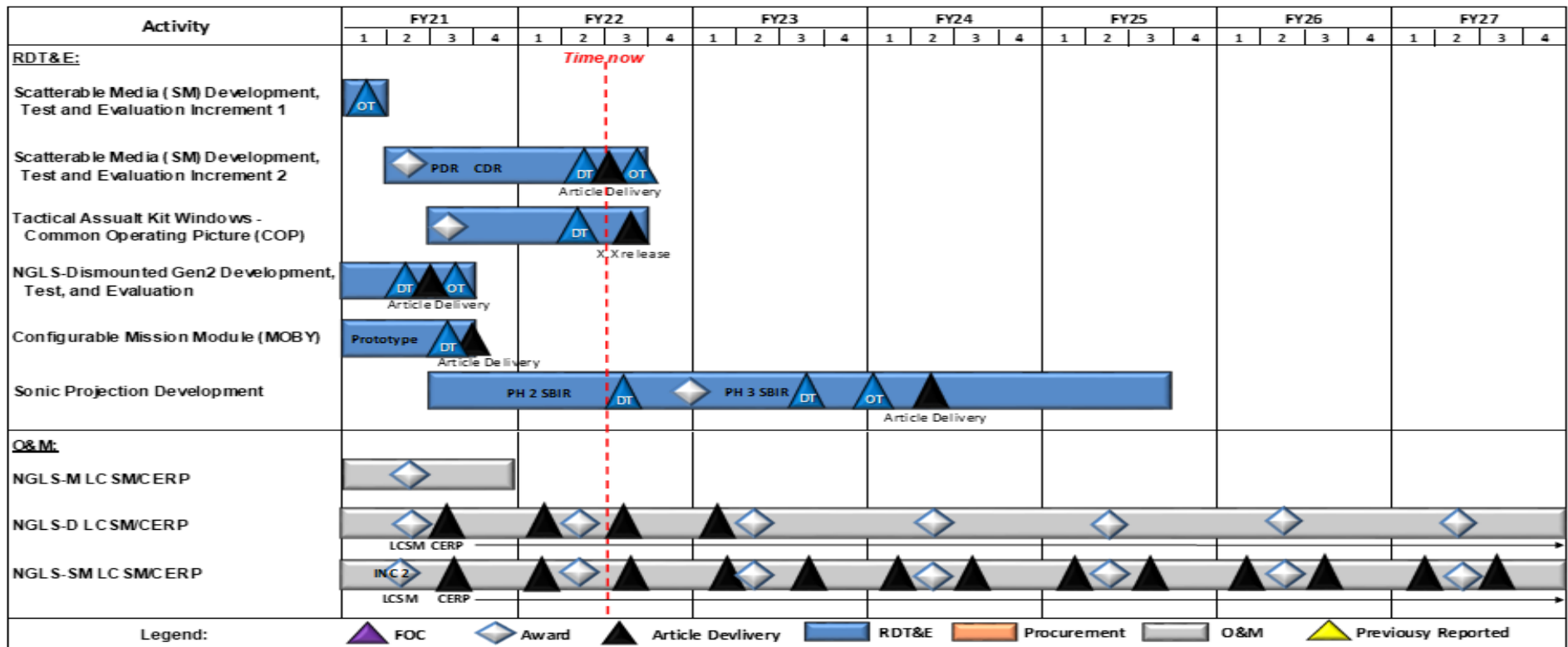
# Fly-Away Broadcast System (FABS) Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> D476 / <i>Military Information Support Operations</i>

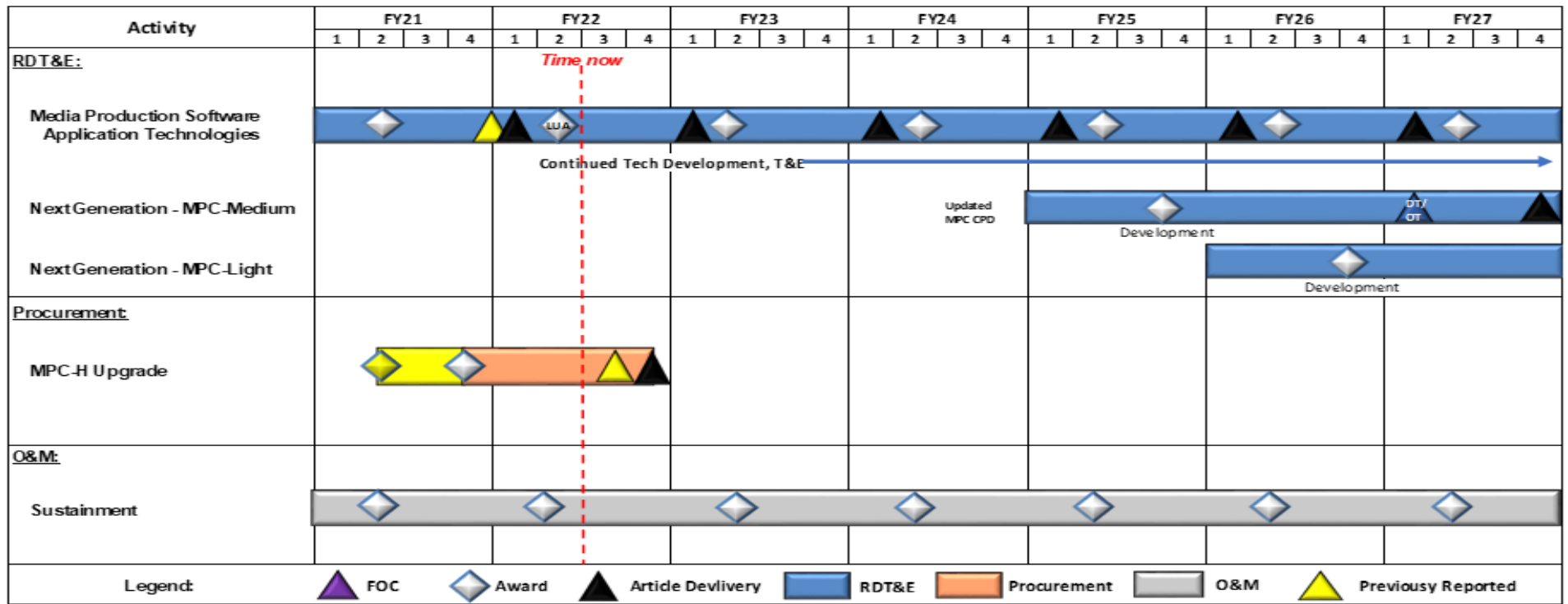
# Next Generation Loudspeaker System (NGLS) Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 United States Special Operations Command</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / Warrior Systems	<b>Project (Number/Name)</b> D476 / Military Information Support Operations

# Media Production Center (MPC) Schedule



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> D476 / <i>Military Information Support Operations</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Fly Away Broadcast Systems (FABS)</i></b>				
FABS - Broadcast Dissemination Platform (BDP) development	1	2021	3	2025
Technology Insertions	1	2026	4	2027
<b><i>Next Generation Loudspeakers (NGLS)</i></b>				
Scatterable Media (SM) Development, Test, and Evaluation Inc 1	1	2021	1	2021
SM Development, Test, and Evaluation Inc 2	2	2021	3	2022
Tactical Assault Kit Windows - Common Operating Picture	3	2021	3	2022
Dismounted GEN 2 Development, Test, and Evaluation	1	2021	3	2021
Configurable Mission Module (MOBY)	1	2021	3	2021
Sonic Projection Development	3	2021	3	2025
<b><i>Media Production Center (MPC)</i></b>				
Media Production Software Technologies	1	2021	4	2027
Next Generation - MPC - Medium	1	2025	4	2027
Next Generation - MPC - Light	1	2026	4	2027

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S375 / <i>Weapons Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
S375: <i>Weapons Systems</i>	7.549	1.646	1.514	1.518	-	1.518	1.592	1.619	1.642	1.675	Continuing	Continuing
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 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 2021	FY 2022	FY 2023
<b>Title:</b> Weapons	1.646	1.514	1.518
<b>Description:</b> The 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 Acquisition (MTA) program which uses the rapid prototyping pathway and is executed using existing contracts, government agencies, and new contract competitively selected as appropriate.			
<b>FY 2022 Plans:</b> Continue 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.			
<b>FY 2023 Plans:</b> Performs safety and qualification testing and engineering change proposals of individual sniper, rifle, suppressors, machine gun weapons to support weapon reliability and performance enhancements.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.004 million is due to a miscellaneous adjustment.			
<b>Accomplishments/Planned Programs Subtotals</b>	1.646	1.514	1.518

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S375 / <i>Weapons Systems</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems &lt;\$5M</i>	338.501	364.378	306.846	-	306.846	291.434	300.604	316.399	324.803	Continuing	Continuing

**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 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S375 / <i>Weapons Systems</i>
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<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Weapon Test & Evaluation	MIPR	Various : Various	7.549	1.646	Jan 2021	1.514	Jan 2022	1.518	Jan 2023	-		1.518	Continuing	Continuing	-
<b>Subtotal</b>			7.549	1.646		1.514		1.518		-		1.518	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			7.549	1.646		1.514		1.518		-		1.518	Continuing	Continuing	N/A

**Remarks**



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**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 United States Special Operations Command **Date:** April 2022

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Weapon Systems</i></b>				
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	2021	4	2027

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S385: <i>Soldier Protection and Survival Systems</i>	45.136	10.437	23.295	16.916	-	16.916	17.091	16.831	17.005	17.335	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project funds the 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; Multi-Mission Electronic Countermeasures (MM-ECM); 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)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p><b>Title:</b> SOF Personal Equipment Advanced Requirements (SPEAR)</p> <p><b>Description:</b> 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.</p> <p><b>FY 2022 Plans:</b> Continue wireless Communications Headset Competition, Safety Belt recompetete, and 66 ft diveable rucksack development, test, and evaluation. Continue environmental protective combat uniforms and ancillaries, materials testing and incorporation into commodity lines, and begin power and data management efforts.</p> <p><b>FY 2023 Plans:</b> Continues power and data management, wireless headsets, environmental protection and material testing.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Decrease of \$0.029 million is due to miscellaneous adjustments.</p>	1.187	2.980	2.951
<p><b>Title:</b> Tactical Combat Casualty Care (TCCC)</p> <p><b>Description:</b> The TCCC program 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 program fields essential lifesaving CASEVAC equipment and capabilities and is a platform to transition capabilities</p>	0.221	0.706	0.693

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>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><b>FY 2022 Plans:</b> Continue 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. Test and evaluation of robust ventilators for improved capability. The FY 2022 plan includes the initiation of the USSOCOM Brain Health RDT&amp;E line in support of the longitudinal tracking of SOF end users' neurocognitive health for treatment and recovery.</p> <p><b>FY 2023 Plans:</b> 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. Develops enhanced software to analyze blast overpressure information, conduct market surveys and test article acquisition, and test and evaluation of emerging neurocognitive assessment.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Decrease of \$0.013 million is due to miscellaneous adjustments.</p>				
<p><b>Title:</b> Multi-Mission Electronic Countermeasures (MM-ECM)</p> <p><b>Description:</b> The Radio Controlled Improvised Explosive Device program name has been updated to MM-ECM to better reflect current operational use cases for ECM equipment across Theater and National Force missions. This is the result of expanded capabilities through system modernization efforts. The USSOCOM uses ground (mounted/dismounted) based jammers to provide ECM capabilities to counter Radio Frequency (RF) controlled devices and cellular threats. This program provides scalable ECM systems whose configuration and modularity address multiple mission critical capabilities 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. The USSOCOM's Countering Weapons of Mass Destruction (CWMD) special mission remains the top hardware and special application module upgrades, USSOCOM 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 multiple SOF missions in competition including force protection, CWMD, and counter-Unmanned Systems (CUxS), while maintaining cost effective Counter Violent Extremist Organization (CVEO) capabilities.</p> <p><b>FY 2022 Plans:</b></p>		1.573	4.004	7.398

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>Continue test support to the MM-ECM 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 systems capability to include advanced software technique countermeasures and loadsets for mounted and dismounted systems. Initiate Next Generation ECM development.</p> <p><b>FY 2023 Plans:</b> Continues test support to the MM-ECM program. Continues system engineering, test and evaluation, test article acquisition, prototyping and development of Next Generation ECM. Continues development and testing of ECM systems capability to include advanced software technique countermeasures and loadsets for mounted and dismounted systems. Efforts target range effectiveness and currency, ensuring the ability to accurately test against current and emerging threat systems from state and non-state actors.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$3.394 million supports a MTA Rapid Prototyping effort for Next Generation ECM capability including hardware and software design, system development, testing, and generating advanced software techniques. Next Generation ECM capabilities and techniques are designed to counter emerging threats including 5G cellular and wireless protocols in support of NDS priorities.</p>				
<p><b>Title:</b> Counter Unmanned Aerial System (C-UAS)</p> <p><b>Description:</b> 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, RF detection and defeat, other passive detection, radar, and electro-optical and infrared (EO/IR).</p> <p><b>FY 2022 Plans:</b> Continue 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><b>FY 2023 Plans:</b> Continues test and evaluation of sensor and effector capabilities of mounted, dismounted, and expeditionary fixed-site form factors to address emerging threats with a SIP. Completes initial fielding and deployment release testing of proven capabilities for entry into program of record.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Decrease of \$1.067 million is due to portfolio transition into a program, with acquisition strategy of a SIP.</p>		5.796	5.195	4.128
<p><b>Title:</b> Personal Signature Management (PSM)</p>		1.660	1.740	1.746

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p><b>Description:</b> The 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><b>FY 2022 Plans:</b> Continue fielding of signature reducing material solution and training. Initiate baseline testing against advanced threat sensors and continue development of threat sensor detector. 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><b>FY 2023 Plans:</b> Continues baseline testing against advanced threat sensors, development of threat sensor detector, and initiates development of next generation signature reducing material solution and training.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.006 million is due to miscellaneous adjustments.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	10.437	14.625	16.916

	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Congressional Add:</b> C-UAS</p> <p><b>FY 2022 Plans:</b> Conduct Concept of Operations (CONOP) package optimization of Expeditionary Fixed Site configurations for new integrations via the SIP.</p>	-	8.670
<b>Congressional Adds Subtotals</b>	-	8.670

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems &lt;\$5M</i>	338.501	364.378	306.846	-	306.846	291.434	300.604	316.399	324.803	Continuing	Continuing

**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, small business set asides, and prime vendor style multiple awards.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>
<p>TCCC: Operator &amp; 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 (SOFSA) for warehousing and sustainment. The CASEVAC Set program managed by PM - SOF SSES uses an IDIQ Commercial-Off-The-Shelf (COTS) prime integrator contract.</p> <p>MM-ECM: The USSOCOM collaborates with the DoD ECM managers and other government agencies in order to maintain Joint Force compatibility and improve program affordability. All next generation ECM development is designed to support SOF missions in integrated deterrence, while maintaining cost effective CVEO capabilities. The ECM are employed across multiple missions including force protection, support to C-UAS, Explosive Ordnance Detection, and Render Safe Electronics. Centralized life cycle sustainment of SOF ECM inventory supports Theater Special Operations Command operational demand as Theater Provided Equipment (TPE), Component CONUS home station training, and rapid deployment requirements. The SOF ECM collaborates with the Joint Services, Academia, and other government agencies to maintain interoperability and cost effectiveness. The SOF ECM will continue to leverage the SOF-to-Service transition of proven capabilities.</p> <p>C-UAS: The 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, 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 require an increased level of autonomy, lower size, weight, and power (SWaP), and limited signature solutions. In FY 2021, C-UAS transitioned 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 types through full and open competition across the SOCOM focus areas. The 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. The SOF will continue to leverage the SOF-to-Service transition of proven capabilities where possible.</p> <p>PSM: Signature reducing technologies will be embedded into hardware or SOF clothing and equipment via modified commercial-off-the-shelf variants. Contracts in support of fielding/sustainment of any material solution 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. The PSM program will utilize SOFSA for warehousing and sustainment.</p>		

