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**Department of Defense  
Fiscal Year (FY) 2024 Budget Estimates**

March 2023



**United States Special Operations Command**

*Defense-Wide Justification Book Volume 5 of 5*

***Research, Development, Test & Evaluation, Defense-Wide***

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Department of Defense  
 FY 2024 President's Budget  
 Exhibit R-1 FY 2024 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

Mar 2023

<u>Appropriation</u>	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment*	FY 2023 Total Enactment	FY 2024 Request
Research, Development, Test and Evaluation, Defense-Wide	881,410	1,004,177		1,004,177	1,224,777
<b>Total Research, Development, Test, &amp; Evaluation</b>	<b>881,410</b>	<b>1,004,177</b>		<b>1,004,177</b>	<b>1,224,777</b>

\*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

Fiscal Year (FY) 2024 Overseas Operations Costs funding accounted for in the Base budget total \$17,314.

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	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment*	FY 2023 Total Enactment	FY 2024 Request
<b><u>Summary Recap of Budget Activities</u></b>					
Applied Research	49,458	58,909		58,909	52,287
Advanced Technology Development	108,312	148,062		148,062	156,097
Operational Systems Development	723,640	797,206		797,206	1,016,393
<b>Total Research, Development, Test, &amp; Evaluation</b>	<b>881,410</b>	<b>1,004,177</b>		<b>1,004,177</b>	<b>1,224,777</b>
<b><u>Summary Recap of FYDP Programs</u></b>					
Intelligence and Communications	5,994	6,095		6,095	6,214
Special Operations Forces	875,416	998,082		998,082	1,218,563
<b>Total Research, Development, Test, &amp; Evaluation</b>	<b>881,410</b>	<b>1,004,177</b>		<b>1,004,177</b>	<b>1,224,777</b>

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Appropriation: 0400D Research, Development, Test and Evaluation, Defense-Wide

Line No	Program Element Number	Item	Act	Se c	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment*	FY 2023 Total Enactment
27	1160401BB	SOF Technology Development	02	U	49,458	58,909		58,909
		<b>Applied Research</b>			<b>49,458</b>	<b>58,909</b>		<b>58,909</b>
72	1160402BB	SOF Advanced Technology Development	03	U	108,312	148,062		148,062
		<b>Advanced Technology Development</b>			<b>108,312</b>	<b>148,062</b>		<b>148,062</b>
242	0305208BB	Distributed Common Ground/Surface Systems	07	U	5,994	6,095		6,095
265	1105219BB	MQ-9 UAV	07	U	60,763	27,340		27,340
		Small Business Innovative Research/Small Bus Tech Transfer						
266	1160279BB	Pilot Prog	07	U	28,095			
267	1160403BB	Aviation Systems	07	U	173,209	183,152		183,152
268	1160405BB	Intelligence Systems Development	07	U	30,399	90,136		90,136
269	1160408BB	Operational Enhancements	07	U	172,688	184,260		184,260
270	1160431BB	Warrior Systems	07	U	124,277	166,404		166,404
271	1160432BB	Special Programs	07	U	10,103	518		518
272	1160434BB	Unmanned ISR	07	U	34,006	3,354		3,354
273	1160480BB	SOF Tactical Vehicles	07	U	7,771	10,719		10,719
274	1160483BB	Maritime Systems	07	U	60,345	112,645		112,645
275	1160490BB	Operational Enhancements Intelligence	07	U	15,990	12,583		12,583
		<b>Operational Systems Development</b>			<b>723,640</b>	<b>797,206</b>		<b>797,206</b>
<b>Total Research, Development, Test and Evaluation, Defense-Wide</b>					<b>881,410</b>	<b>1,004,177</b>		<b>1,004,177</b>

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72	1160402BB	SOF Advanced Technology Development	03	U	156,097
	<b>Advanced Technology Development</b>				<b>156,097</b>
242	0305208BB	Distributed Common Ground/Surface Systems	07	U	6,214
265	1105219BB	MQ-9 UAV	07	U	37,188
		Small Business Innovative Research/Small Bus Tech Transfer			
266	1160279BB	Pilot Prog	07	U	
267	1160403BB	Aviation Systems	07	U	216,174
268	1160405BB	Intelligence Systems Development	07	U	86,737
269	1160408BB	Operational Enhancements	07	U	216,135
270	1160431BB	Warrior Systems	07	U	263,374
271	1160432BB	Special Programs	07	U	529
272	1160434BB	Unmanned ISR	07	U	6,727
273	1160480BB	SOF Tactical Vehicles	07	U	9,335
274	1160483BB	Maritime Systems	07	U	158,231
275	1160490BB	Operational Enhancements Intelligence	07	U	15,749
	<b>Operational Systems Development</b>				<b>1,016,393</b>
<b>Total Research, Development, Test and Evaluation, Defense-Wide</b>					<b>1,224,777</b>

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## ACRONYMS

<b>Acronym</b>	<b>Full Naming Convention</b>
3D	Three Dimensional
A2/AD	Anti-Access/Area Denial
A3I	Architecture, Automation, Autonomy, and Interface
AA	Air-to-Air
AbMN	Airborne Mission Networking
ACT	AFT Cabin Trainer
ADM	Acquisition Decision Memorandum
ADS-B	Automatic Dependent Surveillance-Broadcast
AEA	Aviation Engineering Analysis
AFRL	Air Force Research Laboratory
AFSOC	Air Force Special Operations Command
A&FC	Airworthiness and Flight Characteristics
AI	Artificial Intelligence
AISR	Airborne Intelligence, Surveillance, Reconnaissance
ALFPK	Austere Location Force Protection Kits
APNT	Alternative Precision Navigation and Timing
AM	Amplitude Modulation
AMG	Advanced Machine Gun
AMLCD	Active Matrix Liquid Crystal Display
AMN	Airborne Mission Network
AMS	Aviation Management System
AO	Armed Overwatch
APAS	Active Parallel Actuator System
ARSOA	Army Special Operations Aviation
ASE	Aircraft Survivability Equipment
ASIF	All Source Information Fusion
ASR	Advanced Sniper Rifle
ATAC	Asymmetric Target Acquisition Center
ATD	Advanced Technology Demonstration
ATPIALS	Advanced Target Pointer Illuminator Aiming Laser System
ATW	Advanced Threat Warning

## ACRONYMS

AvFID	Aviation Foreign Internal Defense
AVS	Air Variant System
AWR	Air Worthiness Release
BAA	Broad Area Announcement
BFT	Blue Force Tracking
BLOS	Beyond Line of Site
BOA	Basic Ordering Agreement
C2	Command and Control
C3	Command, Control, and Communications
C4	Command, Control, Communications, and Computer
C4I	Command, Control, Communications, Computers, and Intelligence
C4IAS	Command, Control, Communications, and Computer Intelligence Automation Systems
CA	Civil Affairs
CAAS	Common Avionics Architecture Systems
CAR	Combat Assault Rifle
CAS	Close Air Support
CASEVAC	Casualty Evacuation
CBA	Cost Benefit Analysis
CCFLIR	Combatant Craft Forward Looking Infrared Radar
CCA	Combatant Craft - Assault
CCH	Combatant Craft - Heavy
CCM	Combatant Craft - Medium
CCME	Combatant Craft Mission Equipment
CDR	Critical Design Review
CDU	Control Display Units
CEM	Collectible Exploitable Material
CERP	Capital Equipment Replacement Program
CFE	Contractor Furnished Equipment
CHMD	Color Helmet Mounted Display
CIO	Chief Information Officer
CIM	Civil Information Management
CIMDPS	Civil Information Management Data Processing System

## ACRONYMS

CIRCM	Common Infrared Countermeasure
CLS	Contractor Logistics Support
CLT	Common Launch Tube
CMNS	Combat Mission Needs Statement
CMS	Combat Mission Simulator
CNVD	Clip-On Night Vision Device
COCO	Contractor Owned Contractor Operated
COCOM	Combatant Command
COD	Correction of Deficiencies
CONUS	Continental United States
COP	Common Operational Picture
COSI	Clip-On Short Wave Infrared Imager
COTI	Clip-On Thermal Imager
COTM	Communications-on-the-Move
COTS	Commercial-Off-The-Shelf
CP	Counter-Proliferation
CPD	Capabilities Production Document
CQC	Close Quarter Combat
CT	Counter-Terrorism
CWMD	Countering Weapons of Mass Destruction
C-UAS	Counter-Unmanned Aerial Systems
CUxS	Counter-Unmanned Systems
CVEO	Counter Violent Extremist Organization
DAMS	Distributed Audio Media System
DCGS-SOF	Distributed Common Ground/Surface System--Special Operations Forces
DCM	Defensive Countermeasures
DCS	Dry Combat Submersible
DCU	Data Concentrator Unit
DDS	Dry Deck Shelter
DEWDS	Dedicated Electronic Warfare Display
DI2E	Defense Intelligence Information Environment
DNA	Deoxyribonucleic Acid

## ACRONYMS

DOD	Department of Defense
DRWG	Distributed Common Ground/Surface System Working Group
DT	Developmental Testing
DTU	Data Transfer Unit
DVE	Degraded Visual Environment
DVEPS	Degraded Visual Environment Pilotage System
DWR	Defense Wide Review
DWS	Defensive Weapon System
EAC	Exploitation Analysis Centers
ECM	Electronic Countermeasures
ECOS	Enhanced Combat Optical Sights
ECP	Engineering Change Proposal
EDM	Engineering Development Model
EEK	Environmental Enclosure Kits
EGI	Embedded Global Inertial
EGPWS	Enhanced Ground Proximity Warning
ELINT	Electronic Intelligence
EMD	Engineering and Manufacturing Development
ENT/ASIF	Enterprise All Source Information Fusion
EO/IR	Electro-Optical Infrared
EOSS	Electro-Optical Sensor System
EOTACS	Expeditionary Organic Tactical AISR Capability Set
ER	Extended Range
ESA	Enhanced Situational Awareness
ETI	Evolutionary Technology Insertion
EUD	End User Devices
EW	Electronic Warfare
FAA	Federal Aviation Agency
FABS	Fly-Away Broadcast System
FAR	Federal Acquisition Regulation
FADE	Fusion Analysis and Development Effort
FCD	Field Computing Devices

## ACRONYMS

FDWS	Forward Defensive Weapon System
FFRDC	Federally Funded Research Development Center
FFS	Full Flight Simulators
FM	Frequency Modulation
FMV	Full Motion Video
FOC	Full Operational Capability
FoS	Family of Systems
FQT	Functional Qualification Test
FRP	Full Rate Production
FSOV	Family of Special Operations Vehicles
FVL	Future Vertical Lift
FW	Fixed Wing
FY	Fiscal Year
FYDP	Fiscal Year Defense Plan
GATM	Global Air Traffic Management
GCC	Geographical Combatant Commander
GCS	Ground Control Station
GEOINT	Geospatial Intelligence
GFE	Government Furnished Equipment
GIG	Global Information Grid
GMV	Ground Mobility Vehicle
GOCO	Government Owned Contractor Operated
GOPSS	Ground Organic Precision Strike
GOTS	Government-Off-The-Shelf
GPPU	General Purpose Processing Units
GPS	Global Positioning System
GSK	Ground Signals Intelligence Kit
GTR	Gun Training Room
HAIL	Hydro Acoustic Information Link
HEL	High Energy Laser
HEO	Hyper Enabled Operator
HF	High Frequency

## ACRONYMS

HFIS	Hostile Fire Indicator System
HFTTL	Hostile Forces Tagging, Tracking, and Locating
HHI	Hand Held Imager
HLM	Handheld Laser Marker
HSVTOL	High Speed Vertical Take Off & Landing
IC	Intelligence Community
IDIQ	Indefinite Delivery/Indefinite Quantity
ILS	Integrated Logistics Support
IM	Insensitive Munitions
INOD	Improved Night/Day Observation/Fire Control Device
IOC	Initial Operational Capability
IPN	Installation Processing Node
IR	Infrared
IRAD	Industrial Research and Development
IRCM	Infrared Countermeasures
IRES	Improved Rotary Wing Electro-Optical Sensor
IRSS	Infrared Suppression System
ISIS	Islamic State of Iraq and Syria
ISP	Integrated Survey Plan
ISR	Intelligence, Surveillance and Reconnaissance
ISR&T	Intelligence, Surveillance, Reconnaissance, and Targeting
IT	Information Technology
ITMS	Integrated Tactical Mission Systems
JASS	Joint Avionics System Software
JIE	Joint Information Environment
JOS	Joint Operational Stocks
JTAC	Joint Terminal Attack Controller
JTWS	Joint Threat Warning System
LAM	Laser Aiming Marker
LCM	Low Cost Modification
LCS	Load Carriage System
LEA	Long Endurance Aircraft

## ACRONYMS

LFT&E	Live Fire Test and Evaluation
LiDAR	Light Detection and Ranging
LMAMS	Lethal Miniature Aerial Munition Systems
LMG	Lightweight Machine Gun
LOS	Line of Sight
LPI/LPD	Low Probability of Intercept/Low Probably of Detection
LRBS	Long Range Broadcast System
LR/LE	Long Range Endurance
LRIP	Low Rate Initial Production
LRPF	Long-Range Precision Fires
LRU	Line Replaceable Unit
LSDB	Laser--Small Diameter Bomb
LTATV	Lightweight Tactical All-Terrain Vehicle
LWIR	Long-Wave Infrared
MALET	Medium Altitude Long Endurance Tactical
MAAWS	Multi-Purpose Anti-Armor/Anti-Personnel Weapons System
MANET	Mobile Ad-hoc Networking
MC/COP	Mission Command/Common Operational Picture
MCE	Military Construction Collateral Equipment
MDA	Milestone Decision Authority
MDO	Multi-domain Operations
MEDEVAC	Medical Evacuation
MELB	Mission Enhanced Little Bird
MEP	Maritime Environmental Protection
MERIT	Military Exploitation of Reconnaissance and Intelligence Technology
MEUAS	Medium Endurance Unmanned Aerial System
MFD	Multi-Function Display
MFP	Major Force Program
MG	Machine Gun
MGS	Modular Glove System
MICH	Modular Integrated Communications Helmet
MIP	Military Intelligence Program

## ACRONYMS

MIPR	Military Interdepartmental Purchase Request
MISO	Military Information Support Operations
ML	Machine Learning
MLE	Military Liaison Element
MM-ECM	Multi-Mission Electronic Countermeasures
MMP	Multi-Mission Payload
MMR	Multi-Mode Radar
MPE	Maritime Precision Engagement
MPE-M	Maritime Precision Engagement-Munitions
MPU	Mission Processor Unit
MR/ME	Medium Range/Medium Endurance
MS	Milestone
MSE	Maritime Scalable Effects
MSSEP	Mobile SOF Strategic Entry Points
MTA	Middle Tier Acquisition
MTD	Mission Training Devices
MTMN	Maritime Tactical Mission Network
MTPS	Mission Training and Preparation Systems
MTS-B	Multi-Spectral Targeting System--B
MTTE	Maritime Technology Transition and Exploitation
MTUAS	Multi-Mission Tactical Unmanned Aerial System
MWC	Mid-Water Column
MWIR	Mid-Wave Infrared
MWS	Missile Warning System
MYP	Multiyear Procurement
NDI	Non-Developmental Item
NDS	National Defense Strategy
NET	New Equipment Training
NGA	National Geospatial-Intelligence
NGFLIR	Next Generation Forward Looking Infrared Radar
NG CCFLIR	Next Generation Combatant Craft Forward Looking Infrared Radar
NGLS	Next Generation Loud Speakers

