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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	434.271	124.277	166.404	263.374	-	263.374	206.728	196.092	207.717	210.045	Continuing	Continuing
D476: <i>Military Information Support Operations</i>	58.917	3.200	5.371	3.500	-	3.500	3.434	3.503	3.573	3.644	Continuing	Continuing
S375: <i>Weapons Systems</i>	9.195	1.459	1.518	1.592	-	1.592	1.619	1.642	1.675	1.709	Continuing	Continuing
S385: <i>Soldier Protection and Survival Systems</i>	55.573	41.594	29.316	27.283	-	27.283	26.064	26.358	26.788	27.388	Continuing	Continuing
S385A: <i>Body Armor and Associated Equipment</i>	11.270	1.622	1.688	1.773	-	1.773	1.800	1.825	1.862	1.899	Continuing	Continuing
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	18.904	4.864	4.990	5.152	-	5.152	5.188	5.198	5.301	5.407	Continuing	Continuing
S700: <i>Communications Equipment and Electronics Systems</i>	89.354	17.903	48.614	92.602	-	92.602	70.105	58.496	66.372	68.007	Continuing	Continuing
S710: <i>Tactical Systems Development</i>	13.134	13.470	30.740	58.821	-	58.821	52.497	47.628	49.784	53.891	Continuing	Continuing
S725: <i>Tactical Radio Systems</i>	47.325	15.484	10.049	17.789	-	17.789	5.864	5.940	6.018	6.130	Continuing	Continuing
S800: <i>Munitions Advanced Development</i>	130.599	24.681	34.118	54.862	-	54.862	40.157	45.502	46.344	41.970	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 military information support operations (MISO), weapons, soldier protection and survival, body armor and associated equipment, visual augmentation, lasers, sensors and simulators, communication equipment and electronics, tactical, tactical radio, and munitions 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 and build an enduring advantage in support of the 2022 National Defense Strategy (NDS). 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.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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FY 2022 includes \$5.195 million in Overseas Operations Costs (OOC) execution. FY 2023 includes \$4.128 million in OOC enacted budget. FY 2024 includes \$12.897 million for the OOC budget request.

D476 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.

The total cost of the FABS Middle Tier of Acquisition effort is \$22.515 million (FY 2024 to FY 2028), including Research, Development, Test & Evaluation (RDT&E) and procurement of prototype and production units. FABS is fully funded.

The total cost of the NGLS Middle Tier of Acquisition effort is \$5.268 million (FY 2024 to FY 2028), including Research, Development, Test & Evaluation (RDT&E) and procurement of prototype units. NGLS is fully funded.

The total cost of the Media Production Center (MPC) Middle Tier of Acquisition effort is \$8.875 million, including RDT&E and procurement of prototype units. The MPC program is fully funded across the Future Years Defense Program.

S375 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.

The total cost of the Weapons/Target Engagement Middle Tier of Acquisition (MTA) effort is \$69.317 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The Weapons/Target Engagement effort is fully funded across the FYDP.

S385 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, including: individual survival equipment; hearing protection; clothing systems; load bearing equipment; Multi-Mission Electronic Countermeasures (MM-ECM) systems; Counter Unmanned Systems (CUxS) (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. Efforts relating to soldier protection and survival requirements will improve survivability and mobility of SOF while conducting varied missions. The CUxS 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.

UNCLASSIFIED

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<p>This project received a Congressional Add in FY 2022 for the CUxS program (\$8.670 million). This project received Congressional Adds in FY 2023 for Per- and Polyflouroakyll Substances (PFAS)/ Perflourooctanic Acid (PFOA) free durable water repellent treatment (\$4.000 million), CUxS procurement acceleration (\$5.400 million) and mobile CUAS solutions (\$3.000 million).</p> <p>The total cost of the Special Operations Forces Personal Equipment Advanced Requirements (SPEAR) Middle Tier Acquisition (MTA) program is \$15.542 million (FY 2024- FY 2028), including RDT&E of prototypes. The SPEAR effort is fully funded across the Future Years Defense Program.</p> <p>The total cost of the Tactical Combat Casualty Care Evacuation (TCCCE) Middle Tier of Acquisition (MTA) program is \$15.558 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The TCCCE effort is fully funded across the Future Years Defense Program.</p> <p>The total cost of the MM-ECM MTA effort is \$88.159 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The MM-ECM effort is fully funded across the Future Years Defense Program.</p> <p>The total cost of the CUxS MTA effort is estimated to be \$668.073 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The CUxS is a defined requirement; however, the program experiences resource fluctuations across fiscal years as the USSOCOM adapts prioritization of investments to pace the evolving and imminent CUxS threat environment. The USSOCOM continues to refine the amount of funding required across the Future Years Defense Program.</p> <p>The total cost of the PSM MTA effort is \$9.472 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The PSM effort is fully funded across the Future Years Defense Program.</p> <p>S385A 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 SPEAR program by providing for the research, development, and testing of body armor plates, soft armor, helmets, eye protection, and other personal protective equipment to meet current ballistic threats that exist on the battlefield.</p> <p>The total cost of the SPEAR Body Armor and Associated Equipment Middle Tier Acquisition (MTA) is \$9.159 million (FY 2024 – FY 2028), including RDT&E of prototypes. The SPEAR Body Armor and Associated Equipment effort is fully funded across the Future Years Defense Program.</p> <p>S395 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. Efforts 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. Specialized visual augmentation, lasers and sensors will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict.</p>		

UNCLASSIFIED

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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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The total cost of the Visual Augmentation System (VAS) MTA effort is \$189.604 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The VAS effort is fully funded across the Future Years Defense Program.

S700 Communications Equipment and Electronics Systems:

This project provides for communication systems to meet emergent requirements to support SOF. SOF units require communications equipment that improves their warfighting capability without degrading their mobility. SOF Communications Equipment and Electronics is a continuing effort to develop smaller, lighter, more efficient and more robust SOF command, control, communications, and computer (C4) capabilities. 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 United States Government, Air Traffic Control, commercial agencies and allied foreign forces.

S710 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.

This project received Congressional Adds in FY 2022 (\$8.000 million) and Congressional Adds in FY 2023 (\$9.004 million), details will be provided under separate cover.

The total cost of the TACLAN Middle Tier of Acquisition effort is \$26.348 million, including RDT&E and procurement of prototype units. The TACLAN program is fully funded across the Future Years Defense Program.

S725 Tactical Radio Systems:

This project provides for the development of all SOF tactical radio programs. 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. SOF Tactical Radios provide the critical C3 link between SOF Commanders and SOF teams involved in operational missions and training exercises. In addition, they provide interoperability amongst the Services, various agencies of the United States 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.

This project received a Congressional Add in FY 2022 for software-defined radio waveforms (\$10.000 million).

The total cost of the Next Generation Tactical Communications (NGTC) Middle Tier of Acquisition effort is \$389.670 million, including RDT&E and procurement of prototype units. The NGTC program is fully funded across the Future Years Defense Program.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 United States Special Operations Command	Date: March 2023
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>
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The total cost of the Remote, Advise and Assist Virtual Accompany Kit (RAA/VAK) Middle Tier of Acquisition effort is \$199.900 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The RAA/VAK effort is fully funded across the Future Years Defense Program.

S800 Munitions Advanced Development:

This project provides for the advanced engineering, operational system development, and qualification efforts related to SOF-peculiar and Foreign/Non-standard munitions and equipment. Funding supports development of Insensitive Munitions (IM) technology and evaluation, in accordance with 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 Maritime Precision Engagement Munition (MPE-M), Ground Organic Precision Strike System (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. MPE-M and GOPSS develop a SOF organic strike mission package to surgically strike an agile and mobile enemy, protect our forces, and minimize collateral damage. MPE-M develops a SOF specific, maritime, precision strike package for Naval Special Warfare (NSW) Combatant Craft to defend forces and strike an evolving enemy while minimizing collateral damage.

This project received a Congressional Add in FY 2022 for Maritime Scalable Effects (\$4.211 million). This project also received Congressional Adds in FY 2023 for Maritime Scalable Effects Electronic Warfare System Acceleration (\$2.397 million), Ground Organic Precision Strike Systems (\$9.930 million), and MPE-M (\$3.600 million).

The total cost of the Stand-Off Precision Guided Munitions (SOPGM) MTA program is \$436.403 million (FY 2024-FY 2028), including RDT&E and procurement of prototype units. The SOPGM effort is fully funded across the FYDP.

The total cost of the Ordnance (Munitions) MTA effort is \$371.391 million (FY 2024 – FY 2028), including RDT&E and procurement of prototype units. The Ordnance (Munitions) effort, includes Munitions Advanced Development, Maritime Scalable Effects, Ground Organic Precision Strike System (GOPSS), and Maritime Precision Engagement Munition (MPE-M), is fully funded across the FYDP.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	125.473	129.133	137.487	-	137.487
Current President's Budget	124.277	166.404	263.374	-	263.374
Total Adjustments	-1.196	37.271	125.887	-	125.887
• Congressional General Reductions	-	-0.060			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	37.331			
• Congressional Directed Transfers	-	-			
• Reprogrammings	3.384	-			
• SBIR/STTR Transfer	-4.580	-			
• Adjustments to Budget Year	-	-	125.887	-	125.887

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2024 United States Special Operations Command **Date:** March 2023

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

Project: S385: *Soldier Protection and Survival Systems*

Congressional Add: *CUxS*

Congressional Add: *SPEAR*

Congressional Add Subtotals for Project: S385

Project: S710: *Tactical Systems Development*

Congressional Add: *Special Operations Fused Global Data Analytics and Visualization*

Congressional Add: *Identity Management*

Congressional Add: *Next Generation Intelligence, Surveillance, and Reconnaissance SOF Enhancement*

Congressional Add Subtotals for Project: S710

Project: S725: *Tactical Radio Systems*

Congressional Add: *NGTC - Software-Defined Radio Waveforms*

Congressional Add Subtotals for Project: S725

Project: S800: *Munitions Advanced Development*

Congressional Add: *GOPSS*

Congressional Add: *MSE Acceleration*

Congressional Add: *MPE-M*

Congressional Add Subtotals for Project: S800

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	8.354	8.400
	-	4.000
Congressional Add Subtotals for Project: S385	8.354	12.400
	7.708	-
	-	10.000
Congressional Add Subtotals for Project: S710	7.708	17.000
	9.635	-
Congressional Add Subtotals for Project: S725	9.635	-
	-	9.930
	4.057	2.397
	-	3.600
Congressional Add Subtotals for Project: S800	4.057	15.927
Congressional Add Totals for all Projects	29.754	45.327

Change Summary Explanation

Funding:

FY 2022: Net decrease of -\$1.196 million is due to the following: a transfer of funds to the congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs (-\$4.580 million); a decrease for reduced requirements for Next Generation Loud Speaker (NGLS) sonic protection (-\$0.790 million); a decrease for reduced requirement for Tactical Local Area Network (TACLAN) secure wireless HUB development (-\$0.330 million); a decrease to Maritime Precision Engagement-Munitions to support higher command priorities (-\$0.350 million); a decrease to Stand-Off

UNCLASSIFIED

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Precision Guided Munitions (SOPGM) due to a reprogramming of Congressional add funding inaccurately placed in RDT&E, Defense-Wide (DW), Program Element (PE) 1160431BB Warrior Systems, Project S800 Munitions Advanced Development to the correct RDT&E, DW, PE 1160434BB Unmanned ISR, Project S855 Unmanned ISR for Various Effects Launcher Capability (-\$15.416 million); an increase to support Fly-Away Broadcast System (FABS) broadcast dissemination platform development (\$0.885 million); an increase to support Counter Unmanned Aerial System (CUxS) to accelerate Roadrunner Group3 interceptor development, testing and operational assessment (\$19.150 million); an increase to support STC high frequency modernization (\$2.926 million); and a decrease to support Satellite Deployable Node critical emerging command requirements (-\$2.691 million).

FY 2023: Net increase of \$37.271 million is due to the following: a Congressional Add for Sensor/Effector Evaluation, Development & System/Platform Integration (\$8.400 million); a Congressional Add for SPEAR polyflouroalkyl substance/ perfluorooctanoic acid (PFAS/PFOA) free durable water repellent treatment (\$4.000 million); a Congressional Add for Identity Management (\$10.000 million); a Congressional reduction to a classified effort with details provided under separate cover (-\$7.996 million); a Congressional Add to develop GOPSS Aerial Loitering Munition (ALM) prototypes for advanced to limited production Other Transaction Authorities for Military User Assessments (\$9.930 million); accelerate the introduction of Project 901 into MSE (\$2.397 million); a Congressional Add to accelerate the completion of developmental test of the MPE-M configuration of the Block I Altius-700, support design, empower developmental engineering efforts and increase the amount of test assets available for flights to gain relevant data informing the Critical Design Review (\$3.600 million); a Congressional Add to develop next generation ISR SOF enhancements (\$7.000 million); and a Congressional General Reduction for Federally Funded Research and Development Centers (-\$0.060 million).

FY 2024: Net increase of \$125.887 million is due to the following: an increase in CUxS for acceleration of design, development, prototyping, and test of cutting edge technologies for integration into SOF's layered Family of Systems (FoS) approach to countering uncrewed systems with a focus on improved detection and defeat capabilities that adapt with and enable globally deployed SOF (\$8.670 million); an increase in SPEAR to support increases in material end item and testing costs (\$0.003 million); an increase for the USSOCOM's Unmanned Systems Autonomous Interoperability requirement (\$38.700 million); an increase for incremental expansion of core Mission Command System/Common Operational Picture (MCS/COP) services in support of the SOF Enterprise (\$9.000 million); an increase due to the transfer of SOMPE funding from RDT&E, DW, Program Element (PE) 1160403BB Aviation Systems; Project S750 Mission Training and Preparation Systems (\$22.103 million); an increase for details that will be provided under separate cover (\$8.621 million); an increase for STC efforts to develop Anti-Jam capabilities within Environment Waveform development in support of Next Generations radios (\$0.450 million); an increase to support the modernization of SOPGM weapons, to provide alternative terminal guidance enhancement in a contested/GPS denied capability to enable operations in a near peer environment, develop new precision strike missiles, and provide security (cyber/anti tamper) enhancements throughout the SOPGM portfolio (\$9.125 million); an increase due to the acceleration of Maritime Scalable Effects (MSE) projects initiated in FY 2022, as well as the implementation of Project 901 to MSE (\$2.459 million); an increase in Maritime Precision Engagement Munition (MPE-M) for Block II and Variant II development efforts (\$31.643 million); and an increase in GOPSS to support Hero 30 systems, Hero 120 systems, and Echelon 0 development efforts (\$3.186 million); an increase in Multi-Mission Electronic Countermeasures (MM-ECM) due to transition into advanced prototype development of Next Generation ECM competition, resulting in test article delivery for developmental testing (\$1.519 million); and a decrease in PSS due to rebaselining of funding into GOPSS and MPE-M beginning in FY 2024 (-\$9.592 million).

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command										Date: March 2023		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) D476 / <i>Military Information Support Operations</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
D476: <i>Military Information Support Operations</i>	58.917	3.200	5.371	3.500	-	3.500	3.434	3.503	3.573	3.644	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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

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

	FY 2022	FY 2023	FY 2024
<p>Title: Fly-Away Broadcast System (FABS), Program Number 753</p> <p>Description: The FABS is a third-generation radio, television, and cellular broadcast Family of Systems (FoS) that uses Government and industry standard technology to disseminate influence products to foreign target audiences using a wide range of frequencies and spectrums: AM, FM, SW, TV VHF, TV, UHF (in digital/analog formats), and cellular Multi-media Messaging Service/Short Message Service broadcasts. This capability serves to deter adversarial aggression and counters social/political propaganda that threaten the U.S vital interests in support of the 2022 National Defense Strategy. The Next Generation FABS is the Broadcast Dissemination Platform (BDP) which integrates additional capabilities to enhance MISO broadcast, reduces Size, Weight, and Power (SWAP), and consists of three variants (Light/Medium/Heavy).</p> <p>FY 2023 Plans: Complete development, test, and evaluation of the BDP-Light. Commence development, test, and evaluation of the BDP-Medium.</p> <p>FY 2024 Plans: Continues development, test, and evaluation of the BDP-Medium. Commences development, test, and evaluation of the BDP-Heavy.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Decrease of \$2.387 million is due to critical emerging command requirements.</p>	1.581	2.836	0.449
<p>Title: Next Generation Loud Speakers (NGLS), Program Number 764</p> <p>Description: The NGLS are transportable audio broadcast systems that provide the Psychological Operations (PSYOP) forces the ability to effectively reach target audiences with high quality transmissions in friendly, denied, hostile or deep territory.</p>	0.095	0.904	1.377

UNCLASSIFIED

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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>The NGLS requirements include six variants: Dismounted (D), Mounted (M), Scatterable Media (SM), Sonic Projection (SP), Unmanned Ground Vehicle (UGV), and Unmanned Aerial Vehicle (UAV).</p> <p>FY 2023 Plans: NGLS-SM: Continue development, test and evaluation. NGLS-SP Long Range: Continue development (Phase 3 SIBR). NGLS-SP Short Range: Commence development (Phase 2 SIBR).</p> <p>FY 2024 Plans: NGLS-SP Long Range: Continues development, test, and evaluation (Phase 3 SIBR). NGLS-SP Short Range: Continues development, test, and evaluation (Phase 2 SIBR). NGLS-D: Commences Generation 2 development, test, and evaluation.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.473 million is to support phase 2 development of NGLS-Dismounted to incorporate wireless capability and increase range.</p>				
<p>Title: Media Production Center (MPC), Program Number 765</p> <p>Description: 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>FY 2023 Plans: Continue incremental development, test and evaluation of emerging software applications.</p> <p>FY 2024 Plans: Continues incremental development, test and evaluation of emerging software applications.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.043 million supports the labor inflation costs associated with test and evaluation of new technologies.</p>		1.524	1.631	1.674
Accomplishments/Planned Programs Subtotals		3.200	5.371	3.500

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>

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

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PROC1/0204OTHER: <i>OTHER ITEMS <\$5M</i>	50.431	94.924	108.816	-	108.816	107.720	98.068	91.555	112.438	Continuing	Continuing

Remarks

None.

D. Acquisition Strategy

- The Fly Away Broadcast System (FABS) has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly field production quantities of systems to disseminate influence products to foreign target audiences using a wide range of frequencies and spectrums: AM, FM, SW, TV VHF, TV, UHF (in digital/analog formats), and cellular MMS/SMS broadcasts that require minimal development. The total cost of the FABS Middle Tier of Acquisition effort is \$22.515 million (FY 2024 to FY 2028), including Research, Development, Test & Evaluation (RDT&E) and procurement of prototype and production units. FABS is fully funded.
- The Next Generation Loud Speaker (NGLS) program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114- 92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly develop (Rapid Prototyping) prototypes demonstrating NGLS Dismounted (D), Mounted (M), Scatterable Media (SM), Sonic Projection (SP), Unmanned Ground Vehicle (UGV), and Unmanned Aerial Vehicle (UAV) capabilities. The total cost of the NGLS Middle Tier of Acquisition effort is \$5.268 million (FY 2024 to FY 2028), including Research, Development, Test & Evaluation (RDT&E) and procurement of prototype units. NGLS is fully funded.
- The MPC program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 513.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly develop, test, and evaluate advanced software applications via Government agencies and commercial sources. The total cost of the Media Production Center (MPC) Middle Tier of Acquisition effort is \$8.875 million, including RDT&E and procurement of prototype units. The MPC program is fully funded across the Future Years Defense Program.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command											Date: March 2023				
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>					Project (Number/Name) D476 / <i>Military Information Support Operations</i>				

Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Fly Away Broadcast Systems (FABS) - Broadcast Dissemination Platform (BDP) Light	MIPR	Various : Various	6.783	1.581	Nov 2021	1.836	Apr 2023	-		-		-	Continuing	Continuing	-
FABS BDP-Medium	MIPR	Various : Various	-	-		0.900	Jul 2023	0.199	Nov 2023	-		0.199	Continuing	Continuing	-
FABS BDP-Heavy	MIPR	Various : Various	-	-		-		0.200	Nov 2023	-		0.200	Continuing	Continuing	-
Next Generation Loud Speakers (NGLS) Scatterable Media Increment 2	Various	Various : Various	2.534	0.095	Jun 2022	0.804	Jun 2023	-		-		-	Continuing	Continuing	-
NGLS-D Generation 2 Dev	Various	Various : Various	-	-		-		1.277	Jan 2024	-		1.277	Continuing	Continuing	-
Media Production Center (MPC)	C/Various	Various : Various	1.653	1.424	Jan 2022	1.531	Jan 2023	1.574	Jan 2024	-		1.574	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	-
Subtotal			57.308	3.100		5.071		3.250		-		3.250	Continuing	Continuing	N/A

Remarks
MPC: Test and Evaluation: Developmental and Operational Test are combined events.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
FABS BDP-Light (Developmental/Operational Test)	MIPR	Various : Various	-	-		0.100	Aug 2023	-		-		-	Continuing	Continuing	-
FABS BDP-Medium (Developmental/Operational Test)	MIPR	Various : Various	-	-		-		0.050	Jun 2024	-		0.050	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

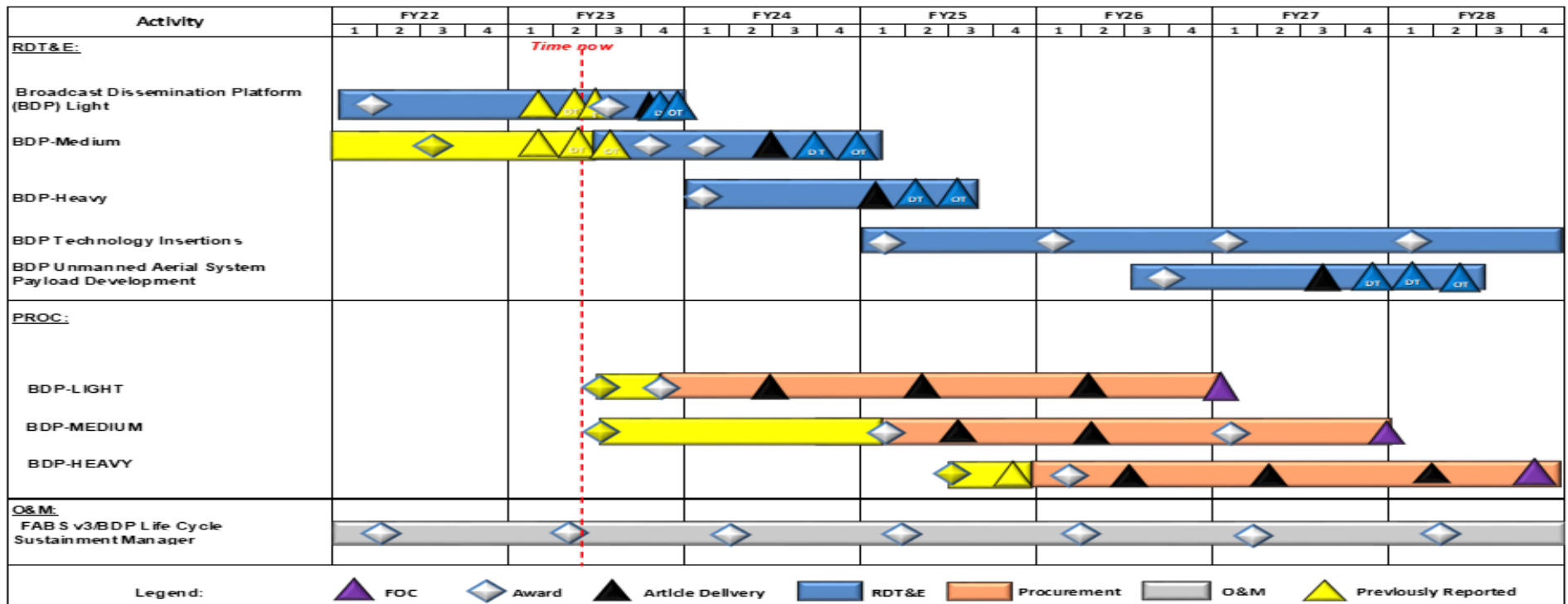
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