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S385 / Soldier Protection and Survival Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOF Personal Equipment Advanced Requirements (SPEAR) - Protective Combat Uniform (PCU)	Various	PM-SSES : Natick, MA	0.706	0.375	Jan 2021	0.409	Jan 2022	0.411	Jan 2023	-		0.411	Continuing	Continuing	-
SPEAR - Hearing Protection and Communications Headsets	Various	PM-SSES : Natick, MA	1.386	0.290	Jan 2021	0.300	Jan 2022	0.300	Jan 2023	-		0.300	Continuing	Continuing	-
SPEAR Modular Glove System (MGS)	Various	PM-SSES : Natick, MA	0.055	0.030	Jan 2021	0.030	Jan 2022	0.030	Jan 2023	-		0.030	Continuing	Continuing	-
SPEAR - Load Carriage System (LCS) and Backpacks	Various	PM-SSES : Natick, MA	0.107	0.090	Mar 2021	0.100	Mar 2022	0.100	Mar 2023	-		0.100	Continuing	Continuing	-
SPEAR - Power and Data Management	Various	PM-SSES : Natick, MA	-	-		0.750	Apr 2022	0.719	Apr 2023	-		0.719	Continuing	Continuing	-
Multi-Mission Electronic Countermeasures (MM-ECM) - Next Generation Capability Development	C/Various	Various : Various	-	-		2.327	Jun 2022	5.549	Jun 2023	-		5.549	Continuing	Continuing	-
Counter Unmanned Aerial System (C-UAS) Emerging Threat /Advanced Technology Development (Systems Integration Partner)	C/Various	Various : Various	2.551	-		3.689	Mar 2022	2.661	Jun 2023	-		2.661	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	-
C-UAS Emerging Threat / Advanced Technology Development (Systems Integration Partner) Congressional Add	C/Various	Various : Various	-	-		6.069	Jul 2022	-		-		-	0.000	6.069	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S385 / Soldier Protection and Survival Systems</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Personal Signature Management (PSM) Development (Inc II and III)	Various	Various : Various	1.546	0.830	Mar 2021	1.040	Mar 2022	0.675	Mar 2023	-		0.675	Continuing	Continuing	-
Rotary Wing Aviation Helmet Congressional Add	C/Variou	PM-SSES : Natick, MA	1.500	-		-		-		-		-	0.000	1.500	-
Prior Years	Various	Various : Various	1.656	-		-		-		-		-	0.000	1.656	-
Prior Years - Overseas Contingency Operations (OCO)	Various	Various : Various	7.293	-		-		-		-		-	0.000	7.293	-
<b>Subtotal</b>			16.800	5.142		14.714		10.445		-		10.445	Continuing	Continuing	N/A

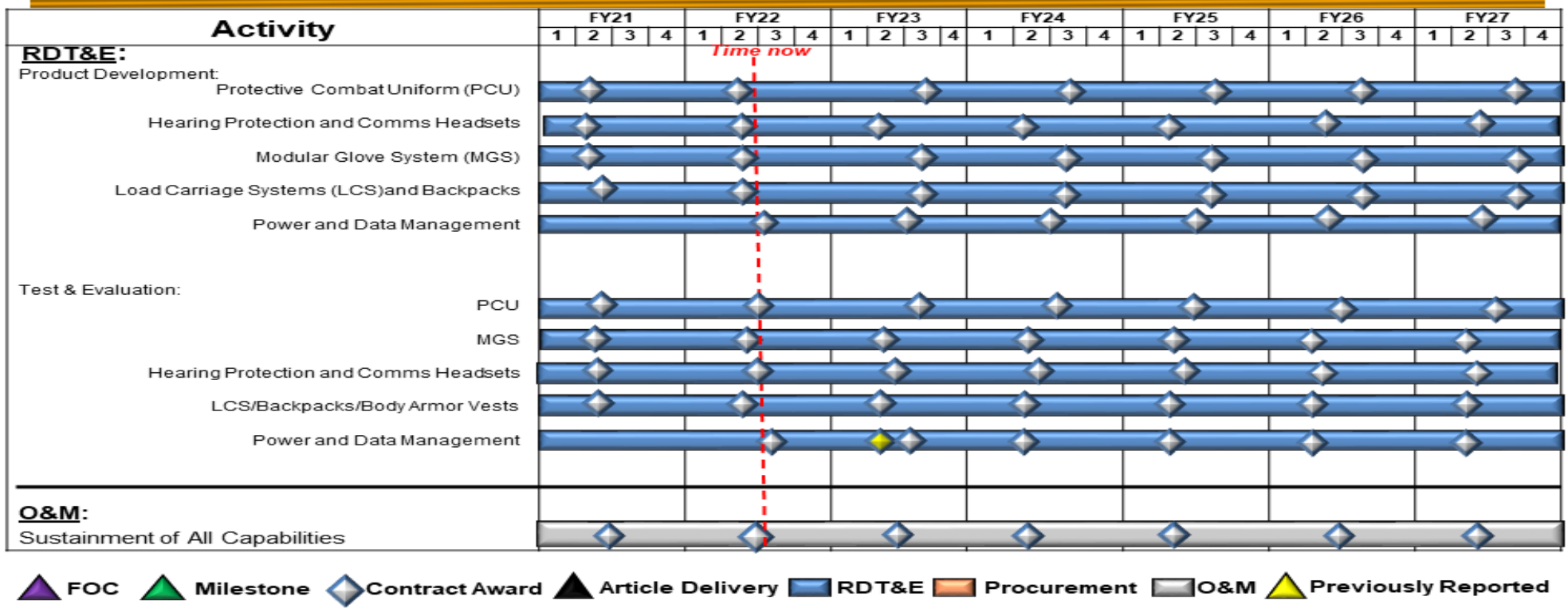
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
SPEAR - PCU testing/ Pre-Planned Product Improvement	Various	PM-SSES : Natick, MA	0.605	0.100	Mar 2021	0.100	Mar 2022	0.100	Mar 2023	-		0.100	Continuing	Continuing	-
SPEAR - MGS Test and Evaluation	Various	PM-SSES : Natick, MA	0.109	0.045	Jan 2021	0.045	Jan 2022	0.045	Jan 2023	-		0.045	Continuing	Continuing	-
SPEAR - Hearing Protection and Comms Headset Test & Evaluation	Various	PM-SSES : Natick, MA	1.936	0.162	Jan 2021	0.162	Jan 2022	0.162	Jan 2023	-		0.162	Continuing	Continuing	-
SPEAR - LCS/Body Armor Vest/Backpack Material and Prototype Test and Evaluation	Various	PM-SSES : Natick, MA	0.165	0.095	Feb 2021	0.095	Feb 2022	0.095	Feb 2023	-		0.095	Continuing	Continuing	-
SPEAR - Power and Data Management	Various	PM-SSES : Natick, MA	-	-		0.989	Apr 2022	0.989	Apr 2023	-		0.989	Continuing	Continuing	-
Tactical Combat Casualty Care (TCCC) CASEVAC Sets Development, Test and Evaluation	Various	PM-SSES : Natick, MA	1.970	0.221	Jan 2021	0.209	Jan 2022	0.205	Jan 2023	-		0.205	Continuing	Continuing	-



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / Warrior Systems	<b>Project (Number/Name)</b> S385 / Soldier Protection and Survival Systems

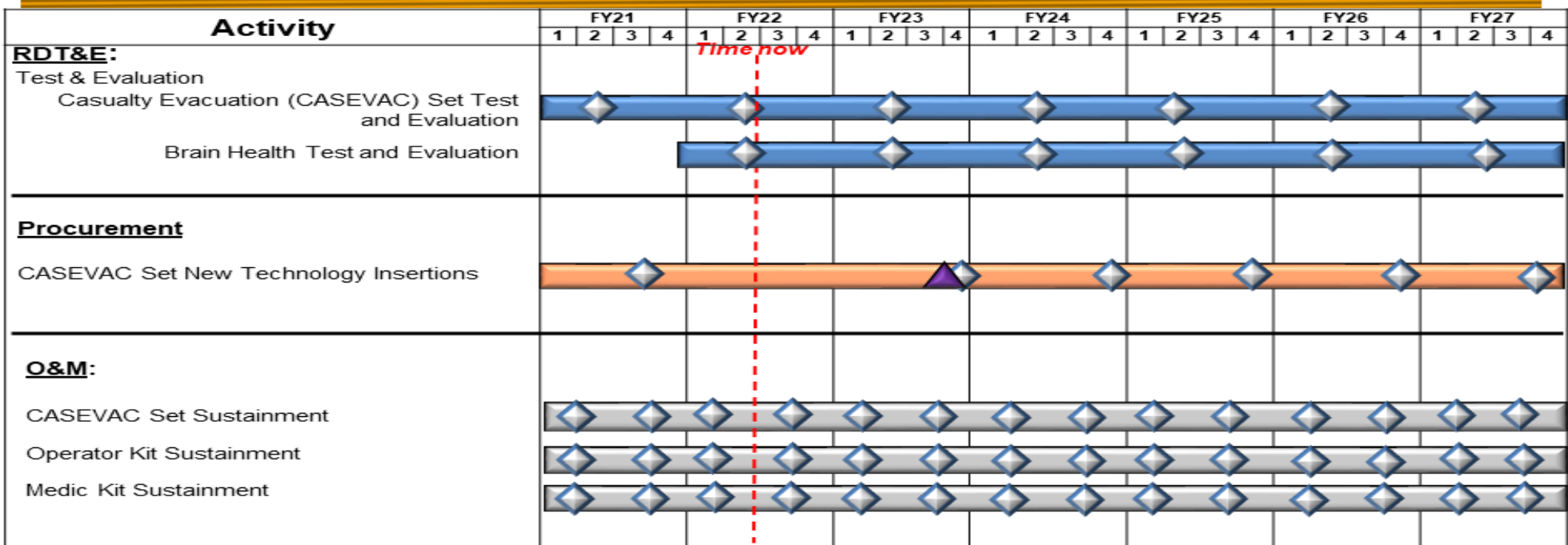
## Special Operations Forces Personal Equipment Advanced Requirements (SPEAR) Schedule



**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / Warrior Systems	<b>Project (Number/Name)</b> S385 / Soldier Protection and Survival Systems

## Tactical Combat Casualty Care (TCCC) Schedule

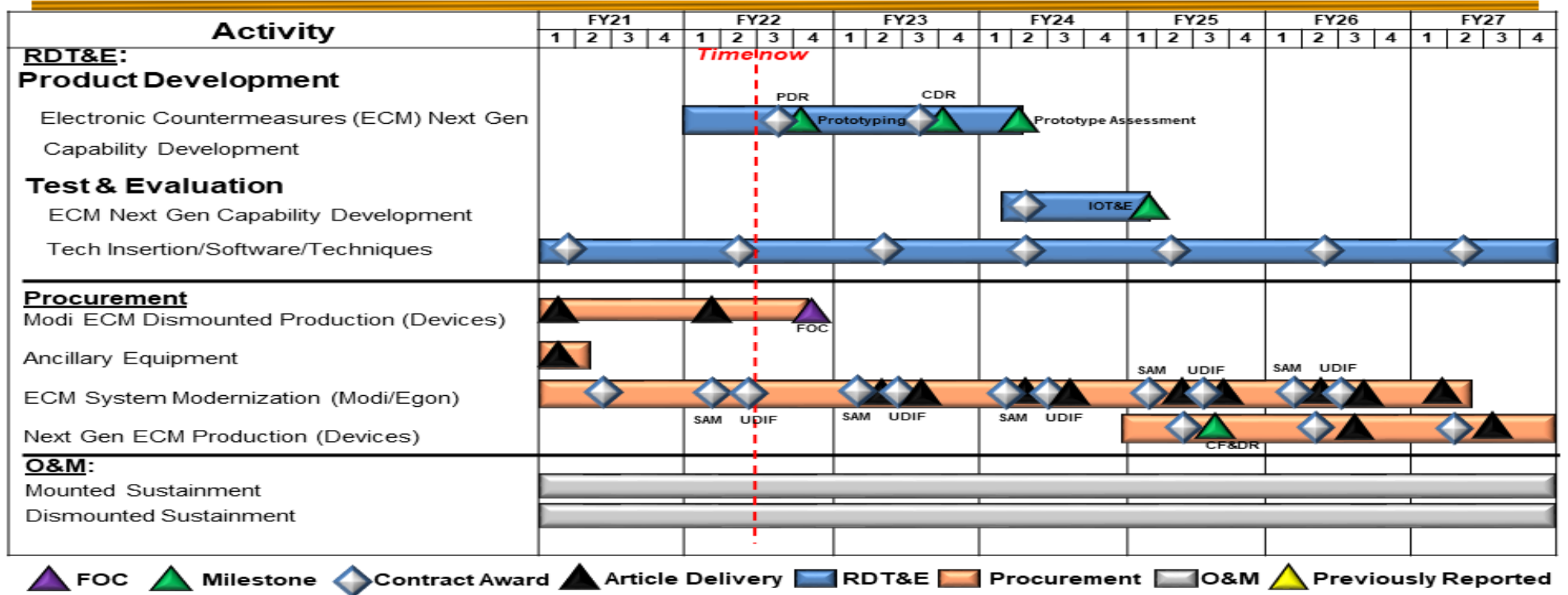


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 ■ Procurement   
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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

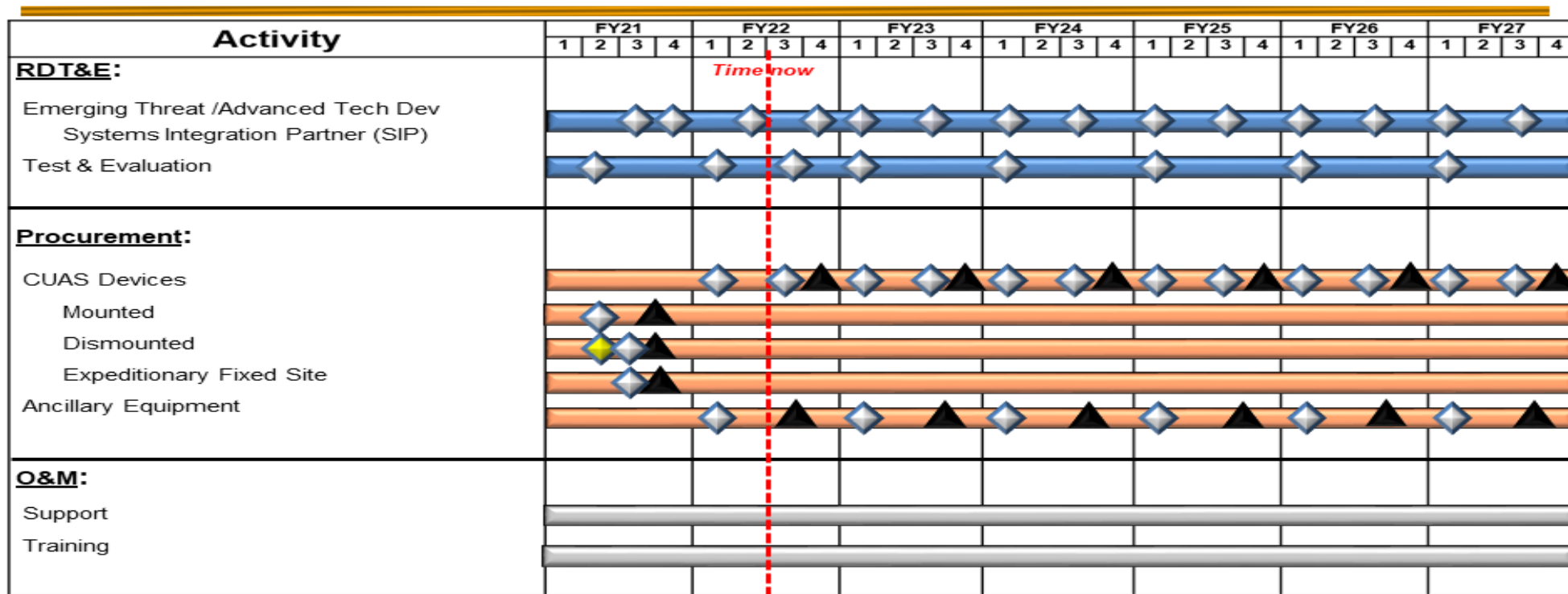
## Multi-Mission Electronic Countermeasures (MM-ECM) Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>