## ACRONYMS

NLP	Natural Language Processing
NM	Nautical Mile
NRE	Non-Recurring Engineering
NSAV	Non-Standard Aviation
NSCV	Non-Standard Commercial Vehicle
NSSS	National Systems Support to SOF
NSWC	Naval Surface Warfare Center
NTM	National Technical Means
NVD	Night Vision Devices
OA	Operational Assessment
OAS	Obstacle Avoidance Sonar
OCO	Overseas Contingency Operations
OEM	Original Equipment Manufacturer
OFP	Operational Flight Program
OGA	Other Government Agency
OOC	Overseas Operations Costs
OT	Operational Test
OTA	Other Transaction Authority
OT&E	Operational Test and Evaluation
P3I	Pre-Planned Product Improvement
PCAS	Persistent Close Air Support
PCU	Protective Combat Uniform
PDR	Preliminary Design Review
PE	Program Element
PED	Processing, Exploitation, and Dissemination
PGL	Precision Geo Location
PGM	Precision Guided Munitions
PISA	Predator Integrated Signals Intelligence Architecture
PME	Prime Mission Equipment
POR	Program of Record
PSM	Personal Signature Management
PSP	Precision Strike Package

## ACRONYMS

PTT	Part Task Trainer
QL-CBA	Quick-Look Capabilities-Based Assessment
RAMS	Removable Airborne Military Information Support Operations System
RC-IED	Counter Radio Controlled-Improvised Explosive Device
RCI	Rapid Capability Insertion
R&D	Research and Development
RDT&E	Research, Development, Test, and Evaluation
RECCE	Tactical Reconnaissance Kit
RF	Radio Frequency
RFCM	Radio Frequency Countermeasures
RIS	Radio Integration System
ROP	Remote Observation Post
RPA	Remotely Operated Aircraft
RSTA	Reconnaissance, Surveillance, and Targeting Acquisition
RWR	Radar Warning Receiver
SA	Surface-to-Air
SAFC	Special Applications for Contingencies
SAPNET	Special Access Program Network
SATCOM	Satellite Communications
SBIR	Small Business Innovative Research
SBUD	Simulator Block Updates
SCE	Special Communications Enterprise
SCO	SOF Cryptologic Operator
SDB	Small Diameter Bomb
SDN	SOF Deployable Node
SDN-EP	SOF Deployable Node--Extension Packages
SDN-H	SOF Deployable Node-Heavy
SDN-L	SOF Deployable Node-Light
SDN-M	SOF Deployable Node-Medium
SDV	Sea, Air, Land (SEAL) Delivery Vehicle
SE	Scalable Effects
SEAL	Sea, Air, Land

## ACRONYMS

SEALION	Sea, Air, Land, Insertion Observation Neutralization
SFAC	Security Forces Assistance Craft
SGIP	SOF Geospatial Intelligence Processing Exploitation and Dissemination
SGM	Small Glide Munition
SIE	Special Operations Forces Information Environment
SIGINT	Signals Intelligence
SIL	System Integration Lab
SIM	Sensor Integration Module
SIP	System Integration Partner
SIRFC	Suite of Integrated Radio Frequency Countermeasures
SKR	Silent Knight Radar
SLAP	Speed Loader Agile Pod
SMS	Special Mission System
SOCOM	Special Operations Command
SOCRATES	Special Operations Command, Research, Analysis and Threat Evaluation System
SOF	Special Operations Forces
SOF-P	Special Operations Forces--Peculiar
SOFNET	Special Operations Forces Network
SOFPREP	Special Operations Forces Planning, Rehearsal, and Execution Preparation
SOFSA	Special Operations Forces Support Activity
SOI	Signals of Interest
SOMPE	Special Operations Mission Planning and Execution
SOPGM	Standoff Precision Guided Munitions
SoS	System of Systems
SOTF	Special Operations Task Force
SPCOM	Special Communications Field Segment - Enterprise
SPEAR	SOF Personal Equipment Advanced Requirements
SPPN	Special Purpose Processing Node
SMU	Special Mission Units
SR	Special Reconnaissance
SR/SE	Short Range/Short Endurance
SRTV	Secure Real-Time Video

## ACRONYMS

SSE	Sensitive Site Exploitation
STAMP	SOCOM Tactical Airborne Multi-Sensor Platform
STC	SOF Tactical Communications
STLD	Small Target Location Devices
STTR	Small Business Technology Transfer
STUAS	Small Tactical Unmanned Aerial Systems
SUAS	Small Unmanned Airborne Systems
SURG	Suppressed Upper Receiver Group
SWAP	Size, Weight and Power
SWCS	Shallow Water Combat Submersible
SWIR	Shortwave Infrared
TACLAN	Tactical Local Area Network
TAK	Tactical Assault Kit
TALOS	Tactical Assault Lightweight Operator Suit
TAS	Threat Awareness System
TCCC	Tactical Combat Casualty Care
TDL	Tactical Data Link
TENCAP	Tactical Exploitation of National Capabilities
TF/TA	Terrain Following/Terrain Avoidance
TOCNET	Tactical Operations Center
TMN	Tactical (Airborne) Mission Network
TMS	Tactical Mission Systems
TMMR	Technology Maturation and Risk Reduction
TPAN	Tactical Personal Area Networks
TPE	Theater Provided Equipment
TRL	Technology Readiness Level
TSOC	Theater Special Operations Command
TTA	Tactical Target Acquisition
TTV	Team Transportable Variant
TTL	Tagging, Tracking and Locating
TV	Television
TVS/RSTA	Tactical Video System/Reconnaissance, Surveillance, and Target Acquisition

## ACRONYMS

UARC	University Affiliated Research Agreement
UAS	Unmanned Aerial System
UAV	Unmanned Aerial Vehicle
UBA	Underwater Breathing Apparatus
UCME	Undersea Craft Mission Equipment
UDIF	Ultra-Digital Interface
UGS/UMS	Unattended Ground Sensors/Unattended Maritime Sensors
UHF	Ultra-High Frequency
UI	User Interface
URG	Upper Receiver Groups
URG-I	Upper Receiver Groups-Improved
USS	Unmanned Surface Systems
USSOCOM	United States Special Operations Command
UUV	Unmanned Underwater Vehicle
VAK	Virtual Accompany Kits
VAS	Visual Augmentation Systems
VAS-BM	Visual Augmentation-Binocular-Monocular
VASWA	Visual Augmentation System-Weapons Accessories
VBIED	Vehicle-Borne Improvised Explosive Device
VBL	Visible Bright Light
VBSS	Visit, Board, Search, and Seizure
VHF	Very High Frequency
VTC	Video Teleconferencing
VTOL	Vertical Take Off and Landing
WAN	Wide Area Network
WPAN	Wireless Personal Area Networks
WPNAC	Weapons Accessories

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 2: Applied Research</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160401BB / <i>SOF Technology 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
Total Program Element	672.820	49.458	58.909	52.287	-	52.287	49.101	48.802	49.778	50.773	Continuing	Continuing
S100: <i>SOF Technology Development</i>	672.820	49.458	58.909	52.287	-	52.287	49.101	48.802	49.778	50.773	Continuing	Continuing

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

This Program Element enables the United States Special Operations Command (USSOCOM) to conduct studies and develop laboratory prototypes for applied research and advanced technology development, as well as leverage other organizations' technology projects. Applying small incremental amounts of investments to the Department of Defense (DoD), other government agencies, and commercial organizations allows the USSOCOM to influence the direction of technology development or the schedule against which it is being pursued, and to acquire disruptive solutions and emerging technologies for Special Operations Forces (SOF). This project provides an investment strategy for the USSOCOM to link technology opportunities with capability deficiencies, capability objectives, technology thrust areas, human endurance and sensory performance, and technology development objectives. This investment strategy is aligned to establish future SOF capability in support of Joint Warfighting Concepts. This PE received Congressional Adds in FY 2022 for Long Range Unmanned Surface Vessel (LRUSV) asymmetric strike and decoy package (\$1.500 million) and sustained human performance and resilience (\$5.000 million). This PE also received Congressional Adds in FY 2023 for signature management improvements (\$4.500 million) and assessment of commercial system (\$5.235 million).

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	51.329	49.174	52.287	-	52.287
Current President's Budget	49.458	58.909	52.287	-	52.287
Total Adjustments	-1.871	9.735	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	9.735			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.871	-			

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

**Project:** S100: *SOF Technology Development*

Congressional Add: *Sustained Human Performance and Resilience*

Congressional Add: *Classified Project*

Congressional Add: *Signature Management Improvements*

	FY 2022	FY 2023
	4.817	-
	1.445	-
	-	4.500

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 2: Applied Research</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160401BB / <i>SOF Technology Development</i>
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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

Congressional Add: *Assessment of Commercial Systems*

Congressional Add Subtotals for Project: S100

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	-	5.235
Congressional Add Subtotals for Project: S100	6.262	9.735
Congressional Add Totals for all Projects	6.262	9.735

**Change Summary Explanation**

Funding:

FY 2022: Net decrease of \$1.871 million is due to a reprogramming of funds to the congressionally mandated Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) programs.

FY 2023: Net increase of \$9.735 million is due to Congressional Adds for Signature Management Improvements (\$4.500 million) and Assessment of Commercial Systems (\$5.235 million).

FY 2024: None

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

<b>Appropriation/Budget Activity</b> 0400 / 2	<b>R-1 Program Element (Number/Name)</b> PE 1160401BB / <i>SOF Technology Development</i>	<b>Project (Number/Name)</b> S100 / <i>SOF Technology 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
S100: <i>SOF Technology Development</i>	672.820	49.458	58.909	52.287	-	52.287	49.101	48.802	49.778	50.773	Continuing	Continuing

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

This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments and leverages other organizations' technology projects. Small incremental co-investments with the Department of Defense (DoD), other government agencies, and commercial organizations allow the USSOCOM to influence the schedule and direction of technology developments, emerging technologies, and capabilities for Special Operations Forces (SOF), with significant economies of investment. This USSOCOM investment strategy is used to link technology opportunities with capability deficiencies, capability objectives, technology thrust areas, and technology objectives through key stakeholder relationships with the DoD and government technology developers. Technology development needs in these areas may be advertised to industry and government research and development agencies via agency announcements and calls for white papers.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> SOF Technology Development</p> <p><b>Description:</b> This project conducts studies and develops laboratory prototypes for applied research and advanced technology developments and leverages other organizations' technology projects. This project will continue to exploit and integrate emerging technologies to enable SOF to conduct assigned military responsibilities and expand in support of integrated deterrence. Increases focus on Next Generation Effects, particularly effects that are scalable or non-kinetic; capitalizes on commercial and government discoveries in data and analytics; explores future emplacement and access opportunities, sensor and sensor fusion technology, and biotechnologies and human interface capabilities. This project also funds experimentation and concept development to equip the future SOF warfighter.</p> <p><b>FY 2023 Plans:</b> Continue ongoing technology development projects in areas such as, but not limited to: enabling power technologies; electromagnetic spectrum; data analytics; signature reduction technologies; high data-rate throughput; and advances in lightweight materials. Advance technologies for combat medical equipment, biotechnologies, tactics, human performance, sensors, information sources, and processing improvements, improves human-machine interfaces and displays, identify SOF specific machine learning/artificial intelligence, and secure communications. Based upon agreed technology maturity metrics, transfer successful projects into programs of record. Continue the integration of critical technologies focused on providing the dismounted special operator leap-ahead capabilities via innovative collaborative processes.</p> <p><b>FY 2024 Plans:</b></p>	39.189	45.011	48.027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 2	<b>R-1 Program Element (Number/Name)</b> PE 1160401BB / <i>SOF Technology Development</i>	<b>Project (Number/Name)</b> S100 / <i>SOF Technology Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Continues ongoing technology development projects in areas such as, but not limited to: enabling power technologies; electromagnetic spectrum; data analytics; signature reduction technologies; high data-rate throughput; and advances in lightweight materials. Advances technologies for combat medical equipment, biotechnologies, tactics, human performance, sensors, information sources, and processing improvements, improves human-machine interfaces and displays, identifies SOF-specific machine learning/artificial intelligence, and secure communications. Based upon agreed technology maturity metrics, transfers successful projects into programs of record. Continues the integration of critical technologies focused on providing the dismounted special operator leap-ahead capabilities via innovative collaborative processes.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$3.016 million supports the USSOCOM’s focus on advanced research and development in artificial intelligence, machine learning, digital signature management, sensor integration, non-kinetic attack, and human performance and resiliency in support of the 2022 National Defense Strategy.</p> <p><b>Title:</b> Classified Project</p> <p><b>Description:</b> Classified Project (provided under separate cover).</p> <p><b>FY 2023 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2024 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.097 million will be provided under separate cover. This project is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.</p>	4.007	4.163	4.260
<b>Accomplishments/Planned Programs Subtotals</b>	43.196	49.174	52.287

	<b>FY 2022</b>	<b>FY 2023</b>
<b>Congressional Add:</b> Sustained Human Performance and Resilience	4.817	-
<b>FY 2022 Accomplishments:</b> Continued ongoing development of human performance technology development projects, including performance nutrition and supplementation, achieving the results of exercise via alternative methods, maximizing cognitive performance, musculoskeletal injury prediction, sleep restoration, holistic assessment (e.g., physical/cognitive metrics, biomarkers, and genomics), and tracking of exposures throughout		

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

<b>Appropriation/Budget Activity</b> 0400 / 2	<b>R-1 Program Element (Number/Name)</b> PE 1160401BB / <i>SOF Technology Development</i>	<b>Project (Number/Name)</b> S100 / <i>SOF Technology Development</i>
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	FY 2022	FY 2023
a SOF Operator's career. Continued pursuit of methods to reduce operator load and improve human-machine interfaces and displays.		
<b>Congressional Add:</b> Classified Project <b>FY 2022 Accomplishments:</b> Additional details provided under separate cover. This project is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.	1.445	-
<b>Congressional Add:</b> Signature Management Improvements <b>FY 2023 Plans:</b> This effort funds the fabrication of initial small unmanned aerial systems (sUAS) prototypes based on design work completed under an FY 2022 Congressional Add. The sUAS will be a purpose-built, Government-owned unmanned platform with the payload, range, speed and survivability required by the USSOCOM operators to complete their mission.	-	4.500
<b>Congressional Add:</b> Assessment of Commercial Systems <b>FY 2023 Plans:</b> Identify and characterize capability enablers such as digital twins, synthetic virtual and constructive simulations, range and operator sensor instrumentation, secure network and "quantum-safe" protocols and Internet of Things device integration and tracking for potential inclusion and incorporation into CASPER.	-	5.235
<b>Congressional Adds Subtotals</b>	6.262	9.735

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology 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
Total Program Element	1,609.920	108.312	148.062	156.097	-	156.097	155.005	166.758	179.336	193.859	Continuing	Continuing
S200: <i>Advanced Technology Development</i>	1,516.554	89.712	122.081	129.741	-	129.741	128.249	139.497	151.558	165.355	Continuing	Continuing
SF101: <i>Engineering Analysis</i>	93.366	18.600	25.981	26.356	-	26.356	26.756	27.261	27.778	28.504	Continuing	Continuing

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

Advanced Technology Development (Project S200) conducts rapid prototyping and Advanced Technology Demonstrations (ATDs). ATDs provide a means for evaluating the utility of emerging/advanced technologies in operationally relevant environments with special operations forces (SOF) users. Evaluation results are included in a transition package, which assists in the initiation of or insertion into an acquisition program. ATDs also address projects that are a result of unique joint special mission or area-specific needs for which a few-of-a-kind prototypes must be developed on a rapid response basis, or of sufficient time sensitivity to accelerate the prototyping effort of a normal acquisition program in any phase. The ATD investment strategy is aligned to establish future SOF capability in support of Joint Warfighting Concepts. This project received Congressional Adds in FY 2022; assessing and tracking tactical forces initiative (\$4.000 million); and identity threat mitigation and force protection initiative (\$15.000). This project received Congressional Adds in FY 2023; identity threat mitigation and force protection (\$17.000 million); C-130J autonomous capabilities (\$7.000 million); gesture control integration project (\$5.000 million); unmanned aerial systems electronic deception (\$1.500 million); and global data analytics and visualization (\$8.000 million).