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

Fly Away Broadcast System (FABS) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

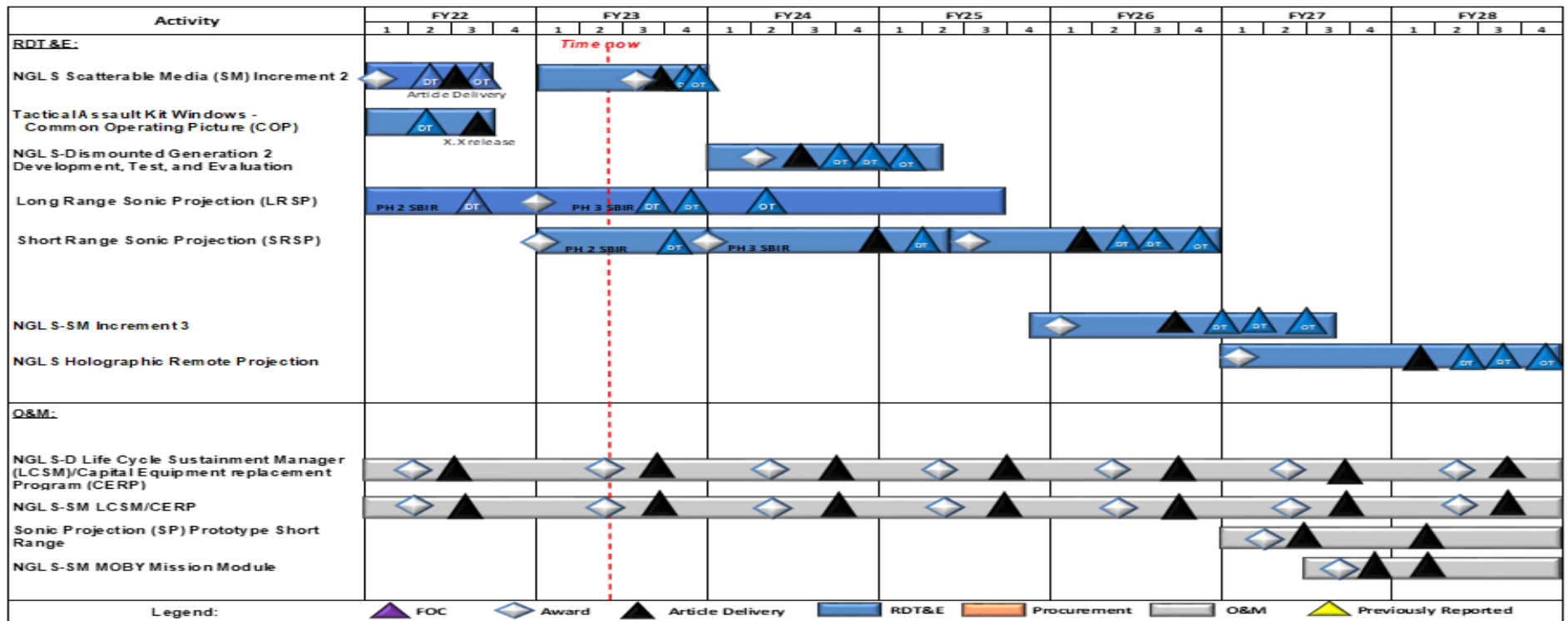
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

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

Next Generation Loudspeaker System (NGLS) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

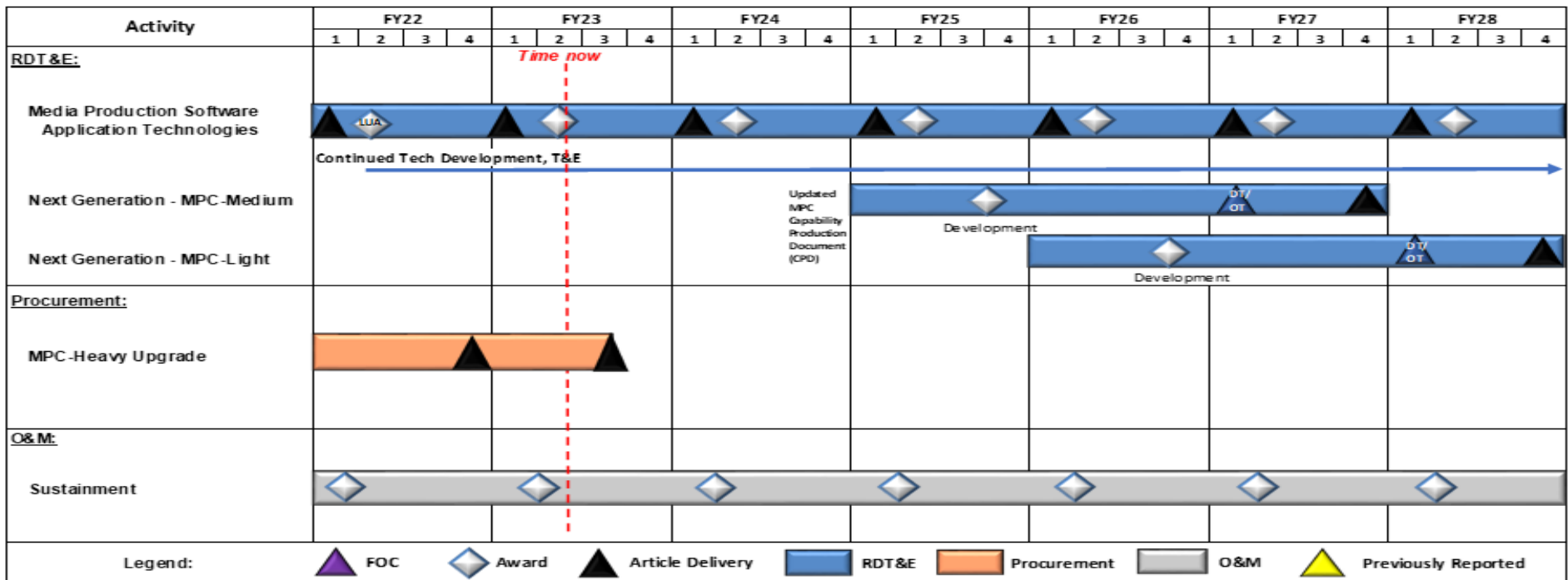
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

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

Media Production Center (MPC) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command			Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) D476 / <i>Military Information Support Operations</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Fly Away Broadcast Systems (FABS)</i>				
Broadcast Dissemination Platform (BDP) Light	1	2022	4	2023
BDP Medium	2	2023	1	2025
BDP Heavy	1	2024	3	2025
BDP Technology Insertions	1	2025	4	2028
BDP Unmanned Aerial System Payload Development	3	2026	3	2028
<i>Next Generation Loudspeakers (NGLS)</i>				
NGLS Scatterable Media (SM) Increment 2	1	2022	4	2023
Tactical Assault Kit Windows - Common Operating Picture (COP)	1	2022	3	2022
NGLS-Dismounted Generation 2 Development, Test, and Evaluation	1	2024	2	2025
Long Range Sonic Projection (LRSP)	1	2022	3	2025
Short Range Sonic Projection (SRSP)	1	2023	4	2026
NGLS-SM MOBY Mission Module	3	2025	2	2027
NGLS-SM Increment 3	4	2025	3	2027
NGLS Holographic Remote Projection	1	2027	4	2028
<i>Media Production Center (MPC)</i>				
Media Production Software Application Technologies	1	2022	4	2028
Next Generation - MPC - Medium	1	2025	4	2027
Next Generation - MPC - Light	1	2026	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S375 / <i>Weapons Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S375: <i>Weapons Systems</i>	9.195	1.459	1.518	1.592	-	1.592	1.619	1.642	1.675	1.709	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 Special Operations Forces (SOF). The efforts include the product improvements and testing of the Suppressed Upper Receiver Group (SURG), Advanced Sniper Rifle (ASR), Machine Gun (MG) Barrel, Mid-Range Gas Gun (MRGG), Personal Defense Kit / Reduced Signature Assault Rifle (RSAR), 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 for integrated deterrence by posturing to fight and win against current and emerging threats.

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

	FY 2022	FY 2023	FY 2024
Title: Weapons, Program Number 709	1.459	1.518	1.592
Description: 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.			
FY 2023 Plans: Perform safety and qualification testing and engineering change proposals of individual sniper, rifle, suppressors, machine gun weapons to support weapon reliability and performance enhancements.			
FY 2024 Plans: Continues to perform safety and qualification testing, engineering change proposals, and support of individual sniper, rifle, suppressor, and machine gun weapons.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.074 million supports developmental testing, Military User Assessments (MUAs), suppressor and Next Generation technologies and transitions development/innovation			
Accomplishments/Planned Programs Subtotals	1.459	1.518	1.592

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

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• PROC/0204WARRIOR: <i>Warrior Systems <\$5M</i>	372.695	352.629	329.837	-	329.837	358.318	356.504	373.828	363.178	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S375 / <i>Weapons Systems</i>

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

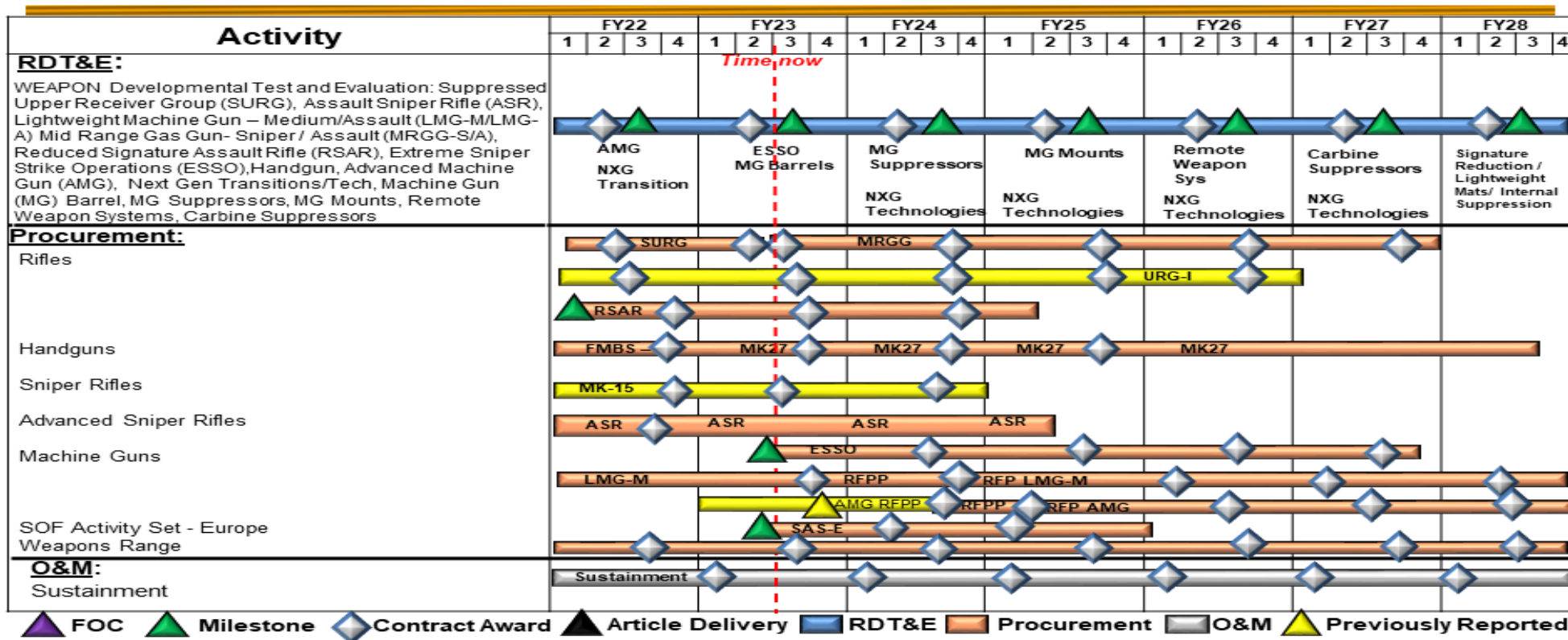
Evolutionary acquisition, leveraging emerging technology and rapid prototyping efforts when appropriate. An evolutionary approach delivers capability in increments, recognizing, up front, the need for future capability improvements. Full and open competition with Firm-Fixed Price contracts and Other Transaction Authorities (OTAs). Weapons/Target Engagement utilizes the Middle Tier of Acquisition (MTA) pathway for Rapid Prototyping/Rapid Fielding of new and automatic rifles providing increased lethality and to support capability set procurements and fielding.

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S375 / Weapons Systems

Weapon Systems Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command **Date:** March 2023

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Weapon Systems</i>				
Developmental Test & Evaluation: Suppressed Upper Receiver Group, Assault Sniper Rifle, Lightweight Machine Gun – Medium/ Assault Mid Range Gas Gun-Sniper / Assault, Reduced Signature Assault Rifle	1	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command										Date: March 2023		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S385: <i>Soldier Protection and Survival Systems</i>	55.573	41.594	29.316	27.283	-	27.283	26.064	26.358	26.788	27.388	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), including, but not limited to: individual survival equipment; Multi-Mission Electronic Countermeasures (MM-ECM); and Counter Unmanned Systems (aerial, ground and maritime); 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.

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

	FY 2022	FY 2023	FY 2024
<p>Title: SOF Personal Equipment Advanced Requirements (SPEAR), Program Number 807</p> <p>Description: The SPEAR program provides for research, development, testing and evaluation of a variety of individual survival equipment including, but not limited to ballistic and environmental protective combat uniforms, load carriage systems, body armor vest systems and communication headsets to protect operators defending the homeland in a multi-domain threat environment.</p> <p>FY 2023 Plans: Continue power and data management, wireless headsets, environmental protection and material testing.</p> <p>FY 2024 Plans: Continues power and data management, headsets, environmental protection, material testing and evaluations, and load carriage efforts</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.111 million supports required development, test and end user evaluation of SPEAR capabilities in emerging threat environments.</p>	2.870	2.951	3.062
<p>Title: Tactical Combat Casualty Care (TCCC), Program Number 809</p> <p>Description: 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 developed under the National Mission Force's Tactical Medical Programs. This campaigning capability, aligning to the 2022</p>	0.680	0.693	0.716

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>National Defense Strategy, provides significant ability to counter competitor coercion and lessen battlefield losses by providing timely, critical lifesaving and evacuation capabilities to the forward-deployed SOF operators.</p> <p>FY 2023 Plans: 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. Develop enhanced software to analyze blast overpressure information, conduct market surveys and test article acquisition, and developmental and operational test and evaluation of emerging neurocognitive assessment technologies.</p> <p>FY 2024 Plans: Continues the test support, market surveys, rapid prototyping, test article acquisition, test and evaluation, and systems engineering in direct support of the Operator Kit, Medic Kit, & CASEVAC programs with continued focus on enabling telemedicine with wireless patient sensors for seamless integration of patient information into the electronic medical record. Develops enhanced software to analyze blast overpressure information, conduct market surveys and test article acquisition, and developmental and operational test and evaluation of emerging neurocognitive assessment and diagnostic technologies.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.023 million is due to anticipated increase in material end item and test costs.</p>				
<p>Title: Multi-Mission Electronic Countermeasures (MM-ECM), Program Number 806</p> <p>Description: System modernization efforts have expanded the operational capabilities of MM-ECM equipment across multiple Special Operations Forces (SOF) mission areas, including force protection, counter-uncrewed systems, and counter weapons of mass destruction. The USSOCOM uses ground (mounted/dismounted) based jammers to provide MM-ECM capabilities to counter Radio Frequency (RF) controlled devices and cellular threats. This program provides scalable MM-ECM systems whose configuration and modularity address multiple mission critical capabilities to counter this threat globally. To stay ahead of emerging threats, the USSOCOM has historically developed advanced techniques on an annual basis. Through strategic partnerships with the Services, and other government agencies, the USSOCOM vastly improved program affordability while maintaining Joint Force compatibility. All Next Generation MM-ECM is designed to support multiple SOF missions in integrated deterrence including force protection, Countering Weapons of Mass Destruction, and Counter-Uncrewed Systems (CUxS), while maintaining combat-credible forces and cost effective Counter Violent Extremist Organization (CVEO) capabilities.</p> <p>FY 2023 Plans: Continue developmental and operational test support to the MM-ECM program. Continue system engineering, test and evaluation, test article acquisition, prototyping and development of Next Generation ECM. Continue development and testing of ECM systems capability to include advanced software technique countermeasures and loadsets for mounted and dismounted systems. Efforts</p>		3.858	7.398	8.776

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>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>FY 2024 Plans: Continues system engineering, test article acquisition, prototyping and development of Next Generation ECM for follow-on Developmental Test (DT)/Operational Test (OT) and production in FY 2025. Continues development of MM-ECM systems capabilities to include advanced software technique countermeasures, loadsets, and mission kits for mounted and dismounted systems. Continues DT and OT of advanced techniques, loadsets, and mission kits developed for the MM-ECM program.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$1.378 million supports transition into advanced prototype development of Next Generation ECM competition, resulting in test article delivery for developmental testing.</p>			
<p>Title: Counter Uncrewed Aerial System (CUxS), Program Number 717</p> <p>Description: SOF CUxS, formerly Counter Unmanned Aerial Systems (CUAS), enhances the Special Operations Forces (SOF) operator's ability to detect, identify, classify, locate, track, deter, defeat, and exploit uncrewed system threats. The USSOCOM is taking a holistic approach to countering uncrewed threats across the air, ground, and maritime domains, with initial emphasis towards uncrewed aerial threats. The funding request for this program supports a Family of Systems (FoS) design, development, integration, prototyping, and test of cutting edge technologies that deliver and integrate various capabilities including, but not limited to, interceptors, Radio Frequency detection and defeat, other passive detection/defeat, radar, and electro-optical and infrared (EO/IR) to build enduring advantages and to rapidly adjust to new strategic demands in support of the 2022 National Defense Strategy. SOF CUxS requires maximum autonomy, low signature, and reduced size, weight, and power demands to enable SOF missions.</p> <p>FY 2023 Plans: 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). Complete initial fielding and deployment release testing of proven capabilities for entry into program of record.</p> <p>FY 2024 Plans: Continues sensor and effector evaluation and development for integration into SOF's layered FoS for mounted, dismounted, and expeditionary fixed-site configurations. Continues System Integration / Platform Integration of CUxS capabilities, with emphasis on improved detection/defeat capabilities and expanded networking/interoperability. Continues annual developmental and operational testing in support of fielding and deployment release updates of proven capabilities for entry into program of record.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>	24.156	4.128	12.897

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Increase of \$8.769 million is due to additional design, development, prototyping, testing, and operational assessment of CUxS sensors / effectors for integration into SOF's layered FoS with a focus on improved detection and defeat capabilities. This includes additional test and evaluation for National to Theater transition of CUxS capabilities.			
Title: Personal Signature Management (PSM)	1.676	1.746	1.832
Description: The PSM program provides for development, test & evaluation, fielding and sustainment of signature reducing technology and training in order to reduce the probability of detection of the individual operator against current and emerging battlefield threat sensors.			
FY 2023 Plans: Continue baseline testing against advanced threat sensors, development of threat sensor detector, and initiate development of next generation signature reducing material solution and training.			
FY 2024 Plans: Continues the material development and test and evaluation of next generation signature reducing materials and threat sensor detectors.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.086 million is due to multiple planned field evaluations of threat sensor detector systems in operationally relevant environments.			
Accomplishments/Planned Programs Subtotals	33.240	16.916	27.283

	FY 2022	FY 2023
Congressional Add: CUxS	8.354	8.400
FY 2022 Accomplishments: Conducted Concept of Operations (CONOP) package optimization of Expeditionary Fixed Site configurations for new integrations via the SIP.		
FY 2023 Plans: CUxS Sensor/Effector Evaluation, Development & System/Platform Integration.		
Congressional Add: SPEAR	-	4.000
FY 2023 Plans: Development of polyflouroalkyl substance/perfluorooctanoic acid (PFAS/PFOA) free materials for incorporation into uniform systems.		
Congressional Adds Subtotals	8.354	12.400

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

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

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PROC/0204WARRIOR: <i>Warrior Systems <\$5M</i>	372.695	352.629	329.837	-	329.837	358.318	356.504	373.828	363.178	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. SPEAR utilizes the Middle Tier of Acquisition (MTA) pathway for Rapid Fielding to support capability fielding of new ballistic and environmental protective combat uniforms; load carriage systems; communications headsets; and visual augmentation system mounts providing increased survivability.

TCCC: Operator & Medic Kits - Program managed utilizing Defense Logistics Agency Distribution and Pricing Agreements (DAPA) prime vendor contracts for equipment purchases and Special Operations Forces Support Activity (SOFSA) for warehousing and sustainment. The CASEVAC Set program uses an IDIQ Commercial-Off-The-Shelf (COTS) prime integrator contract. TCCC utilizes the MTA pathway for Rapid Prototyping/Rapid Fielding of FDA approved medical items that support extraction, mobility, transportation, and sustainment of casualties in forward areas for increased survivability. The current acquisition approach utilizes the MTA Rapid Fielding pathway to support capability set procurements and fielding.

MM-ECM: The USSOCOM collaborates with the Department of Defense 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 CUxS, 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 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. The MM-ECM program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly field production quantities of modernization kits for existing mounted and dismounted systems. In addition, the MTA pathway is used to rapidly develop prototypes demonstrating next generation ECM capabilities to counter Radio Frequency (RF) controlled devices and cellular threats for increased survivability against expanding spectrums and threats.