## Counter Unmanned Aerial Systems Schedule

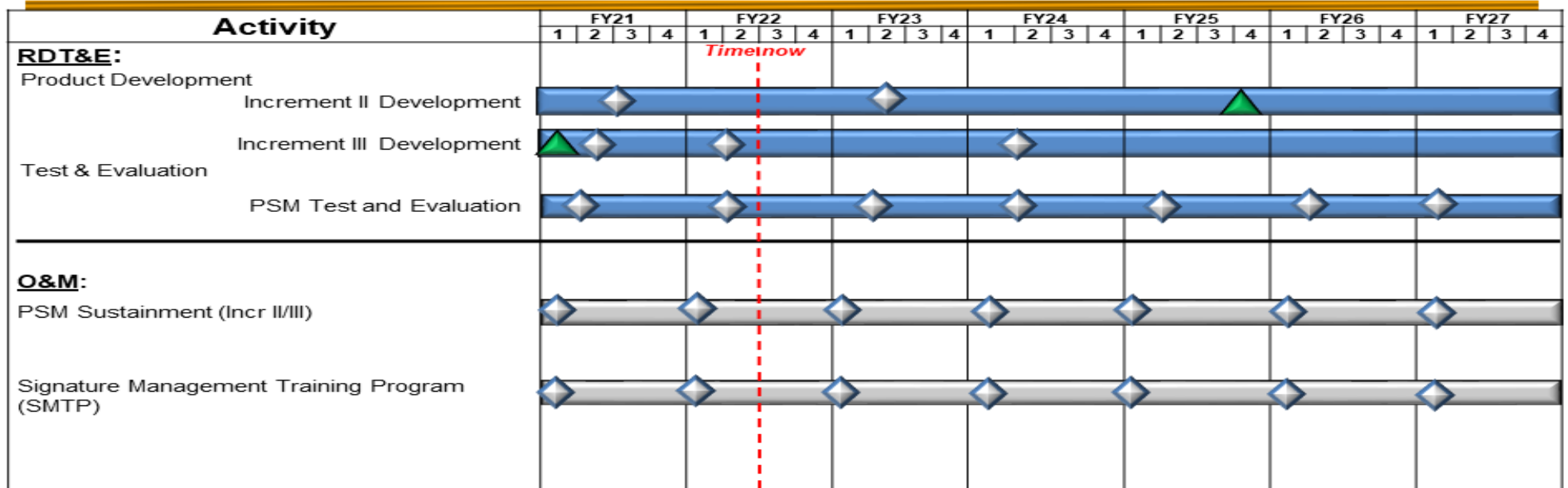


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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>

## Personal Signature Management (PSM) Schedule



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 ▲ Article Delivery   
  RDT&E   
  Procurement   
  O&M   
  Previously Reported

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Soldier Protection and Survival Systems (SPEAR)</i></b>				
Protective Combat Uniform (PCU) Product Development	1	2021	4	2027
Hearing Protection & Comms Headsets Product Development	1	2021	4	2027
Modular Glove System (MGS) Product Development	1	2021	4	2027
Load Carriage System (LCS) and Backpacks Product Development	1	2021	4	2027
Power and Data Management Product Development	1	2021	4	2027
PCU Test & Evaluation	1	2021	4	2027
MGS Test & Evaluation	1	2021	4	2027
Hearing Protection & Comms Headsets Test & Evaluation	1	2021	4	2027
LCS/Backpack/Body Armor Vest Test & Evaluation	1	2021	4	2027
Power and Data Management Test & Evaluation	1	2021	4	2027
<b><i>Tactical Combat Casualty Care (TCCC)</i></b>				
TCCC Casualty Evacuation (CASEVAC) Sets Development, Test & Evaluation	1	2021	4	2027
TCCC Brain Health Test and Evaluation	4	2021	4	2027
<b><i>Multi-Mission Electronic Countermeasures (MM-ECM)</i></b>				
Next Generation Electronic Countermeasures (ECM) Capability Development (Product Development)	1	2022	2	2024
Next Generation ECM Capability Development (Test & Evaluation Support)	1	2024	1	2025
Technology Insertion/Software/Techniques (Test & Evaluation Support)	1	2021	4	2027
<b><i>Counter Unmanned Aerial System (C-UAS)</i></b>				
C-UAS Emerging Threat /Advanced Technology Development (Systems Integration Partner)	1	2021	4	2027
C-UAS Test and Evaluation Support	1	2021	4	2027

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Personnel Signature Management (PSM)</i></b>				
PSM Development (Incr II)	1	2021	4	2027
PSM Development (Incr III)	1	2021	4	2027
PSM Test & Evaluation	1	2021	4	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S385A: <i>Body Armor and Associated Equipment</i>	9.596	1.674	1.684	1.688	-	1.688	1.773	1.800	1.825	1.862	Continuing	Continuing
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)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> SOF Personal Equipment Advanced Requirement (SPEAR)-Ballistic Protection	1.674	1.684	1.688
<b>Description:</b> 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.			
<b>FY 2022 Plans:</b> 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 and rotary wing helmet.			
<b>FY 2023 Plans:</b> 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 (ground, maritime, rotary wing) 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.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.004 million is due to miscellaneous adjustments.			
<b>Accomplishments/Planned Programs Subtotals</b>	1.674	1.684	1.688

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command			<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>	

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2023</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems &lt;\$5M</i>	338.501	364.378	306.846	-	306.846	291.434	300.604	316.399	324.803	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The SPEAR ballistic protection equipment takes advantage of modified commercial-off-the-shelf (COTS) or non-developmental items. As USSOCOM requires tailored solutions for SOF Mission sets, SPEAR items leveraged from industry are often on the cutting edge of technology with modifications specific for SOF missions and require substantial testing in SOF environments. Using SOFSA for warehousing and sustainment, 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 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOF Personal Equipment Advanced Requirement (SPEAR) - Body Armor	Various	PM-SSES : Natick, MA	3.037	0.377	Feb 2021	0.556	Feb 2022	0.325	Apr 2023	-		0.325	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmets	Various	PM-SSES : Natick, MA	2.096	0.368	Jan 2021	0.390	Feb 2022	0.625	May 2023	-		0.625	Continuing	Continuing	-
SPEAR - Eye Protection	Various	PM-SSES : Natick, MA	0.357	0.100	Mar 2021	0.060	Mar 2022	0.173	Jun 2023	-		0.173	Continuing	Continuing	-
<b>Subtotal</b>			5.490	0.845		1.006		1.123		-		1.123	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SPEAR - Body Armor	Various	PM-SSES : Natick, MA	2.212	0.367	Apr 2021	0.378	Jun 2022	0.150	May 2023	-		0.150	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmet	Various	PM-SSES : Natick, MA	1.637	0.367	Apr 2021	0.260	Jun 2022	0.350	Jun 2023	-		0.350	Continuing	Continuing	-
SPEAR - Transparent Armor	Various	PM-SSES : Natick, MA	0.257	0.095	Mar 2021	0.040	Mar 2022	0.065	Jul 2023	-		0.065	Continuing	Continuing	-
<b>Subtotal</b>			4.106	0.829		0.678		0.565		-		0.565	Continuing	Continuing	N/A

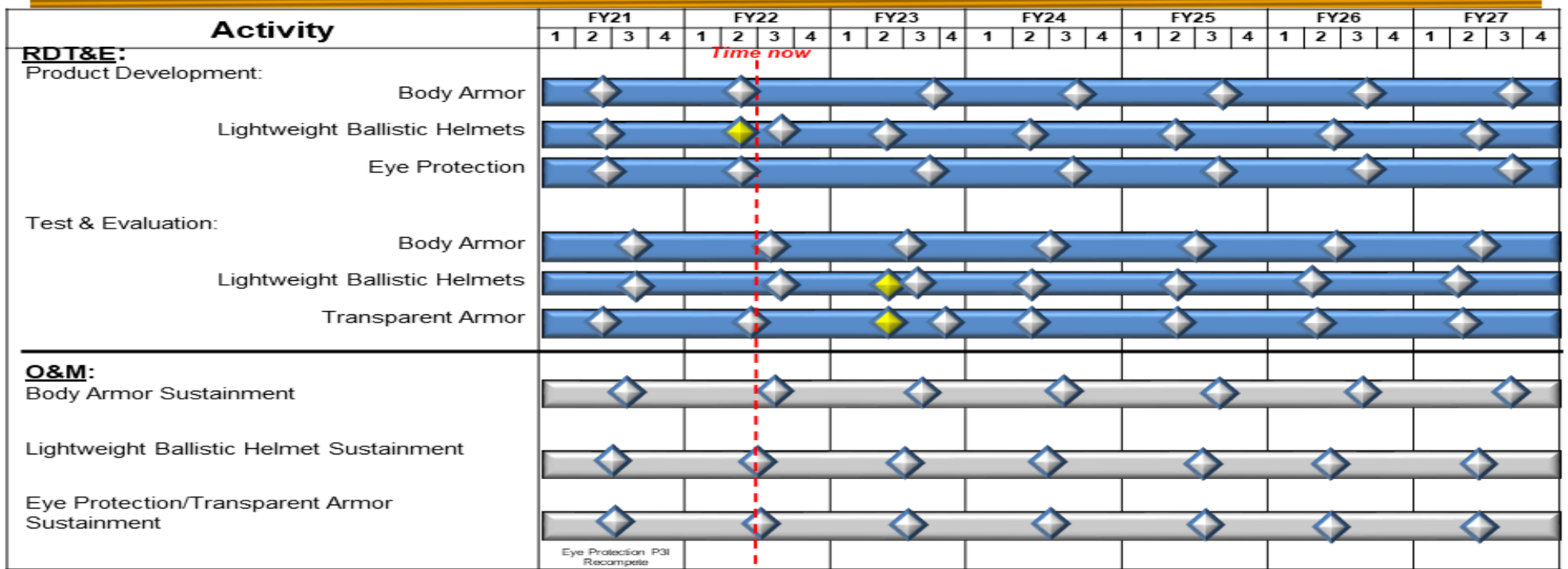
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		9.596	1.674	1.684	1.688	1.688	-	1.688	Continuing Continuing N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>

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



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 ▲ Article Delivery   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ▲ Previously Reported

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>SOF Personal Equipment Advanced Requirement (SPEAR)-Ballistic Protection</i></b>				
Body Armor Product Development	1	2021	4	2027
Lightweight Ballistic Helmets Product Development	1	2021	4	2027
Eye Protection Product Development	1	2021	4	2027
Body Armor Test & Evaluation	1	2021	4	2027
Lightweight Ballistic Helmets Test & Evaluation	1	2021	4	2027
Transparent Armor Test & Evaluation	1	2021	4	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	16.812	2.092	5.047	4.990	-	4.990	5.152	5.188	5.198	5.301	Continuing	Continuing
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 (HEO) will remain technologically superior to enemy threats and ensure mission success.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Visual Augmentation Systems (VAS)	2.092	5.047	4.990
<p><b>Description:</b> 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 HEO.</p> <p><b>FY 2022 Plans:</b> 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. Initiate transition of an integrated head-mounted sensor and augmented reality display providing threat detection from the Joint Acquisition Task Force (JATF) to USSOCOM and the HEO program. Real-time shared imaging and sensor discovery with distributed algorithm processing of a common operating picture.</p> <p><b>FY 2023 Plans:</b> Continues development and testing of visual augmentation systems, laser devices, and simulators to improve situational awareness, sharing of data/images, target acquisition, and training. Continues System Integration/HEO development to include integrated head-mounted sensors and augmented reality displays providing enhanced threat detection. Real-time, shared imaging and sensor discovery with distributed algorithm processing for a common operating picture. Ability to significantly increase the speed and effectiveness of our operators through SOF expeditionary equipment and networks to provide the force with more lethal and decisive effects.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b></p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Decrease of \$0.057 million is due to a miscellaneous adjustment.			
<b>Accomplishments/Planned Programs Subtotals</b>	2.092	5.047	4.990

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

<b>Line Item</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/0204WARRIOR: <i>Warrior Systems&lt;\$5M</i>	338.501	364.378	306.846	-	306.846	291.434	300.604	316.399	324.803	Continuing	Continuing

**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 FFP, IDIQ and small business set asides at several locations, 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 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Visual Augmentation Systems (VAS) Product Development (Laser and Optic)	C/CPFF	USSOCOM : Tampa, FL	10.448	0.921	Apr 2021	4.367	Mar 2022	4.339	Jan 2023	-		4.339	Continuing	Continuing	-
VAS Product Development (Simulator)	C/CPFF	USSOCOM : Tampa, FL	1.492	0.481	Apr 2021	0.480	Apr 2022	0.481	Feb 2023	-		0.481	Continuing	Continuing	-
Prior Year	C/CPFF	USSOCOM : Tampa, FL	1.500	-		-		-		-		-	0.000	1.500	-
Prior Year Overseas Contingency Operations (OCO)	C/CPFF	USSOCOM : Tampa, FL	2.667	-		-		-		-		-	0.000	2.667	-
<b>Subtotal</b>			16.107	1.402		4.847		4.820		-		4.820	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
VAS Test and Evaluation	C/CPFF	USSOCOM : Tampa, FL	0.495	-		-		-		-		-	0.000	0.495	-
VAS Laser Test and Evaluation	C/CPFF	USSOCOM : Tampa FL	0.105	0.345	Apr 2021	0.100	Sep 2022	0.085	Aug 2023	-		0.085	Continuing	Continuing	-
VAS Optic Test and Evaluation	C/CPFF	USSOCOM : Tampa FL	0.105	0.345	Apr 2021	0.100	Sep 2022	0.085	Aug 2023	-		0.085	Continuing	Continuing	-
<b>Subtotal</b>			0.705	0.690		0.200		0.170		-		0.170	Continuing	Continuing	N/A