Engineering Analysis (project SF101) provides rapid response capability for the investigation, evaluation, and demonstration of technologies for SOF platform (ground, air, and maritime) and soldier system-unique requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: sensor integration; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation; target detection; weapon performance integration; and future SOF platform and soldier system requirements. This project provides additional engineering analysis and testing required to transition items from national forces to theater forces.

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology Development</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	112.415	118.877	121.097	-	121.097
Current President's Budget	108.312	148.062	156.097	-	156.097
Total Adjustments	-4.103	29.185	35.000	-	35.000
• Congressional General Reductions	-	-0.915			
• Congressional Directed Reductions	-	-8.400			
• Congressional Rescissions	-	-			
• Congressional Adds	-	38.500			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.103	-			
• Adjustments to Budget Year	-	-	35.000	-	35.000

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

**Project:** S200: *Advanced Technology Development*

Congressional Add: *Identity Threat Mitigation and Force Protection Initiative*

Congressional Add: *Assessing and Tracking Tactical Forces Initiatives*

Congressional Add: *C-130J Autonomous Capabilities*

Congressional Add: *Gesture Control Integration Project*

Congressional Add: *Unmanned Aerial Systems Electronic Deception*

Congressional Add: *Global Data Analytics and Visualization*

Congressional Add Subtotals for Project: S200

Congressional Add Totals for all Projects

	<b>FY 2022</b>	<b>FY 2023</b>
	14.453	17.000
	3.854	-
	-	7.000
	-	5.000
	-	1.500
	-	8.000
Congressional Add Subtotals for Project: S200	18.307	38.500
Congressional Add Totals for all Projects	18.307	38.500

**Change Summary Explanation**

Funding:

FY 2022: Net decrease of \$4.103 million is due to a reprogramming of funds to the congressionally mandated Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) programs.

FY 2023: Net increase of \$29.185 million is due to Congressional Adds for Identity Threat Mitigation and Force Protection (\$17.000 million); C-130J Autonomous Capabilities (\$7.000 million); Gesture Control Integration Project (\$5.000 million); Unmanned Aerial Systems Electronic Deception (\$1.500 million); Global

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

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 3: Advanced Technology Development (ATD)</i>	PE 1160402BB / <i>SOF Advanced Technology Development</i>

Data Analytics and Visualization (\$8.000 million), a Congressional Directed Reduction in Engineering Analysis (-\$8.400 million) for reduced growth and a Congressional General Reduction for Federally Funded Research and Development Centers (-\$0.915 million).

FY 2024: Net increase of \$35.000 million supports High Speed Vertical Takeoff and Landing (HSVTOL) engineering development activities and technology risk reduction of critical technologies such as materials, propulsion and flight controls (\$25.000 million) and an increase to support the United States Special Operations Command Rapid Defense Experimentation Reserve (RDER) selected effort for demonstration and experimentation of a critical capability (\$10.000 million).

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 3					<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / SOF Advanced Technology Development				<b>Project (Number/Name)</b> S200 / Advanced Technology Development			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S200: Advanced Technology Development	1,516.554	89.712	122.081	129.741	-	129.741	128.249	139.497	151.558	165.355	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for rapid prototyping, Advanced Technology Demonstrations (ATDs) and Joint Capability Technology Demonstrations. It is a means for demonstrating and evaluating the utility of emerging/advanced technologies in operationally relevant environments with Special Operations Forces (SOF) users. This project integrates disruptive solutions and emerging technologies and then presents them in technology demonstrations, in conjunction with joint experiments and other assessment events. Evaluation results often facilitate the initiation of new programs and the insertion of appropriate technologies to acquisition programs. This program element leverages key stakeholder relationships with the Department of Defense and government technology developers to address unique, joint special mission or area-specific needs for which a few rapid prototypes must be developed on a responsive basis, or of sufficient time sensitivity to accelerate prototyping efforts of a normal acquisition program in any phase.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> SOF Special Technology Project	65.460	77.408	86.924
<b>Description:</b> This project integrates emerging technologies and presents them in technology demonstrations, in conjunction with joint experiments and other assessment events. This project will continue to exploit and integrate emerging technologies to enable SOF to conduct assigned military responsibilities and expand in support of integrated deterrence. Increases focus on next generation effects, particularly effects that are scalable or non-kinetic; capitalizes on commercial and government discoveries in data and analytics; explores future emplacement and access opportunities, sensor and sensor fusion technology, and biotechnologies and human interface capabilities. Also funds experimentation and concept development to equip the future SOF warfighter.			
<b>FY 2023 Plans:</b> Continue the development and insertion of technology into existing programs. Technologies include, but are not limited to: reduced signature profiles; next generation effects; assured communications; command and control systems; machine learning/artificial intelligence; sensors; information sources; emplacement and access; and situational awareness tools; revolutionary materials; power and energy enablers; and technologies that reduce the load of the operator. Continue development of technologies supporting undersea, ground and air mobility. Evaluate and develop opportunities to leverage the electromagnetic spectrum to meet operational requirements. Continue the integration of critical technologies focused on providing the dismounted special operator with leap-ahead capabilities via innovative collaborative processes. Continue to develop sensors, surveillance, network and data management technology to provide tactically relevant situational awareness at the point of need. Continue			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology Development</i>	<b>Project (Number/Name)</b> S200 / <i>Advanced Technology Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>effort for field prototype system incorporating technologies likely to transition to fielded systems. Based upon agreed technology maturity metrics, transfer successful projects into programs of record, and conduct field experimentations at various venues to facilitate technology insertion. Continue the United States Special Operations Command's (USSOCOM) focus on modernization supporting advanced technology development.</p> <p><b>FY 2024 Plans:</b> Continues the development and insertion of technology into existing programs. Technologies include, but are not limited to: reduced signature profiles; next generation effects; assured communications; command and control systems; machine learning / artificial intelligence; sensors; information sources; emplacement and access; situational awareness tools; revolutionary materials; power and energy enablers; and technologies that reduce the load of the operator. Continues development of technologies supporting undersea, ground and air mobility. Evaluates and develops opportunities to leverage the electromagnetic spectrum to meet operational requirements. Continues the integration of critical technologies focused on providing the dismounted special operator with leap-ahead capabilities via innovative collaborative processes. Continues to develop sensors, surveillance, network and data management technology to provide tactically relevant situational awareness at the point of need. Continues effort for field prototype system incorporating technologies likely to transition to fielded systems. Based upon agreed technology maturity metrics, transfer successful projects into programs of record, and conduct field experimentations at various venues to facilitate technology insertion. Continues the USSOCOM's focus on modernization supporting advanced technology development.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$9.516 million is in line with USSOCOM's modernization efforts and guidance to increase funding in Advanced Technology Development in the areas of edge computing, data experimentation, and data fusion, as well as continued advancements in information operations and electronic warfare technologies.</p>			
<p><b>Title:</b> Classified Sub-Project</p> <p><b>Description:</b> Classified Sub-Project (provided under separate cover).</p> <p><b>FY 2023 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2024 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$1.644 million details provided under separate cover. Sub-project is reported in accordance with Title 10, United States Code, Section 119(a)(1), in the Special Access Program Annual Report to Congress.</p>	5.945	6.173	7.817
<p><b>Title:</b> Rapid Defense Experimentation Reserve (RDER)</p>	-	-	10.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / SOF Advanced Technology Development	<b>Project (Number/Name)</b> S200 / Advanced Technology Development

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Description:</b> USSOCOM Rapid Defense Experimentation Reserve development effort.</p> <p><b>FY 2024 Plans:</b> Begins USSOCOM Rapid Defense Experimentation Reserve development effort.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$10.000 million is to begin USSOCOM Rapid Defense Experimentation Reserve development effort.</p>			
<p><b>Title:</b> High Speed Vertical Takeoff and Landing (HSVTOL)</p> <p><b>Description:</b> In conjunction with Defense Advanced Research Projects Agency, HSVTOL supports the development and demonstration of agile and responsive air mobility capabilities to support runway independent operations, increased speed of maneuverability, and to provide the ability to penetrate anti-access (A2)/anti-denial (AD) environments.</p> <p><b>FY 2024 Plans:</b> Begins efforts focused on early engineering activities for a HSVTOL demonstration platform and risk reduction of critical technologies such as materials, propulsion and flight controls.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$25.000 million is for HSVTOL technology demonstrator design and engineering development efforts.</p>	-	-	25.000
<b>Accomplishments/Planned Programs Subtotals</b>	71.405	83.581	129.741

	<b>FY 2022</b>	<b>FY 2023</b>
<p><b>Congressional Add:</b> Identity Threat Mitigation and Force Protection Initiative</p> <p><b>FY 2022 Accomplishments:</b> This effort funded the development of Identity Threat Mitigation Systems for integration into the SOF Digital Ecosystem. Capabilities developed under this effort will provide enhanced identity protection and monitoring capabilities, incorporate new data sources, and enhance data fusion and display methods. Software-intensive Identity Threat Mitigation systems will be managed in accordance with agile methodologies and best practices.</p> <p><b>FY 2023 Plans:</b> This effort funds the continued development of Identity Threat Mitigation Systems for integration into the SOF Digital Ecosystem. Capabilities developed under this effort will provide enhanced identity protection and monitoring capabilities, incorporate new data sources, and enhance data fusion and display methods.</p>	14.453	17.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology Development</i>	<b>Project (Number/Name)</b> S200 / <i>Advanced Technology Development</i>
	<b>FY 2022</b>	<b>FY 2023</b>
Software-intensive Identity Threat Mitigation systems will be managed in accordance with agile methodologies and best practices.		
<b>Congressional Add:</b> Assessing and Tracking Tactical Forces Initiatives <b>FY 2022 Accomplishments:</b> Expanded the Assessing & Tracking Tactical (ATTAC) Forces study to include retrospective analysis of baseline measurements in a long term monitored Special Operations Forces (SOF) population to demonstrate the ability to detect, prevent, and treat cognitive deficits, injury, or illness associated with Traumatic Brain Injury (TBI) and blast exposures associated with combat and training related events. Continued an analysis of blast gauge data correlated with other biometrics and medical history to assess the ability to correlate blast exposure with any trends in the incidence of injury, disease, cognitive decline, behavioral health concerns, or other measures to prevent or correct any effects of Repeated Sub-concussive Blast Exposure. Outcomes aimed to provide tactics, techniques, and procedures that can be incorporated into training and operations to reduce the effects of exposures and extend the career of SOF personnel and quality of life following service.	3.854	-
<b>Congressional Add:</b> C-130J Autonomous Capabilities <b>FY 2023 Plans:</b> This effort funds the development, integration and demonstration of automation and reduced flight deck crew workload on a C-130J platform. Capabilities developed under this effort will provide for elevated mission capabilities, extends operational time of the aircraft, increases safety for flight crews, and significantly cuts down on costs by reducing aircrew.	-	7.000
<b>Congressional Add:</b> Gesture Control Integration Project <b>FY 2023 Plans:</b> This effort funds the development of wearable gesture control technology that is agnostic to drone hardware, enhances interoperability, and compresses the sensor-to-shooter workflow in a “mosaic warfare” environment.	-	5.000
<b>Congressional Add:</b> Unmanned Aerial Systems Electronic Deception <b>FY 2023 Plans:</b> This effort funds the fabrication of initial small, unmanned aerial systems (sUAS) prototypes based on design work completed under an FY 2022 plus-up. The sUAS will be a purpose-built, Government-owned unmanned platform with the payload, range, speed and survivability required by USSOCOM operators to complete their mission.	-	1.500
<b>Congressional Add:</b> Global Data Analytics and Visualization	-	8.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology Development</i>	<b>Project (Number/Name)</b> S200 / <i>Advanced Technology Development</i>

	FY 2022	FY 2023
<b>FY 2023 Plans:</b> This effort funds the integration of university-led supply chain analytics with open source, commercial, government and local contributor data to provide a supply-chain decision support capability at the tactical and operational level.		
<b>Congressional Adds Subtotals</b>	18.307	38.500

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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

<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / SOF Advanced Technology Development	<b>Project (Number/Name)</b> SF101 / Engineering Analysis
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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
SF101: <i>Engineering Analysis</i>	93.366	18.600	25.981	26.356	-	26.356	26.756	27.261	27.778	28.504	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides a rapid response capability to support Special Operations Forces (SOF) programs and capabilities across the enterprise. The purpose is to correct system deficiencies, improve asset life, and enhance mission capability through the means of feasibility studies, analysis of alternatives, pre-developmental risk reduction studies, and engineering analyses. This project provides the engineering required to improve the design and performance integrity of the SOF equipment and software and to integrate disruptive “off-the-shelf” technologies to meet current and emergent capability gaps. This project also conducts risk reduction studies, analyses, and demonstrations to support emerging, time-critical equipment, weapons, and sensor enhancements.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> National to Theater Engineering Analysis</p> <p><b>Description:</b> Provides additional engineering analysis and testing required to transition items from national forces to theater forces.</p> <p><b>FY 2023 Plans:</b> Continue additional testing and evaluation required on various equipment items such as communications, intelligence, weapons, and operator protection planned for transition to SOF Theater Forces.</p> <p><b>FY 2024 Plans:</b> Continues additional testing and evaluation required on various equipment items such as communications, intelligence, weapons, and operator protection planned for transition to SOF Theater Forces.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.056 million supports additional testing and evaluation required on various equipment items.</p>	2.234	2.375	2.431
<p><b>Title:</b> Engineering Analysis</p> <p><b>Description:</b> Funding supports the development of rapid response capabilities to support SOF platform and soldier systems. Supports technology development to correct system deficiencies, improve platform asset life, and enhance mission capabilities. Supports engineering assessments and evaluation of technology feasibility, producibility, and integration into next generation soldier equipment. Supports engineering analysis activities to address platform survivability such as signature management, situational awareness, and versatile mission equipment (payloads, communications, and weapons) to achieve SOF mission objectives. Prioritizes insertion of emergent technology into Programs of Record in a timely manner.</p>	12.546	19.606	19.925