CUxS: The USSOCOM works in concert with its Systems Integration Partner (SIP) to 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 uncrewed systems threats. SOF CUxS requires maximum autonomy, low signature, and reduced size, weight, and power demands to enable SOF missions. The USSOCOM collaborates with the Joint CUxS Office (JCO), Academia, and other government agencies for solutions and to maintain interoperability and cost effectiveness to the fullest extent. The USSOCOM will continue to leverage the SOF-to-Service transition of proven capabilities where possible. The CUxS program has been designated a Middle Tier of Acquisition

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

(MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly field production quantities of proven sensors/effectors and integration packages. In addition, the MTA pathway is used to rapidly develop prototypes demonstrating increased capabilities and performance across the CUXS kill chain for insertion into the SOF FoS.

PSM: Signature reducing technologies will be embedded, where possible, into SOF clothing and/or 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. PSM utilizes the MTA pathway for Rapid Prototyping/Rapid Fielding to support capability fielding of signature reducing materials and technology in order to reduce the probability of detection by battlefield threat sensors for increased survivability.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOF Personal Equipment Advanced Requirements (SPEAR) - Protective Combat Uniform (PCU)	Various	PM-SSES : Natick, MA	1.081	0.363	Feb 2022	0.411	May 2023	0.450	May 2024	-		0.450	Continuing	Continuing	-
SPEAR - Hearing Protection and Communications Headsets	Various	PM-SSES : Natick, MA	1.676	0.300	Feb 2022	0.300	Feb 2023	0.400	Feb 2024	-		0.400	Continuing	Continuing	-
SPEAR Modular Glove System (MGS)	Various	PM-SSES : Natick, MA	0.085	0.030	Feb 2022	0.030	May 2023	0.050	May 2024	-		0.050	Continuing	Continuing	-
SPEAR - Load Carriage System (LCS) and Backpacks	Various	PM-SSES : Natick, MA	0.197	0.100	Feb 2022	0.100	May 2023	0.050	May 2024	-		0.050	Continuing	Continuing	-
SPEAR - Power and Data Management	Various	PM-SSES : Natick, MA	-	0.686	Apr 2022	0.719	Mar 2023	0.900	Mar 2024	-		0.900	Continuing	Continuing	-
SPEAR - Polyfluoroalkyl substance/ perfluorooctanoic acid (PFAS/PFOA) - Congressional Add	C/Various	PM-SSES : Natick, MA	-	-		3.700	May 2023	-		-		-	0.000	3.700	-
Multi-Mission Electronic Countermeasures (MM-ECM) - Next Generation System Development	C/Various	Various : Various	-	2.327	Jun 2022	5.549	Jun 2023	7.269	Jun 2024	-		7.269	0.000	15.145	-
MM-ECM Advanced Techniques/Loadset/ Mission Kit Development	C/Various	Various : Various	14.206	1.531	Mar 2022	1.250	Mar 2023	1.250	Mar 2024	-		1.250	Continuing	Continuing	-
Counter Unmanned System (CUxS) Sensor/ Effector Evaluation & Development	C/FFP	Anduril Industries : Costa Mesa, CA	-	14.500	Dec 2022	-		-		-		-	0.000	14.500	-
CUxS Sensor/Effector Evaluation & Development Overseas Operations Costs (OOC)	C/Various	Various : Various	2.551	1.955	Mar 2022	1.411	Jun 2023	4.250	Dec 2023	-		4.250	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CUxS System Integration / Platform Integration	C/Variou	Various : Various	-	4.461	Jan 2023	-		-		-		-	0.000	4.461	-
CUxS System Integration / Platform Integration OOC	C/FFP	Anduril Industries : Costa Mesa, CA	-	1.734	Mar 2023	1.250	Jun 2024	6.250	Jun 2024	-		6.250	Continuing	Continuing	-
CUxS Sensor/Effector Evaluation & Development Congressional Add	C/FFP	Anduril Industries : Costa Mesa, CA	-	2.285	Jun 2022	6.400	May 2023	-		-		-	0.000	8.685	-
CUxS System Integration / Platform Integration Congressional Add	C/FFP	Anduril Industries : Costa Mesa, CA	-	6.069	Jul 2022	2.000	Jul 2023	-		-		-	0.000	8.069	-
Personal Signature Management (PSM) Development (Inc II and III)	Variou	Various : Various	2.376	0.700	Dec 2022	0.675	Apr 2023	1.150	May 2024	-		1.150	Continuing	Continuing	-
Prior Years	Variou	Various : Various	1.656	-		-		-		-		-	0.000	1.656	-
Prior Years - Overseas Contingency Operations (OCO)	Variou	Various : Various	10.820	-		-		-		-		-	0.000	10.820	-
Prior Years Congressional Add	C/Variou	Various : Various	1.500	-		-		-		-		-	0.000	1.500	-
Subtotal			36.148	37.041		23.795		22.019		-		22.019	Continuing	Continuing	N/A

Remarks

Note: For the C-UxS Emerging Threat /Advanced Technology Development Systems Integration Partner effort there are two product development cost category items that provide separate obligation events planned in FY 2024, the 1st QTR award (December-2023) for detection system advancements/software techniques and the 3rd QTR award (June-2024) for operationally prioritized sensor/effector development/upgrades and corresponding integration efforts.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SPEAR - PCU Pre-Planned Product Improvement	Variou	PM-SSES : Natick, MA	0.529	0.075	Mar 2022	0.075	Apr 2023	0.100	Mar 2024	-		0.100	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test and Evaluation															
SPEAR - PCU Pre-Planned Product Improvement Operational Test and Evaluation	Various	PM-SSES : Natick, MA	0.176	0.025	Mar 2022	0.025	Apr 2023	0.050	Mar 2024	-		0.050	Continuing	Continuing	-
SPEAR - MGS Operational Test and Evaluation	Various	PM-SSES : Natick, MA	0.154	0.045	Feb 2022	0.045	Feb 2023	0.020	Feb 2024	-		0.020	Continuing	Continuing	-
SPEAR - Hearing Protection and Communication Headset Operational Test & Evaluation	Various	PM-SSES : Natick, MA	2.098	0.162	Mar 2022	0.162	Mar 2023	0.115	Mar 2024	-		0.115	Continuing	Continuing	-
SPEAR - LCS/Body Armor Vest/Backpack Material and Prototype Operational Test and Evaluation	Various	PM-SSES : Natick, MA	0.260	0.095	Feb 2022	0.095	Feb 2023	0.075	Feb 2024	-		0.075	Continuing	Continuing	-
SPEAR - Power and Data Management Developmental Test and Evaluation	Various	PM-SSES : Natick, MA	-	0.889	Apr 2022	0.889	Apr 2023	0.752	Apr 2024	-		0.752	Continuing	Continuing	-
SPEAR - Power and Data Management Operational Test and Evaluation	Various	PM-SSES : Natick, MA	-	0.100	Apr 2022	0.100	Apr 2023	0.100	Apr 2024	-		0.100	Continuing	Continuing	-
SPEAR - PFAS/PFOA Developmental Test and Evaluation Congressional Add	C/Various	PM-SSES : Natick, MA	-	-		0.200	May 2023	-		-		-	0.000	0.200	-
SPEAR - PFAS/PFOA) Operational Test and Evaluation Congressional Add	C/Various	PN-SSES : Natick, MA	-	-		0.100	May 2023	-		-		-	0.000	0.100	-
Tactical Combat Casualty Care (TCCC) CASEVAC	Various	PM-SSES : Natick, MA	2.191	0.259	Feb 2022	0.205	Feb 2023	0.215	Feb 2024	-		0.215	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

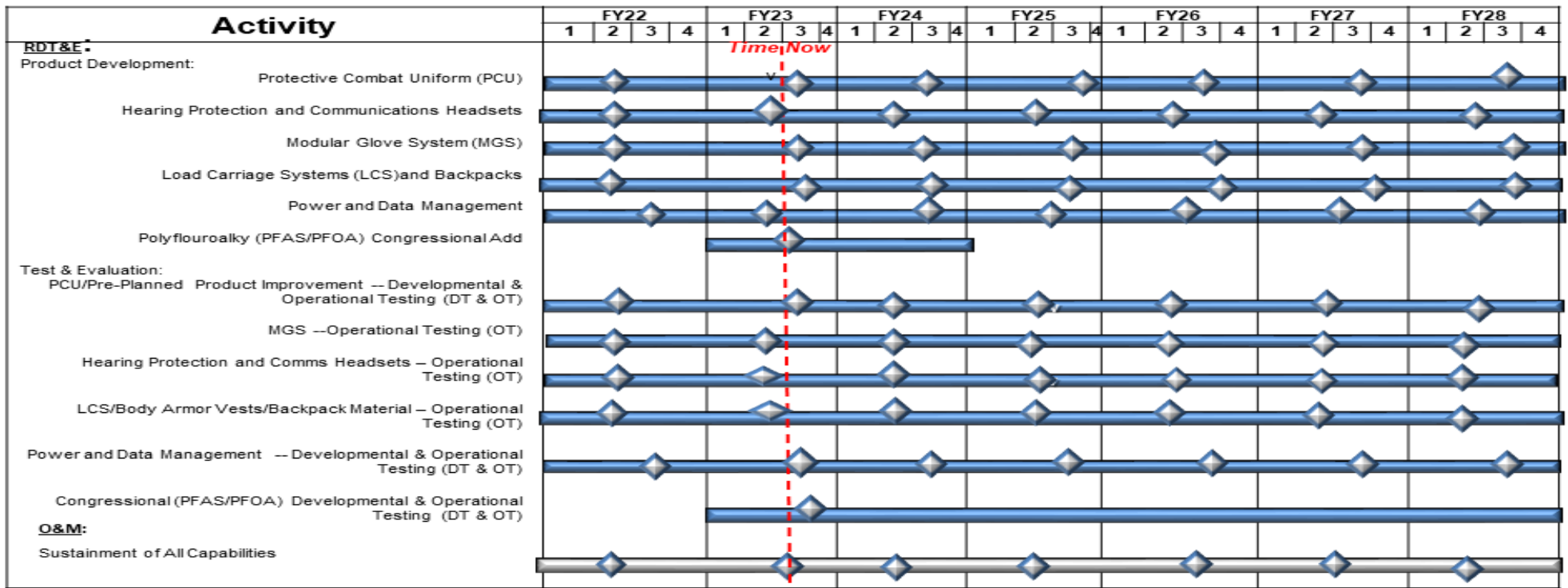
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S385 / Soldier Protection and Survival Systems</i>
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Sets Operational Test & Evaluation															
TCCC Brain Health Developmental Test & Evaluation	C/Variou	PM-SSES : Natick, MA	-	0.421	Feb 2022	0.488	Feb 2023	0.501	Feb 2024	-		0.501	Continuing	Continuing	-
MM-ECM Advanced Techniques/Loadset/ Mission Kit Developmental Test and Evaluation	C/Variou	Various : Various	4.735	-		0.524	Mar 2023	0.182	Mar 2024	-		0.182	Continuing	Continuing	-
MM-ECM Advanced Techniques/Loadset/ Mission Kit Operational Test and Evaluation	C/Variou	Various : Various	-	-		0.075	Mar 2023	0.075	Mar 2024	-		0.075	Continuing	Continuing	-
CUxS Developmental Test and Evaluation	C/Variou	Various : Various	1.000	0.770	Nov 2011	-		-		-		-	0.000	1.770	-
CUxS Developmental Test and Evaluation OOC	C/Variou	Various : Various	-	-		0.750	Nov 2022	1.240	Nov 2023	-		1.240	Continuing	Continuing	-
CUxS Operational Test and Evaluation	MIPR	White Sands Missile Range, White Sands Test Center (WSMR/ WSTC) : WSMR, NM	0.500	0.736	Jan 2022	-		-		-		-	0.000	1.236	-
CUxS Operational Test and Evaluation OOC	MIPR	White Sands Missile Range, White Sands Test Center (WSMR/ WSTC) : WSMR, NM	-	-		0.717	Nov 2022	1.157	Nov 2023	-		1.157	Continuing	Continuing	-
PSM Developmental Test and Evaluation	Variou	Various : Various	2.513	0.976	Jan 2022	1.071	Jan 2023	0.682	Nov 2023	-		0.682	Continuing	Continuing	-
Prior Years	Variou	Various : Various	1.091	-		-		-		-		-	0.000	1.091	-
Prior Years (OCO)	Variou	Various : Various	4.178	-		-		-		-		-	0.000	4.178	-
Subtotal			19.425	4.553		5.521		5.264		-		5.264	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

Special Operations Forces Personal Equipment Advanced Requirements (SPEAR) Schedule



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

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

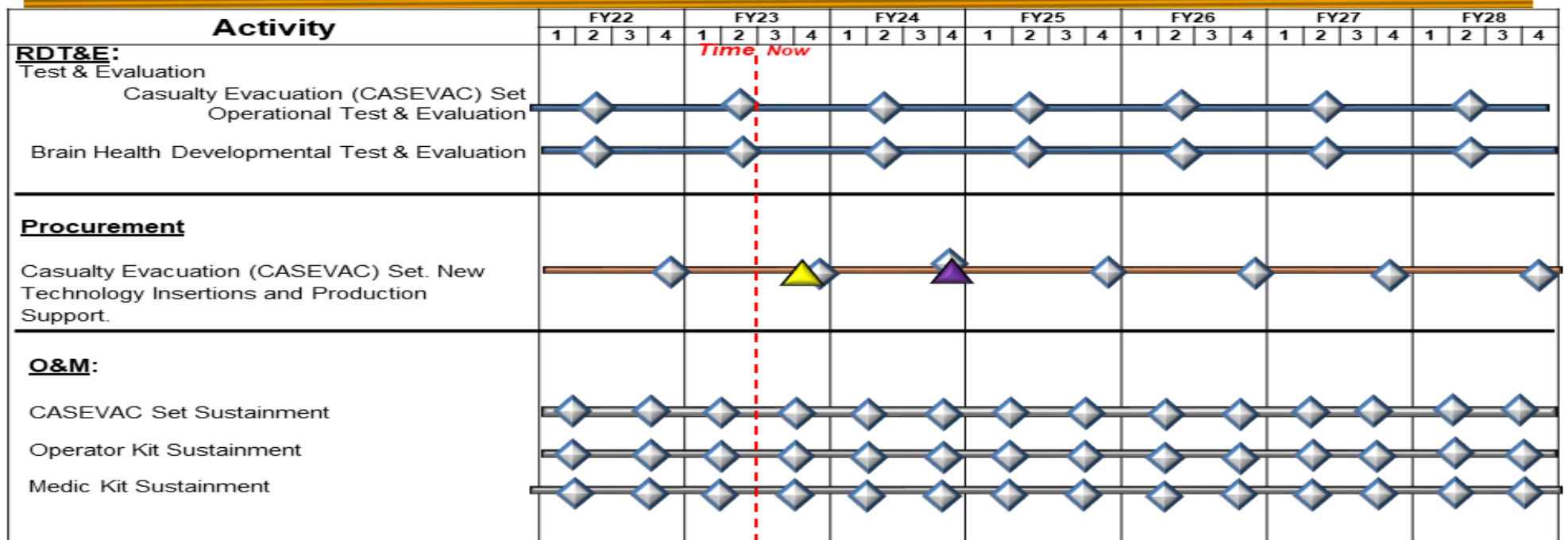
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

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

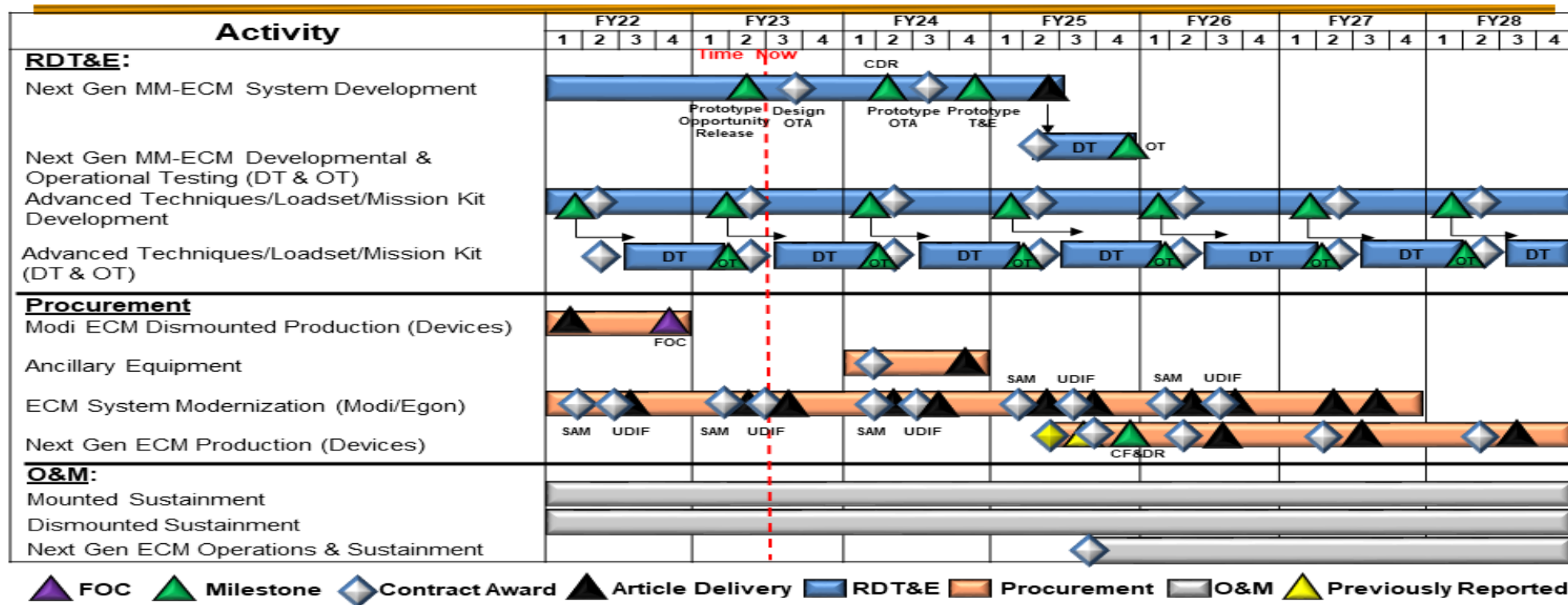
Tactical Combat Casualty Care (TCCC) Schedule



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

Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

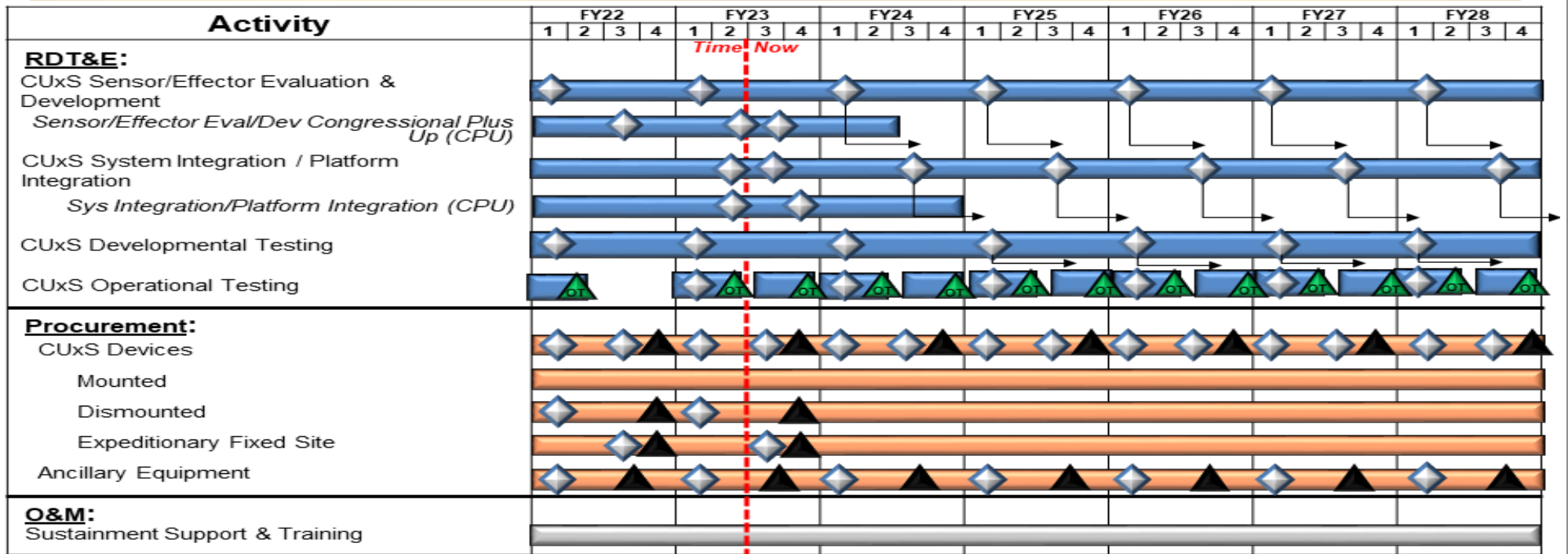
Multi-Mission Electronic Countermeasures (MM-ECM) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>

Counter Unmanned Systems Schedule (CUxS)

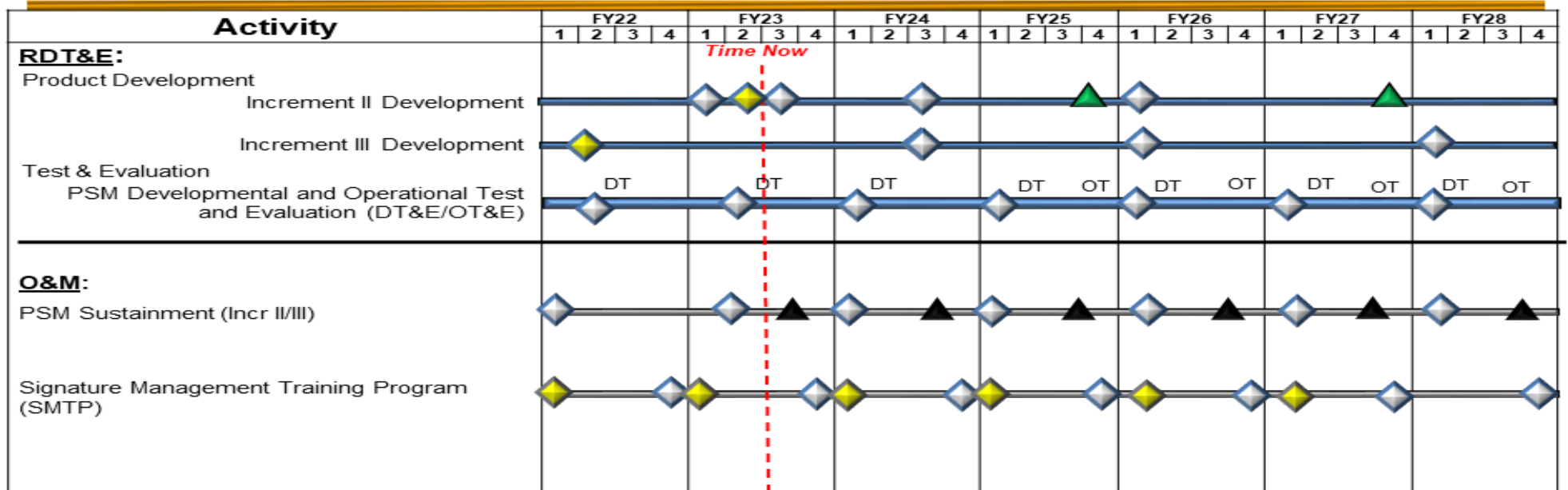


▲ FOC
 ▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S385 / Soldier Protection and Survival Systems