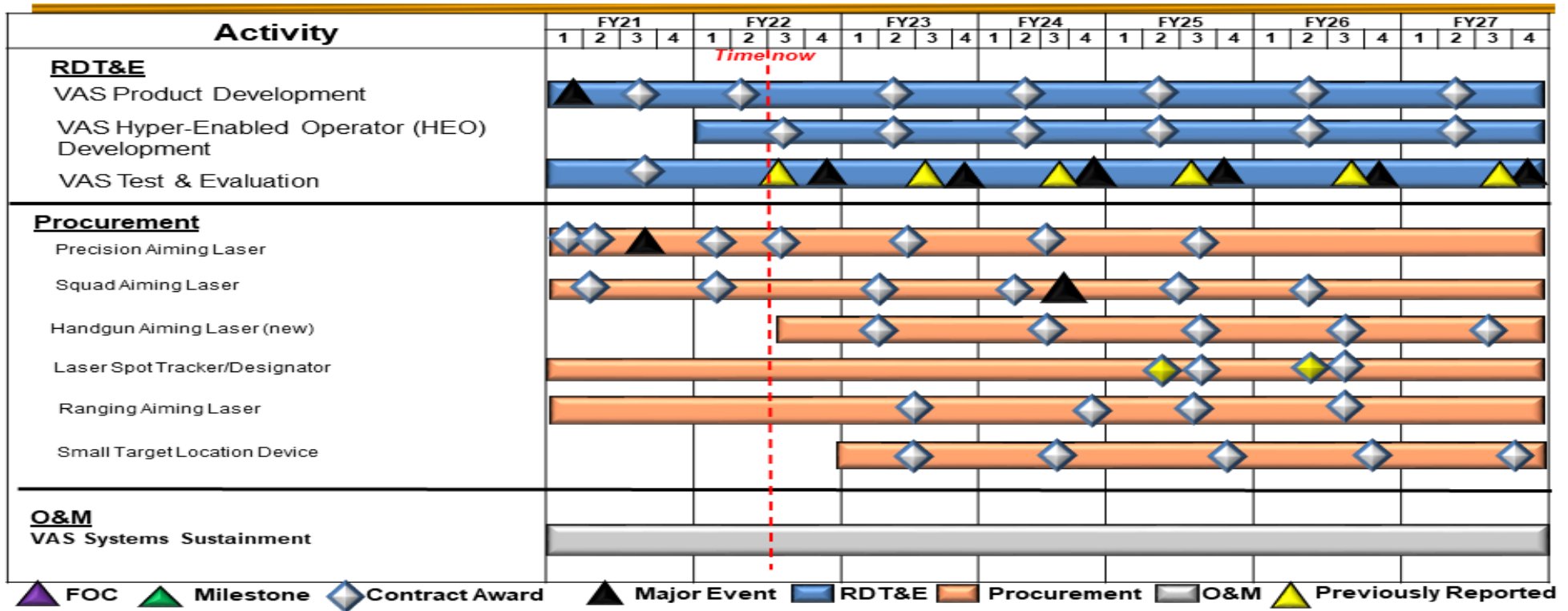
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		16.812	2.092	5.047	4.990	-	4.990	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

# Visual Augmentation Systems Laser Schedule

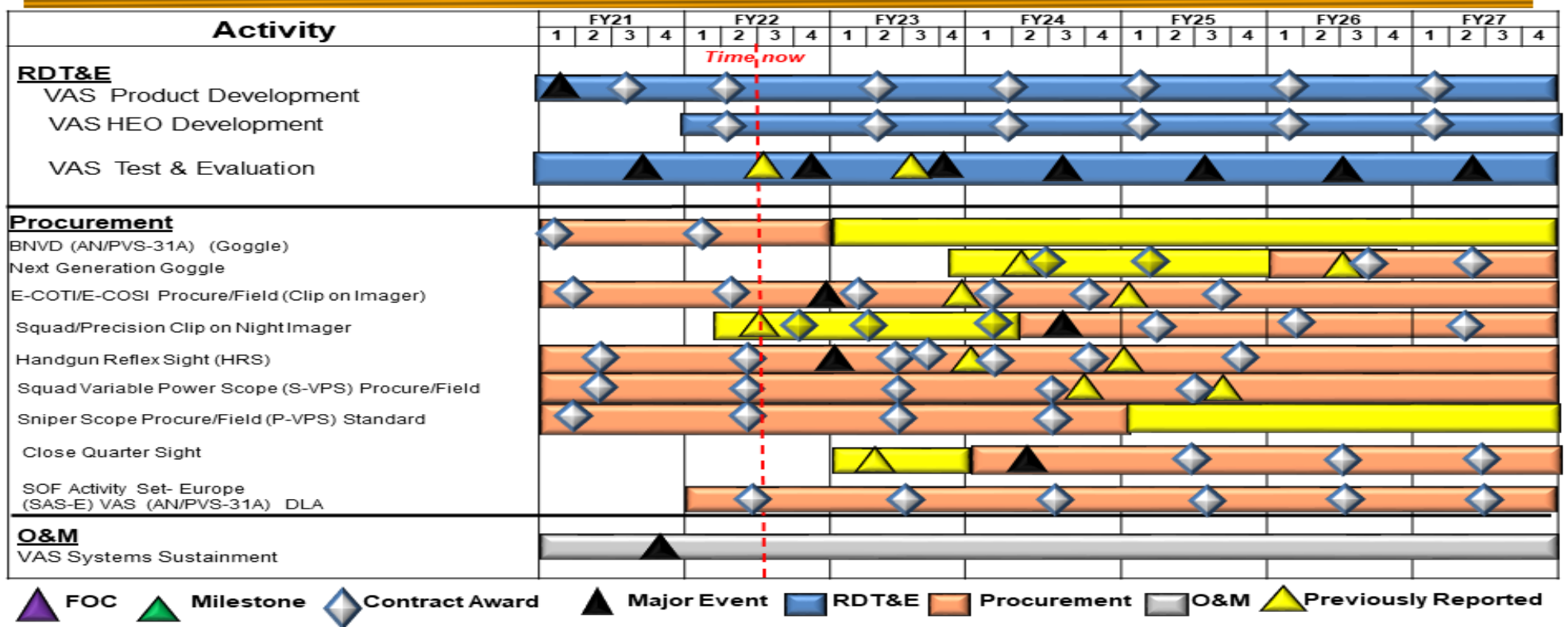


Appropriation/Budget Activity  
0400 / 7

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

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

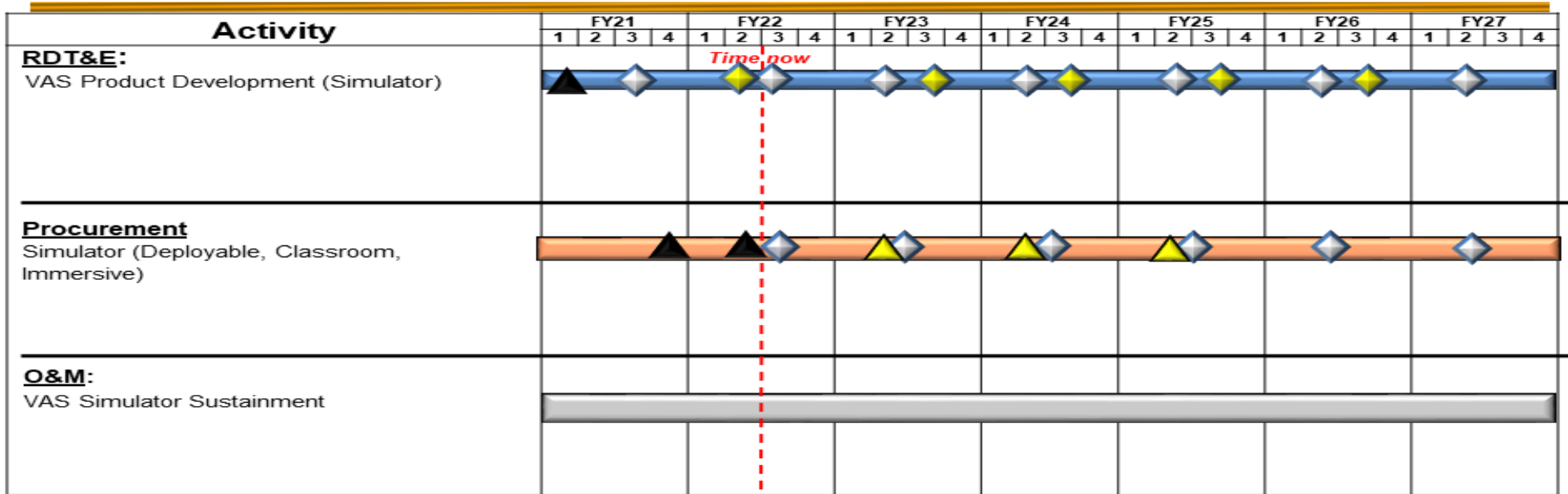
# Visual Augmentation Systems Optic Schedule



**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

## Visual Augmentation Systems Simulator Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Visual Augmentation Systems (VAS) Laser</i></b>				
Product Development	1	2021	4	2027
Hyper-Enabled Operator Development (HEO)	1	2022	4	2027
Test & Evaluation	1	2021	4	2027
<b><i>VAS Optic</i></b>				
Product Development	1	2021	4	2027
Hyper-Enabled Operator Development (HEO)	1	2022	4	2027
Test & Evaluation	1	2021	4	2027
<b><i>VAS Simulator</i></b>				
Product Development	1	2021	4	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S700: <i>Communications Equipment and Electronics Systems</i>	60.999	28.356	21.456	48.665	-	48.665	49.902	24.013	16.204	23.070	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for communication systems to meet emergent requirements to support 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.

The USSOCOM 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)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Satellite Deployable Node (SDN)	13.151	5.634	3.825
<b>Description:</b> The 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.			
<b>FY 2022 Plans:</b> Continue assessments, tests, and evaluations for wide-band Communication-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.			
<b>FY 2023 Plans:</b> 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.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Decrease of \$1.809 million supports a deliberate approach to reinvest in modernization and advance the transition of special operations capabilities to support integrated deterrence and implement the Joint Warfighting Concept.				
<p><b>Title:</b> Special Communications (SPCOM) Enterprise program</p> <p><b>Description:</b> The SPCOM Enterprise 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><b>FY 2022 Plans:</b> 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><b>FY 2023 Plans:</b> Continues segment development for the SPCOM enterprise; includes field set and waveform development with a focus on supporting operations in highly contested and/or denied environments for the SPCOM enterprise. Continues development of anti-intrusion/anti-tamper capabilities to reduce signature and protect in the event of a compromise. Continues tailoring extensive vulnerability assessments plus independent verification and validation to mimic nation state level threats. Acquisition efforts are structured to support rapid, tailored development to counter adaptable emerging threats targeting active and/or planned operations in all theaters of SOF sensitive missions.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$1.181 million supports development of enhanced processing for special communications satellite devices.</p>		10.793	11.220	12.401
<p><b>Title:</b> Mission Command System/Common Operational Picture (MCS/COP)</p> <p><b>Description:</b> The MCS/COP provides shared situational awareness for SOF 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><b>FY 2022 Plans:</b> Continue rapid prototyping, product development, and operational testing and evaluation based upon dynamic and emergent operational requirements.</p> <p><b>FY 2023 Plans:</b></p>		4.412	4.602	32.439

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Continues and greatly expands the range of prototype and product development software solutions under a modular open systems architecture. Continues operational testing and evaluation based on dynamic and emergent operational requirements.  <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$27.837 million enables rapid development of Mission Command capabilities focused on modernization in support of Command Joint All-Domain Command & Control (JADC2) requirements for DoD interoperability and SOF support to integrated deterrence. This includes development of artificial intelligence/machine learning algorithms, a SOF unified data layer, advanced data analytics and Denied – Disconnected, Intermittent, Limited (D-DIL) hardware and software capabilities.			
<b>Accomplishments/Planned Programs Subtotals</b>	28.356	21.456	48.665

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/0204WARRIOR: <i>Warrior Systems &lt;\$5M</i>	338.501	364.378	306.846	-	306.846	291.434	300.604	316.399	324.803	Continuing	Continuing
• PROC/0204OTHER: <i>OTHER ITEMS &lt;\$5M</i>	82.776	55.722	98.096	-	98.096	131.156	88.698	93.486	125.880	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The 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.

The 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.

The MCS/COP program employs the software acquisition pathway to facilitate rapid and iterative delivery of operational software to meet dynamic SOF requirements. The MCS/COP implements a modular open systems architecture that leverages commercial and government sources to quickly deploy evolving technologies for decision support such as artificial intelligence, three dimensional (3D) virtual reality, and computer vision for advanced fusion and battlespace visualization.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S700 / Communications Equipment and Electronics Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Satellite Deployable Node (SDN) Development	Various	Various : Various	17.740	6.576	Jan 2021	1.125	Dec 2021	2.375	Feb 2023	-		2.375	Continuing	Continuing	-
Special Communications (SPCOM) Enterprise Capability Development	C/Various	Various : Various	21.443	8.996	Mar 2021	9.220	May 2022	10.501	May 2023	-		10.501	Continuing	Continuing	-
SPCOM Technology Vulnerability Assessments	MIPR	MITRE : Bedford, MA	4.254	1.424	Dec 2020	1.600	Apr 2022	1.400	Dec 2022	-		1.400	Continuing	Continuing	-
Mission Command System Common Operational Picture (MCS/COP) Prototype and Product Development	C/Various	Various : Various	-	2.292	Apr 2021	3.500	Mar 2022	10.000	Mar 2023	-		10.000	Continuing	Continuing	-
MCS/COP Modular Open Systems Architecture	C/Various	CAE : Various	-	-		-		8.039	Mar 2023	-		8.039	Continuing	Continuing	-
MCS/COP Artificial Intelligence Analytics	C/FFP	BlackCape : Various	-	-		-		6.000	Jun 2023	-		6.000	Continuing	Continuing	-
MCS/COP Unified Data Layer	MIPR	BlueStaq : Various	-	-		-		6.000	Mar 2023	-		6.000	Continuing	Continuing	-
Prior Year Funding - Base	C/Various	Various : Various	1.788	-		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			45.225	19.288		15.445		44.315		-		44.315	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SDN Evaluation and Testing	Various	Various : Various	13.789	6.575	Feb 2021	4.509	Dec 2021	1.450	Dec 2022	-		1.450	Continuing	Continuing	-
SPCOM Independent Verification and Validation	MIPR	OTC : Ft. Huachuca, AZ	1.985	0.373	Dec 2020	0.400	Apr 2022	0.500	Dec 2022	-		0.500	Continuing	Continuing	-
MCS/COP	C/Various	Various : Various	-	2.120	Apr 2021	1.102	Mar 2022	2.400	Mar 2023	-		2.400	Continuing	Continuing	-
<b>Subtotal</b>			15.774	9.068		6.011		4.350		-		4.350	Continuing	Continuing	N/A