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology Development</i>	<b>Project (Number/Name)</b> SF101 / <i>Engineering Analysis</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b><i>FY 2023 Plans:</i></b> Continue to assess concepts and prototypes that provide increased capability of SOF mobility platforms to include improvements to meet emerging threats. Assess and evaluate advanced methods to deliver next generation effects. Identify, assess, and evaluate improved network and data management systems that incorporate significant improvements to operate in contested environments, systems that improve situational awareness on the battlefield, and disruptive technologies to enable Intelligence, Surveillance and Reconnaissance in future environments. Continue to assess materials, concepts, and prototypes to increase operator effectiveness and situational awareness in all environments. Continue engineering analysis activities to improve SOF platform mission survivability. Activities include signature management (acoustic, infrared, radio frequency), situational awareness with full spectrum threat warning and countermeasures, and versatile mission equipment (payloads, communications, and weapons) to improve SOF survivability in less than permissive operating environments.</p> <p><b><i>FY 2024 Plans:</i></b> Continues to assess concepts and prototypes that provide increased capability of SOF mobility platforms to include improvements to meet emerging threats. Assesses and evaluates advanced methods to deliver next generation effects. Identifies, assess, and evaluates improved network and data management systems that incorporate significant improvements to operate in contested environments, systems that improve situational awareness on the battlefield, and disruptive technologies to enable ISR in future environments. Continues to assess materials, concepts, and prototypes to increase operator effectiveness and situational awareness in all environments. Continues engineering analysis activities to improve SOF platform mission survivability. Activities include signature management (acoustic, infrared, radio frequency), situational awareness with full spectrum threat warning and countermeasures, and versatile mission equipment (payloads, communications, and weapons) to improve SOF survivability in less than permissive operating environments.</p> <p><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Increase of \$0.319 million supports developing rapid response capabilities by responsively integrating disruptive technology into programs of record in the areas of data fusion, next generation effects and information dominance through a variety of acquisition pathways. These funds are key to overcoming the valley of death that is exacerbated by leap-ahead technology development that is not aligned with standard acquisition methodologies and timelines.</p>			
<p><b><i>Title:</i></b> Experimentation Force</p> <p><b><i>Description:</i></b> Funding supports the integration of technology with operational vignette-based experiments designed to stimulate innovative applications across all domains addressing SOF specific modernization needs.</p> <p><b><i>FY 2023 Plans:</i></b></p>	3.820	4.000	4.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 3	<b>R-1 Program Element (Number/Name)</b> PE 1160402BB / <i>SOF Advanced Technology Development</i>	<b>Project (Number/Name)</b> SF101 / <i>Engineering Analysis</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Continue the development of innovative concepts, conduct experimentation to develop hyper-enabled teams capable of conducting globally integrated special operations across all domains.  <b>FY 2024 Plans:</b> Continues the development of innovative concepts, conducts experimentation to develop hyper-enabled teams capable of conducting globally integrated special operations across all domains.			
<b>Accomplishments/Planned Programs Subtotals</b>	18.600	25.981	26.356

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

N/A

**Remarks**

**D. Acquisition Strategy**

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface 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	67.351	5.994	6.095	6.214	-	6.214	5.854	6.066	6.187	6.311	Continuing	Continuing
S400A: <i>Distributed Common Ground/Surface Systems</i>	67.351	5.994	6.095	6.214	-	6.214	5.854	6.066	6.187	6.311	Continuing	Continuing

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

This Program Element is part of the Military Intelligence Program (MIP). The Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF) is part of a family of systems providing rapid fielding of Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, Dissemination (PED), and analytical capabilities at the Combatant Commands (COCOM), Component/Theater Special Operations Commands (TSOC) level and below through a combination of reach back, forward support, and collaboration. The mission tailored infrastructure interconnects the warfighters, analysts, and sensors to find and fix high value targets and provides a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services with SOF and between the Services, national intelligence agencies, COCOMs, and multi-national partners. DCGS-SOF connects SOF warfighters and analysts with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The two components of DCGS-SOF are Enterprise/All Source Information Fusion (ENT/ASIF) and SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP). ENT/ASIF provides infrastructure, processing, and intelligence analytical tools for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. SGIP provides capabilities in garrison and deployed environments for the PED of crewed and uncrewed sensors.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	5.994	6.095	6.214	-	6.214
Current President's Budget	5.994	6.095	6.214	-	6.214
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

**Change Summary Explanation**

Funding:

FY 2022: None.

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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: *Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development*

**R-1 Program Element (Number/Name)**  
PE 0305208BB / *Distributed Common Ground/Surface Systems*

FY 2023: None.

FY 2024: None.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>				<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S400A: <i>Distributed Common Ground/Surface Systems</i>	67.351	5.994	6.095	6.214	-	6.214	5.854	6.066	6.187	6.311	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project is part of the Military Intelligence Program (MIP). The Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF) is part of a family of systems providing rapid fielding of Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, Dissemination (PED), and analytical capabilities at the Combatant Commands (COCOM), Component/Theater Special Operations Commands (TSOC) level and below through a combination of reach back, forward support, and collaboration. The mission tailored infrastructure interconnects the warfighters, analysts, and sensors to find and fix high value targets and provides a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services with SOF and between the Services, national intelligence agencies, COCOMs and multi-national partners. DCGS-SOF connects SOF warfighters and analysts with the essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The two components of DCGS-SOF are Enterprise/All Source Information Fusion (ENT/ASIF) and SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP). ENT/ASIF provides infrastructure, processing, and intelligence analytical tools for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. SGIP provides capabilities in garrison and deployed environments for the PED of crewed and uncrewed sensors.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> DCGS-SOF Program Number 837	5.994	6.095	6.214
<b>Description:</b> The DCGS-SOF is composed of two major components: Enterprise/ASIF and SGIP. The DCGS-SOF develops and integrates SOF hardware and software networks that provide the United States Special Operations Command (USSOCOM) with unique decision capabilities to include: measurement and signature data; sensor exploitation; data compressions and man-portable workstations. The DCGS-SOF provides the supporting architecture to link the Global Sensor Network to those who will interpret the data for rapid transmission to collaborative partners via the SOF Information Environment (SIE).			
<b>FY 2023 Plans:</b> Continue technology development, integration of emerging technologies, software solutions and capability enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: advanced analytics; User Interfaces (UI); cloud computing; machine learning; and disconnected operations capability. Continue technology development, testing and integration of emerging technologies for SGIP. Continue DCGS-SOF Limited Objective Events and exercise participation to test integration of emerging technologies and obtain user feedback of items in development.			
<b>FY 2024 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>	<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Provides technical integration of software tools and interoperability for data ingress/egress within the software acquisition pathway's agile practice for ASIF analysts. Continues technology development, integration of emerging technologies, software solutions and capabilities enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: advanced analytics; UI; cloud computing; machine learning; and disconnected operations capability. Continues technology development, testing and integration of emerging technologies for SGIP. Continues DCGS-SOF support training, Limited Objective Events, and exercise participation to test integration of emerging technologies and obtain user feedback of items in development.  <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.119 million funds continued development, integration, and modernization efforts, as well as associated program support.			
<b>Accomplishments/Planned Programs Subtotals</b>	5.994	6.095	6.214

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/020401INTL: <i>Distributed Common Ground/Surface System</i>	5.991	2.214	5.718	-	5.718	4.175	3.037	3.952	4.031	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**  
The DCGS SOF ENT/ASIF employs the software acquisition pathway to facilitate rapid and iterative delivery of operational software to meet dynamic SOF requirements. DCGS-SOF leverages SOF programs, Department of Defense (DoD) and Intelligence Community partners, national labs, and other government agencies to integrate Commercial Off The Shelf/Government Off The Shelf, hardware and software solutions, and other mature technologies into the Program of Record which will reside partially within the SOF Information Enterprise combined with Web-Client tools in a global cloud. These alliances enable more agile access to (searchable, discoverable) and sharing of larger data domains and services to meet SOF-peculiar, documented requirements. The technology allows for seamless integration and federation with DoD, Interagency, and Coalition tactical ISR PED systems. The USSOCOM employs an agile software development process with capability insertions into the development baseline for assessment and future deployment into the operational baseline. All development requirements are prioritized through the DCGS SOF USER Group chaired by the USSOCOM. Once approved, the requirements are evaluated and scheduled by engineering development teams. Using this methodology allows capabilities to be inserted in a fast and agile manner based on user requirements and priorities. All Evolutionary Technology Insertions (ETIs) contained in the subsequent Exhibit R-4, RDT&E Schedule Profile, are based on current projections. As requirements evolve, based on the DCGS-SOF Working Group decisions, the ETI and version capabilities identified are subject to change.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>	<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Enterprise / All Source Information Fusion (ENT/ASIF) - Development and Integration	Various	Various : Various	17.407	3.732	Jan 2022	4.493	Jan 2023	3.453	Mar 2024	-		3.453	Continuing	Continuing	-
SOF Geospatial Intelligence Processing Exploitation, and Dissemination (SGIP) - Capabilities Modernization	Various	Various : Various	20.490	0.600	Jan 2022	0.750	Jan 2023	1.000	Apr 2024	-		1.000	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	5.553	-		-		-		-		-	0.000	5.553	-
<b>Subtotal</b>			43.450	4.332		5.243		4.453		-		4.453	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
(ENT/ASIF) Program Support	C/FFP	Various : Various	8.082	1.225	Mar 2022	0.591	Jul 2023	1.500	Jun 2024	-		1.500	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	0.576	-		-		-		-		-	0.000	0.576	-
<b>Subtotal</b>			8.658	1.225		0.591		1.500		-		1.500	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ENT/ASIF Developmental Test and Evaluation	MIPR	Various : Various	2.960	0.176	Oct 2021	-		-		-		-	0.000	3.136	-
Developmental Test and Evaluation - Interoperability Support	MIPR	JITC : Ft Huachuca, AZ	2.617	0.261	Feb 2022	0.261	Feb 2023	0.261	Feb 2024	-		0.261	Continuing	Continuing	-

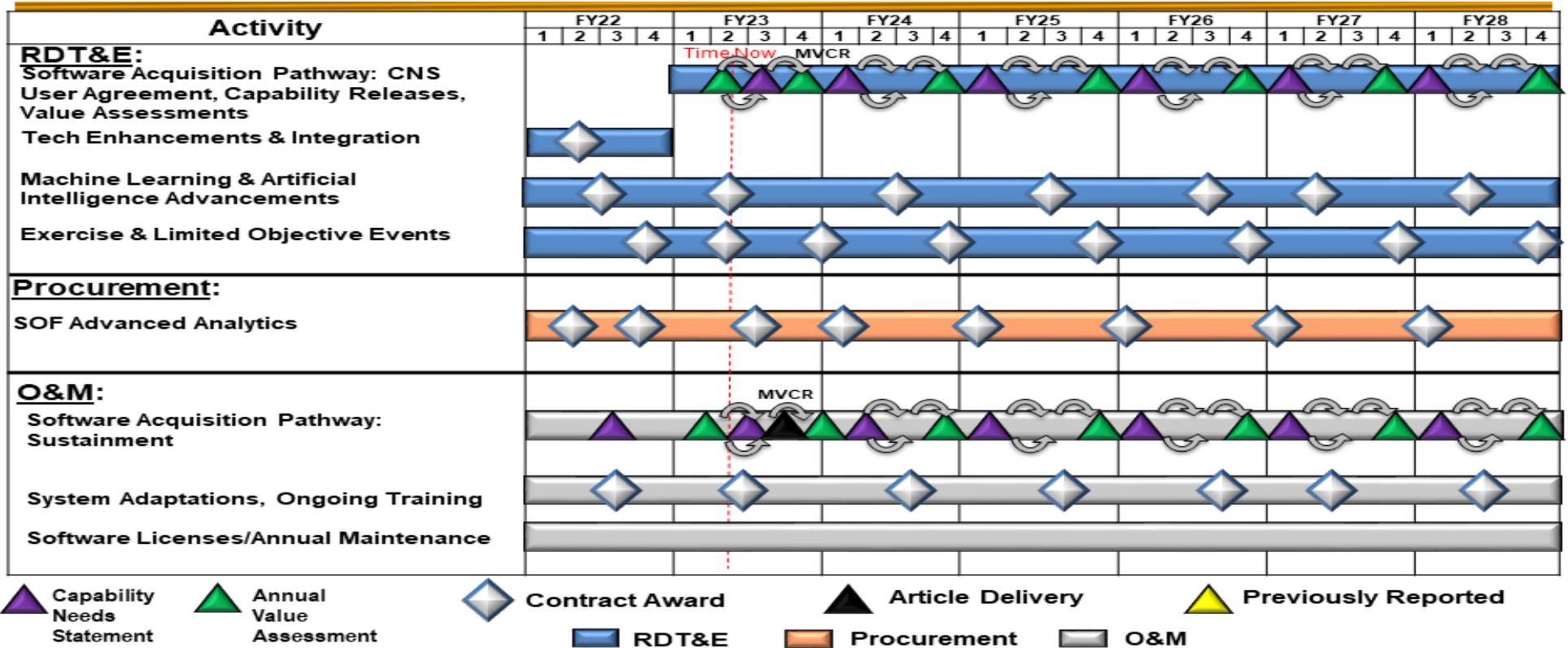


Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 0305208BB / Distributed Common Ground/Surface Systems

Project (Number/Name)  
S400A / Distributed Common Ground/Surface Systems

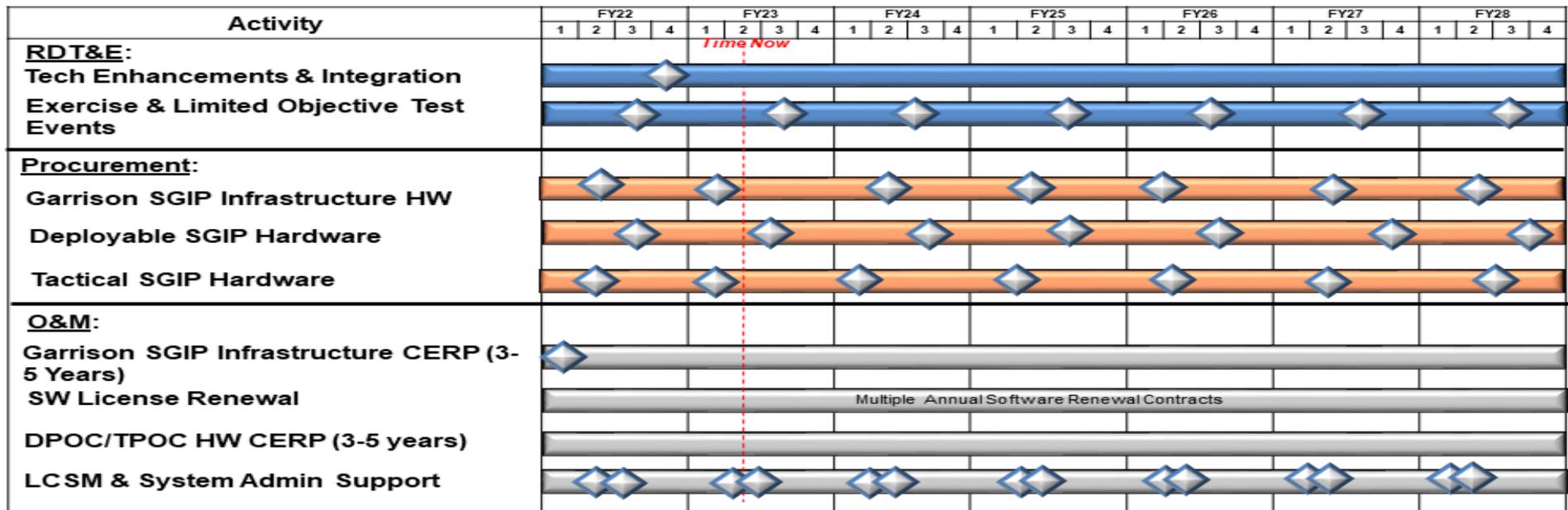
## Special Operations Forces Enterprise/All Source Information Fusion (ENT/ASIF) Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>	<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>