Personal Signature Management (PSM) Schedule



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

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command			Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Soldier Protection and Survival Systems (SPEAR)</i>				
Protective Combat Uniform (PCU) Product Development	1	2022	4	2028
Hearing Protection & Comms Headsets Product Development	1	2022	4	2028
Modular Glove System (MGS) Product Development	1	2022	4	2028
Load Carriage System (LCS) and Backpacks Product Development	1	2022	4	2028
Power and Data Management Product Development	1	2022	4	2028
Polyflouroalkyl substance/ perfluorooctanoic acid (PFAS/PFOA) Product Development Congressional Add	1	2023	4	2028
PCU Developmental and Operational Test & Evaluation	1	2022	4	2028
MGS Operational Test & Evaluation	1	2022	4	2028
Hearing Protection & Communications Headsets Operational Test & Evaluation	1	2022	4	2028
LCS/Backpack/Body Armor Vest Operational Test & Evaluation	1	2022	4	2028
Power and Data Management Developmental and Operational Test & Evaluation	1	2022	4	2028
PFAS/PFOA Developmental and Operational Test & Evaluation Congressional Add	1	2023	4	2028
<i>Tactical Combat Casualty Care (TCCC)</i>				
Casualty Evacuation (CASEVAC) Sets Operational Test & Evaluation	1	2022	4	2028
Brain Health Developmental Test and Evaluation	1	2022	4	2028
<i>Multi-Mission Electronic Countermeasures (MM-ECM)</i>				
Next Generation System Development - Product Development	1	2022	2	2025
Next Generation Developmental and Operational Test & Evaluation	1	2025	4	2025
Advanced Techniques/Loadsets/Mission Kit Development - Product Development	1	2022	4	2028
Advanced Techniques/Loadset/Mission Kit Developmental and Operational Test & Evaluation	2	2022	4	2028

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385 / <i>Soldier Protection and Survival Systems</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Counter Unmanned Aerial System (CUxS)</i>				
Sensor/Effector Evaluation & Development	1	2022	4	2028
System Integration / Platform Integration	1	2022	4	2028
System Integration/Platform Integration Product Development Congressional Add	1	2022	4	2024
Sensor/Effector Evaluation Product Development Congressional Add	1	2022	4	2024
Developmental Test and Evaluation	1	2022	4	2028
Operational Test and Evaluation	1	2022	4	2028
<i>Personnel Signature Management (PSM)</i>				
Increment II Development	1	2022	4	2028
Increment III Development	1	2022	4	2028
Developmental and Operational Test & Evaluation	1	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command										Date: March 2023		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S385A: <i>Body Armor and Associated Equipment</i>	11.270	1.622	1.688	1.773	-	1.773	1.800	1.825	1.862	1.899	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)

	FY 2022	FY 2023	FY 2024
Title: SOF Personal Equipment Advanced Requirement (SPEAR)-Ballistic Protection, Program Number 807	1.622	1.688	1.773
Description: This project enhances the SPEAR program by supporting body armor, helmets, and eye protection. It also provides for the research, development, and testing of a variety of body armor and personal protective equipment to build enduring advantages through modernization, innovation, and rapid adjustments to new strategic demands.			
FY 2023 Plans: Continue foreign ammunition testing and threat validation to assess effectiveness of currently fielded personal protective equipment. Continue development and testing of lightweight body armor and helmets (ground, maritime, rotary wing) 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.			
FY 2024 Plans: Continues foreign ammunition testing and threat validation to assess effectiveness of currently fielded personal protective equipment. Continues development and testing of lightweight body armor and helmets (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.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.085 million is due to the anticipated increase in material and test costs.			
Accomplishments/Planned Programs Subtotals	1.622	1.688	1.773

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</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 <\$5M</i>	372.695	352.629	329.837	-	329.837	358.318	356.504	373.828	363.178	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 the 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. The USSOCOM has cradle to grave responsibility for these items and uses the SOF Support Activity at Lexington, KY for warehousing and sustainment. 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. The SPEAR ballistic protection utilizes the Middle Tier of Acquisition (MTA) pathway for Rapid Prototyping/Rapid Fielding for increased survivability to support capability set procurements and fielding.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>
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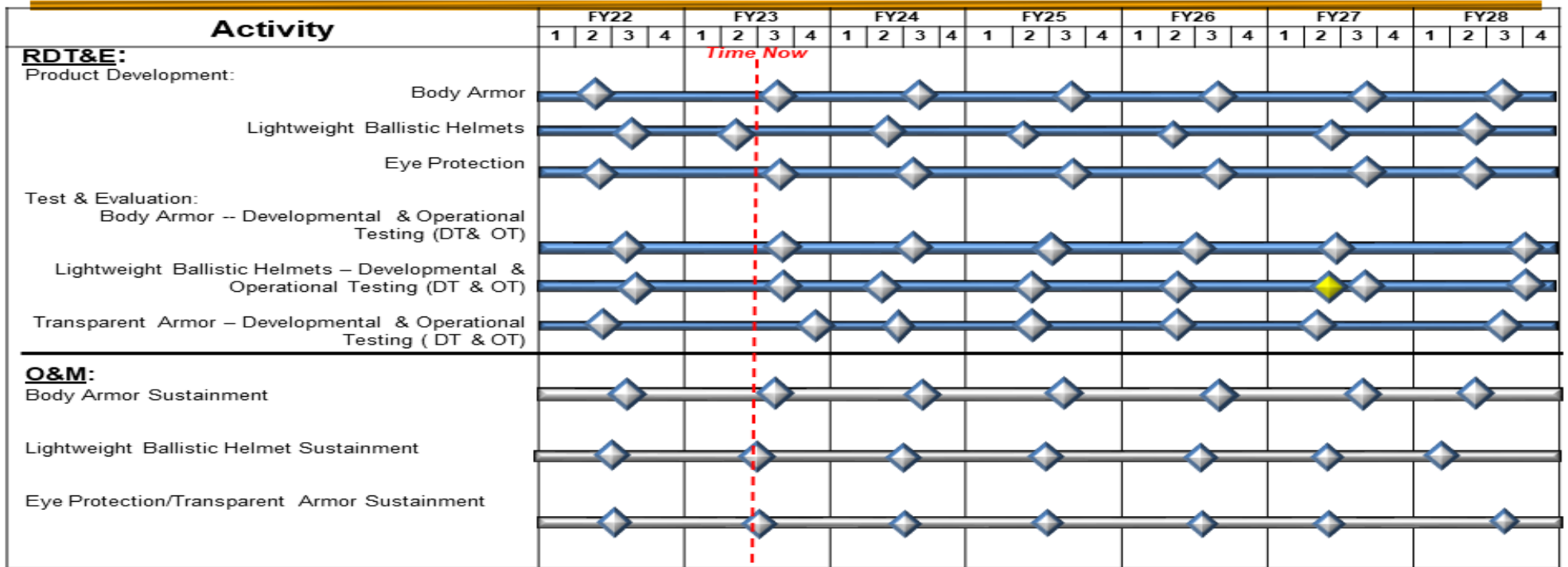
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOF Personal Equipment Advanced Requirement (SPEAR) - Body Armor	Various	PM-SSES : Natick, MA	3.414	0.556	Feb 2022	0.325	Jun 2023	0.639	Jun 2024	-		0.639	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmets	Various	PM-SSES : Natick, MA	2.464	0.390	May 2022	0.625	Feb 2023	0.339	Feb 2024	-		0.339	Continuing	Continuing	-
SPEAR - Eye Protection	Various	PM-SSES : Natick, MA	0.457	0.060	Mar 2022	0.173	Jun 2023	0.187	Jun 2024	-		0.187	Continuing	Continuing	-
Subtotal			6.335	1.006		1.123		1.165		-		1.165	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SPEAR - Body Armor Developmental Test and Evaluation	Various	PM-SSES : Natick, MA	2.579	0.316	May 2022	0.125	May 2023	0.364	May 2024	-		0.364	Continuing	Continuing	-
SPEAR - Body Armor Operational Test and Evaluation	Various	PM-SSES : Natick, MA	-	-		0.025	May 2023	-		-		-	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmet Developmental Test and Evaluation	Various	PM-SSES : Natick, MA	2.004	0.260	Apr 2022	0.350	Apr 2023	0.134	Mar 2024	-		0.134	Continuing	Continuing	-
SPEAR - Lightweight Ballistic Helmet Operational Test and Evaluation	Various	PM-SSES : Natick, MA	-	-		-		0.030	Mar 2024	-		0.030	Continuing	Continuing	-
SPEAR - Transparent Armor Developmental Test and Evaluation	Various	PM-SSES : Natick, MA	0.352	0.040	Mar 2022	0.065	Jul 2023	0.070	Mar 2024	-		0.070	Continuing	Continuing	-
SPEAR - Transparent Armor Operational Test and Evaluation	Various	PM-SSES : Natick, MA	-	-		-		0.010	Mar 2024	-		0.010	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>

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



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

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S385A / <i>Body Armor and Associated Equipment</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SOF Personal Equipment Advanced Requirement (SPEAR)-Body Armor</i>				
Body Armor Product Development	1	2022	4	2028
Lightweight Ballistic Helmets Product Development	1	2022	4	2028
Eye Protection Product Development	1	2022	4	2028
Body Armor Developmental and Operational Test & Evaluation	1	2022	4	2028
Lightweight Ballistic Helmets Developmental and Operational Test & Evaluation	1	2022	4	2028
Transparent Armor Developmental and Operational Test & Evaluation	1	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command										Date: March 2023		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S395: <i>Visual Augmentation, Lasers and Sensor Systems</i>	18.904	4.864	4.990	5.152	-	5.152	5.188	5.198	5.301	5.407	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)

	FY 2022	FY 2023	FY 2024
Title: Visual Augmentation Systems (VAS), Program Number 810	4.862	4.517	4.662
<p>Description: Sensor technologies being developed include image intensification thermal imaging, short wave infrared, multi-spectral, fusion, and other sensor types. Developments will decrease weight, increase range, increase situational awareness, provide data, image processing, image filtering, determine wind speed, observe bullet trace, and sensor fusion to be able to detect, identify, classify and engage targets at greater ranges to build enduring advantages and undertake campaigning initiatives aimed at advancing well-defined strategy-aligned priorities. Some efforts may be tied to HEO.</p> <p>FY 2023 Plans: Continue development and testing of visual augmentation systems and laser devices to improve situational awareness, sharing of data/images, target acquisition, and training. Continue 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>FY 2024 Plans: Continues development and testing of visual augmentation systems and laser devices 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>FY 2023 to FY 2024 Increase/Decrease Statement:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Increase of \$0.145 million is due to anticipated increases in material end items and testing costs.			
Title: VAS Simulator, Program Number 810	0.002	0.473	0.490
Description: Develop and field virtual training systems that simulate real-world combat missions designed to test and evaluate the individual SOF Terminal Attack Controller's ability to plan, coordinate and execute; air-to ground, indirect fire, surface fire support, and manned/unmanned assets in contingency/combat operations. These simulators are critical assets that enable the requalification, currency, proficiency, and pre-mission training of these specialized SOF operators to reduce the risk of fratricide when utilizing live ordnance. Immersive, Desktop and Deployable configurations are required.			
FY 2023 Plans: Continue development and testing of Immersive, Desktop and Deployable systems to ensure simulators provide approved scenarios to fully evaluate the SOF operator's ability to evaluate a given set of conditions and correctly engage available assets to support ground forces engaged with enemy combatants. Ensure systems are compatible with other Service systems and maintain the same baseline software configuration and Emulated Military Equipment (EME) packages to maintain consistent training across the force.			
FY 2024 Plans: Continues development and testing of Immersive, Desktop and Deployable systems to ensure simulators provide approved scenarios to fully evaluate the SOF operator's ability to evaluate a given set of conditions and correctly engage available assets to support ground forces engaged with enemy combatants. Ensures systems are compatible with other Service systems and maintain the same baseline software configuration and EME packages to maintain consistent training across the force.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.017 million is due to anticipated increases in material end items.			
Accomplishments/Planned Programs Subtotals	4.864	4.990	5.152

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems<\$5M</i>	372.695	352.629	329.837	-	329.837	358.318	356.504	373.828	363.178	Continuing	Continuing

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

D. Acquisition Strategy

Evolutionary acquisition and leveraging emerging technologies. An evolutionary approach delivers capability in increments, recognizing up front the need for future capability improvements. Full and open competition contracts are a combination of five-year Firm Fixed Price, Indefinite Delivery Indefinite Quantity and small business set asides at several locations, primarily via Naval Surface Warfare Center, Crane Contracting Office, the USSOCOM Contracting Office, and other contracting offices. VAS utilizes the Middle Tier of Acquisition (MTA) pathway for Rapid Prototyping/Rapid Fielding to support capability set procurements and fielding for increased survivability.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Visual Augmentation Systems (VAS) Laser and Optic	C/CPFF	USSOCOM : Tampa, FL	11.369	0.284	Mar 2022	2.539	Jan 2023	4.062	Feb 2024	-		4.062	Continuing	Continuing	-
VAS Miniature Aiming Systems-Night Sights (MAS-N Squad Short) Development	C/CPFF	USSOCOM : Tampa, FL	-	1.600	Sep 2022	-		-		-		-	0.000	1.600	-
VAS Digital Reflex Sight (DRS) Development	C/CPFF	USSOCOM : Tampa, FL	-	-		0.800	Aug 2023	-		-		-	0.000	0.800	-
VAS Hyper-Enabled Awareness Kit (HEAK) Development	C/CPFF	USSOCOM : Tampa, FL	-	2.300	Apr 2022	-		-		-		-	0.000	2.300	-
VAS Day-And-Night Heads-Up Display (DANHUD)	C/CPFF	USSOCOM : Tampa, FL	-	-		1.000	May 2023	-		-		-	0.000	1.000	-
VAS Simulator	C/CPFF	USSOCOM : Tampa, FL	1.973	0.480	Apr 2022	0.481	Feb 2023	0.490	May 2024	-		0.490	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	-
Subtotal			17.509	4.664		4.820		4.552		-		4.552	Continuing	Continuing	N/A

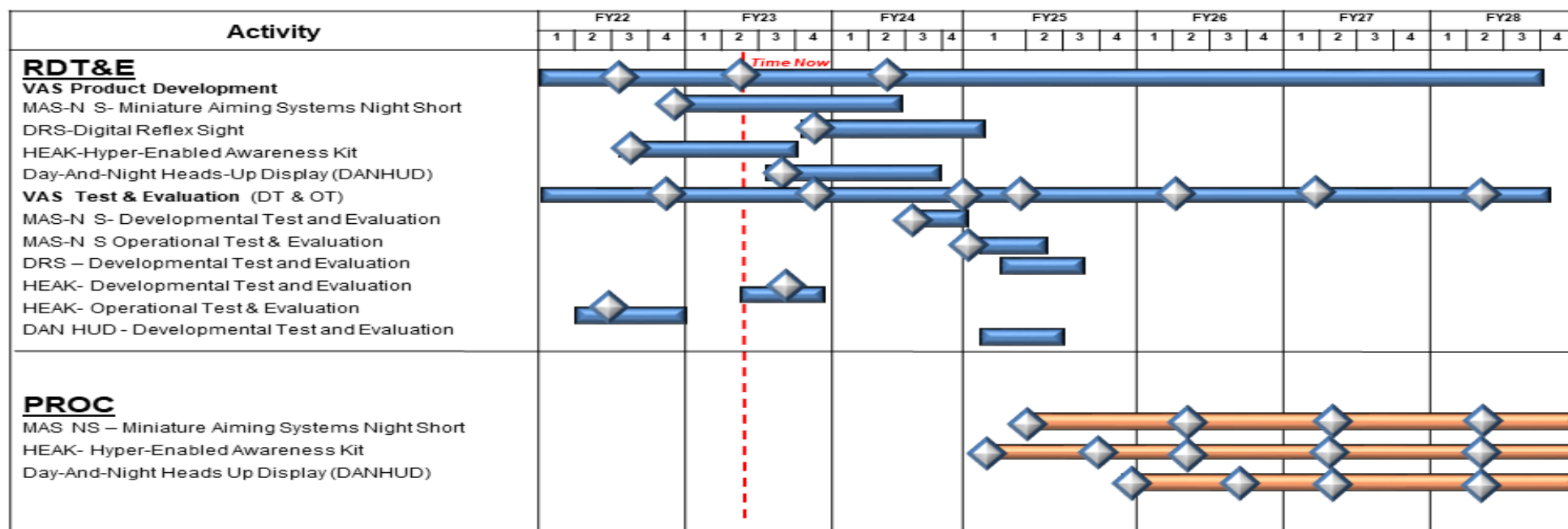
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
VAS Optic and Laser Developmental Test and Evaluation	C/CPFF	USSOCOM : Tampa FL	0.360	0.040	Sep 2022	0.035	Aug 2023	0.160	Aug 2024	-		0.160	Continuing	Continuing	-

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 (VAS) Optic Schedule



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

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

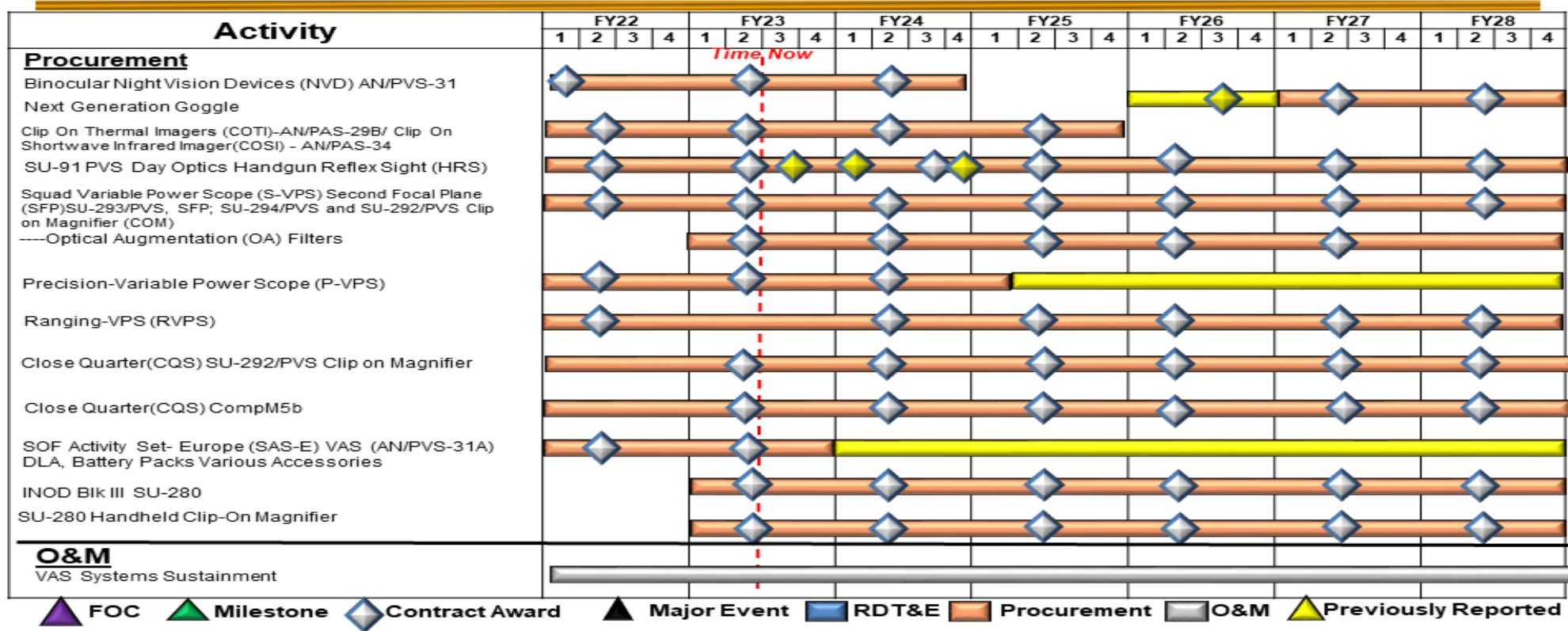
Date: March 2023

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

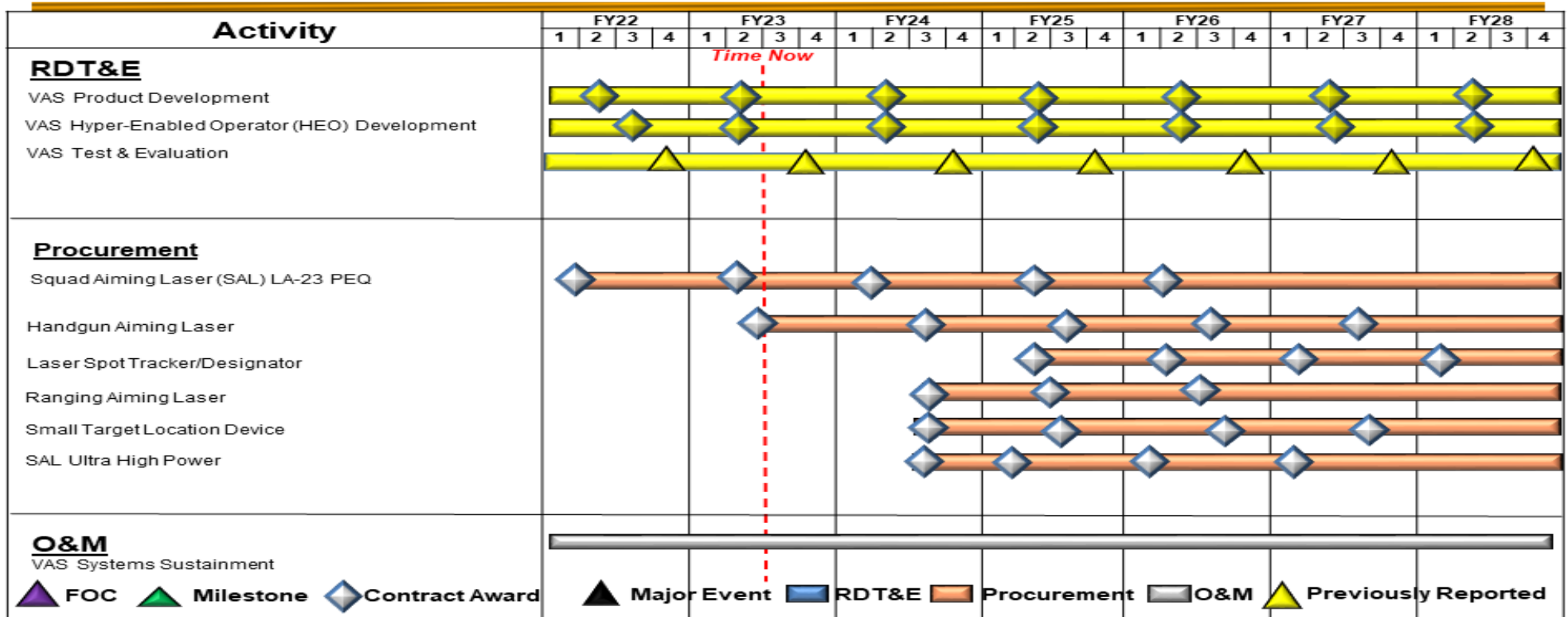
Visual Augmentation Systems (VAS) Optic Schedule (Cont.)