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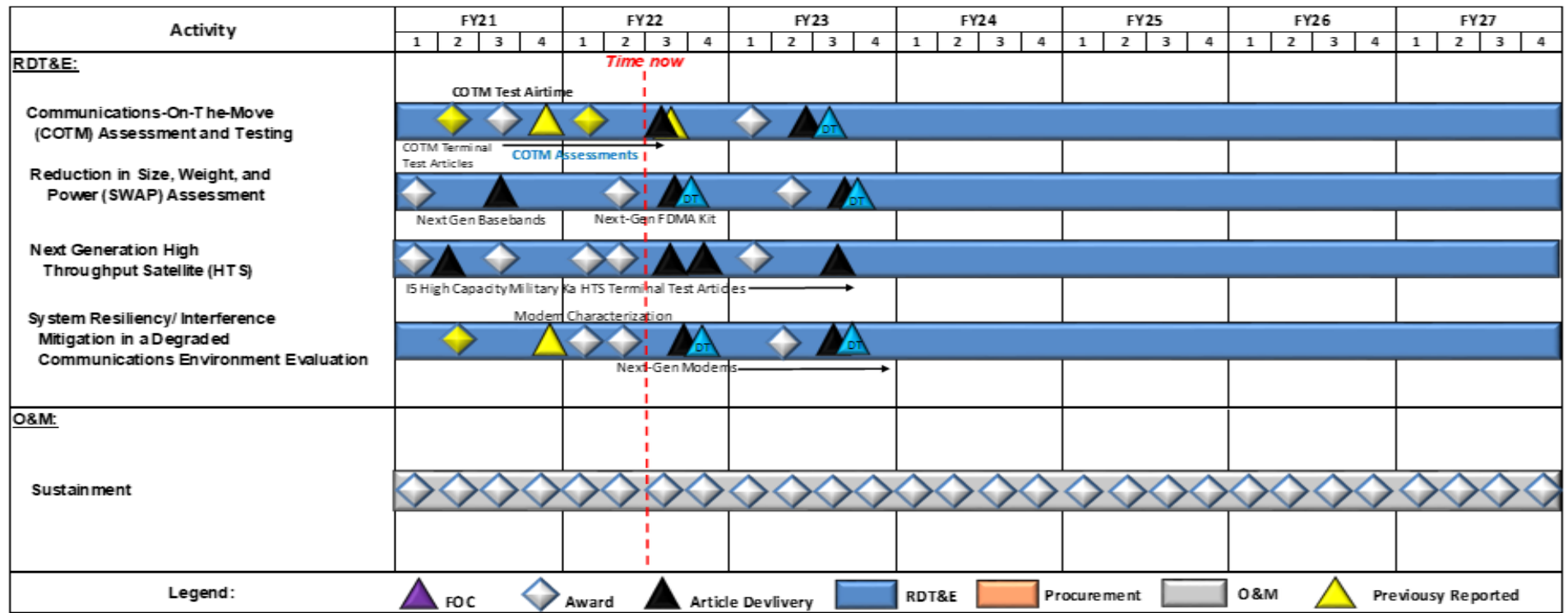
<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2023 United States Special Operations Command								<b>Date:</b> April 2022					
<b>Appropriation/Budget Activity</b> 0400 / 7				<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>					
	<b>Prior Years</b>	<b>FY 2021</b>		<b>FY 2022</b>		<b>FY 2023 Base</b>		<b>FY 2023 OCO</b>		<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	60.999	28.356		21.456		48.665		-		48.665	Continuing	Continuing	N/A

**Remarks**

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 United States Special Operations Command</b>		<b>Date: April 2022</b>
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> 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 2023 United States Special Operations Command

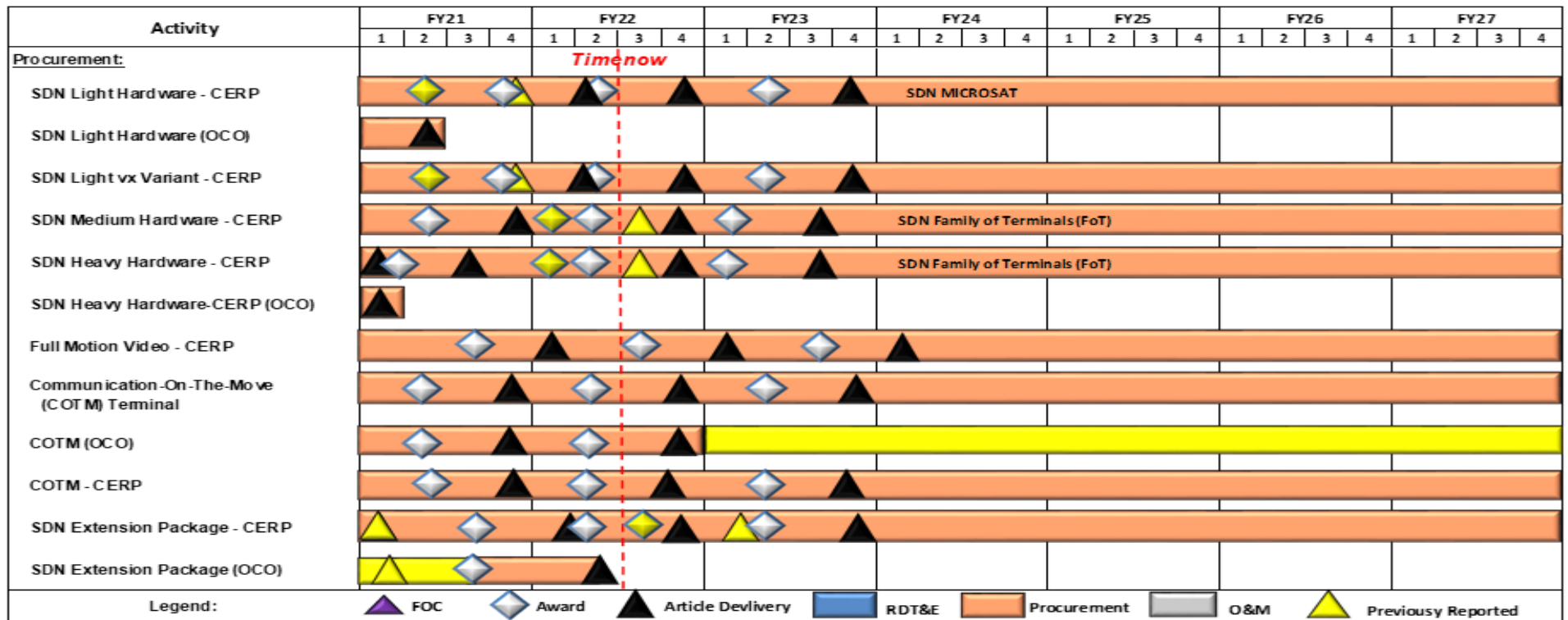
**Date:** April 2022

**Appropriation/Budget Activity**  
0400 / 7

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

**Project (Number/Name)**  
S700 / Communications Equipment and Electronics Systems

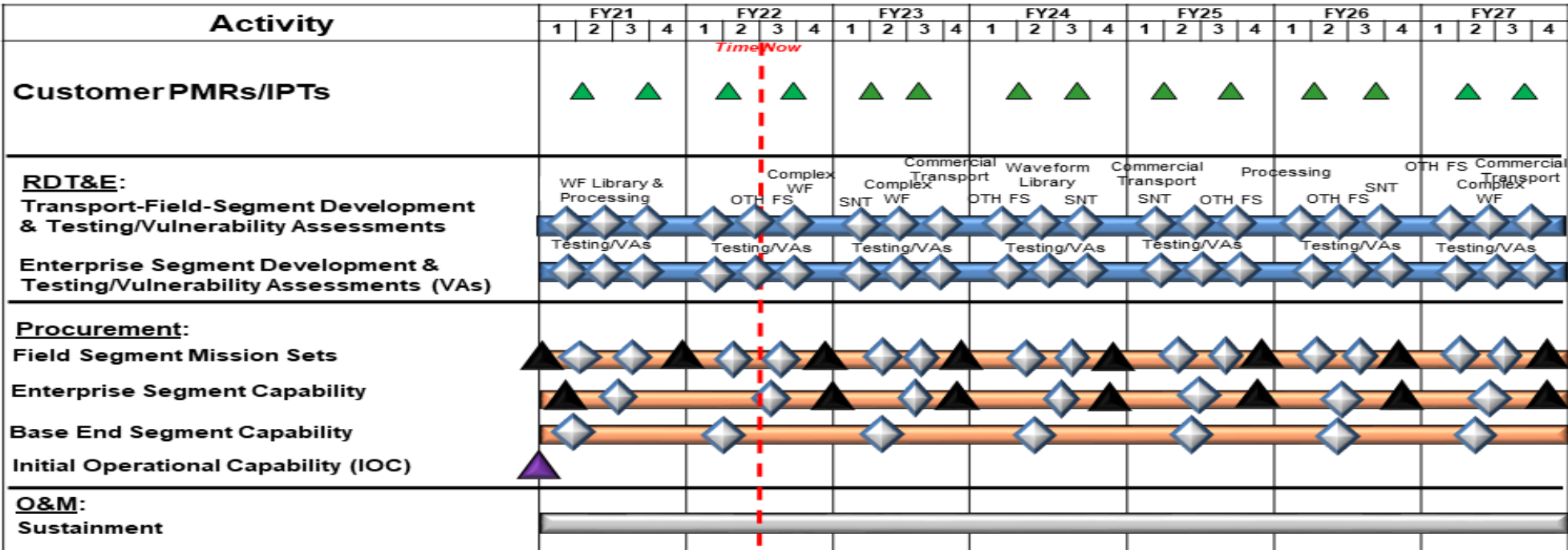
# SDN Schedule (con't)



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 United States Special Operations Command</b>		<b>Date: April 2022</b>
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>

# Special Communications (SPCOM) Enterprise Program Schedule



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

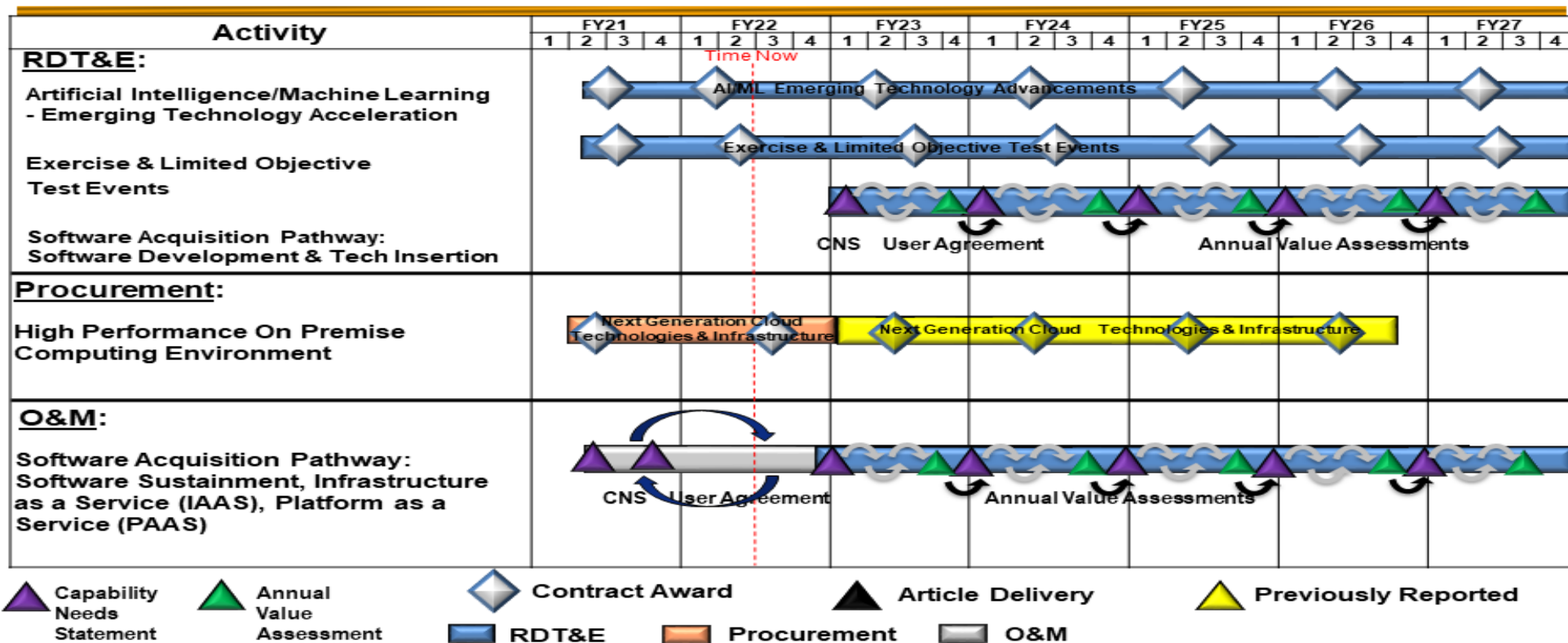
SNT: Secure Note Taking    OTH FS: Over the Horizon Field Set  
 RF: Radio Frequency    WF: Waveform

Appropriation/Budget Activity  
0400 / 7

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

Project (Number/Name)  
S700 / Communications Equipment and Electronics Systems

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



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Satellite Deployable Node (SDN)</i></b>				
Communication-on-the-Move (COTM) Assessment & Testing	1	2021	4	2027
Reduction in Size, Weight, and Power (SWaP)	1	2021	4	2027
Next Generation High Throughput (HTS) Satellite	1	2021	4	2027
System Resiliency / Interference Mitigation in Degraded Communications Environment Evaluation	1	2021	4	2027
<b><i>Special Communications (SPCOM) Enterprise Program</i></b>				
Transport - Field Segment Kit Development and Testing/Vulnerability Assessments	1	2021	4	2027
Enterprise Segment Development and Testing/Vulnerability Assessments	1	2021	4	2027
<b><i>Mission Command System/Common Operational (MCS/COP)</i></b>				
Artificial Intelligence/Machine Learning (AI/ML) - Emerging Technology Acceleration	2	2021	4	2027
Exercise & Limited Objective Test Events	2	2021	4	2027
Software Acquisition Pathway: Software Development & Tech Insertion	1	2023	4	2027

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
S710: <i>Tactical Systems Development</i>	9.912	3.222	14.331	21.736	-	21.736	25.597	26.683	25.191	27.417	Continuing	Continuing
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 2021	FY 2022	FY 2023
<p><b>Title:</b> Tactical Local Area Network (TACLAN)</p> <p><b>Description:</b> The 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><b>FY 2022 Plans:</b> Continue integration and testing of Evolutionary Technology Insertions (ETIs) for TACLAN FCD and Network Management Suite upgrades. Complete the development of Mobile Edge Computing capabilities for integration and assessment in the TACLAN Family of Systems.</p> <p><b>FY 2023 Plans:</b> Continues integration and testing of ETIs for TACLAN FCD and Network Management Suite upgrades. Begins the development of Graphical Processing Unit (GPU) computing capabilities for the integration and assessment of the TACLAN suites.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Decrease of \$0.587 million supports emerging critical command requirements.</p>	3.222	3.068	2.481
<p><b>Title:</b> Classified Sub-project</p> <p><b>Description:</b> Classified Sub-project (provided under separate cover).</p> <p><b>FY 2022 Plans:</b></p>	-	3.263	19.255

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Details provided under separate cover.			
<b><i>FY 2023 Plans:</i></b> Details provided under separate cover.			
<b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> Increase of \$15.992 million will be provided under separate cover.			
<b>Accomplishments/Planned Programs Subtotals</b>	3.222	6.331	21.736

	<b>FY 2021</b>	<b>FY 2022</b>
<b><i>Congressional Add:</i></b> Special Operations Fused Global Data Analytics and Visualization	-	8.000
<b><i>FY 2022 Plans:</i></b> Details provided under separate cover.		
<b>Congressional Adds Subtotals</b>	-	8.000

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

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204OTHER: OTHER ITEMS <\$5M	82.776	55.722	98.096	-	98.096	131.156	88.698	93.486	125.880	Continuing	Continuing