## Special Operations Forces Geospatial Intelligence Processing, Exploitation and Dissemination (SGIP) Schedule



Milestone   
 Previously Reported   
 Contract Award   
 RDT&E   
 Procurement   
 O&M

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>	<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Enterprise/All Source Information Fusion (ENT/ASIF)</i></b>				
Software Acquisition Pathway: Capability Needs Statement (CNS) User Agreement, Capability Releases, Value Assessments	1	2023	4	2028
Technology Enhancements & Integration	1	2022	4	2022
Machine Learning and Artificial Intelligence Advancements	1	2022	4	2028
Exercise & Limited Objective Events	1	2022	4	2028
<b><i>Special Operations Forces Geospatial Intelligence Processing and Dissemination (SGIP)</i></b>				
Technology Enhancements & Integration	1	2022	4	2028
Exercise & Limited Objective Test Events	1	2022	4	2028

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)
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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	171.524	60.763	27.340	37.188	-	37.188	44.851	72.785	85.363	38.123	Continuing	Continuing
S851: <i>MQ-9 Unmanned Aerial Vehicle (UAV)</i>	171.524	60.763	27.340	37.188	-	37.188	44.851	72.785	85.363	38.123	Continuing	Continuing

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

This Program Element (PE) identifies, develops, rapidly prototypes, integrates, and tests Special Operations Forces (SOF)-peculiar mission kits, mission payloads, weapons, and modifications on MQ-9 Unmanned Aerial Vehicles (UAVs), Ground Control Stations (GCSs), and training systems as a component of the Medium Altitude Long Endurance Tactical (MALET) program. The United States Special Operations Command (USSOCOM) is designated as the DoD lead for planning, synchronizing, and as directed, executing global operations against terrorist networks. The USSOCOM requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This program element addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Target Acquisition and Strike. This PE received Congressional Adds in FY 2022 for Speed Loader Agile Pod (\$10.000 million) and Self-protection pods (\$34.000 million). This PE also received Congressional Adds in FY 2023 for lightweight open architecture pod (\$7.500 million) and to support Adaptive airborne Enterprise (\$5.840 million).

The total cost of the MQ-9 Middle Tier of Acquisition effort is \$426.506 million, including RDT&E and procurement of prototype units. The MQ-9 is fully funded across the Future Years Defense Program.

<b>B. Program Change Summary (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	63.065	14.000	29.688	-	29.688
Current President's Budget	60.763	27.340	37.188	-	37.188
Total Adjustments	-2.302	13.340	7.500	-	7.500
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	13.340			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.302	-			
• Adjustments to Budget Year	-	-	7.500	-	7.500

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

**Project:** S851: *MQ-9 Unmanned Aerial Vehicle (UAV)*

FY 2022	FY 2023

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)
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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

Congressional Add: *Speed Loader Agile Pod*

Congressional Add: *Self-Protection Pods*

Congressional Add: *Lightweight Open Architecture Pod*

Congressional Add Subtotals for Project: S851

Congressional Add Totals for all Projects

	FY 2022	FY 2023
Congressional Add: <i>Speed Loader Agile Pod</i>	9.635	-
Congressional Add: <i>Self-Protection Pods</i>	32.759	-
Congressional Add: <i>Lightweight Open Architecture Pod</i>	-	7.500
Congressional Add Subtotals for Project: S851	42.394	7.500
Congressional Add Totals for all Projects	42.394	7.500

**Change Summary Explanation**

Funding:

FY 2022: Net decrease of \$2.302 million is due to a reprogramming of funds to the congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs.

FY 2023: Net increase of \$13.340 million is due to a Congressional Add for lightweight open architecture pod (\$7.500 million) and a Congressionally approved transfer from O&M, DW, 1PL7 for kick-off initiatives supporting Adaptive Airborne Enterprise (A2E) (\$5.840 million).

FY 2024: Net increase of \$7.500 million supports development of the Adaptive Airborne Enterprise (A2E) concept, which includes the MQ-9 Weapon System. These efforts will include integration of a Modular Open-System Architecture (MOSA) and collaboration environments that facilitate a more efficient and expeditious integration and fielding of SOF-p capabilities.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)
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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
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	171.524	60.763	27.340	37.188	-	37.188	44.851	72.785	85.363	38.123	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

As the supported Combatant Command in global operations, the United States Special Operations Command (USSOCOM) requires the capability to find, fix, finish, exploit, and analyze time-sensitive high-value targets. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This project addresses the primary areas of Intelligence, Surveillance, Reconnaissance, and Target Acquisition and Strike. The majority of the developmental funds provides for the Operational Flight Program (OFP) Software for the aircraft, Ground Control Station (GCS), and turret. Special Operations Forces-peculiar (SOF-p) modifications to the OFP allow for a rapid integration of emerging capabilities in order to maintain relevance and dominance of the MQ-9 in support of the 2022 National Defense Strategy (NDS).

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> MQ-9 Unmanned Aerial Vehicles (UAVs), Program Number 839	18.369	19.840	37.188
<b>Description:</b> Identifies, develops, integrates, and tests SOF-p mission kits, mission payloads, weapons, and modifications on MQ-9 UAS, GCSs, and training systems.			
<b>FY 2023 Plans:</b> Develop, test, and integrate SOF-p emerging technology mission kits, mission payloads, weapons and modifications for the MQ-9 weapon systems.			
<b>FY 2024 Plans:</b> Develops, tests, and integrates SOF-p emerging technology mission kits, mission payloads, weapons and modifications onto the MQ-9 aircraft. This includes Adaptive Airborne Enterprise, Ground Control System, turrets, and training systems; additionally, facilitates integration of SOF-p weapons and sensors.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$17.348 million supports initial efforts to incorporate Adaptive Airborne Enterprise concepts, which include the MQ-9 Weapon System. These efforts will include integration of a Modular Open-System Architecture (MOSA) and collaboration environments that facilitate a more efficient and expeditious integration and fielding of SOF-p capabilities.			
<b>Accomplishments/Planned Programs Subtotals</b>	18.369	19.840	37.188

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)
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	FY 2022	FY 2023
<b>Congressional Add:</b> Speed Loader Agile Pod <i>FY 2022 Accomplishments:</i> The Speed Loader Agile Pod (SLAP) provided increased weapons carrying capability within the Common Launch Tube (CLT) family of systems. The SLAP allows the MQ-9 to carry four weapons per pylon.	9.635	-
<b>Congressional Add:</b> Self-Protection Pods <i>FY 2022 Accomplishments:</i> Provided a self-protection capability on the MQ-9. This capability facilitates access and operation in denied or non-permissive airspace. Funds provided for the development and integration of a self-protect pod onto the SOF MQ-9 weapon system and delivery of prototype Engineer Design Model pods for further testing and development of techniques, tactics, and procedure.	32.759	-
<b>Congressional Add:</b> Lightweight Open Architecture Pod <i>FY 2023 Plans:</i> Supports development of the Adaptive Airborne Enterprise (A2E) concept, which includes the MQ-9 Weapon System. These efforts will include integration of a Modular Open-System Architecture (MOSA) and collaboration environments that facilitate a more efficient and expeditious integration and fielding of Special Operations Forces-peculiar (SOF-p) capabilities.	-	7.500
<b>Congressional Adds Subtotals</b>	42.394	7.500

**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/1108MQ9: MQ-9 Unmanned Aerial Vehicle	8.020	14.000	17.684	-	17.684	19.583	25.990	38.439	46.500	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

MQ-9 UAV implements an agile acquisition approach for the MQ-9 aircraft, GCS and Electro-Optical/Infrared (EO/IR) turret sensor and OFP software development. The MQ-9 UAV provides rapid prototyping activities and technology maturation events in order to increase first pass lethality. Contract types include a mix of cost type and fixed priced. Proprietary issues with the aircraft, GCS and sensor software as well as aircraft modification may require sole source contracting to the original equipment manufacturer. MQ-9 UAV leverages service common Contractor Logistics Support (CLS) contracts for aircraft and ancillary equipment sustainment. The MQ-9 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.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-9 Unmanned Aerial Vehicles (UAVs), Ground Control Stations (GCS), Adaptive Airborne Effects (A2E) and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	111.151	14.480	Feb 2022	17.840	Feb 2023	18.340	Nov 2024	-		18.340	Continuing	Continuing	-
MQ-9 UAVs, GCS, and Training Systems	SS/ Various	Raytheon : McKinney, TX	14.189	1.361	Feb 2022	1.000	Feb 2023	6.000	Nov 2024	-		6.000	Continuing	Continuing	-
Adaptive Airborne Enterprise (A2E)	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	-	-		-		9.848	Nov 2023	-		9.848	Continuing	Continuing	-
Speed Loader Agile Pod (Congressional Add)	SS/TBD	Air Force Research Lab (AFRL) : Huntsville, AL	-	4.250	Sep 2022	-		-		-		-	Continuing	Continuing	-
Self Protection Pods (Congressional Add)	SS/CPFF	General Atomics : Poway, CA	-	27.759	Jul 2022	-		-		-		-	Continuing	Continuing	-
Lightweight Open Architecture Pod (Congressional Add)	SS/CPFF	General Atomics : Poway, CA	-	-		4.500	Jul 2023	-		-		-	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	15.671	-		-		-		-		-	0.000	15.671	-
<b>Subtotal</b>			141.011	47.850		23.340		34.188		-		34.188	Continuing	Continuing	N/A

**Remarks**  
Indefinite Delivery, Indefinite Quantity (IDIQ) contract awards every two years for MQ-9 UAVs, Ground Control Stations, and Training Systems

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-9 UAVs, GCS, and Training Systems	SS/ Various	General Atomics Aeronautical	25.213	2.528	Feb 2022	1.000	Feb 2023	1.500	Feb 2024	-		1.500	Continuing	Continuing	-



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

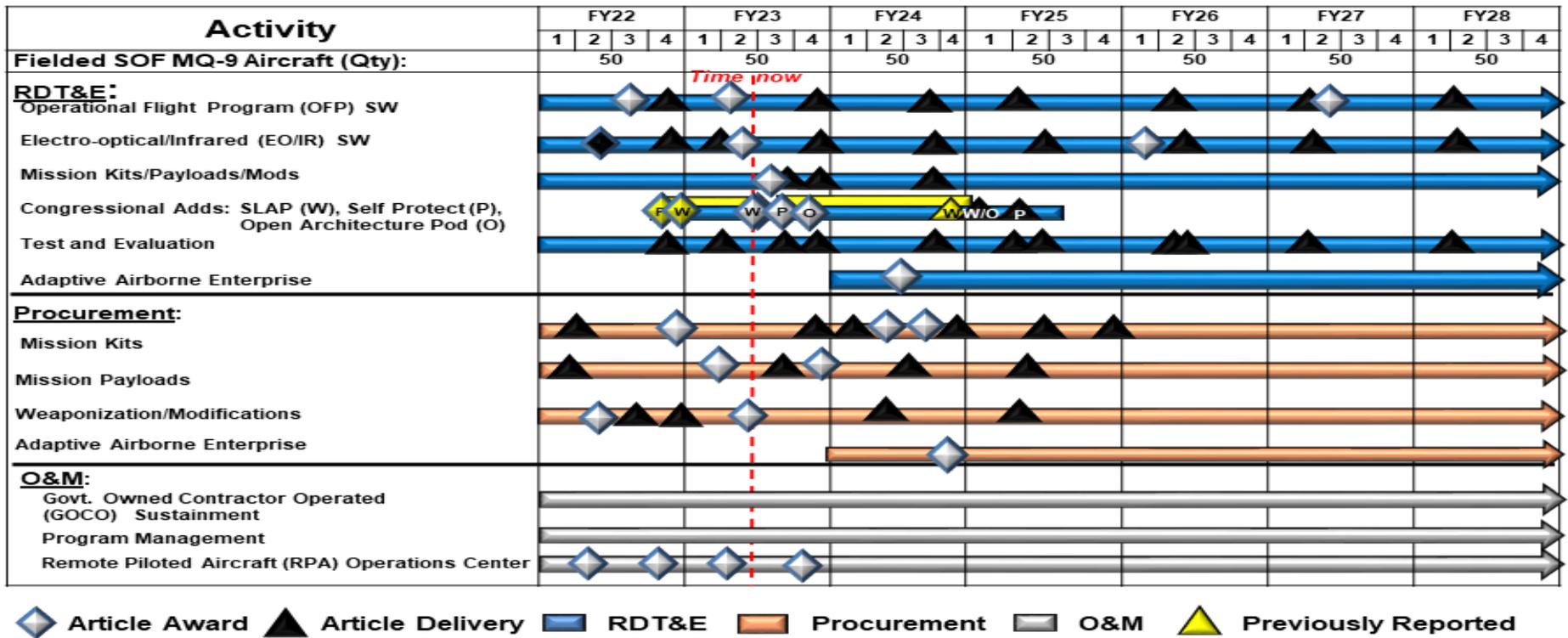
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)

Project (Number/Name)  
S851 / MQ-9 Unmanned Aerial Vehicle (UAV)

# MALET – MQ9 Schedule



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>MQ-9 Unmanned Aerial Vehicles (UAVs)</b>				
Operational Flight Program (OFP) Software (SW)	1	2022	4	2028
Electro-optical/Infrared (EO/IR) SW	1	2022	4	2028
Special Operations Forces-peculiar (SOF-p) Mission Kits/Payloads/Mods	1	2022	4	2028
Speed Loader Agile Pods (Congressional Adds)	1	2023	3	2025
Self Protection Pods (Congressional Adds)	1	2023	3	2025
Lightweight Open Architecture Pod (Congressional Adds)	1	2023	3	2025
Test and Evaluation	1	2022	4	2028
Adaptive Airborne Enterprise	1	2024	4	2028

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</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	316.990	28.095	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S050: <i>Small Business Innovation Research</i>	297.846	24.631	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
S051: <i>Small Business Technology Transfer</i>	19.144	3.464	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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

The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) implements 15 U.S.C Section 638 to maximize the creative innovative, entrepreneurial spirit of small businesses to solve technological problems. The goals of the Small Business Innovation Research (SBIR) program are to stimulate technological innovation, increase private sector commercialization of federal research and development (R&D), increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation. Leveraging the innovation of small business concerns is an important contributor to the development of the cutting-edge technologies that will generate decisive and sustained U.S. military advantages by increasing the readiness, modernization, and lethality of the United States Special Operations Command (USSOCOM). This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter. The goal of the Small Business Technology Transfer (STTR) program is to stimulate a partnership of ideas between small business concerns (SBCs) and research institutions through the USSOCOM funded research or research and development (R/R&D). By providing awards to SBCs or cooperative R/R&D efforts with research institutions, the USSOCOM supports innovation and economic growth to generate decisive and sustained U.S. military advantages. This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	28.095	0.000	0.000	-	0.000
Total Adjustments	28.095	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	28.095	-			

**Change Summary Explanation**

Funding:

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>

FY 2022: Net increase of \$28.095 million is due to reprogrammings from various program elements for the congressionally mandated SBIR (\$24.631 million) and STTR (\$3.464 million) programs.