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

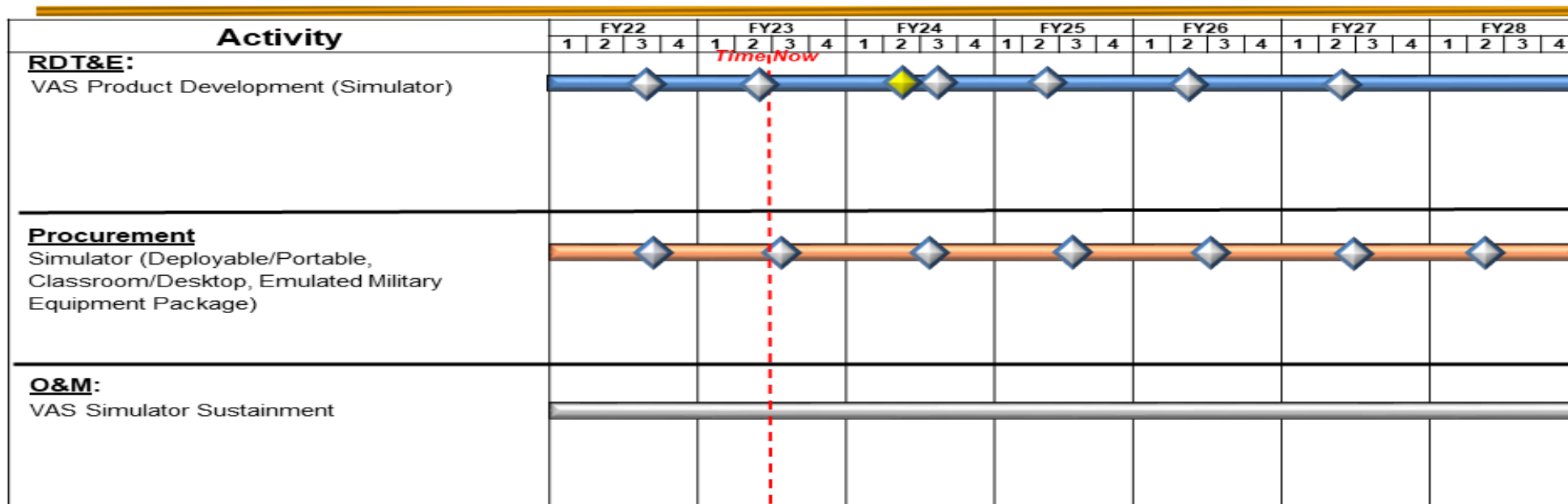
Visual Augmentation Systems (VAS) Laser Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

Visual Augmentation Systems (VAS) Simulator Schedule



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

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Visual Augmentation Systems (VAS)</i>				
Optic-Product Development	1	2022	4	2028
Optic-Developmental and Operational Test & Evaluation	1	2022	4	2028
Simulator-Product Development	1	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command										Date: March 2023		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S700: <i>Communications Equipment and Electronics Systems</i>	89.354	17.903	48.614	92.602	-	92.602	70.105	58.496	66.372	68.007	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)

	FY 2022	FY 2023	FY 2024
Title: Satellite Deployable Node (SDN), Program Number 757	2.700	3.825	3.878
Description: 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. The SDN program's capabilities enable communications across multiple domains and theaters, supporting the major goals of the National Defense Strategy.			
FY 2023 Plans: 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 Through put Satellite (HTS) constellations and terminals. Continue evaluation of resilience of systems in a degraded communications environment.			
FY 2024 Plans: Continues assessments, tests, and evaluations for wide-band COTM maritime, ground mobile, and airborne technologies. Continues assessments in SWAP reduction across all SDN systems. Continues evaluation of HTS constellations and terminals. Continues evaluation of resilience of systems in a degraded communications environment.			
FY 2023 to FY 2024 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Increase of \$0.053 million supports additional test article development for degraded communications assessments.				
<p>Title: Mission Command System/Common Operational Picture (MCS/COP), Program Number 841</p> <p>Description: The MCS/COP ecosystem (system of systems) provides shared situational awareness for SOF Commanders across all domains at the tactical, operational, and strategic levels. The MCS/COP ecosystem delivers a near-real time operational understanding of the intelligence and operational environment to support decision making. The MCS/COP ecosystem is central to the USSOCOM's approach to operating in Joint All Domain Command and Control (JADC2) environments and directly supports the USSOCOM's focus on Integrated Deterrence Campaigning, Irregular Warfare, Crisis, and Conflict.</p> <p>FY 2023 Plans: Continue and greatly expand the range of prototype and product development software solutions under a modular open systems architecture. Continue operational testing and evaluation based on dynamic and emergent operational requirements.</p> <p>FY 2024 Plans: Continues investment in prototyping and tech insertion of emerging technologies, integration of existing disparate and development of new software capabilities into a loosely coupled backend architecture including artificial intelligence, analytics, and data layer/fabric. Continues exercise and limited objective test event support based on dynamic and emergent operational requirements.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$10.896 million to accelerate efforts to establish a backend architecture enabling data-centricity across the SOF Enterprise. This data-centric backend architecture will enable SOF data to be discoverable, accessible, usable, and insightful on all network domains, all echelons (cloud, hybrid, and on-prem), and will support all SOF functions including autonomous system interoperability.</p>		4.432	32.439	43.335
<p>Title: Classified Programs</p> <p>Description: Classified Programs (details provided under separate cover).</p> <p>FY 2023 Plans: Details provided under separate cover.</p> <p>FY 2024 Plans: Details provided under separate cover.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>		10.771	12.350	45.389

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Increase of \$33.039 million will be provided under separate cover.			
Accomplishments/Planned Programs Subtotals	17.903	48.614	92.602

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

Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• PROC/0204WARRIOR: <i>Warrior Systems <\$5M</i>	372.695	352.629	329.837	-	329.837	358.318	356.304	373.828	363.178	Continuing	Continuing
• PROC/0204OTHER: <i>OTHER ITEMS <\$5M</i>	50.431	94.924	108.816	-	108.816	107.720	98.068	91.555	112.438	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 current acquisition approach utilizes the Middle Tier of Acquisition (MTA) Rapid Fielding pathway to support capability set procurements and fielding. The SDN program has been designated a MTA in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The total cost of the SDN MTA effort is \$458.039 million, including RDT&E and procurement of prototype units. The SDN program is fully funded across the Future Years Defense Program.

The MCS/COP program employs the software acquisition pathway to facilitate rapid and iterative delivery of operational software capabilities to meet dynamic SOF peculiar missions to achieve the USSOCOM's vision of obtaining strategic, asymmetric advantages for the nation in Integrated Deterrence Campaigning, Irregular Warfare, Crisis, and Conflict. The MCS/COP implements a modular open systems approach that leverages commercial and government sources, including Science and Technology and Small Business Innovative Research programs within and outside of the USSOCOM, to quickly prototype, integrate, test, and deploy emerging technologies for decision support in all domains. The MCS/COP leverages a Government/Commercial Off-the-Shelf first strategy that maximizes use of open-source software and capitalize on investments from services and other government agencies to deliver capability across all levels of war (tactical, operational, strategic) that is integrated with the Joint Force to enable effective SOF operations in a Joint All Domain Command and Control (JADC2) environment.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S700 / Communications Equipment and Electronics Systems</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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 Communications-On-The-Move Product Development	Various	Various : Various	24.316	0.669	Dec 2021	0.864	Nov 2022	0.750	Feb 2024	-		0.750	Continuing	Continuing	-
SDN Reduction in Size, Weight, and Power (SWAP) Product Development	Various	Various : Various	-	-		0.300	Mar 2023	0.268	Feb 2024	-		0.268	Continuing	Continuing	-
SDN Next Generation High Throughput Satellite (HTS) Product Development	Various	Various : Various	-	0.450	Dec 2021	1.143	Mar 2023	1.200	Feb 2024	-		1.200	Continuing	Continuing	-
SDN System Resiliency / Interference Mitigation in a Degraded Communications Environment Product Development	Various	Various : Various	-	0.050	Dec 2021	0.012	Feb 2023	0.150	Feb 2024	-		0.150	Continuing	Continuing	-
Mission Command System Common Operational Picture (MCS/COP) Prototyping & Tech Insertion	C/Various	Various : Various	2.292	3.330	Mar 2022	10.000	Mar 2023	12.000	Feb 2024	-		12.000	Continuing	Continuing	-
MCS/COP Modular Open Systems Approach	C/Various	Various : Various	-	-		8.039	Mar 2023	11.435	Mar 2024	-		11.435	Continuing	Continuing	-
MCS/COP Artificial Intelligence & Analytics	C/Various	Various : Various	-	-		6.000	Jun 2023	8.500	Jun 2024	-		8.500	Continuing	Continuing	-
MCS/COP Data Layer/Fabric	C/Various	Various : Various	-	-		6.000	Mar 2023	9.000	Jan 2024	-		9.000	Continuing	Continuing	-
Classified Programs	C/Various	Various : Various	36.117	10.419		11.901		43.699		-		43.699	Continuing	Continuing	-
Prior Year Funding	C/Various	Various : Various	1.787	-		-		-		-		-	0.000	1.787	-
Subtotal			64.512	14.918		44.259		87.002		-		87.002	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S700 / Communications Equipment and Electronics Systems</i>
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SDN Communications-On-The-Move Developmental Testing	Various	Various : Various	20.364	0.358	Dec 2021	0.380	Dec 2022	0.380	Dec 2023	-		0.380	Continuing	Continuing	-
SDN Reduction in Size, Weight, and Power (SWAP) Developmental Testing	Various	Various : Various	-	0.240	Dec 2021	0.200	Dec 2022	0.241	Dec 2023	-		0.241	Continuing	Continuing	-
SDN Next Generation High Throughput Satellite (HTS) Developmental Testing	Various	Various : Various	-	0.358	Dec 2021	0.380	Dec 2022	0.344	Dec 2023	-		0.344	Continuing	Continuing	-
SDN System Resiliency / Interference Mitigation in a Degraded Communications Environment Developmental Testing	Various	Various : Various	-	0.575	Dec 2021	0.546	Feb 2023	0.545	Jan 2024	-		0.545	Continuing	Continuing	-
MCS/COP Exercise & Limited Objective Test Events	C/Various	Various : Various	2.120	1.102	Mar 2022	2.400	Mar 2023	2.400	Mar 2024	-		2.400	Continuing	Continuing	-
Classified Programs	MIPR	Various : Various	2.358	0.352		0.449		1.690		-		1.690	Continuing	Continuing	-
Subtotal			24.842	2.985		4.355		5.600		-		5.600	Continuing	Continuing	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	89.354	17.903	48.614	92.602	-	92.602	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

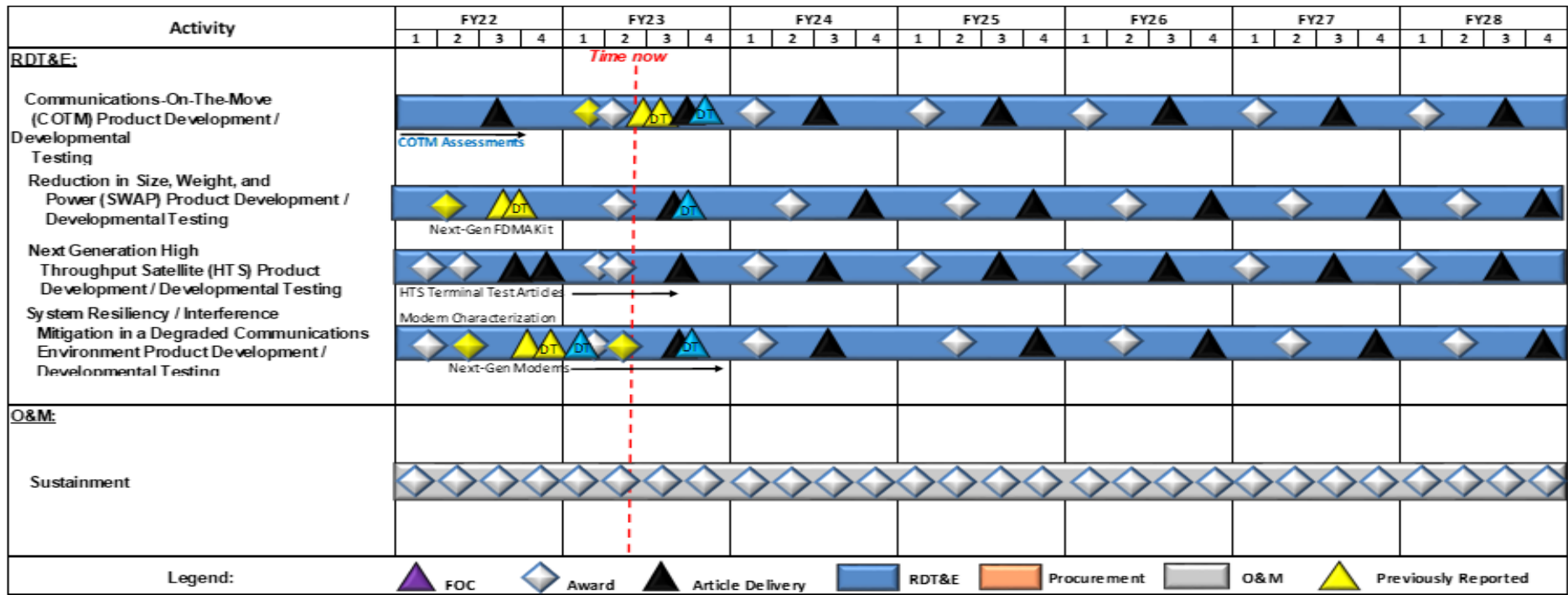
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

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

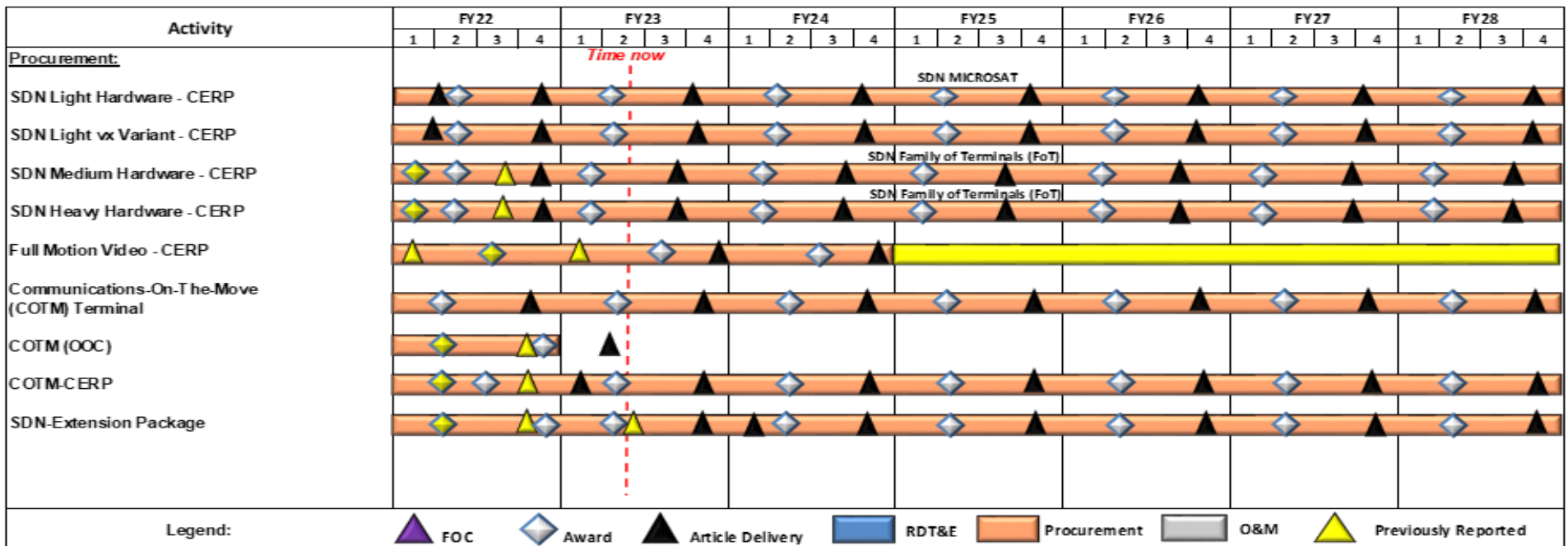
Satellite Deployable Node (SDN) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

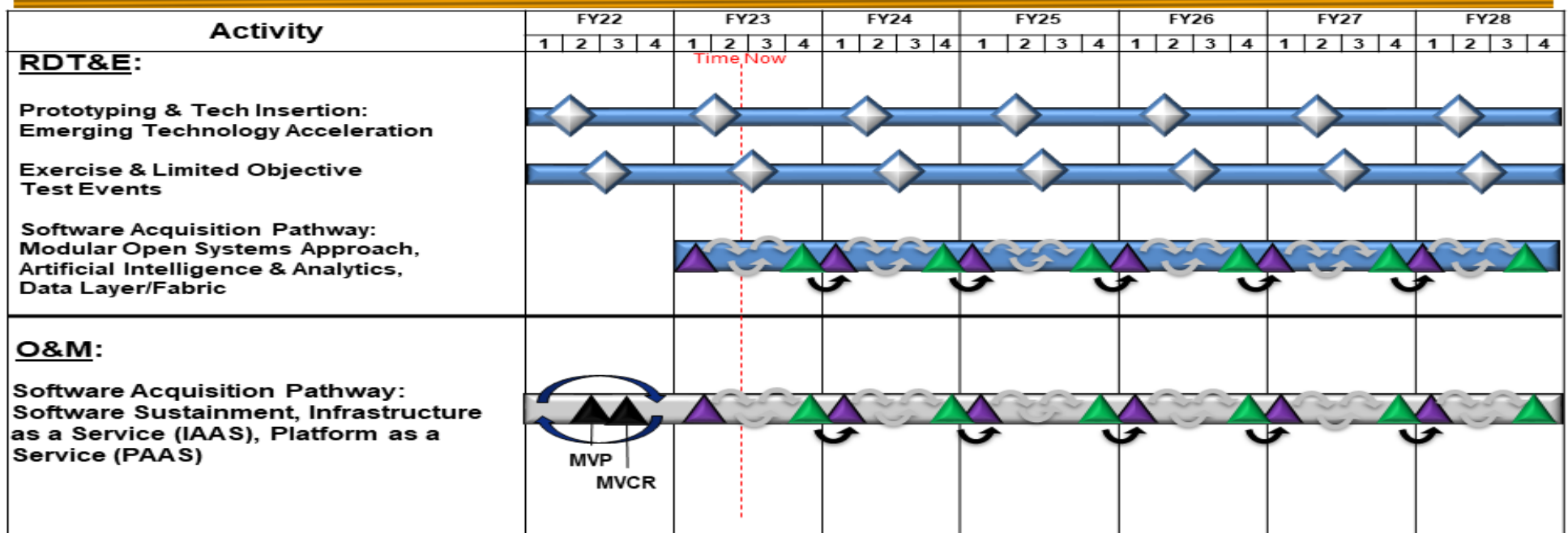
SDN Schedule cont.



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

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



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S700 / <i>Communications Equipment and Electronics Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Satellite Deployable Node (SDN)</i>				
Communication-on-the-Move (COTM) Assessment & Testing	1	2022	4	2028
Reduction in Size, Weight, and Power (SWaP)	1	2022	4	2028
Next Generation High Throughput (HTS) Satellite	1	2022	4	2028
System Resiliency / Interference Mitigation in Degraded Communications Environment Evaluation	1	2022	4	2028
<i>Mission Command System/Common Operational (MCS/COP)</i>				
Prototyping & Tech Insertion:Emerging Technology Acceleration	1	2022	4	2028
Exercise & Limited Objective Test Events	1	2022	4	2028
Software Acquisition Pathway: Modular Open Systems Approach, Artificial Intelligence & Analytics, Data Layer/Fabric	1	2023	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
<i>S710: Tactical Systems Development</i>	13.134	13.470	30.740	58.821	-	58.821	52.497	47.628	49.784	53.891	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. The project also supports SOF mission planning and execution capabilities as well as initiatives to assure the interoperability and commonality of these capabilities across diverse air, ground and maritime systems.