**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.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Tactical Local Area Network (TACLAN) Graphical Processing Unit (GPC)	Reqn	Raven Tek : Tampa, FL	-	-		-		1.249	Mar 2023	-		1.249	Continuing	Continuing	-
Classified Sub-project	C/FFP	Various : Various	-	-	3.263			19.255		-		19.255	Continuing	Continuing	-
Classified Sub-project Congressional Add	C/FFP	Various : Various	-	-	8.000			-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	-		11.263		20.504		-		20.504	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
TACLAN Evolutionary Technology Insertions (ETIs)	Reqn	Raven Tek : Tampa, FL	4.387	1.378	Mar 2021	3.068	Mar 2022	1.000	Mar 2023	-		1.000	Continuing	Continuing	-
Network Management Suite ETIs	Reqn	Raven Tek : Tampa, FL	3.975	1.294	Feb 2021	-		0.232	Apr 2023	-		0.232	Continuing	Continuing	-
Mobile Edge Computing	Reqn	Raven Tek : Tampa, FL	0.550	0.550	Aug 2021	-		-		-		-	0.000	1.100	-
Prior Year	C/Various	Various : Various	1.000	-		-		-		-		-	0.000	1.000	-
<b>Subtotal</b>			9.912	3.222		3.068		1.232		-		1.232	Continuing	Continuing	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	9.912	3.222	14.331	21.736	-	21.736	Continuing	Continuing	N/A

**Remarks**

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command

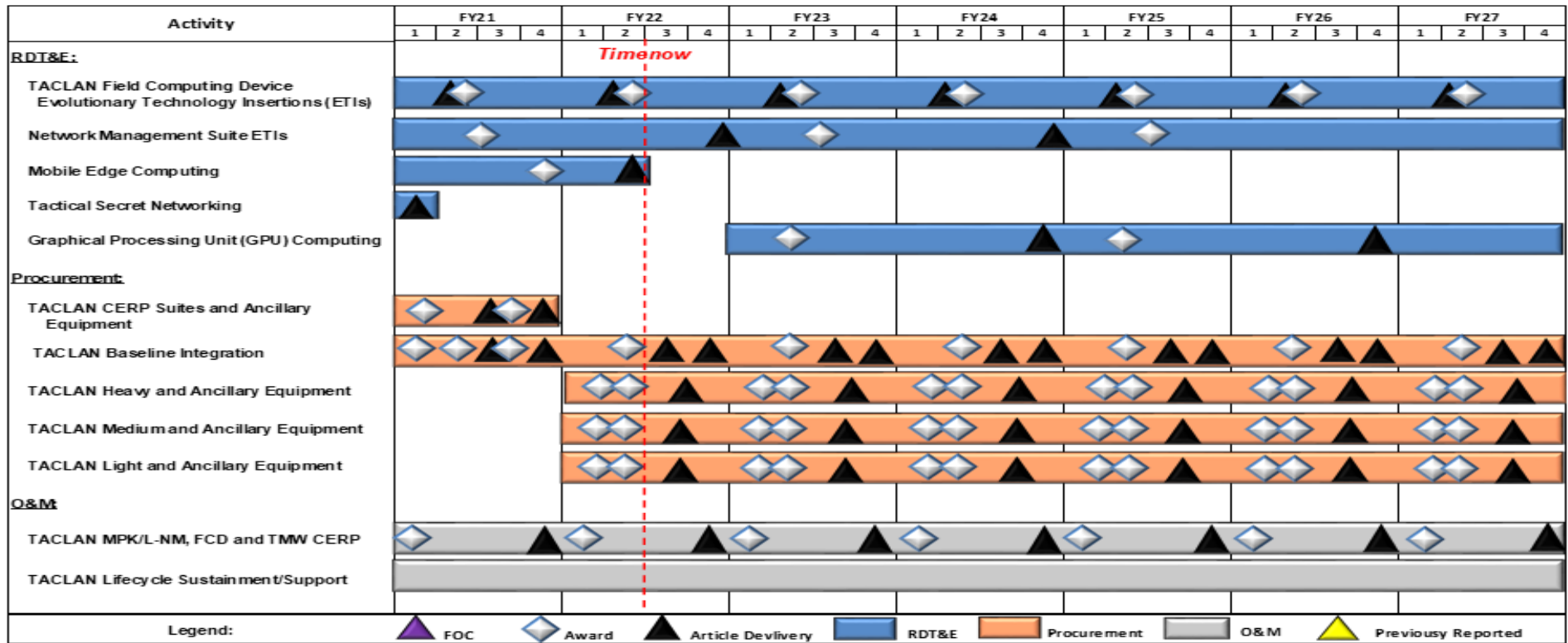
Date: April 2022

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-4A, RDT&E Schedule Details:** PB 2023 United States Special Operations Command **Date:** April 2022

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Tactical Local Area Network (TACLAN) Suites</i></b>				
TACLAN Field Computing Device (FCD) Evolutionary Technology Insertions (ETIs)	1	2021	4	2027
Network Management Suite ETIs	1	2021	4	2027
Mobile Edge Computing	1	2021	2	2022
Tactical Secret Networking	1	2021	1	2021
Graphical Processing Unit Computing	1	2023	4	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S725 / <i>Tactical Radio Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>S725: Tactical Radio Systems</i>	43.178	4.149	12.999	10.058	-	10.058	10.339	5.414	5.490	5.568	Continuing	Continuing
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)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> SOF Tactical Communications (STC)	3.487	1.791	7.827
<b>Description:</b> The 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.			
<b>FY 2022 Plans:</b> Continue Engineering Change Proposals (ECPs) for the Next Generation Handheld (NGHH) and Next Generation Manpack (NGMP), to include initial development of the Mobile User Objective System (MUOS), to transition from legacy Ultra High Frequency tactical satellite waveforms. Continue High Frequency (HF) platform modernization of two complementary systems into an overarching, predominantly Government-owned, HF capability that provides low probability of intercept/detection (LPI/D) capabilities.			
<b>FY 2023 Plans:</b> Continues ECPs for the NGHH and NGMP, to include development of MUOS to transition from legacy UHF tactical satellite waveforms. Continues HF platform modernization of two complementary systems into an overarching, predominantly Government-owned, high frequency capability that provides LPI/D capabilities. Begins contested communications/waveform development focusing on anti-jam capabilities.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Decrease of \$6.036 million is due to \$5.000 million increase to support MUOS phase two development and \$1.036 million increase for anti-jam trade study.			
<b>Title:</b> Blue Force Tracking (BFT)	0.662	1.208	1.644

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S725 / Tactical Radio Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
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<p><b>Description:</b> 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 LPI/D.</p> <p><b>FY 2022 Plans:</b> Continue development and testing of new capabilities.</p> <p><b>FY 2023 Plans:</b> Continues development and testing of specialized BFT and initiates personnel recovery capabilities.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.436 million is due to addressing BFT capability enhancements.</p>			
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<p><b>Title:</b> Remote Advise and Assist Virtual Accompany Kit (RAA/VAK)</p> <p><b>Description:</b> The RAA/VAK provides operational forces a suite of tools for mission planning and execution, command and control of partnered forces, and access to real-time information for situational awareness and de-confliction. RAA/VAK utilizes available cellular networks to transmit and receive voice and data, displaying relevant information geo-spatially on Android Tactical Assault Kit. The components within the kit are commercially available, which mitigates releasability concerns and allows use by partner forces.</p> <p><b>FY 2023 Plans:</b> Evaluates alternate communications methods for data back-haul that will allow the user to connect to commercial satellite networks and the internet at a lower cost to the program.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.587 million supports the evaluation of alternate communications methods for data back-haul that will allow the user to exfil data in degraded environments.</p>	-	-	0.587
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<b>Accomplishments/Planned Programs Subtotals</b>	4.149	2.999	10.058
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	<b>FY 2021</b>	<b>FY 2022</b>
<p><b>Congressional Add:</b> STC - Software-Defined Radio Waveforms</p> <p><b>FY 2022 Plans:</b> Begin initial development of the Mobile User Objective System (MUOS).</p>	-	10.000
<b>Congressional Adds Subtotals</b>	-	10.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S725 / <i>Tactical Radio Systems</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems&lt;\$5M</i>	338.501	364.378	306.846	-	306.846	291.434	300.604	316.399	324.803	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The STC is a COTS/Non-Development Item program with ETIs. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support.

The BFT is a fielded program with ETIs leveraging commercial and other government agency sources for required certifications, functional and operational tests, and technology updates.

The RAA/VAK is pursuing a MTA strategy that will leverage commercial and other government agency sources for technology insertions.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S725 / Tactical Radio Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SOF Tactical Communications (STC) Radio Development	MIPR	Various : Various	37.237	3.487	May 2021	1.791	Jan 2022	7.827	Jan 2023	-		7.827	Continuing	Continuing	-
STC Radio Waveform Congressional Add	MIPR	Various : Various	-	-		10.000	Jan 2022	-		-		-	0.000	10.000	-
Blue Force Tracking (BFT) Rapid Prototyping, Product Development, and Device Integration	MIPR	Various : Various	3.053	0.587	Nov 2020	1.133	Nov 2021	1.569	Nov 2022	-		1.569	Continuing	Continuing	-
Remote Advise and Assist Virtual Accompany Kit (RAA/VAK) Capability Development, Rapid Prototyping, Product Development, and Device Integration	MIPR	Various : Various	-	-		-		0.399	Jan 2023	-		0.399	Continuing	Continuing	-
<b>Subtotal</b>			40.290	4.074		12.924		9.795		-		9.795	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
STC Testing	Option/TBD	Various : Various	2.681	-		-		-		-		-	0.000	2.681	-
BFT SOF Assessment & Operational Testing	MIPR	Various : Various	0.207	0.075	Nov 2020	0.075	Nov 2021	0.075	Nov 2022	-		0.075	Continuing	Continuing	-
RAA/VAK SOF Assessment & Operational Testing	MIPR	Various : Various	-	-		-		0.188	Jan 2023	-		0.188	Continuing	Continuing	-
<b>Subtotal</b>			2.888	0.075		0.075		0.263		-		0.263	Continuing	Continuing	N/A



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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command

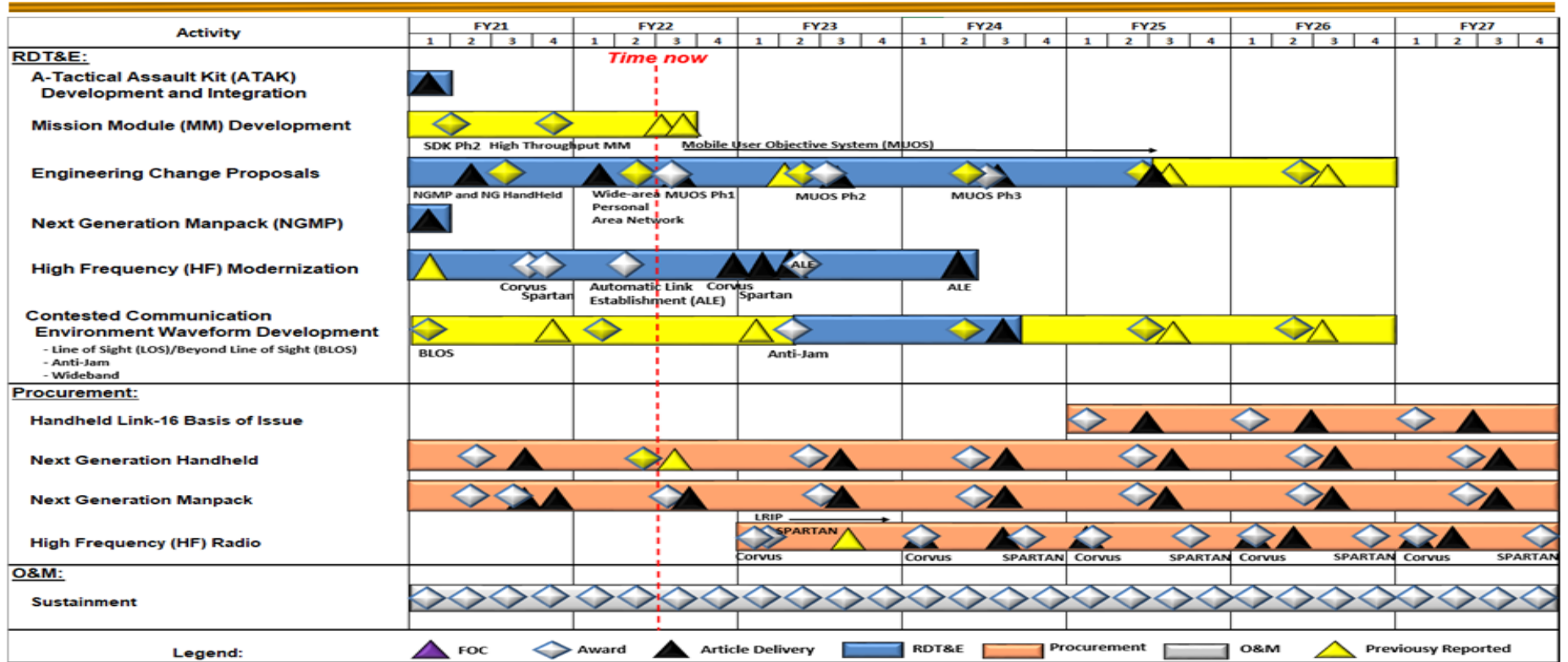
Date: April 2022

Appropriation/Budget Activity  
0400 / 7

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

Project (Number/Name)  
S725 / Tactical Radio Systems

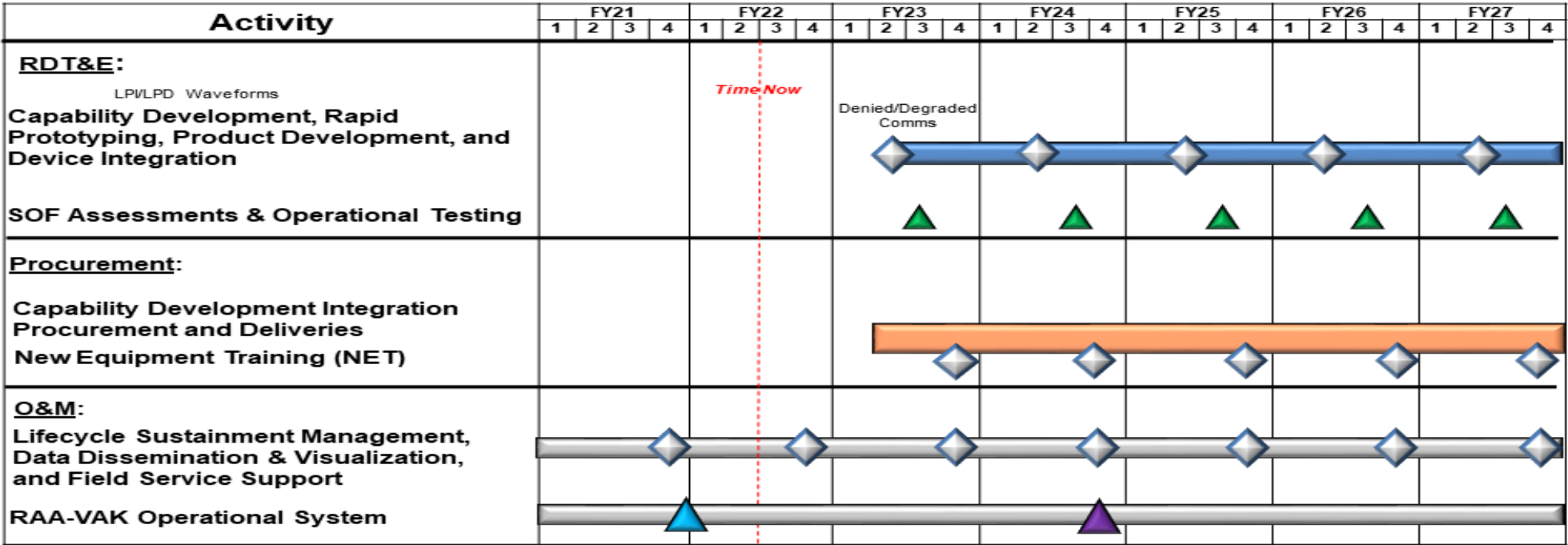
# SOF Tactical Communications (STC)/ Next Generation Tactical Communications (NGTC) Schedule





<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 United States Special Operations Command</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S725 / <i>Tactical Radio Systems</i>

# Remote Advise and Assist - Virtual Accompany Kit (RAA-VAK) Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S725 / <i>Tactical Radio Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>SOF Tactical Communications Radio (STC)</i></b>				
A-Tactical Assault Kit (ATAK) Development and Integration	1	2021	1	2021
Engineering Change Proposals (ECPs)	1	2021	2	2025
Next Generation (NGEN) Manpack (MP) Test and Evaluation	1	2021	1	2021
High Frequency (HF) Modernization	1	2021	2	2024
Contested Communication Environment Waveform Development	2	2023	3	2024
<b><i>Blue Force Tracking (BFT)</i></b>				
Rapid Prototyping, Product Development, and Device Integration	1	2021	4	2027
SOF Assessment & Operational Testing	1	2021	4	2027
<b><i>Remote Advise Assist Virtual Accompany Kit (RAA/VAK)</i></b>				
Capability Development, Rapid Prototyping, Product Development, and Device Integration	2	2023	4	2027
SOF Assessments & Operational Testing	3	2023	4	2027

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
S800: <i>Munitions Advanced Development</i>	118.669	11.945	41.979	18.191	-	18.191	20.541	16.560	16.469	17.146	Continuing	Continuing
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 kinetic and non-kinetic munitions and equipment to meet the unique requirements of SOF.