FY 2023: None.

FY 2024: None.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>				<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S050: <i>Small Business Innovation Research</i>	297.846	24.631	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The goals of the Small Business Innovation Research (SBIR) program are to stimulate technological innovation, increase private sector commercialization of federal research and development (R&D), increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation. Leveraging the innovation of small business concerns is an important contributor to the development of the cutting-edge technologies that will generate decisive and sustained U.S. military advantages by increasing the readiness, modernization, and lethality of the United States Special Operations Command (USSOCOM). This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Small Business Innovation Research (SBIR)	24.631	0.000	0.000
<b>FY 2023 Plans:</b>			
<ul style="list-style-type: none"> <li>• Biotechnology Space (estimated funding, \$4.166 million): In field medical improvements; and combat divers' breathing improvements.</li> <li>• Control and Communications (estimated funding, \$4.204 million): Small tactical ultra-secure communication; low orbital satcom commercial mobile communications, command, and control for common operating picture.</li> <li>• Artificial Intelligence &amp; Machine Learning (estimated funding, \$3.000 million): Monitor and measure development; data analytics; and modeling and simulation.</li> <li>• Advanced Small Arms Ammunition and Precision Strike (estimated funding, \$9.000 million): Improvements to Special Operations Forces (SOF) specific precision strike munitions; Sniper heads up display; and small Unmanned Aerial System (UAS) munition.</li> <li>• Directed energy (estimated funding, \$3.000 million): Hi energy density battery.</li> </ul>			
<b>FY 2024 Plans:</b>			
<ul style="list-style-type: none"> <li>• Biotechnology (estimated funding, \$1.500 million): Concentrated Atropine Sulfate Formulations; Canine In-Ear Hearing Protection.</li> <li>• Control and Communications (estimated funding, \$6.100 million): Privacy Enhancing Technology; Low Size, Weight, and Power Ultra-Secure Communication Systems; Track Correlation/Data Deduplication for SOF Mission Command; Low/No Code Data Manipulation and Discovery for SOF.</li> <li>• Artificial Intelligence (AI) and Machine Learning (M/L) (estimated funding, \$7.700 million): Human Machine Teaming for Reduction of Operator Cognitive Load; Neuromorphic M/L for Fault Management for Space Vehicle Applications; Real Time</li> </ul>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Operations AI and Aviation M/L Applications; Human Machine Teaming for Reduction of Operator Cognitive Load; AI Driven Voice Control at the Edge. • Small Arms Ammunition and Precision Strike (estimated funding, \$5.600 million): Next Generation Tactical Operations Center; Directional Laser Detection System; Positioning, Navigation and Timing for Target Acquisition; Stand-Off Precision Guided Weapon Programs Cruise Missile – Contested Environment; Small UAS Munition Teaming for Advanced Precision Strike. • Directed energy (estimated funding, \$3.014 million): CO2 Scrubber; Electronic Embedded Glass; Optically Transparent Tapered Resistive Films.			
<b>Accomplishments/Planned Programs Subtotals</b>	24.631	0.000	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

SBIR is a three-phase program that provides early-stage R&D to small companies. Eligible projects must fulfill an R&D need identified by the Department of Defense and have the potential to be developed into a product or service for commercial or defense markets. SBIR is designed to stimulate technological innovation, increase private sector commercialization of federal R&D, increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</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			
Small Business Innovation Research (SBIR) Phase I < \$150K	C/Various	Various : Various	47.572	3.750	Nov 2021	-		-		-		-	Continuing	Continuing	-
SBIR Phase II >\$750K	C/Various	Various : Various	51.763	20.881	Nov 2021	-		-		-		-	Continuing	Continuing	-
Prior Year Funding	C/Various	Various : Various	198.511	-		-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			297.846	24.631		-		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	297.846	24.631	-	-	-	-	Continuing	Continuing	N/A

**Remarks**  
Due to multiple awards, the dates listed above reflect the first Phase I and II efforts awarded.



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S050 / <i>Small Business Innovation Research</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Small Business Innovative Research (SBIR)</i></b>				
Phase I Efforts	1	2022	4	2022
Phase II Efforts	1	2022	4	2022

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S051 / <i>Small Business Technology Transfer</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
S051: <i>Small Business Technology Transfer</i>	19.144	3.464	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The goals of the Small Business Technology Transfer (STTR) program is to stimulate a partnership of ideas between small business concerns (SBCs) and research institutions through the United States Special Operations Command (USSOCOM) funded research or research and development (R/R&D). By providing awards to SBCs or cooperative R/R&D efforts with research institutions, USSOCOM supports innovation and economic growth to generate decisive and sustained U.S. military advantages. This program supports high priority projects within the USSOCOM Components, their missions, and the Warfighter.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Small Business Technology Transfer (STTR)	3.464	0.000	0.000
<b>FY 2023 Plans:</b> • A series of feasibility and initial research into the following focus areas (estimated funding, \$3.287 million): Next Gen Effects; Network & Data management; Biotechnologies & Human Interface; Next Generation Mobility; Next Generation Intelligence, Surveillance, and Reconnaissance (ISR) & Situational Awareness (SA); and Hyper Enabled Operator (HEO).			
<b>FY 2024 Plans:</b> • A series of feasibility and initial research into the following focus areas (estimated funding, \$3.363 million ): Next Gen Effects; Network & Data management; Biotechnologies & Human Interface; Next Generation Mobility; Next Generation ISR & SA; and HEO.			
<b>Accomplishments/Planned Programs Subtotals</b>	3.464	0.000	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

The STTR program provides early-stage R&D funding directly to small companies working cooperatively with researchers at universities and other research institutions. The STTR is also a three-phased program designed to stimulate technological innovation, increase private sector commercialization of federal R&D, increase small business participation in federally funded R&D, and foster participation by minority and disadvantaged firms in technological innovation.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S051 / <i>Small Business Technology Transfer</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			
Small Business Technology Transfer (STTR) Phase I <\$150K	C/FFP	Various Vendors : Various Locations	6.600	1.800	Nov 2021	-		-		-		-	Continuing	Continuing	-
STTR Phase II >\$750K	C/Various	Various Vendors : Various Locations	7.421	1.664	Nov 2021	-		-		-		-	Continuing	Continuing	-
Prior Year Funding	C/Various	Various : Various	5.123	-		-		-		-		-	0.000	5.123	-
<b>Subtotal</b>			19.144	3.464		-		-		-		-	Continuing	Continuing	N/A

**Remarks**  
Due to multiple awards, the dates listed above reflect the last Phase I and II awarded.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	19.144	3.464	-	-	-	-	Continuing	Continuing	N/A

**Remarks**  
Due to multiple awards, the dates listed above reflect the first Phase I and II efforts awarded.



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160279BB / <i>Small Business Innovation Research/Small Bus Tech Transfer</i>	<b>Project (Number/Name)</b> S051 / <i>Small Business Technology Transfer</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Small Business Technology Transfer (STTR)</i></b>				
Phase I Efforts	1	2022	4	2022
Phase II Efforts	1	2022	4	2022

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation 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	2,197.207	173.209	183.152	216.174	-	216.174	219.497	143.060	155.717	155.673	Continuing	Continuing
SF100: <i>Aviation Systems Advanced Development</i>	1,554.646	50.477	56.162	56.295	-	56.295	68.544	31.311	49.091	50.073	Continuing	Continuing
SF200: <i>CV-22</i>	76.572	6.655	11.695	21.619	-	21.619	21.289	28.069	23.445	19.834	Continuing	Continuing
SF300: <i>Armed Overwatch/ Targeting</i>	23.354	22.034	1.200	2.000	-	2.000	2.000	2.000	4.000	5.000	Continuing	Continuing
S750: <i>Mission Training and Preparation Systems</i>	60.540	9.854	13.848	3.453	-	3.453	4.596	3.321	3.387	3.455	Continuing	Continuing
S875: <i>AC/MC-130J</i>	143.857	42.963	40.757	65.496	-	65.496	63.116	17.184	17.528	17.879	Continuing	Continuing
D615: <i>Rotary Wing Aviation</i>	338.238	41.226	59.490	67.311	-	67.311	59.952	61.175	58.266	59.432	Continuing	Continuing

**Program MDAP/MAIS Code:**  
**Project MDAP/MAIS Code(s):** 212

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

SF100 Aviation Systems Advanced Development:

This project provides for the development, rapid prototyping, demonstration, and integration of current and maturing technologies for Special Operations Forces-peculiar (SOF-p) aviation and training requirements to transform the foundation of future SOF aviation for the Joint Force in order to support the 2022 National Defense Strategy (NDS). Timely application of SOF-p technology is critical and necessary to meet requirements in areas such as: Aviation Engineering Analysis (AEA); Electronic Warfare (EW) - Radio Frequency Countermeasures (RFCM); High Speed Vertical Takeoff and Landing (HSVTOL); High Energy Laser (HEL); MC-130J Amphibious Capability (MAC); MH-47G and MH-60M SOF Common Terrain Following (TF) / Terrain Avoidance (TA) Silent Knight Radar (SKR); and Precision Strike Package (PSP). The AEA provides engineering analysis, market research, and designs to address aircraft survivability needs such as signature management, situational awareness, and versatile mission platform/equipment (payloads, communication, and weapons) to achieve SOF objectives. The EW-RFCM supports development, integration, and test activities to provide EW capability against Radio Frequency (RF) threats for SOF-p AC/MC-130J aircraft. HSVTOL supports development and demonstration of agile and responsive air mobility capabilities to support runway independent operations, increased speed of maneuverability, and provide the ability to penetrate anti-access (A2)/anti-denial (AD) environments. The HEL supports development of an AC-130J laser weapons system for Low Probability of Detection (LPD) use in complex environments to enable joint/coalition SOF operations against targets such as communication nodes, light-to-medium duty vehicles, and power infrastructures. The MAC supports development and demonstration of amphibious capabilities on a C-130J to support runway independent operations and provide the ability to operate in logistically constrained environments. MH-47G and MH-60M SOF Common TF/TA SKR supports development, integration, and testing of SOF Common TF/TA Multi-Mode Radar (MMR) that provides Low Probability of Intercept (LPI) and LPD capabilities for MH-47G and MH-60M aircraft. The PSP supports systems engineering, analysis, development, and enhancement of the baseline PSP for integration, installation, and test on MC-130J aircraft provided by the U.S Air Force for the SOF AC-130J aircraft and other SOF aviation platforms.

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>
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The total cost of the RFCM Middle Tier of Acquisition (MTA) effort is \$706.242 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. The RFCM effort is fully funded across the Future Years Defense Program (FYDP).

The total cost of the SKR MTA effort is \$567.495 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. The MH-47G/MH-60M SOF Common TF/TA SKR effort is fully funded across the FYDP.

SF200 CV-22 Development/Test and Evaluation:

This project supports integration, design, development, rapid prototyping, and test to provide improved capabilities to include: more robust performance in Situational Awareness (SA); intelligence, surveillance, and reconnaissance (ISR); weapons; avionics; SOF communications; defensive/survivability systems; interoperability; speed and maneuverability; mission deployment and improved reliability and maintainability of the CV-22 platform. The CV-22 Osprey is a SOF variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 provides long-range, high speed, all weather, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive as stated in the 2022 NDS. These capabilities are not currently provided by other existing SOF vertical lift aircraft. Funding supports the following CV-22 requirements: CV-22 SOF Common TF/TA SKR, Block 20 Development, Reliability Improvements, and test aircraft flying hours and maintenance. SOF Common TF/TA SKR supports development of the CV-22 SOF Common TF/TA SKR Operational Flight Program (OFP) software and development of CV-22 platform software and hardware to support integration and testing. Block 20 Development supports design, integration, and testing of CV-22 avionics upgrades and correction of deficiencies to include, but not limited to electronic warfare upgrades; improved crew interface functionality; weapon systems; and Airborne Mission Networking (AbMN). Reliability Improvements supports design, integration, test and validation of system, and sub-system, reliability enhancements to meet required aircraft availability and operational requirements. Reliability Improvements accelerate fielding and retrofitting system design improvements directly increasing CV-22 fleet readiness. Test aircraft flying hours and maintenance supports developmental flight testing and maintenance of the test CV-22 aircraft to ensure integration of the CV-22 SOF Common TF/TA SKR.

The total cost of the SKR MTA effort is \$567.495 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. The TF/TA SKR program is fully funded across the FYDP.

SF300 Armed Overwatch:

This project supports integration and testing of SOF-unique capabilities and aircraft certification efforts for the Armed Overwatch program. Armed Overwatch provides SOF with crewed deployable, affordable, and sustainable aircraft systems capable of executing Close Air Support (CAS), precision strike, and armed ISR requirements in austere and permissive environments for use in irregular warfare operations in support of the 2022 NDS. Armed Overwatch was initially designated a MTA program which utilized a rapid prototype user assessment for a SOF-p, fixed wing aircraft with specific sensors to detect ground assets. The USSOCOM Acquisition Executive approved the program's transition to the Major Capability Acquisition pathway at Milestone C in 4th QTR of FY22.

S750 Mission Training and Preparation Systems (MTPS):

The MTPS project funds the definition, design, development, rapid prototyping, integration, and testing of Special Operations Mission Planning and Execution (SOMPE) systems to support mission planning, rehearsal, and execution requirements to meet SOF-p mission requirements and correct deficiencies in current mission

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>
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planning, rehearsal, and execution capabilities. The MTPS project also includes program management, systems engineering, configuration management, architecture development, risk reduction, and trade study initiatives, as well as initiatives to assure interoperability and commonality between diverse mission planning, rehearsal, and execution systems. Additionally, this project funds the Training Transformation Simulator Block Upgrade Fixed Wing (SBUDF) program that develops and integrates training innovation and transformation solutions across the fixed-wing augmented and virtual reality mission training device portfolio, to include AC-130J, MC-130J, CV-22, U-28, and C-146.