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

	FY 2022	FY 2023	FY 2024
Title: Tactical Local Area Network (TACLAN), Program Number 745	2.616	2.481	3.599
Description: TACLAN supports the three major goals of the 2022 National Defense Strategy by providing enterprise data center like computational platform that connects multiple warfighting domains, theaters, and spectrum of conflict while transporting critical information through the Satellite Deployable Node program. The data collected at these vast locations help synchronize and inform broader Department efforts while improving our ability to share information with our Allies. Further development of TACLAN provides advanced computational platforms that are capable of performing Artificial Intelligence and Machine learning locally without the need of transporting massive amounts of data and congesting global networks.			
FY 2023 Plans: Continue integration and testing of Evolutionary Technology Insertions for TACLAN Field Computing Devices (FCD) and Network Management Suite upgrades. Begin the development of Graphical Processing Unit (GPU) computing capabilities for the integration and assessment of the TACLAN suites.			
FY 2024 Plans: Continues integration and testing of TACLAN FCD ETIs. Continues the development of GPU computing capabilities for integration and assessment of the TACLAN Suites.			
FY 2023 to FY 2024 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command	Date: March 2023
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
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Increase of \$1.118 million continues the development of GPU capabilities on TACLAN suites, and the development of next generation FCD.			
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Title: Special Operations Mission Planning and Execution (SOMPE), Program Number 838	-	-	24.603
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Description: The SOMPE program develops, integrates, tests, and validates software enhancements required to meet SOF-unique requirements for, and correct deficiencies to, mission planning, preview, and execution software tools to support all phases of SOF operations from deliberate to time-critical. SOMPE automates time-sensitive planning activities and provides enhanced situational awareness during mission execution. SOMPE provides the interoperable environment for SOF adaptive planning to integrate global operations including, but not limited to, precision strike software, digital navigation, and Unmanned Aerial Systems (UAS) command and control. This program also provides the integration of SOMPE with multi-dimensional visualization systems, providing immersive mission rehearsal in minimal timeframes from the SOMPE mission plan. SOMPE is embedded in the United States Special Operations Command (USSOCOM) Headquarters, Theater Special Operations Commands (TSOC), Joint Special Operations Task Forces, Joint Special Operations Aviation Components, SOF warfighters, and SOF warfighter platforms directly supporting the 2022 National Defense Strategy's focus on integrated deterrence, crisis, and conflict.

FY 2024 Plans:

The program is in the execution phase of the software acquisition pathway and will continue product development of mission planning and execution software solutions from commercial and government sources to design, develop, operationally test and deliver software quickly and iteratively based on dynamic and emergent operational requirements.

FY 2023 to FY 2024 Increase/Decrease Statement:

Increase of \$24.603 million is comprised primarily of \$13.977 million SOMPE funding from transferred PE 1160403BB Aviation Systems; Project S750 Mission Training and Preparation Systems, for FY 2024 and beyond to better support all-domain mission planning and execution requirements. The increase also includes a one-time transfer of \$8.126 million Operation and Maintenance (Operational Support) funding to support transition of modernization efforts in accordance with the 2022 National Defense Strategy (NDS). An additional \$2.500 million is for development of mission planning and execution software specific to the Unmanned Systems Autonomy and Interoperability (USAI) effort.

Title: Classified Program	3.146	11.259	30.619
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Description: Classified Program (details provided under separate cover).

FY 2023 Plans:

Details provided under separate cover.

FY 2024 Plans:

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Details provided under separate cover.			
FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$19.360 million will be provided under separate cover.			
Accomplishments/Planned Programs Subtotals	5.762	13.740	58.821

	FY 2022	FY 2023
Congressional Add: Special Operations Fused Global Data Analytics and Visualization <i>FY 2022 Accomplishments:</i> Details provided under separate cover.	7.708	-
Congressional Add: Identity Management <i>FY 2023 Plans:</i> Details provided under separate cover.	-	10.000
Congressional Add: Next Generation Intelligence, Surveillance, and Reconnaissance SOF Enhancement <i>FY 2023 Plans:</i> Details provided under separate cover.	-	7.000
Congressional Adds Subtotals	7.708	17.000

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

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	Total Cost
			Base	OCO	Total					Complete	
• PROC/0204OTHER: OTHER ITEMS <\$5M	50.431	94.924	108.816	-	108.816	107.720	98.068	91.555	112.438	Continuing	Continuing

Remarks

D. Acquisition Strategy

TACLAN - The TACLAN program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 513.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly field production quantities of systems with proven technologies to provide tactical SOF elements from the individual operator to a larger Joint Special Operations Task Force (JSOTF) / Special Operations Joint Task Force (SOJTF) Headquarters (HQ), support for a wide range of tactical edge computing functions that support Command and Control (C2), Situational Awareness (SA), intelligence analysis and reporting, office automation, decision-making, mission analysis, planning, rehearsal, and execution support. Commercial and government sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.

SOMPE - The SOMPE program employs the software acquisition pathway, to facilitate rapid and iterative product development and delivery of software solutions using modern software development practices such as agile software development, Development, Security and Operations (DevSecOps), and lean practices. SOMPE implements a modular open systems approach that leverages commercial and government sources, including Science and Technology and Small Business Innovative

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

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

Research programs within and outside of the USSOCOM, to quickly prototype, integrate, test, and deploy emerging technologies for decision support in all domains. This development strategy enables the program to design, develop, operationally test and deliver software quickly based on dynamic and emergent SOF peculiar operational requirements to achieve the USSOCOM's vision of obtaining strategic, asymmetric advantages for the nation in integrated deterrence, crisis, and conflict.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S710 / <i>Tactical Systems Development</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Tactical Local Area Network (TACLAN) Graphical Processing Unit (GPU)	Reqn	Various : Various	-	-		1.249	Mar 2023	1.349	Mar 2024	-		1.349	Continuing	Continuing	-
TACLAN Field Computing Device (FCD) Engineering Technology Insertions (ETIs)	Various	Various : Variuos	5.765	2.616	Mar 2022	1.000	Mar 2023	2.000	Mar 2024	-		2.000	Continuing	Continuing	-
TACLAN Network Management Suite ETIs	Various	Various : Various	5.269	-		-		-		-		-	Continuing	Continuing	-
Special Operations Mission Planning and Execution (SOMPE) Software Development and Tech Insertion	Various	Various : Various	-	-		-		15.603	Mar 2024	-		15.603	Continuing	Continuing	-
SOMPE Special Operations Forces Tactical Assault Kit (SOF TAK) Development & Convergence	Various	Various : Variuos	-	-		-		6.500	Jan 2024	-		6.500	Continuing	Continuing	-
Classified Program	C/FFP	Various : Various	-	3.146		28.259		30.619		-		30.619	Continuing	Continuing	-
Classified Program Congressional Add	C/FFP	Various : Various	-	7.708		-		-		-		-	Continuing	Continuing	-
Subtotal			11.034	13.470		30.508		56.071		-		56.071	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
TACLAN FCD ETIs (Operational Test & Evaluation))	Reqn	Various : Various	-	-		-		0.250	Apr 2024	-		0.250	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

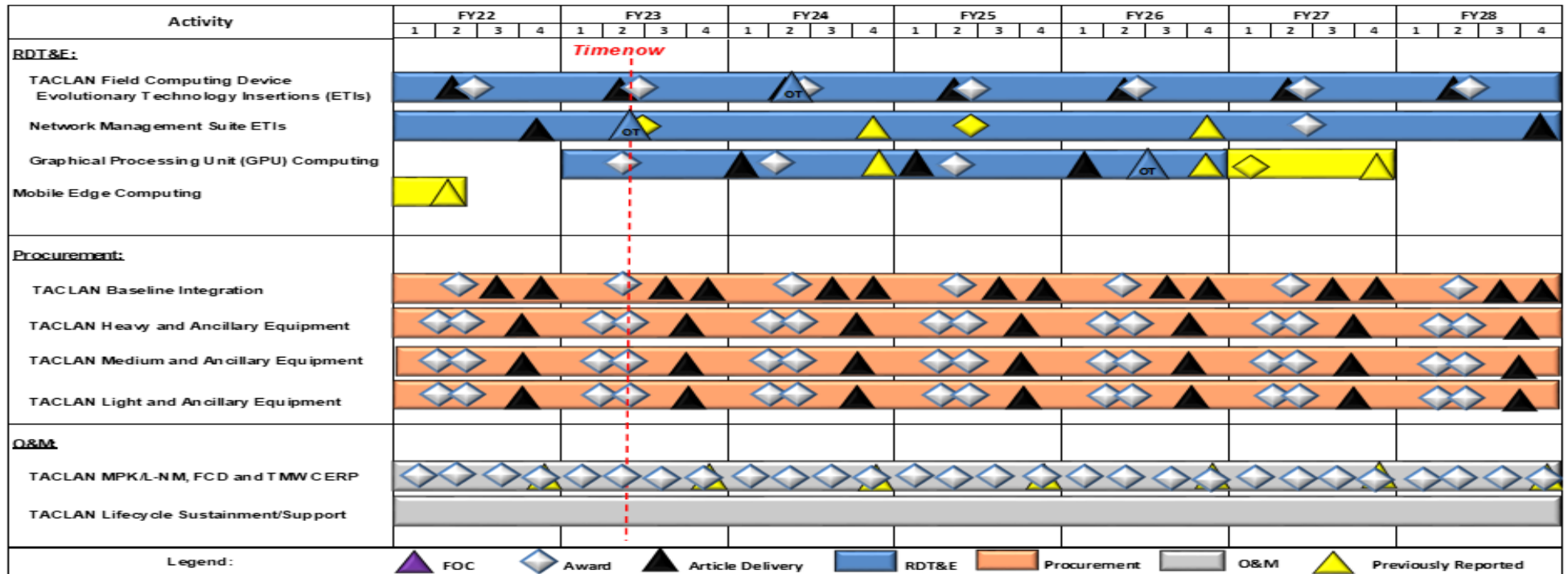
Date: March 2023

Appropriation/Budget Activity
0400 / 7

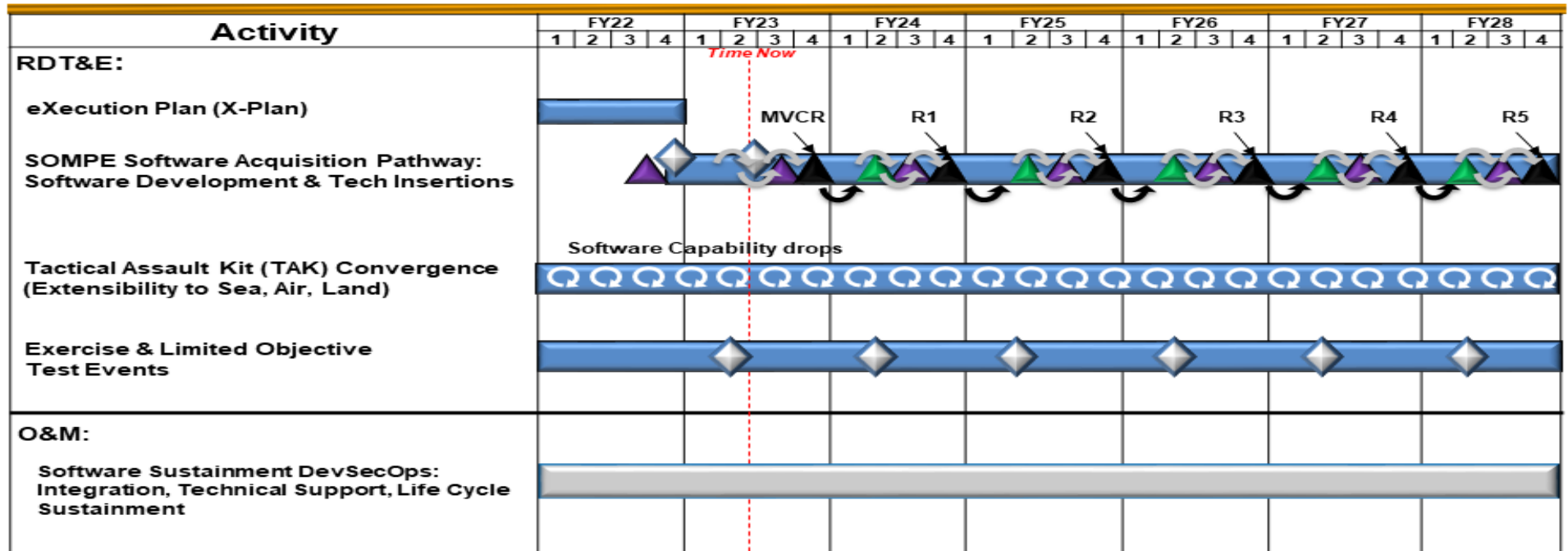
R-1 Program Element (Number/Name)
PE 1160431BB / Warrior Systems

Project (Number/Name)
S710 / Tactical Systems Development

Tactical Local Area Network (TACLAN) Schedule



Special Operations Mission Planning and Execution (SOMPE) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command **Date:** March 2023

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Tactical Local Area Network (TACLAN) Suites</i>				
TACLAN Field Computing Device (FCD) Evolutionary Technology Insertions (ETIs)	1	2022	4	2028
Network Management Suite ETIs	1	2022	4	2028
Graphical Processing Unit Computing	1	2023	4	2026
<i>Special Operations Mission Planning and Execution (SOMPE)</i>				
Software Acquisition Pathway: Software Development and Tech Insertions	1	2024	4	2028
Tactical Assault Kit (TAK) Convergence	1	2024	4	2028
Exercise & Limited Objective Developmental and Operational Test Events	1	2022	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>				Project (Number/Name) S725 / <i>Tactical Radio Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
<i>S725: Tactical Radio Systems</i>	47.325	15.484	10.049	17.789	-	17.789	5.864	5.940	6.018	6.130	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)

	FY 2022	FY 2023	FY 2024
Title: Next Generation Tactical Communications (NGTC), Program Number 798	4.646	7.827	14.318
<p>Description: The NGTC, formerly known as SOF Tactical Communications (STC), program consists of Next-Generation SOF Communication Systems which replace most of the currently fielded SOF tactical radios. Capabilities include real time, hostile and friendly force information; Line of Sight (LOS) and beyond LOS (BLOS) communications; and access to situational awareness in the form of intelligence inputs, broadcasts, and networks.</p> <p>FY 2023 Plans: Continue ECPs for the Next Generation Handheld (NGHH) and Next Generation Manpack (NGMP), to include development of Mobile User Objective System (MUOS) to transition from legacy UHF tactical satellite waveforms. Continue High Frequency (HF) platform modernization of two complementary systems into an overarching, predominantly government-owned, high frequency capability that provides Low Probability of Intercept/ Detection (LPI/D) capabilities. Android Tactical Assault Kit (ATAK) to provide software functionality for ATAK and WinTAK via Next Generation Radio Plugins to interface with the AN/PRC-163 / AN/PRC-167 radios. Begin/conclude contested communications/waveform development focusing on anti-jam capabilities.</p> <p>FY 2024 Plans: Continues ECPs for the NGHH and NGMP, to include development of MUOS to transition from legacy Ultra High Frequency (UHF) tactical satellite waveforms. The ATAK is to provide software functionality for ATAK and WinTAK via Next Generation Radio Plugins to interface with the AN/PRC-163 / AN/PRC-167 radios. Continues HF platform modernization of two complementary systems into an overarching, predominantly government-owned, high frequency capability that provides LPI/D capabilities. Continues contested communications/waveform development focusing on anti-jam capabilities.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S725 / Tactical Radio Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Net increase of \$6.491 million supports an increase for Data Radio device and (\$7.000 million) and a decrease is due to completion of Contested of Contested Communications efforts (-\$0.509 million).				
<p>Title: Blue Force Tracking (BFT), Program Number 742</p> <p>Description: The BFT is a family of devices used to remotely track and monitor SOF unit personnel. The capability enhances Command and Control, threat warning, force protection, situational awareness, combat search and rescue, counter-fratricide, and battlefield visualization and personnel recovery. This capability is unique to SOF because it requires the devices to support worldwide operations, be lightweight, portable, and secure using LPI/D waveforms. The BFT aligns to the 2022 National Defense Strategy (NDS) by providing capabilities that allow our forces to prevail in conflict and allow for a resilient Joint Force and defense ecosystem.</p> <p>FY 2023 Plans: Continue development and testing of specialized BFT and initiates personnel recovery capabilities.</p> <p>FY 2024 Plans: Continues development and testing of the Next Generation BFT device and continues development of personnel recovery capabilities.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.638 million supports the modernization of the Next Generation BFT device that will provide advanced capabilities in alignment with the 2022 NDS prioritizing the challenges in the Indo-Pacific and Europe regions.</p>		1.203	1.635	2.273
<p>Title: Remote Advise and Assist /Virtual Accompany Kit (RAA/VAK), Program Number 697</p> <p>Description: 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. The 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. Supports the 2022 NDS by providing commercial capabilities for joint force operations that are resilient, configurable and agile as needed to meet the Great Power Competition (GPC).</p> <p>FY 2023 Plans: Evaluate 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>FY 2024 Plans: Develops advanced tracking system capable of transmitting location and discrete messages to SOF and Partner Forces.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>		-	0.587	1.198

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) <i>S725 / Tactical Radio Systems</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023		FY 2024
Increase of \$0.611 million supports modernization efforts related to expanding the RAA/VAK capability to support integrated deterrence as well as Counter - Violent Extremist Organization operational objectives.				
Accomplishments/Planned Programs Subtotals	5.849	10.049		17.789

	FY 2022	FY 2023
Congressional Add: NGTC - Software-Defined Radio Waveforms	9.635	-
FY 2022 Accomplishments: Began initial development of the Mobile User Objective System (MUOS).		
Congressional Adds Subtotals	9.635	-

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204WARRIOR: <i>Warrior Systems<\$5M</i>	372.695	352.629	329.837	-	329.837	358.318	356.504	373.828	363.178	Continuing	Continuing

Remarks

D. Acquisition Strategy

The NGTC is a COTS/Non-Development Item with ETIs. Commercial and government agency sources will be leveraged for required certifications, functional and operational tests, and acceptance support. The NGTC program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapid develop prototypes demonstrating Next Generation High Frequency Radio and to rapid fielding Next Generation Tactical Handheld and Manpack Radios systems with proven technologies. The total cost of the Next Generation Tactical Communications (NGTC) Middle Tier of Acquisition effort is \$389.670 million, including RDT&E and procurement of prototype units. The NGTC program is fully funded across the Future Years Defense Program.

The BFT has been designated a Major Capability Acquisition ACAT III at Milestone C in accordance with the authority in DoD Directive 5135.02 and the guidance in DoD Instruction 5000.85. The purpose of the MCA is to acquire BFT and Personnel Recovery (PR) systems capable of supporting global operations in diverse environments with varying threat levels. The BFT leverages commercial and other government agency sources for required certifications, functional and operational tests, and technology updates.

The RAA/VAK is a Rapid Fielding Middle Tier of Acquisition (MTA) program in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The RAA/VAK program leverages commercial and other government agency sources for technology insertions related to partner force communications, tracking, and sensor data collection and exfil.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S725 / <i>Tactical Radio Systems</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Next Generation Tactical Communications (NGTC) Radio Development / Engineering Change Proposal	MIPR	Various : Various	40.722	1.333	Jan 2022	5.679	Jan 2023	6.624	Jan 2024	-		6.624	Continuing	Continuing	-
High Frequency Modernization	MIPR	Various : Various	-	3.313	Dec 2021	1.112	Oct 2022	0.644	Feb 2024	-		0.644	Continuing	Continuing	-
Contested Comm	MIPR	Various : Various	-	-		1.036	Jan 2023	-		-		-	Continuing	Continuing	-
Data Radio Device	MIPR	Various : Various	-	-		-		7.000	Jan 2024	-		7.000	Continuing	Continuing	-
Radio Waveform Mobile User Objective System (MUOS) Cong Add	MIPR	Various : Various	-	9.635	Jan 2022	-		-		-		-	0.000	9.635	-
Blue Force Tracking (BFT) Hardware Product Development	C/CPFF	Various : Various	3.640	1.128	Mar 2021	1.560	Nov 2022	2.198	Jun 2024	-		2.198	Continuing	Continuing	-
Remote Advise and Assist Virtual Accompany Kit (RAA/VAK) Hardware Product Development	C/CPFF	Various : Various	-	-		0.399	Jan 2023	0.998	Feb 2024	-		0.998	Continuing	Continuing	-
Subtotal			44.362	15.409		9.786		17.464		-		17.464	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
NGTC Operational Testing and Evaluation	Option/TBD	Various : Various	2.681	-		-		0.050	Sep 2024	-		0.050	0.000	2.731	-
BFT SOF Operational Test and Evaluation	MIPR	Various : Various	0.282	0.075	Nov 2021	0.075	Nov 2022	0.075	Nov 2023	-		0.075	Continuing	Continuing	-
RAA/VAK Operational Test and Evaluation	MIPR	Various : Various	-	-		0.188	Jan 2023	0.200	Feb 2024	-		0.200	Continuing	Continuing	-
Subtotal			2.963	0.075		0.263		0.325		-		0.325	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

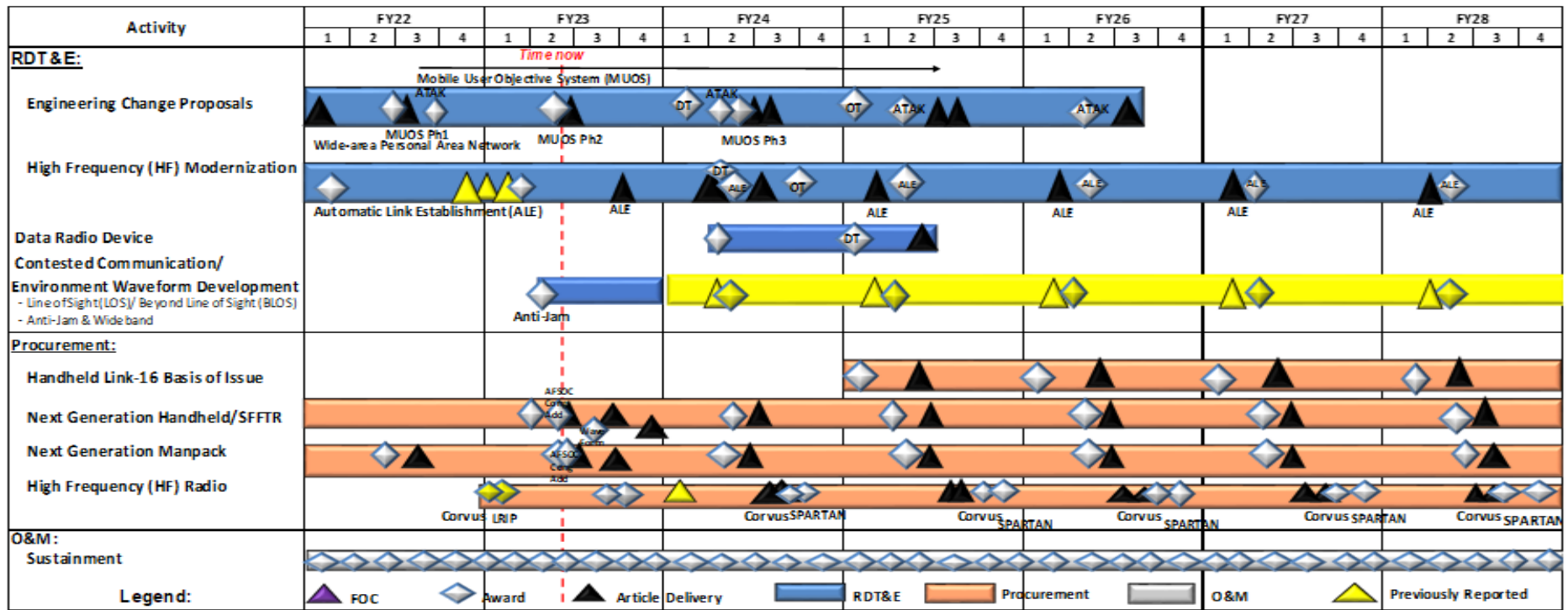
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S725 / Tactical Radio Systems