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

	FY 2021	FY 2022	FY 2023
<p><b>Title:</b> Stand-Off Precision Guided Munitions (SOPGM)</p> <p><b>Description:</b> SOPGM provides for the integration and testing of service-common and recently developed precision guided munitions on SOF-unique platforms.</p> <p><b>FY 2022 Plans:</b> Continue the engineering, integration, and testing on various technologies (munitions and warheads) within the precision guided munitions portfolio.</p> <p><b>FY 2023 Plans:</b> Continues the engineering, integration, and testing of various technologies (munitions and warheads) within the precision guided munitions portfolio.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$0.103 million will continue SOPGM integration and development efforts.</p>	3.040	4.256	4.359
<p><b>Title:</b> Munitions Advanced Development</p> <p><b>Description:</b> 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 USSOCOM IM Testing Plan. Munitions product improvements are tested in accordance with command priorities.</p> <p><b>FY 2022 Plans:</b> 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</p>	1.529	1.549	0.530

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022			
<b>Appropriation/Budget Activity</b> 0400 / 7		<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	
<p>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.</p> <p><b>FY 2023 Plans:</b> Continues proof of concept development and IM testing on various munitions. Continues full scale testing to satisfy safety requirements in Military Standard 2105C.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Net decrease of \$1.019 million is due to \$0.009 million increase due to a miscellaneous adjustment and (\$1.028 million) decrease due to transition of technologies to the Maritime Scalable Effects project line.</p>					
<p><b>Title:</b> Maritime Scalable Effects</p> <p><b>Description:</b> Maritime Scalable Effects and the Maritime Disablement Program will provide Naval Special Warfare (NSW) a family of systems (FOS) to include multiple payloads delivered via combat swimmer, combat submersible and Unmanned Underwater Vehicle to disrupt, degrade and destroy enemy maritime vessels, maritime support assets, and maritime infrastructure. This FOS will include several tactical and training configurations of munitions and related equipment of explosively formed penetrators, conical shape charges, linear shaped charges, diversionary devices, demolition hand grenades, breaching devices, explosives, firing devices, underwater munitions, flares, signaling devices, along with tools, equipment, and attaching devices for constructing and emplacing a variety of demolition charges and other munitions as required. Funding will accelerate upgrades to existing capabilities while at the same time field innovative technologies and creative operational concepts to target adversary vulnerabilities. Directly supports and enables subsea seabed warfare in support of integrated deterrence. MSE was previously reported under the Munitions Advanced Development.</p> <p><b>FY 2023 Plans:</b> Begins proof of concept development and IM testing on various munitions. Begins full scale, developmental testing, operational test evaluations, and finalized safety certifications for operational approvals. FY 2023 also includes FoS projects to include underwater explosive penetrator variants and other complimentary capabilities.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$1.812 million supports the development of innovative technologies and creative operational concepts to target near peer vulnerabilities.</p>		-	-	1.812	
<p><b>Title:</b> Maritime Precision Engagement Munition (MPE-M) / Ground Organic Precision Strike System (GOPSS)</p> <p><b>Description:</b> 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 MTA program which uses the rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts</p>		7.376	15.963	-	

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<p>competitively selected as appropriate. Beginning in FY 2023, program capabilities and funding have transitioned into the Maritime Precision Engagement Munitions (MPE-M) and Ground Organic Precision Strike System (GOPSS).</p> <p><b>FY 2022 Plans:</b> Enable 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. Enable 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; and post-event processing and analysis with revised capability and programmatic documents.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Net decrease of \$15.963 million is to support emerging critical Command requirements (\$4.473 million) and the remaining funds were realigned out of the MPE-M / GOPSS combined project line to the MPE-M (\$9.746 million) and GOPSS (\$1.744 million) project lines.</p>			
<p><b>Title:</b> Ground Organic Precision Strike System (GOPSS)</p> <p><b>Description:</b> Direct attack or aerial loitering munitions (ALM) provides for the engineering, integration and testing of recently developed precision guided munitions on SOF-unique platforms. GOPSS is designated as a MTA program which uses the rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts competitively selected as appropriate. GOPSS was previously reported under the MPE-M / GOPSS project line.</p> <p><b>FY 2023 Plans:</b> Continues the development of each echelon within GOPSS through funding the following: 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.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of \$1.744 million supports new technological innovations and development of direct attack or ALM and was broken out from the MPE-M project line.</p>	-	-	1.744
<p><b>Title:</b> Maritime Precision Engagement Munition (MPE-M)</p> <p><b>Description:</b> 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 is designated a MTA program which uses the</p>	-	-	9.746

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts competitively selected as appropriate. MPE-M was previously reported under the MPE-M / GOPSS project line.			
<b><i>FY 2023 Plans:</i></b> Begins MPE-M development and testing by funding the following: engineering services; munition magazines; aircraft munition, 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.			
<b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> Increase of \$9.746 million supports new technologies innovation to MPE-M and was broken out from the GOPSS project line.			
<b>Accomplishments/Planned Programs Subtotals</b>	11.945	21.768	18.191

	<b>FY 2021</b>	<b>FY 2022</b>
<b><i>Congressional Add:</i></b> Various Effects Launcher Capability	-	16.000
<b><i>FY 2022 Plans:</i></b> Develop, integrate and initially field a variable effects launcher capability that can carry a mixed load out of glide munitions, unmanned aerial systems and non-lethal standoff payload delivery systems.		
<b><i>Congressional Add:</i></b> Maritime Scalable Effects Acceleration	-	4.211
<b><i>FY 2022 Plans:</i></b> Develop and test two additional Part B variants intended to exploit known vulnerabilities of adversaries and accelerate the transition of Project 811.		
<b>Congressional Adds Subtotals</b>	-	20.211

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0203ORDN: <i>Ordnance Items &lt;\$5M</i>	287.629	162.212	151.233	-	151.233	158.672	164.729	163.159	207.908	Continuing	Continuing

**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.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

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

Munitions Advanced Development: Munitions and packaging redesign take place within government laboratories, as well as in industry, depending on the munitions. The 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 MTA authorities and OTAs.

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. Planned product improvements are tested at Army, Navy, and Marine Corps test centers leveraging MTA authorities and OTAs.

MPE-M: Maritime Precision Effects - Munitions take place within government laboratories and industry while leveraging existing developmental efforts and progress achieved in parallel, land-based aircraft and munitions efforts. Solutions reflect an integration of multiple platforms and 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 MTA authorities and OTAs.

Maritime Scalable Effects: Maritime Scalable Effects munitions and packaging redesign take place within government laboratories, as well as in industry, depending on the munitions. 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 MTA authorities and OTAs.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Stand-off Precision Guided Munitions (SOPGM) Development	SS/ Various	Various : Various	-	3.040	Feb 2021	3.756	Mar 2022	3.859	Mar 2023	-		3.859	Continuing	Continuing	-
Various Effects Launcher Capability Cong Add	C/Various	Various : Various	-	-		16.000	Sep 2022	-		-		-	0.000	16.000	-
Maritime Scalable Effects (MSE) Variant Feasibility Study - Congressional Add	C/Various	Various : Various	-	-		0.100	Jun 2022	-		-		-	0.000	0.100	-
MSE Parts B2/B3 Variant Development - Congressional Add	C/Various	Various : Various	-	-		2.000	Aug 2022	-		-		-	0.000	2.000	-
MSE Project 811 Product Development - Congressional Add	C/Various	Various : Various	-	-		1.517	Jun 2022	-		-		-	0.000	1.517	-
MSE Parts A and B Product Development - Congressional Add	C/Various	Various : Various	-	-		0.594	Jun 2022	-		-		-	0.000	0.594	-
Ground Organic Precision Strike System (GOPSS)	C/Various	Various : Various	2.067	3.455	Mar 2021	1.775	Nov 2021	1.744	Dec 2022	-		1.744	Continuing	Continuing	-
Maritime Precision Engagement Munition (MPE-M) Aircraft Development	C/Various	Various : Various	4.723	1.516	Nov 2020	9.850	Nov 2021	8.000	Jan 2023	-		8.000	Continuing	Continuing	-
MPE-M - Payload development	C/Various	Various : Various	1.010	0.922	Nov 2020	1.200	Nov 2021	-		-		-	Continuing	Continuing	-
MPE-M Integration Development	C/Various	Various : Various	1.850	0.699	Nov 2020	0.956	Nov 2021	0.209	Jan 2023	-		0.209	Continuing	Continuing	-
Prior Year Funding - Base	C/Various	Various : Various	59.570	-		-		-		-		-	0.000	59.570	-
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	23.957	-		-		-		-		-	0.000	23.957	-
<b>Subtotal</b>			93.179	9.632		37.748		13.812		-		13.812	Continuing	Continuing	N/A

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year	C/Variou	Various : Various	1.100	-		-		-		-		-	0.000	1.100	-
Prior Year Funding - OCO	C/Variou	Various : Various	0.001	-		-		-		-		-	0.000	0.001	-
Prior Year Funding - Congressional Plus Up	C/Variou	Various : Various	7.868	-		-		-		-		-	0.000	7.868	-
<b>Subtotal</b>			8.969	-		-		-		-		-	0.000	8.969	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOPGM Development	C/Variou	Various : Various	-	-		0.500	Feb 2022	0.500	Feb 2023	-		0.500	Continuing	Continuing	-
Munitions Advanced Development AMMO Systems - Insensitive Munitions (IM) Evaluation	C/FFP	US Air Force Air Armaments Center : Eglin, AFB, FL	0.222	0.060	Dec 2020	0.067	Dec 2021	0.072	Dec 2022	-		0.072	Continuing	Continuing	-
Munitions Advanced Development AMMO Systems - IM Testing	Allot	ARDEC : Picatinny Arsenal, NJ	1.203	1.267	Dec 2020	0.268	Dec 2021	0.270	Dec 2022	-		0.270	Continuing	Continuing	-
Munitions Advanced Development AMMO Systems - Obtain Munitions Test Articles	C/FFP	General Dynamics : Canada	0.482	0.202	Dec 2020	1.214	Dec 2021	0.188	Dec 2022	-		0.188	Continuing	Continuing	-
MSE Test and Evaluation of Part A	C/Variou	Various : Various	-	-		-		0.400	Jan 2023	-		0.400	Continuing	Continuing	-
MSE Test and Evaluation of Part B	Variou	Various : Various	-	-		-		0.400	Jan 2023	-		0.400	Continuing	Continuing	-
MSE Test and Evaluation Project 811 and Parts B2/ B3	Variou	Various : Various	-	-		-		1.012	Jun 2023	-		1.012	Continuing	Continuing	-
MPE-M - Safety	Allot	NSWC : Indian Head, MD	0.389	0.365	Jun 2021	0.419	Nov 2021	0.900	Jan 2023	-		0.900	Continuing	Continuing	-
MPE-M - Payload Test	Allot	Redstone : Various	0.450	0.141	May 2021	0.468	Feb 2022	0.300	Mar 2023	-		0.300	Continuing	Continuing	-

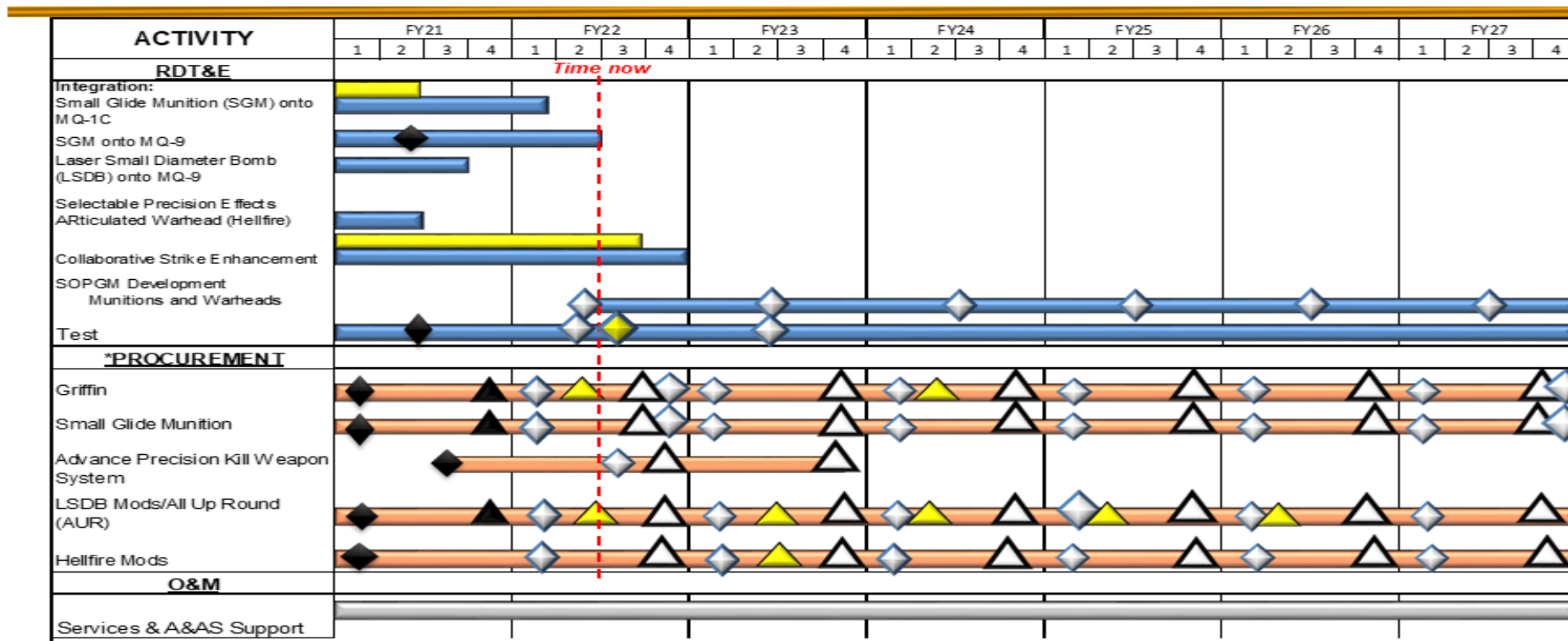


Appropriation/Budget Activity  
0400 / 7

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 bar] RDT&E   
 [Orange bar] Procurement   
 [Grey bar] O&M   
 ▲ Previously Reported