S875 AC/MC-130J:

This project supports the development, rapid prototyping, integration, automation, and testing of the AC-130J and MC-130J aircraft. The AC-130J Ghost rider provides CAS, air interdiction, and armed reconnaissance in support of special operations and conventional forces in contested and degraded environments. The MC-130J Commando II provides clandestine, or low visibility, single or multi-ship, low-level infil, exfil, and resupply of SOF, by airdrop or airland resupply of SOF helicopters and tiltrotor aircraft, intruding politically sensitive or hostile territories. Incremental upgrade and agile software delivery approaches will be used to rapidly prototype, integrate, mature, and continuously improve SOF capabilities for AC-130J and MC 130J aircraft. Efforts like Integrated Tactical Mission Systems (ITMS) provide critical automation and integration of SOF Tactical Mission Systems (TMS), including navigation, communication, precision fire control and aircraft defensive systems required to operate AC-130J and MC-130J aircraft in near-peer conflicts. Requirements include upgrades to integrate and automate SOF TMS's to provide systems interoperability, data fusion and improved situational awareness (SA), improved threat detection and avoidance, integrated TF/TA and SKR improvements, integrated defensive countermeasure (DCM) effects, PSP interoperability, integrated EW, and embedded training. Integrating and automating SOF mission systems that deliver these capabilities is critical to fielding SOF-p AC-130J and MC-130J aircraft to be more lethal, resilient, survivable, agile, and responsive in support of the 2022 NDS.

The total cost of the ITMS MTA effort is \$181.203 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. The ITMS effort is fully funded across the FYDP.

D615 Rotary Wing Aviation:

This project provides for the development, rapid prototyping, demonstration, and integration of current and maturing technologies for SOF-p rotary wing aviation and training requirements. This project provides next generation mobility to allow SOF-p helicopters to operate in denied environments in support of the 2022 National Defense Strategy. This project includes modifications to Aircraft Survivability Equipment (ASE) avionics and weapons systems to counter rapidly emerging threats, address cyber security, improve lethality and enhance aircraft self-protection in contested environments. Rotary wing aircraft supported by this project include: MH-60M; MH-47G; A/MH-6; and Future Vertical Lift (FVL). These aircraft provide aviation support to SOF in worldwide contingency operations and low-intensity conflicts. These aircraft must be capable of rapidly deploying, penetrating hostile areas undetected, and operating at extended ranges under adverse weather conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The anti-access/area denial (A2/AD) threat is characterized by an extensive and sophisticated ground based air defense system and an upgraded air-to-air capability targeted against helicopters. Mission Processor Upgrades (MPU) provides for non-recurring engineering, systems engineering/testing, and future aircraft architecture studies that support replacement and upgrade of the current mission and video processors for all Army Special Operations Aviation (ARSOA) rotary wing aircraft. Tactical Mission Networking (TMN) focuses on technology development of platform software and hardware systems with capabilities to enable aircraft to effectively adapt and overcome the challenges of a highly contested and congested Radio Frequency (RF) environment.

These technologies will be pursued via rapid prototyping efforts when appropriate.

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	173.537	179.499	230.228	-	230.228
Current President's Budget	173.209	183.152	216.174	-	216.174
Total Adjustments	-0.328	3.653	-14.054	-	-14.054
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-6.347			
• Congressional Rescissions	-	-			
• Congressional Adds	-	10.000			
• Congressional Directed Transfers	6.003	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-6.331	-			
• Adjustments to Budget Year	-	-	-14.054	-	-14.054

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

**Project:** SF100: *Aviation Systems Advanced Development*

Congressional Add: *Development of cyber security and continuous monitoring of serial bus systems*

Congressional Add Subtotals for Project: SF100

Congressional Add Totals for all Projects

	<b>FY 2022</b>	<b>FY 2023</b>
	-	10.000
	-	10.000
	-	10.000

**Change Summary Explanation**

Funding:

FY 2022: Net decrease of \$0.328 million is due to a reprogramming of funds to the Congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs (-\$6.331 million) and an Aviation Engineering Analysis (AEA) increase for Ukraine supplemental appropriations act 2022 (\$6.003 million).

FY 2023: Net increase of \$3.653 million is due to the following: a Congressional Add for development of cyber security and continuous monitoring of serial bus systems (\$10.000 million); a Congressionally directed reduction for Mission Processor Upgrades unjustified growth (-\$1.554 million); and a Congressionally directed reduction, details will be provided under separate cover (-\$4.793 million).

FY 2024: Net decrease of \$14.054 million is due the following: a decrease to support classified programs, details provided under separate cover (-\$0.896 million); a decrease due to a transfer of SOMPE funding from Program Element (PE) 1160403BB, Aviation Systems, Project S750, Mission Training and Preparation Systems to PE 1160431BB, Warrior Systems, Project S710, Tactical Systems Development for FY 2024 and beyond (-\$13.977 million); a funding increase to support the accelerated development of the Electronic Warfare-Radio Frequency Countermeasure to improve capability against enhanced threats and

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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: *Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development*

**R-1 Program Element (Number/Name)**  
PE 1160403BB / *Aviation Systems*

replace the single-board computer which provides an enhanced processing capability which increases defensive capability against pacing threats and reduces security vulnerabilities (\$10.000 million); a decrease from Aviation Engineering Analysis for funding transfer to RDT&E, DW, BA07, PE 1160402BB, Project S200 SOF Advanced technology Development for High Speed Vertical Take Off project (-\$35.000 million); a funding increase for Precision Strike Package to complete flight test activities and demonstration of the High Energy Laser (HEL) system on the AC-130J (\$3.000 million); a funding increase to support CV-22 Airborne Mission Networking (AbMN) capabilities, test aircraft flying hours and maintenance, reliability improvements, and completion of SOF Common Terrain Following/Terrain Avoidance (TF/TA) Silent Knight Radar integration (\$21.619 million); and a funding increase for Armed Overwatch which supports modular capability enhancements and payload integration activities (\$1.200 million).

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems				<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
SF100: Aviation Systems Advanced Development	1,554.646	50.477	56.162	56.295	-	56.295	68.544	31.311	49.091	50.073	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for the development, rapid prototyping, demonstration, and integration of current and maturing technologies for Special Operations Forces (SOF)-peculiar aviation and training requirements to transform the foundation of future SOF aviation for the Joint Force in order to support the 2022 National Defense Strategy (NDS). Timely application of SOF-peculiar technology is critical and necessary to meet requirements in areas such as: Aviation Engineering Analysis (AEA), Electronic Warfare (EW) - Radio Frequency Countermeasures (RFCM), High Speed Vertical Takeoff and Landing (HSVTOL), High Energy Laser (HEL), MC-130J Amphibious Capability (MAC), MH-47G and MH-60M SOF Common Terrain Following (TF) / Terrain Avoidance (TA) Silent Knight Radar (SKR), and Precision Strike Package (PSP). AEA provides engineering analysis, market research, and designs to address aircraft survivability needs such as signature management, situational awareness (SA), and versatile mission platform/equipment (payloads, communication, and weapons) to achieve SOF objectives. The EW-RFCM supports development, integration, and test activities to provide EW capability against Radio Frequency (RF) threats for SOF-peculiar AC/MC-130J aircraft. HSVTOL supports development and demonstration of agile and responsive air mobility capabilities to support runway independent operations, increased speed of maneuverability, and provide the ability to penetrate anti-access (A2)/anti-denial (AD) environments. The HEL supports development of an AC-130J laser weapons system for Low Probability of Detection (LPD) use in complex environments to enable joint/coalition SOF operations against targets such as communication nodes, light-to-medium duty vehicles, and power infrastructures. The MAC supports development and demonstration of amphibious capabilities on a C-130J to support runway independent operations and provide the ability to operate in logistically constrained environments. MH-47G and MH-60M SOF Common TF/TA SKR supports development, integration, and testing of SOF Common TF/TA Multi-Mode Radar (MMR) that provides Low Probability of Intercept (LPI) and LPD capabilities for MH-47G and MH-60M aircraft. PSP supports systems engineering, analysis, development, and enhancement of the baseline PSP for integration, installation, and test on SOF AC-130J aircraft and other SOF aviation platforms.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> EW-RFCM, Program Number 768	20.743	10.075	20.220
<b>Description:</b> The EW-RFCM program supports development, integration, and test activities to provide EW capability against RF threats for SOF-peculiar AC/MC-130J aircraft. The RFCM system is part of the Defensive Countermeasures (DCM) suite that provides situational awareness and threat response processing required for SOF missions.			
<b>FY 2023 Plans:</b> Complete aircraft integration and interoperability activities, system qualification, deficiency resolution, system developmental test and system operational test on the AC-130J and MC-130J aircraft. Continue spiral one activity designed to increase RFCM capabilities to meet emerging threats in near-peer environments.			
<b>FY 2024 Plans:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Continues spiral one design, development and operational test activities, to include; completes software program increment qualification test, completes hardware in the loop test, and begins software release.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$10.145 million to support accelerated development and technical refresh of the RFCM system to improve capability against enhanced threats. It will also replace the single-board computer (SBC), a legacy component which limits potential efficacy against pacing threats; the updated next generation SBC will provide enhanced processing while reducing security vulnerabilities.</p>			
<p><b>Title:</b> Precision Strike Package (PSP) for SOF</p> <p><b>Description:</b> The PSP for SOF supports systems engineering, analysis, development, and enhancement of the baseline PSP and integration, installation, and test on SOF AC-130Js and other SOF platforms. The PSP is modular, scalable, and platform agnostic. Missions for the AC-130 aircraft include, but are not limited to: close air support; air interdiction; and armed reconnaissance.</p> <p><b>FY 2024 Plans:</b> Initiates engineering analysis and development to remove the aft weapon system (105mm Gun), refit the aft section, and optimize crew workload in support of the United States Special Operations Command (USSOCOM) crew reduction initiatives.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$1.224 million is to support engineering analysis and development to remove the aft weapon system (105mm Gun), refit the aft section, and optimize PSP functionality for reduced crew workload in support of USSOCOM crew reduction initiatives.</p>	-	-	1.224
<p><b>Title:</b> High Energy Laser (HEL)</p> <p><b>Description:</b> The HEL supports development of an AC-130J laser weapons system for LPD use in complex environments to enable joint/coalition SOF operations against targets such as communication nodes, light-to-medium duty vehicles, and power infrastructures. Utilizing a best of breed approach, it integrates laser, beam control, power, and thermal subsystems via a Government lead system integrator. This provides additional flexibility for rapid prototyping and future modifications.</p> <p><b>FY 2023 Plans:</b> Initiate HEL flight testing. Continue Government integration and ground testing. Perform aircraft fit check and flight test activities.</p> <p><b>FY 2024 Plans:</b> Completes flight test activities and demonstration of the HEL system on the AC-130J.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	11.834	15.970	3.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Decrease of \$12.970 million is due to the estimated completion of flight test activities and demonstration of the HEL system on the AC-130J in 2nd QTR FY 2024.				
<p><b>Title:</b> C-130 SOF Common Terrain Following/Terrain Avoidance Radar (TF/TA SKR), Program Number 778</p> <p><b>Description:</b> The C-130 SOF Common TF/TA SKR supports integration and test of a TF/TA radar and on-board processor to provide a multi-mode terrain following capability on MC-130J aircraft. Crew systems integration efforts include modifications to aircraft controls and displays to automate TF/TA flight management and reduce pilot, copilot and Combat Systems Officer workload during missions previously performed by five aircrew members on legacy MC-130 tankers and penetrators.</p>		7.000	-	-
<p><b>Title:</b> MH-47/MH-60 SOF Common TF/TA SKR, Program Number 778</p> <p><b>Description:</b> The MH-47G and MH-60M SOF Common TF/TA SKR supports development, integration, and testing of SOF Common TF/TA MMR that provides LPI and LPD capabilities to defeat advanced passive detection threats while maintaining safe TF capabilities for MH-47G and MH-60M aircraft.</p> <p><b>FY 2023 Plans:</b> Continue software spiral efforts to reduce TF/TA SKR signature, support data fusions initiatives, and increase reliability.</p> <p><b>FY 2024 Plans:</b> Continues software spiral efforts to reduce TF/TA SKR signature, support data fusions initiatives, and increase reliability.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.050 million supports SKR test engineering costs.</p>		2.011	2.139	2.189
<p><b>Title:</b> Aviation Engineering Analysis (AEA)</p> <p><b>Description:</b> The AEA provides engineering analysis, market research, and develops solutions to address aircraft survivability needs such as signature management, situational awareness (SA), and versatile mission platform/equipment (payloads, communication, and weapons) to achieve SOF objectives.</p> <p><b>FY 2023 Plans:</b> Continue to perform engineering analysis and demonstrations to improve aviation mission survivability, mission automation, sensor fusion, targeting enhancement, cyber hardening, navigation in denied environments, and data link enhancements to support Fixed Wing next generation Intelligence, Surveillance, and Reconnaissance (ISR), Mobility and Strike platforms. Activities include: signature management (acoustic, infrared, radio frequency); SA with full spectrum threat warning and countermeasures; and versatile mission equipment (payloads, communications and weapons) to improve SOF survivability in less than permissive operating environments. Other technology advancements for Fixed Wing platforms include improvements for increased range,</p>		7.289	5.396	14.662

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>speed with reduced time to target, improving ability to insert and recover forces in contested environments and technology analysis on advanced mobility platforms (deep penetrating and aquatic landing). Strike enhancements include targeting/engagement automation, weapons effects and stand-off capability. Begins additional efforts that will focus on early engineering analysis activities for amphibious capability.</p> <p><b>FY 2024 Plans:</b> Continues to perform engineering analysis and demonstrations to improve aviation mission survivability, mission automation, sensor fusion, targeting enhancement, cyber hardening, navigation in denied environments, and data link enhancements to support Fixed Wing next generation ISR, Mobility and Strike platforms. Activities include: signature management; SA with full spectrum threat warning and countermeasures; and versatile mission equipment (payloads, communications and weapons) to improve SOF survivability in less than permissive operating environments. Other technology advancements for Fixed Wing platforms include improvements for increased range, speed with reduced time to target, improving ability to insert and recover forces in contested environments and technology analysis on advanced mobility platforms (deep penetrating and aquatic landing). Strike enhancements include targeting/engagement automation, weapons effects and stand-off capability.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$7.866 million is to support increased efforts for AEA efforts to include crewed and uncrewed autonomy and next generation aviation capabilities.</p>			
<p><b>Title:</b> High Speed Vertical Takeoff and Landing (HSVTOL)</p> <p><b>Description:</b> The HSVTOL supports development and demonstration of HSVTOL capabilities to support runway independent operations, increased speed of maneuverability, and provide ability to operate in contested environments.</p> <p><b>FY 2023 Plans:</b> Leverages efforts from U.S. Air Force market research/design concepts that will focus on early engineering analysis activities for a HSVTOL demonstrator platform.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$2.500 million is due to the transition of initial developmental efforts to properly align with the appropriate technology readiness level. Funding in FY 2024 is transferred to RDT&amp;E, DW, BA-03, PE 1160402BB, Project S200 SOF Advanced technology Development.</p>	-	2.500	-
<p><b>Title:</b> MC-130J Amphibious Capability (MAC)</p> <p><b>Description:</b> The MAC supports development and demonstration of amphibious capabilities on a C-130J to support runway independent operations and provide the ability to operated in logistically constrained environments.</p>	1.600	10.082	15.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>FY 2023 Plans:</b> Perform engineering analysis and design activities for incorporating amphibious capabilities on a C-130J. This includes float design optimization for hydrodynamic and aerodynamic performance, aircraft truss design and loads analysis, and continued aircraft performance modeling.</p> <p><b>FY 2024 Plans:</b> Continues engineering analysis and design activities for incorporating amphibious capabilities on a C-130J. This includes float design optimization for hydrodynamic and aerodynamic performance, aircraft truss design and loads analysis, and continued aircraft performance modeling. In addition, plans include contract award for fabrication of floats and truss assemblies.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$4.918 million supports engineering analysis activities for amphibious capabilities that include hydro/aerodynamic, aircraft structural loads and fabrication of test articles.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	50.477	46.162	56.295

	<b>FY 2022</b>	<b>FY 2023</b>
<p><b>Congressional Add:</b> Development of cyber security and continuous monitoring of serial bus systems</p> <p><b>FY 2023 Plans:</b> Perform development of cyber security and continuous monitoring of serial bus systems for various SOF platforms.</p>	-	10.000
<b>Congressional Adds Subtotals</b>	-	10.000

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/5000C13000: <i>C-130 Modifications</i>	10.703	16.893	18.796	-	18.796	18.285	22.925	49.963	58.300	Continuing	Continuing
• PROC/2012C130J: AC/MC-130J	205.216	222.869	319.754	-	319.754	310.229	341.280	356.057	396.195	Continuing	Continuing
• PROC/1202PSP: <i>Precision Strike Package</i>	165.224	57.450	108.497	-	108.497	111.346	107.500	65.473	66.782	Continuing	Continuing
• PROC0201RWUPGR: Rotary <i>Wing Upgrades and Sustainment</i>	209.778	223.092	261.012	-	261.012	253.977	228.082	224.184	233.845	Continuing	Continuing

**Remarks**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF100 / <i>Aviation Systems Advanced Development</i>

**D. Acquisition Strategy**

- EW – RFCM: Awarded \$700 million ceiling acquisition and procurement contract covering Engineering and Manufacturing Development (EMD), Low-Rate Initial Production (LRIP), and Full-Rate Production (FRP) activities. EMD and LRIP are fixed price award fee incentivizing schedule and were awarded in 3rd Qtr FY 2020. FRP and other programmatic support activities (such as data rights and system integration laboratory options) are firm fixed price. The EW – RFCM 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.