Next Generation Tactical Communicaitons (NGTC) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

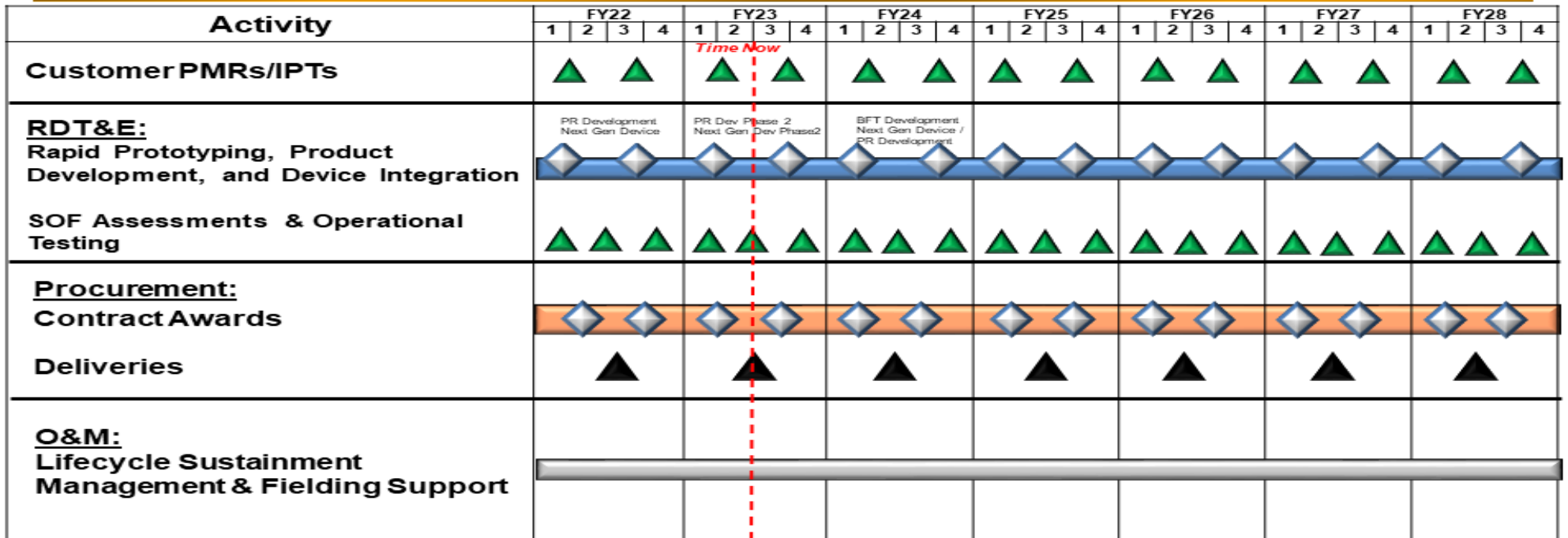
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S725 / Tactical Radio Systems

Blue Force Tracking (BFT)



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

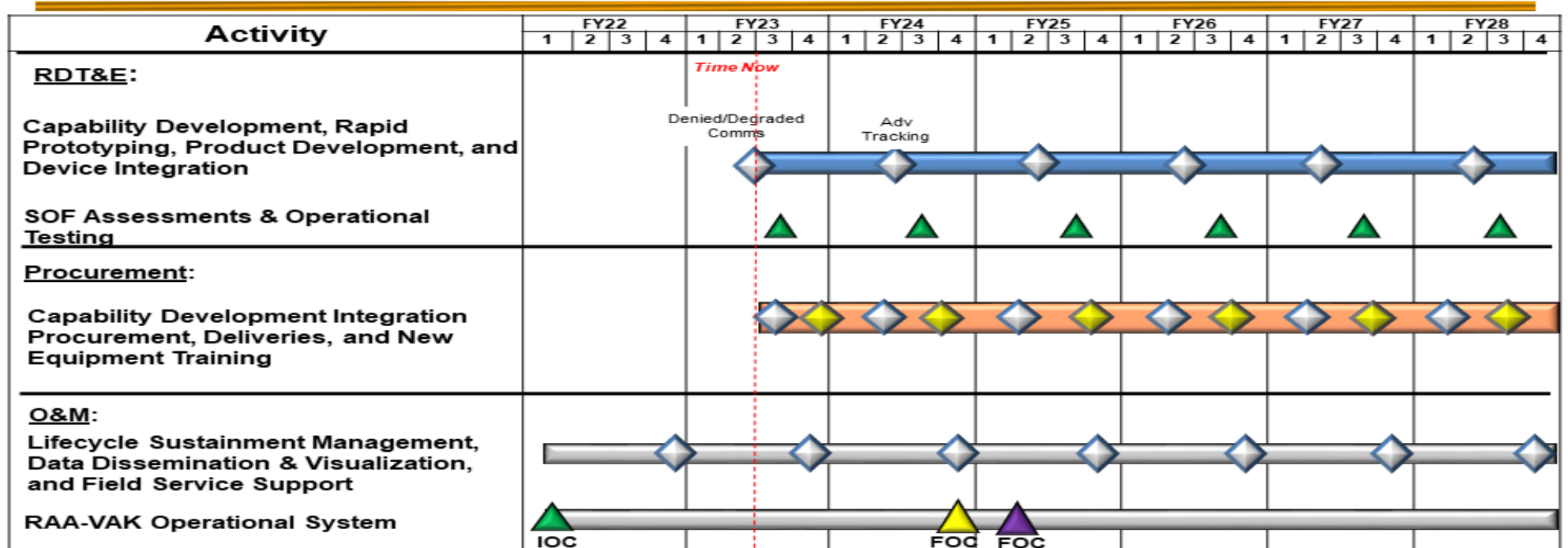
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S725 / Tactical Radio Systems

RAA-VAK Schedule



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

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command **Date:** March 2023

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Next Generation Tactical Communications (NGTC)</i>				
Engineering Change Proposals (ECPs)	1	2022	3	2026
High Frequency (HF) Modernization	1	2022	4	2028
Contested Communication Environment Waveform Development	2	2023	4	2023
<i>Blue Force Tracking (BFT)</i>				
Rapid Prototyping, Product Development, and Device Integration	1	2022	4	2028
SOF Assessments & Operational Testing	1	2022	4	2028
<i>Remote Advise Assist Virtual Accompany Kit (RAA/VAK)</i>				
Capability Development, Rapid Prototyping, Product Development, and Device Integration	2	2023	4	2028
SOF Assessments & Operational Testing	3	2023	4	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S800: <i>Munitions Advanced Development</i>	130.599	24.681	34.118	54.862	-	54.862	40.157	45.502	46.344	41.970	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 Special Operations Forces (SOF).

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

	FY 2022	FY 2023	FY 2024
<p>Title: Stand-Off Precision Guided Munitions (SOPGM), Program Number 796</p> <p>Description: SOPGM provides for the integration and testing of service-common and recently developed precision guided munitions on SOF-unique platforms.</p> <p>FY 2023 Plans: Continue the engineering, integration, and testing of various technologies (munitions and warheads) within the precision guided munitions portfolio.</p> <p>FY 2024 Plans: Continues the engineering, integration, and testing of various technologies (munitions and warheads) within the precision guided munitions portfolio. Modernizes SOPGM weapons to: provide alternative terminal guidance enhancement capability to operate in a near peer contested/GPS denied environment. Develops new precision strike missiles; and provides security (cybersecurity/anti tamper) enhancements throughout the SOPGM portfolio.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$9.125 million supports the modernization of SOPGM weapons to provide alternative terminal guidance enhancement in a contested environment, develop new SOCOM stand-off precision strike missiles will enhance deterrence, provide airborne long range strike capability, and security (cybersecurity/anti tamper) enhancements throughout the SOPGM portfolio.</p>	4.101	4.359	13.484
<p>Title: Munitions Advanced Development, Program Number 710</p> <p>Description: The Munitions Advanced Development program provides for Insensitive Munitions (IM) technology development and evaluations that allow SOF munitions to pass testing which includes bullet impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the United States Special Operations Command (USSOCOM) IM Testing Plan. Munitions product improvements entails integrated deterrence through a reduction in a competitor's perception of the net benefits of aggression and are tested in accordance with command priorities.</p>	0.511	0.530	0.556

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command	Date: March 2023
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Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p><i>FY 2023 Plans:</i> Continue proof of concept development and IM testing on various munitions. Continue full scale testing to satisfy safety requirements in Military Standard 2105C.</p> <p><i>FY 2024 Plans:</i> Continues product improvement efforts, proof of concept development and IM testing on various munitions. Continues full scale testing to satisfy safety requirements in Military Standard 2105C.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Increase of \$0.026 million is due to anticipated cost increases for materials and testing.</p>			
<p><i>Title:</i> Maritime Scalable Effects (MSE), Program Number 710</p> <p><i>Description:</i> The MSE 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 for integrated deterrence by combat-credible forces postured to fight and win as well as build enduring advantages to counter forms of competitor coercion, complicate competitors' military preparations, and develop our own warfighting capabilities. 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. Prior to FY 2023, the MSE was previously reported under the Munitions Advanced Development program.</p> <p><i>FY 2023 Plans:</i> Begin proof of concept development and IM testing on various munitions. Begin full scale, developmental testing, operational test evaluations, and finalized safety certifications for operational approvals. Includes FoS projects to include underwater explosive penetrator variants and other complimentary capabilities.</p> <p><i>FY 2024 Plans:</i> Continues development and IM testing of two Family of System (FoS) projects previously accelerated by a FY 2022 Congressional Add, Part B2 and Project 811. Continues full scale, developmental testing, operational test evaluations, and finalized safety certifications for operational approvals of underwater explosive penetrator variants and other complimentary capabilities.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></p>	1.211	1.812	5.993

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
Increase of \$4.181 million supports successful transition of Project 901 to MSE.				
<p>Title: Ground Organic Precision Strike System (GOPSS), Program Number 710</p> <p>Description: The GOPSS Program employs both direct attack or aerial loitering munitions (ALM) Vertical Take-Off and Landing (VTOL) technologies to provide SOF-unique strike capability at the team level to provide integrated deterrence that enables combat-credible forces to fight and win. The GOPSS was previously reported under the combined MPE-M / GOPSS project line prior to FY 2023.</p> <p>FY 2023 Plans: Continue 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>FY 2024 Plans: Continues the developmental test articles and test equipment, testing and evaluation using government ranges, the performance of critical munitions safety assessments, as well as the continuation of studies and analysis conducted in order to develop and enhance capabilities and to update program documentation. Continues to develop selected Echelon 0 prototypes to achieve suitable technical readiness levels for user evaluation in pursuit of production ready baseline and possible fielding.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$1.442 million is due to updated requirements. Inclusion of these requirements into the GOPPS portfolio will include each of the three Echelons within the family of systems to include direct attack, ALM and VTOL. Funding will also support HERO-30 and HERO-120 systems qualification and safety testing.</p>		1.710	1.744	3.186
<p>Title: Maritime Precision Engagement Munition (MPE-M), Program Number 710</p> <p>Description: Guided Rocket or propeller systems provides for the engineering, integration and testing of service-common and recently developed precision guided munitions on SOF-peculiar platforms for integrated deterrence to gain advantages and undermine acute forms of competitor coercion that erode our vital interests. The MPE-M was previously reported under the combined MPE-M / GOPSS project line prior to FY 2023.</p> <p>FY 2023 Plans: Complete the developmental test portion of the program's lifecycle by funding the following engineering services; test asset airframes; test asset launcher system; munition control systems; test planning and execution services; payloads; control systems, system emulators; test and evaluation events to include range time and support, and equipment and post-event processing</p>		13.091	9.746	31.643

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
with revised capability and programmatic documents. Empower developmental tests to prepare for critical design review and operational assessment.			
<p>FY 2024 Plans: Completes MPE-M development and developmental testing, culminating in the critical design review. Begins the operational assessment of the MPE-M in its Block I production configuration. This is in preparation for the final configuration decision for production. The developmental testing and operational assessment is empowered by airframe design engineering, munition magazine integration, command and control integration, payload development, weapon system emulators, system training tools, test event preparation, event execution, post event processing and government reporting. Initiates the development of the Block II and Variant II configurations of the MPE-M weapon system. Block II is a natural progression of the Block I capability that will increase the capabilities in the design of range capabilities, enhanced command and control capabilities, autonomy and modularity. Variant II is an augmenting capability that will include Command and Control relay and at-sea recovery. The development plan for the Block II and Variant II mirrors the development and developmental test of the Block I configuration.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$21.897 million is due to the addition of the Block II and Variant II development efforts. Increase supports design and development engineering efforts from the contractor and more test events to ensure capability and safety of the other configurations.</p>			
Accomplishments/Planned Programs Subtotals	20.624	18.191	54.862

	FY 2022	FY 2023
Congressional Add: GOPSS	-	9.930
FY 2023 Plans: Develop Aerial Loitering Munition (ALM) prototypes for advanced to limited production Other Transaction Authorities (OTAs) for Military User Assessments (MUA).		
Congressional Add: MSE Acceleration	4.057	2.397
FY 2022 Accomplishments: Developed and tested two additional Part B variants intended to exploit known vulnerabilities of adversaries and accelerated the transition of Project 811.		
FY 2023 Plans: Develop a critical design review to accelerate the testing and evaluation of Project 901.		
Congressional Add: MPE-M	-	3.600
FY 2023 Plans: Accelerate the completion of developmental test of the MPE-M configuration of the Block I Altius-700, support design, empower developmental engineering efforts and increase the amount of test assets available for flights to gain relevant data informing the Critical Design Review.		
Congressional Adds Subtotals	4.057	15.927

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• PROC/0203ORDN: <i>Ordnance Items <\$5M</i>	164.816	150.005	147.831	-	147.831	155.647	156.408	187.929	191.109	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. The SOPGM program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-92, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80.

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. Ordnance/Munitions utilizes the Middle Tier of Acquisition (MTA) pathway for Rapid Prototyping/Rapid Fielding to support capability set procurements and fielding for increased lethality.

MSE: The MSE 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. The MSE is designated a 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. Ordnance/MSE utilizes the MTA pathway for Rapid Prototyping/Rapid Fielding for increased lethality.

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. GOPSS is a designated MTA programs which uses the rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts competitively selected as appropriate. Ordnance/GOPSS utilizes the MTA pathway for Rapid Prototyping/Rapid Fielding for increased lethality.

MPE-M: The MPE-M 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. The MPE-M is designated a MTA programs which uses the rapid prototyping pathway and is executing using existing contracts, government agencies, and new contracts competitively selected as appropriate.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Stand-off Precision Guided Munitions (SOPGM) Development (1)	C/Variou	Various : Various	3.040	3.601	Mar 2022	3.859	Mar 2023	9.484	Mar 2024	-		9.484	Continuing	Continuing	-
Maritime Scalable Effects (MSE) Parts B2/B3 Variant Development - Congressional Add	C/Variou	Naval Surface Warfare Center (NSWC) Dahlgren Division : Dahlgren, VA	-	0.131	Aug 2022	-		-		-		-	0.000	0.131	-
MSE Part B Development	C/Variou	Various : Various	-	1.012	Jan 2021	-		-		-		-	0.000	1.012	-
MSE Part B Development - Congressional Add	C/Variou	NSWC : Various	-	0.515	Jun 2022	-		-		-		-	0.000	0.515	-
MSE Part B2 Development - Government	C/Variou	NSWC Dahlgren Division : Dahlgren, VA	-	-		-		1.301	Oct 2023	-		1.301	0.700	2.001	-
MSE Part B2 Development - Contractor	C/Variou	Various : Various	-	-		-		0.800	Nov 2023	-		0.800	0.325	1.125	-
MSE Project 811 Development	C/Variou	Various : Various	-	-		1.210	Jan 2023	-		-		-	0.000	1.210	-
MSE Project 811 Development - Congressional Add	C/Variou	Various : Various	-	2.332	Aug 2022	-		-		-		-	0.000	2.332	-
MSE Project 901 Development - Contractor (2)	C/Variou	Various : Various	-	-		-		1.898	Nov 2023	-		1.898	7.901	9.799	-
Ground Organic Precision Strike System (GOPSS)	C/Variou	Various : Various	5.522	1.710	Nov 2021	1.744	Dec 2022	2.656	Dec 2023	-		2.656	Continuing	Continuing	-
GOPSS HERO Development Congressional Add	C/Variou	Various : Various	-	-		7.450	May 2023	-		-		-	0.000	7.450	-
GOPSS Warhead Improvements Congressional Add	C/Variou	Various : Various	-	-		1.450	May 2023	-		-		-	0.000	1.450	-
GOPSS Component Standardization Congressional Add	C/Variou	Various : Various	-	-		0.650	May 2023	-		-		-	0.000	0.650	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Maritime Precision Engagement Munition (MPE-M) Aircraft Development	C/Variou	Various : Various	6.239	8.045	Nov 2021	8.000	Jan 2023	0.960	Jan 2024	-		0.960	Continuing	Continuing	-
MPE-M - Payload development	C/Variou	Various : Various	1.932	1.613	Nov 2021	-		0.925	Jan 2024	-		0.925	Continuing	Continuing	-
MPE-M Integration Development	C/Variou	Various : Various	2.549	0.868	Nov 2021	0.209	Jan 2023	0.890	Jan 2024	-		0.890	Continuing	Continuing	-
MPE-M Block II Development	C/TBD	TBD : TBD	-	-		-		8.695	Aug 2024	-		8.695	Continuing	Continuing	-
MPE-M Variant II Development	C/TBD	TBD : TBD	-	-		-		8.744	Aug 2024	-		8.744	Continuing	Continuing	-
MPE-M Aircraft Development Congressional Add	C/Variou	Various : Various	-	-		1.000	Jan 2023	-		-		-	0.000	1.000	-
MPE-M Payload Development Congressional Add	C/Variou	Various : Various	-	-		0.900	Jan 2023	-		-		-	0.000	0.900	-
MPE-M Integration Development Congressional Add	C/Variou	Various : Various	-	-		0.500	Jan 2023	-		-		-	0.000	0.500	-
Prior Year Funding - Base	C/Variou	Various : Various	59.570	-		-		-		-		-	0.000	59.570	-
Prior Year Funding - Overseas Contingency Operations (OCO)	C/Variou	Various : Various	0.002	-		-		-		-		-	0.000	0.002	-
Prior Year Funding - Congressional Plus Up	C/Variou	Various : Various	23.957	-		-		-		-		-	0.000	23.957	-
Subtotal			102.811	19.827		26.972		36.353		-		36.353	Continuing	Continuing	N/A

Remarks

Footnote (1): Increase of \$5.625 million will provide SOPGM modernization and develop new long range strike capability to the portfolio.

Footnote (2): MSE Part A effort has been halted due to the inability to meet mission requirements and Project 901 transitions during FY 2023 and reaches full potential during FY 2024.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MSE Support - Government	MIPR	NSWC Dahlgren Division : Dahlgren, VA	-	0.199	Nov 2021	0.602	Nov 2022	0.783	Oct 2023	-		0.783	Continuing	Continuing	-
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	-
Subtotal			8.969	0.199		0.602		0.783		-		0.783	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOPGM Developmental Test (3)	C/Variou	Various : Various	-	0.500	Feb 2022	0.500	Feb 2023	2.500	Feb 2024	-		2.500	Continuing	Continuing	-
SOPGM Operational/Live Fire Test (4)	C/Variou	Various : Various	-	-		-		1.500	Feb 2024	-		1.500	Continuing	Continuing	-
Munitions Advanced Development AMMO Systems - Insensitive Munitions (IM) Evaluation Developmental Test and Evaluation	C/FFP	US Air Force Air Armaments Center : Eglin, AFB, FL	0.282	0.067	Dec 2021	0.072	Dec 2022	0.076	Dec 2023	-		0.076	Continuing	Continuing	-
Munitions Advanced Development AMMO Systems - IM Testing Developmental Test and Evaluation	Allot	ARDEC : Picatinny Arsenal, NJ	2.470	0.268	Dec 2021	0.270	Dec 2022	0.275	Dec 2023	-		0.275	Continuing	Continuing	-
Munitions Advanced Development AMMO Systems - Obtain Munitions Test Articles Developmental Test and Evaluation	C/FFP	General Dynamics : Canada	0.684	0.176	Dec 2021	0.188	Dec 2022	0.205	Dec 2023	-		0.205	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MSE Part B Developmental Test and Evaluation - Congressional Add	Various	NSWC Dahlgren Division : Dahlgren, VA	-	0.883	Jul 2022	-		-		-		-	0.000	0.883	-
MSE Part B Operational Test and Evaluation - Congressional Add	Various	Various : Various	-	0.196	Jun 2022	-		-		-		-	0.000	0.196	-
MSE Project 811 Developmental Test & Evaluation	Various	Various : Various	-	-		-		0.511	Jan 2024	-		0.511	Continuing	Continuing	-
MSE Project 901 Operational Test & Evaluation	Various	Various : Various	-	-		-		0.700	Jun 2024	-		0.700	1.425	2.125	-
MSE Project 901 Operational Test & Evaluation Congressional Add	C/Various	Various : Various	-	-		2.397	Apr 2023	-		-		-	0.000	2.397	-
GOPSS Operational Test and Evaluation	C/Various	Various : Various	-	-		-		0.530	Dec 2023	-		0.530	Continuing	Continuing	-
GOPSS Operational Test and Evaluation Congressional Add	C/Various	Various : Various	-	-		0.380	Jul 2023	-		-		-	0.000	0.380	-
MPE-M Block I Developmental Test and Evaluation	Allot	NSWC : Indian Head, MD	0.754	1.370	Nov 2021	0.900	Jan 2023	0.910	Jan 2024	-		0.910	Continuing	Continuing	-
MPE-M Block I Operational Test and Evaluation	Allot	Redstone : Various	0.591	0.654	Feb 2022	0.300	Mar 2023	4.563	Jan 2024	-		4.563	Continuing	Continuing	-
MPE-M Live Fire Test and Evaluation	Allot	NSWC : Indian Head, MD	0.278	0.541	Feb 2022	0.337	Jan 2023	4.110	Jan 2024	-		4.110	Continuing	Continuing	-
MPE-M Block II Developmental Test and Evaluation	C/TBD	TBD : TBD	-	-		-		0.981	Aug 2024	-		0.981	Continuing	Continuing	-
MPE-M Variant II Developmental Test and Evaluation	C/TBD	TBD : TBD	-	-		-		0.865	Aug 2024	-		0.865	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MPE-M Block I Developmental Test & Evaluation Congressional Add	C/Various	Various : Various	-	-		0.600	Jan 2023	-		-		-	0.000	0.600	-
MPE-M Block I Live Fire Test & Evaluation Congressional Add	C/Various	Various : Various	-	-		0.600	Jan 2023	-		-		-	0.000	0.600	-
Prior Year Funding - Base	C/Various	Various : Various	2.298	-		-		-		-		-	0.000	2.298	-
Prior Year Funding - OCO	C/Various	Various : Various	0.406	-		-		-		-		-	0.000	0.406	-
Prior Year Funding - Congressional Add	C/Various	Various : Various	11.056	-		-		-		-		-	0.000	11.056	-
Subtotal			18.819	4.655		6.544		17.726		-		17.726	Continuing	Continuing	N/A