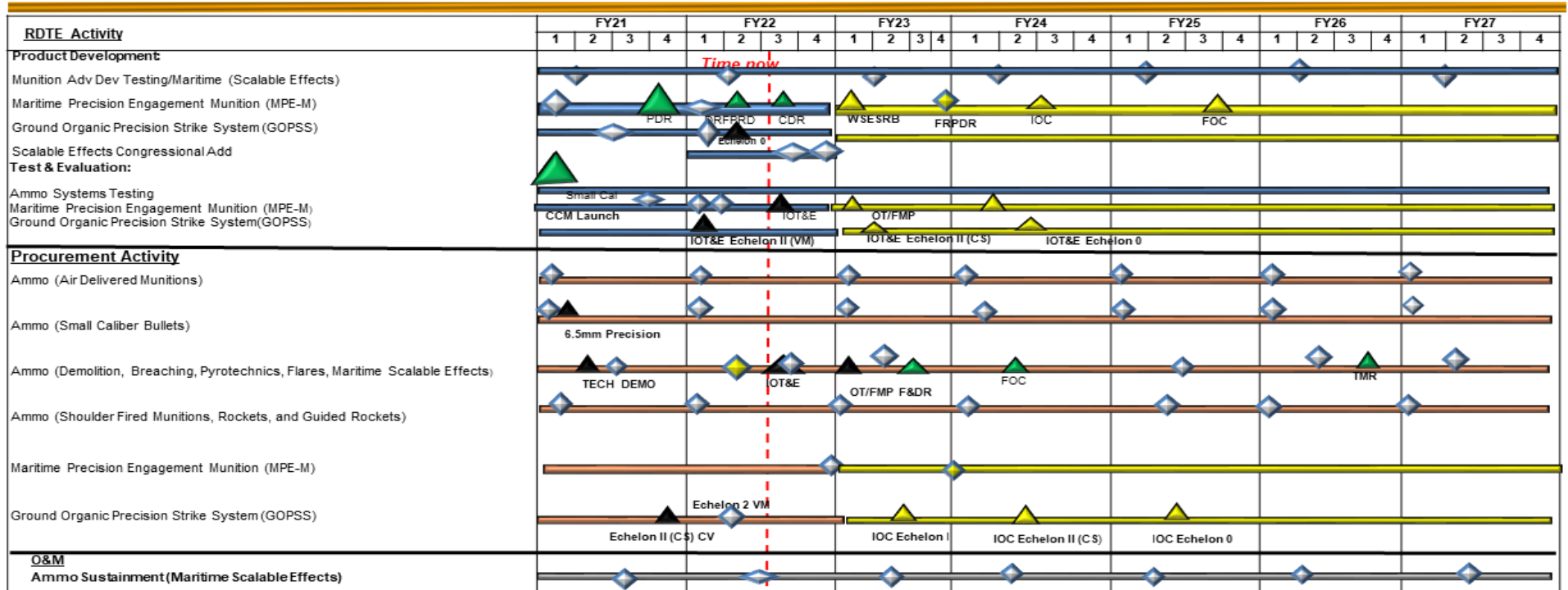
\*Articles delivered monthly

Appropriation/Budget Activity  
0400 / 7

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

Project (Number/Name)  
S800 / Munitions Advanced Development

# Munitions Advanced Development Schedule

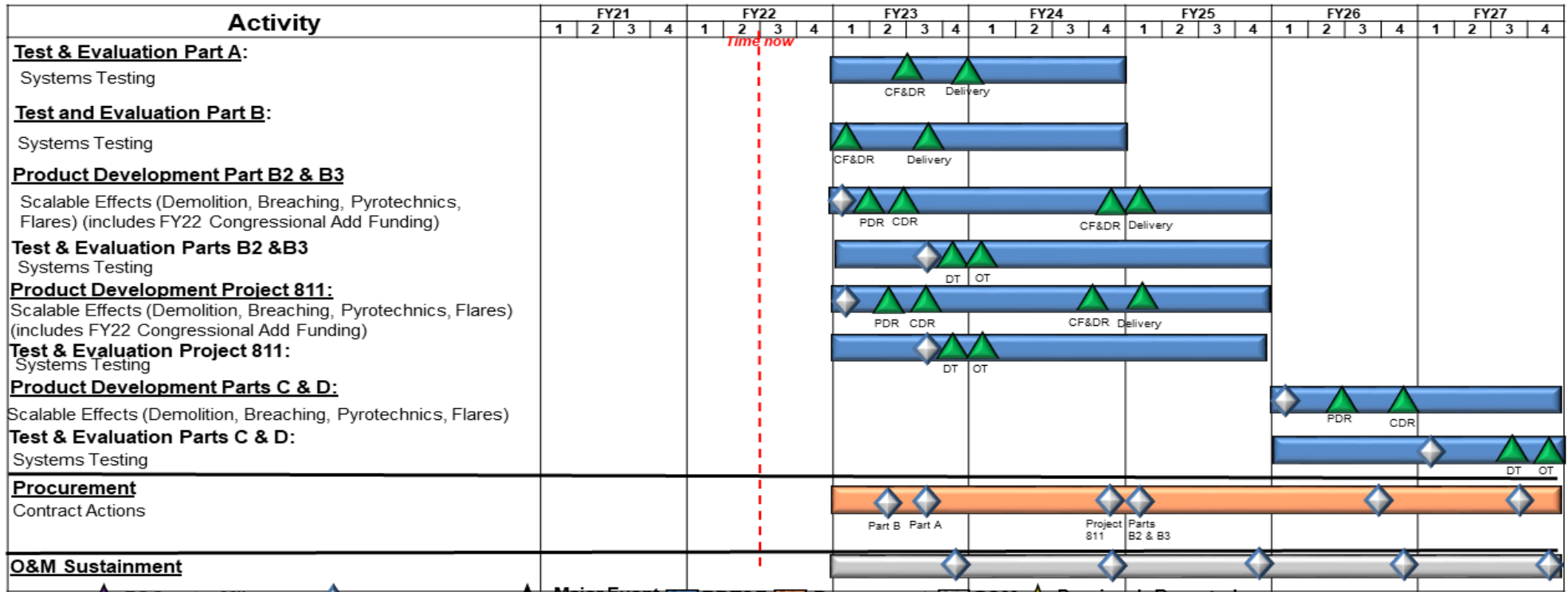


▲ FOC   
 ▲ Milestone   
 ◆ Contract Award   
 ▲ Major Event   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ▲ Previously Reported

Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned to stand-alone schedules beginning in FY23

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S800 / Munitions Advanced Development

# Maritime Scalable Effects Schedule



▲ FOC   
 ▲ Milestone   
 ◆ Contract Award   
 ▲ Major Event   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ▲ Previously Reported

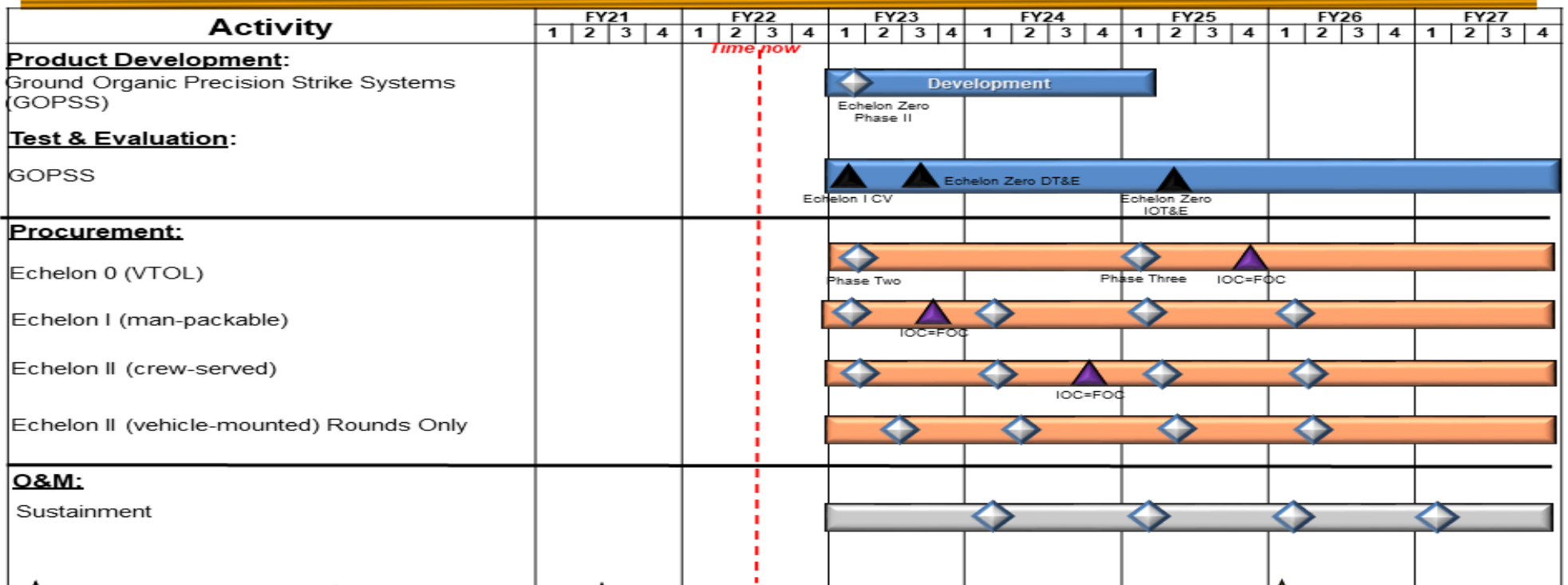
Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned from the Munitions schedule to stand-alone schedules beginning in FY23

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**Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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# Ground Organic Precision Strike System (GOPSS) Schedule



▲ FOC   
 ▲ Milestone   
 ◆ Contract Award   
 ▲ Major Event   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ▲ Previously Reported

Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned from the Munitions schedule to stand-alone schedules beginning in FY23

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command

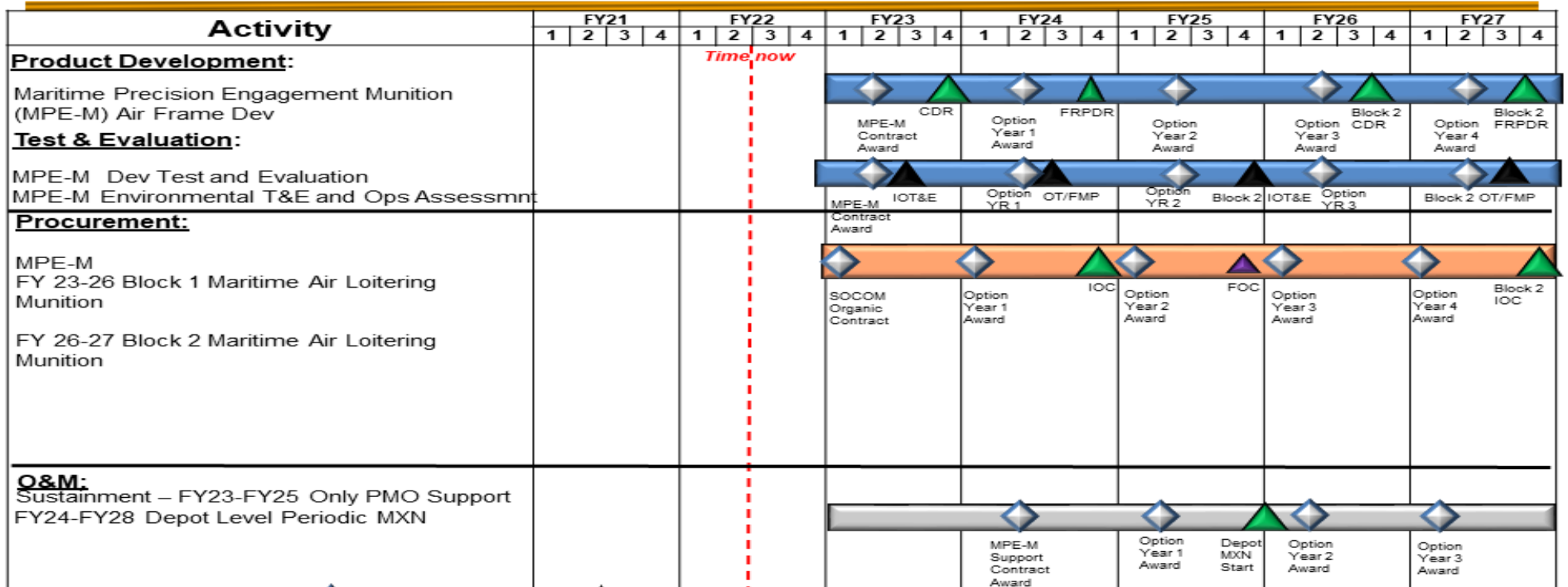
Date: April 2022

Appropriation/Budget Activity  
0400 / 7

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

Project (Number/Name)  
S800 / Munitions Advanced Development

# Maritime Precision Engagement – Munition (MPE-M) Schedule



▲ FOC   
 ▲ Milestone   
 ◆ Contract Award   
 ▲ Major Event   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ▲ Previously Reported

Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned from the Munitions schedule to stand-alone schedules beginning in FY23

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Stand-off Precision Guided Munitions (SOPGM)</i></b>				
Small Glide Munitions (SGM) onto MQ-1C Integration	1	2021	1	2022
SGM onto MQ-9 Integration	1	2021	3	2022
Laser Small Diameter Bomb (LSDB) onto MQ-9 Integration	1	2021	4	2021
Selectable Precision Effects Articulated Warhead (Hellfire)	1	2021	3	2021
SGM Collaborative Strike Enhancement	1	2021	4	2022
SOPGM Development Munitions and Warheads	2	2022	4	2027
SOPGM Testing	1	2021	4	2027
<b><i>Munitions Advanced Development</i></b>				
Munition Adv Dev Testing/Maritime Scalable Effects (MSE) Product Development	1	2021	4	2027
Maritime Precision Engagement Munition (MPE-M) Product Development	1	2021	4	2022
Ground Organic Precision Strike System (GOPSS) Product Development	1	2021	4	2022
Scalable Effects Congressional Add Product Development	1	2022	4	2022
Ammo Systems Test and Evaluation (T&E)	1	2021	4	2027
MPE Systems T&E	1	2021	4	2022
GOPSS Systems T&E	1	2021	4	2022
<b><i>Maritime Scalable Effects (MSE)</i></b>				
MSE Contract Actions Parts A and B	1	2023	4	2024
MSE Product Development Parts B2/B3	1	2023	4	2025
MSE Product Development Project 811	1	2023	4	2025
MSE T&E Parts B2/B3	1	2023	4	2025
MSE T&E Project 811	1	2023	4	2025
MSE Part C T&E	1	2026	4	2027

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
MSE Part D T&E	1	2026	4	2027
<b><i>GOPSS</i></b>				
GOPSS Product Development	1	2023	1	2025
GOPSS T&E	1	2023	4	2027
<b><i>MPE-M</i></b>				
MPE-M Product Development	1	2023	4	2027
MPE-M T&E	1	2023	4	2027