Remarks
Footnotes (3) and (4): Increase funds (\$4.000 million) will support the developmental and operational tests for the new developed and modernized capabilities.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	130.599	24.681	34.118	54.862	-	54.862	Continuing	Continuing	N/A

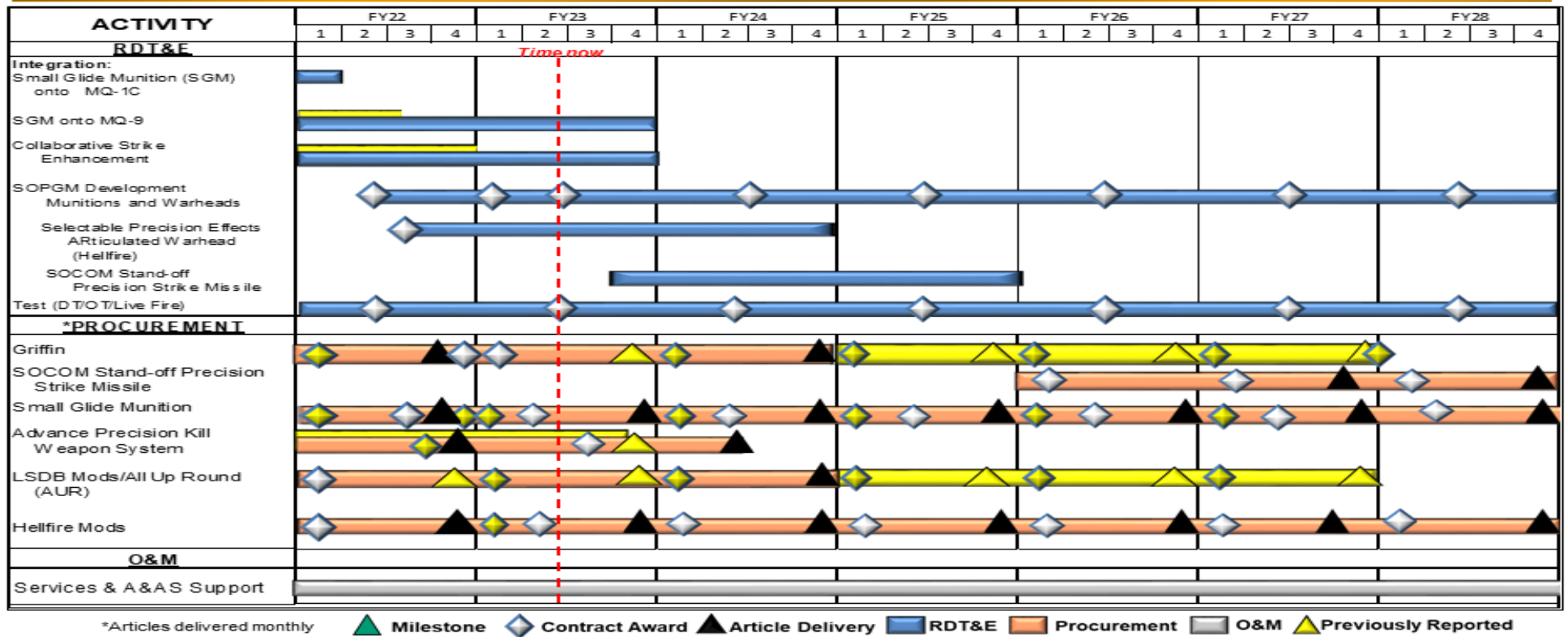
Remarks

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 (SOPGM) Schedule

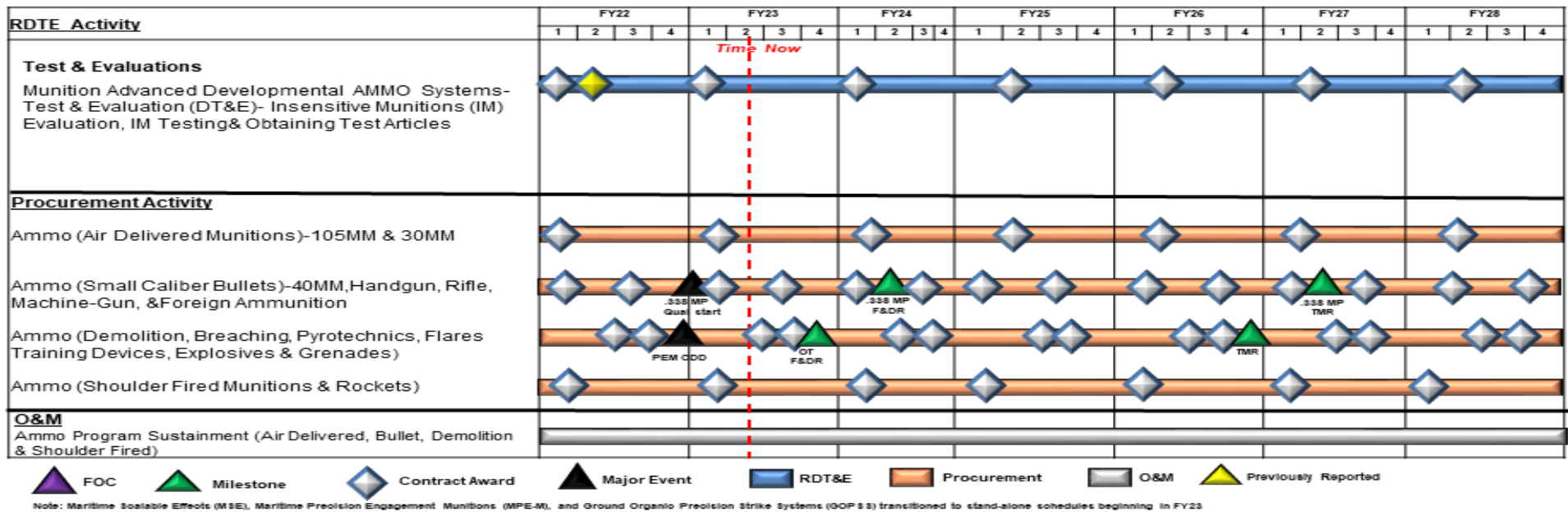


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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command Date: March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / Warrior Systems	Project (Number/Name) S800 / Munitions Advanced Development
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Munitions (Ordnance Items < \$5M) Munitions Advanced Development Schedule

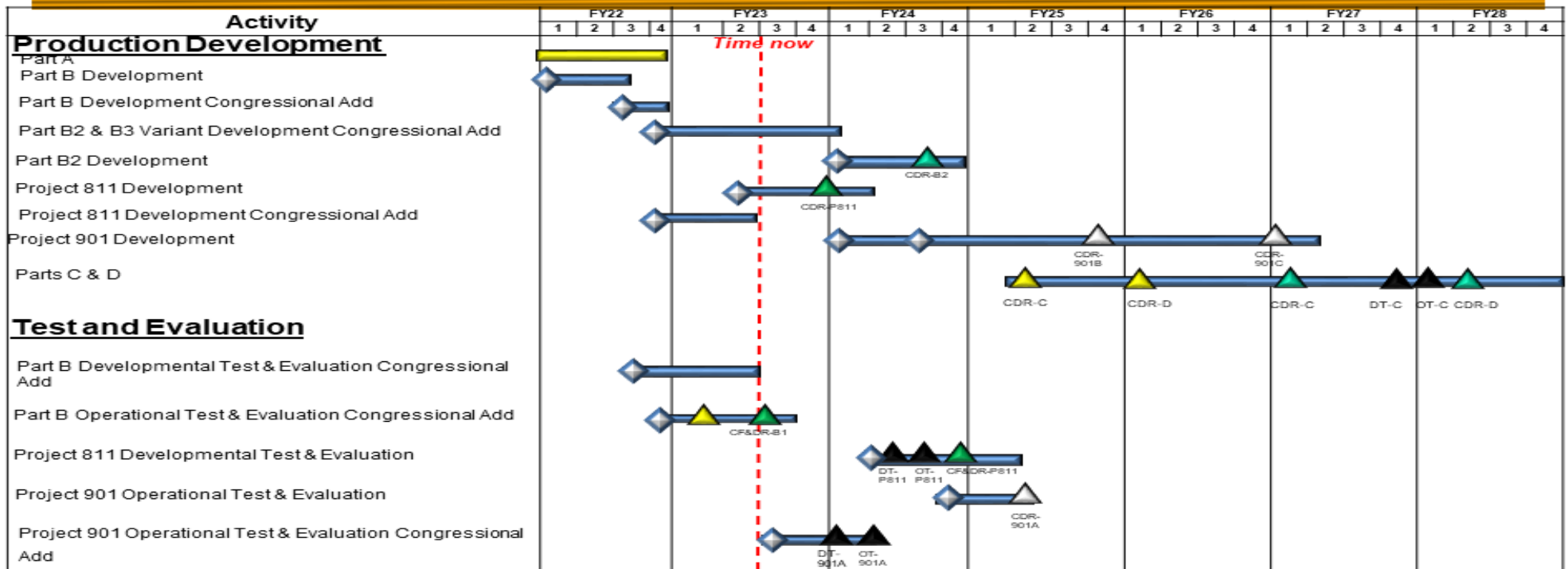


Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S800 / Munitions Advanced Development

Munitions (Ordnance Items < \$5M) Schedule -- Maritime Scalable Effects (MSE)



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

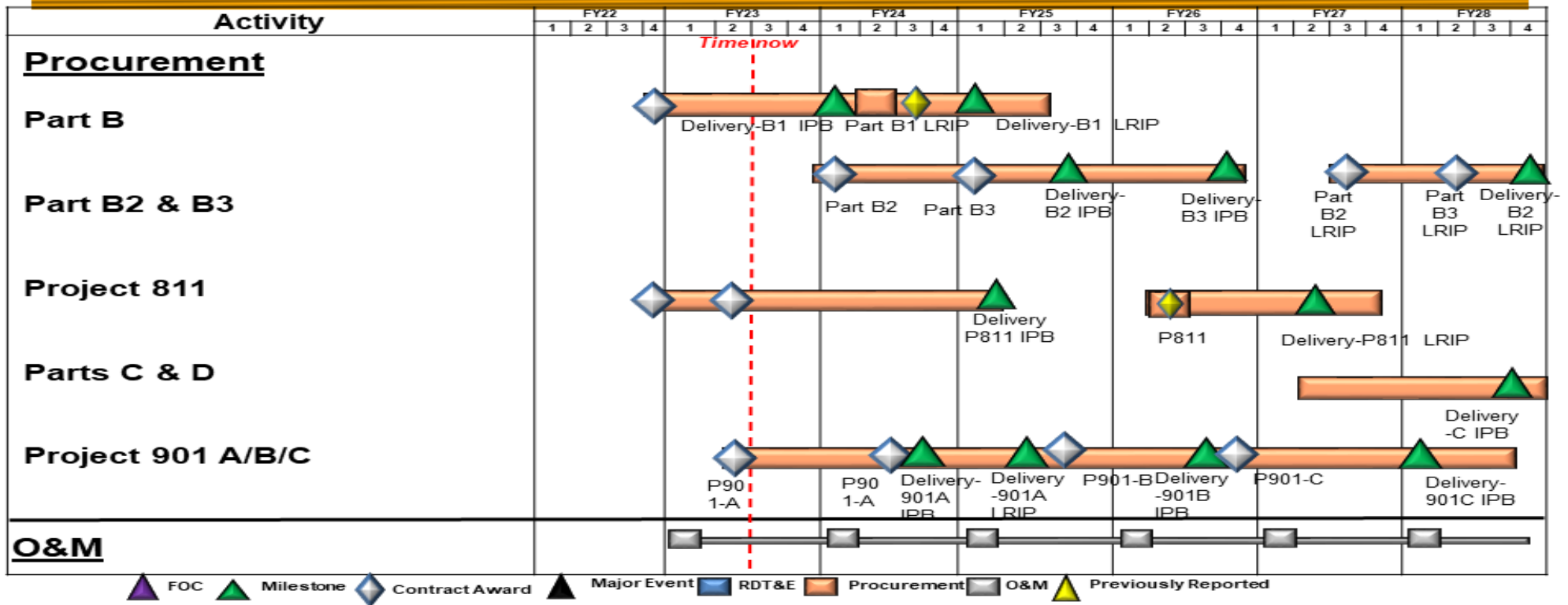
Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned from the Munitions schedule to stand-alone schedules beginning in FY23

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S800 / Munitions Advanced Development

Munitions (Ordnance Items < \$5M) Schedule -- Maritime Scalable Effects (MSE) - Continued



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 2024 United States Special Operations Command

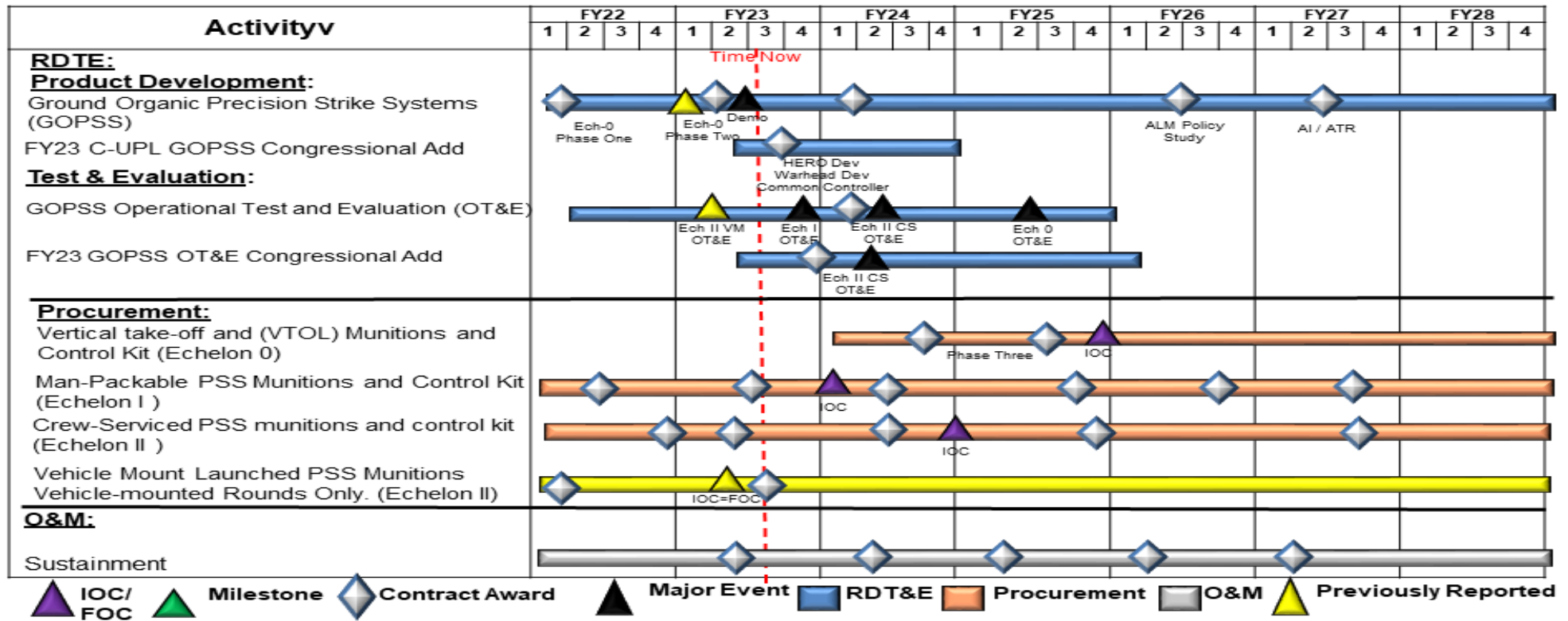
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S800 / Munitions Advanced Development

Munitions (Ordnance Items < \$5M) Schedule – Ground Organic Precision Strike Systems (GOPSS)



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command

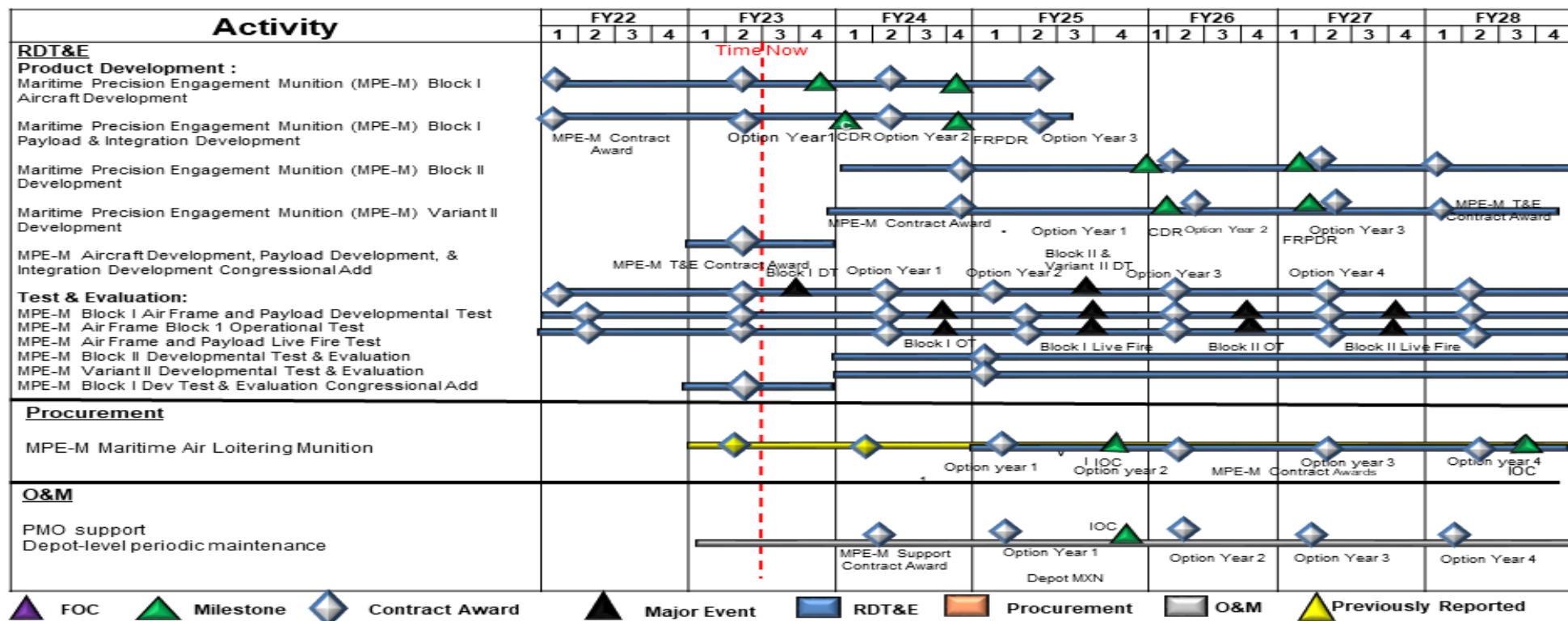
Date: March 2023

Appropriation/Budget Activity
0400 / 7

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

Project (Number/Name)
S800 / Munitions Advanced Development

Munitions (Ordnance Items < \$5M) Maritime Precision Engagement – Munitions (MPE-M) Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Stand-off Precision Guided Munitions (SOPGM)</i>				
Small Glide Munitions (SGM) onto MQ-1C Integration	1	2022	1	2022
SGM onto MQ-9 Integration	1	2022	4	2023
Collaborative Strike Enhancement	1	2022	4	2023
Development Munitions and Warheads	2	2022	4	2028
Selectable Precision Effects Articulated Warhead (Hellfire)	3	2022	4	2024
SOCOM Stand Off Precision Strike Missiles	3	2023	4	2025
Test (Developmental/Operational/Live Fire Test and Evaluation)	1	2022	4	2028
<i>Munitions Advanced Development</i>				
Munitions Advanced Developmental Test and Evaluation	1	2022	4	2028
<i>Maritime Scalable Effects (MSE)</i>				
Part B2 and B3 - Product Development Congressional Add	4	2022	1	2024
Part B - Product Development	1	2022	3	2024
Part B - Product Development Congressional Add	3	2022	4	2022
Part B2 Development	1	2024	4	2024
Project 811 - Product Development	2	2023	1	2024
Project 811 - Product Development Congressional Add	4	2022	2	2023
Project 901 - Product Development	1	2024	1	2027
Part C & D - Product Development	2	2025	4	2028
Part B - Developmental and Operational Test and Evaluation Congressional Add	3	2022	2	2023
Project 811 - Developmental and Operational Test and Evaluation	2	2024	1	2025
Project 901 Operational Test and Evaluation	3	2024	2	2025
Project 901 Operational Test and Evaluation Congressional Add	3	2023	2	2024

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160431BB / <i>Warrior Systems</i>	Project (Number/Name) S800 / <i>Munitions Advanced Development</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Ground Organic Precision Strike Systems (GOPSS)</i>				
Product Development	1	2022	1	2028
Product Development Congressional Add	2	2023	4	2024
Operational Test & Evaluation	1	2022	4	2025
Operational Test & Evaluation Congressional Add	2	2023	4	2025
<i>Maritime Precision Engagement Munition (MPE-M)</i>				
Block 1 Aircraft Development -- Product Development	1	2022	2	2025
Block 1 Payload & Integration Development -- Product Development	1	2022	3	2025
Block II Development -- Product Development	1	2024	4	2028
Variant II Development -- Product Development	1	2024	4	2028
Aircraft Development, Payload Development, & Integration Development -- Congressional Add	1	2023	4	2023
Block I Airframe & Payload -- Developmental Test & Evaluation	1	2022	4	2028
Airframe Block 1 -- Operational Test & Evaluation	1	2022	4	2028
Airframe & Payload -- Live Fire Test & Evaluation	1	2022	4	2028
Block II -- Developmental Test & Evaluation	1	2024	4	2028
Variant II -- Developmental Test & Evaluation	1	2024	4	2028
Block I -- Developmental Test & Evaluation Congressional Add	1	2023	4	2023