- PSP: The USSOCOM Program Office with six Combat Acquisition Detachments (CAD) executing program elements to integrate PSP and post-production capability enhancements on AC-130J aircraft. A-kit and integration contracts executed via Special Operations Forces Support Activity (SOFSA) Global Logistics Supply Services Task Orders (10-yr IDIQ awarded in 2017) and B-kit components awarded annually and executed via CAD contracting offices.

- HEL: The HEL effort utilizes Naval Surface Warfare Center (NSWC) Dahlgren Division as the Government lead system integrator of HEL components. HEL system components are either purchased under Defense Ordnance Technology Consortium or developed and assembled by NSWC Dahlgren. Both approaches provide flexibility for rapid prototyping.

C-130 SOF Common TF/TA SKR: Awarded delivery order on cost plus incentive fee contract to integrate and test the SOF Common TF/TA SKR on MC-130J aircraft and develop modifications to aircraft displays and controls. Final Incentive fee and contract closeout to occur in FY 2023. The C-130 SOF Common TF/TA SKR 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.

- MH-47/MH-60 SOF Common TF/TA SKR: Sole source to Raytheon to produce the SKR. SKR Logistics and MH-47G and MH-60M A-Kit production and installation proceeding at SOFSA, Lexington, KY. Contract Vehicle: Multi-Year Procurement (MYP) for FY 2021 through FY 2023 procurements. The SKR program plans to award a follow-on 5 year MYP purchasing SKRs in FY 2024 - FY 2028 for the MH-47, MH-60, CV-22 and MC-130J aircraft and a 6-year IDIQ for support and sustainment in FY 2024 - FY 2029. The MH-47/MH-60 SOF Common TF/TA SKR 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.

- AEA: Utilize Joint Department of Defense (DOD) programs to advance the technology levels for both the current Fixed Wing platforms and the advanced mobility platforms along with the Joint Aircraft Survivability Program sponsored projects to recommend material solutions for demonstration and potential integration on FW aircraft. Perform engineering analysis on key enabling technologies for amphibious capabilities in conjunction with the Air Force Research Laboratory (AFRL), AFWERX, Defense Advanced Research Projects Agency (DARPA) and other agencies.

HVSTOL: Utilize Joint DoD programs to advance the technology levels for HVSTOL platforms and to recommend material solutions for a technical demonstration. Perform engineering analysis on key enabling technologies in conjunction with the AFRL, AFWERX, DARPA and other agencies.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF100 / <i>Aviation Systems Advanced Development</i>

MAC: Utilize Government partners, labs and Industry partners through multiple contract awards to perform engineering analysis in the areas of hydrodynamics, structural loads, and flight performance modeling.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Electronic Warfare (EW) - Radio Frequency Countermeasures (RFCM) Follow-on Development Contract	C/FPAF	Sierra Nevada Corp. : Centennial, CO	70.906	6.838	Nov 2021	-		-		-		-	0.000	77.744	-
EW RFCM Spiral One	C/TBD	Various : Various	-	9.133	Mar 2022	6.500	Mar 2023	16.585	Mar 2024	-		16.585	Continuing	Continuing	-
Precision Strike Package (PSP) for Special Operations Forces (SOF) - Aft Weapon System & Crew Optimization	C/Various	Various : Various	-	-		-		1.224	Jan 2024	-		1.224	Continuing	Continuing	-
High Energy Laser (HEL) - Integration and Ground Testing	C/CPFF	Naval Surface Warfare Center : Dahlgren, VA	12.223	11.774	Dec 2021	-		-		-		-	0.000	23.997	-
HEL - Flight Testing/ Demonstration	C/CPFF	Various : Various	1.418	0.060	Mar 2022	15.970	Nov 2022	3.000	Nov 2023	-		3.000	Continuing	Continuing	-
C-130 SOF Common Terrain Following/Terrain Avoidance (TF/TA) Silent Knight Radar (SKR)	C/CPIF	Lockheed Martin Aero : Marietta, GA	219.122	7.000	Oct 2022	-		-		-		-	Continuing	Continuing	-
MH-47/MH-60 SOF Common Terrain Following/Terrain Avoidance Silent Knight Radar (TF/TA SKR)	SS/FP	Raytheon : McKinney, TX	19.889	1.383	Apr 2022	1.421	Apr 2023	1.421	Apr 2024	-		1.421	Continuing	Continuing	1.201
Aviation Engineering Analysis (AEA)	C/CPFF	Various : Various	36.877	7.289	Jan 2022	3.396	Nov 2022	11.162	Nov 2023	-		11.162	Continuing	Continuing	-
AEA - Aviation Mission Autonomy	C/CPFF	Various : Various	-	-		2.000	Nov 2022	3.500	Nov 2023	-		3.500	Continuing	Continuing	-
MC-130J Amphibious Capabilities (MAC)	C/CPFF	Various : Various	-	1.600	Aug 2022	10.082	Nov 2022	15.000	Nov 2023	-		15.000	Continuing	Continuing	-
High Speed Vertical Take-Off and Landing (HSVTOL) - Market Research	C/FP	Various : Various	-	-		0.941	Nov 2022	-		-		-	Continuing	Continuing	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
HSVTOL – Engineering Analysis and Development	C/Various	Various : Various	-	-		1.559	Jun 2023	-		-		-	Continuing	Continuing	-
Cybersecurity serial bus systems (Congressional Add)	C/CPFF	Various : Various	-	-		10.000	Jun 2023	-		-		-	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	803.977	-		-		-		-		-	0.000	803.977	-
Prior Year Funding - Classified Project Congressional Add	C/Various	Under Separate Cover : Under Separate Cover	8.000	-		-		-		-		-	0.000	8.000	-
<b>Subtotal</b>			1,172.412	45.077		51.869		51.892		-		51.892	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
EW-RFCM	C/Various	Various : Various	33.658	1.171	Jan 2022	1.030	Jan 2023	1.040	Jan 2024	-		1.040	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	69.455	-		-		-		-		-	0.000	69.455	-
<b>Subtotal</b>			103.113	1.171		1.030		1.040		-		1.040	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
EW-RFCM Developmental Test & Evaluation	C/Various	Various : Various	13.502	3.601	Jan 2022	1.909	Jan 2023	-		-		-	Continuing	Continuing	-
EW-RFCM Operational Test & Evaluation	C/Various	Various : Various	-	-		0.636	Jan 2023	2.595	Jan 2024	-		2.595	Continuing	Continuing	-
MH-47/MH-60 SOF Common TF/TA SKR	SS/FP	Various : Various	128.015	0.628	Jan 2022	0.718	Nov 2022	0.768	Nov 2023	-		0.768	Continuing	Continuing	-



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

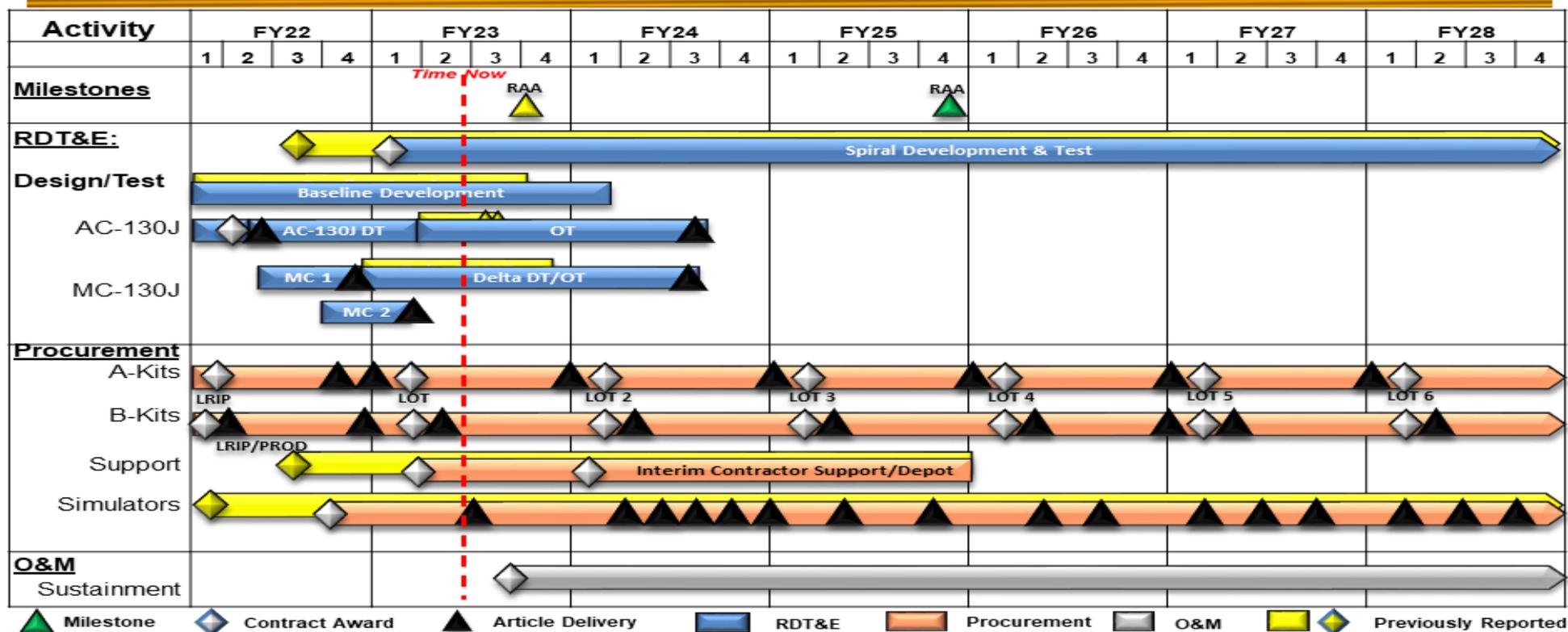
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160403BB / Aviation Systems

Project (Number/Name)  
SF100 / Aviation Systems Advanced  
Development

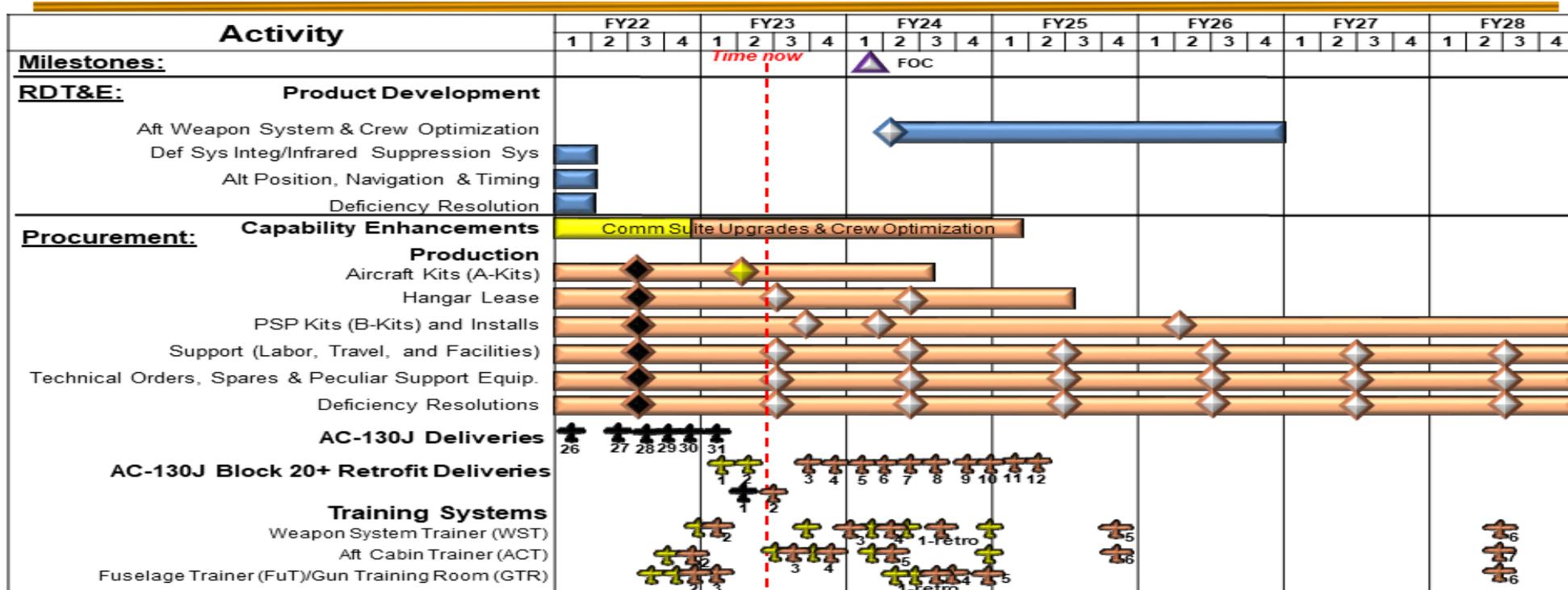
# AC/MC-130J Electronic Warfare (EW) - Radio Frequency Countermeasures (RFCM) Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 United States Special Operations Command</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

## AC-130J/Precision Strike Package (PSP) for Special Operations Forces (SOF) Schedule



▲ Milestones  
 ◊ Contract Award  
 ✈ Article Delivery  
 ■ RDT&E  
 ■ Procurement  
 ▲ 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 1160403BB / Aviation Systems	Project (Number/Name) SF100 / Aviation Systems Advanced Development

# AC-130 High Energy Laser (HEL) Schedule

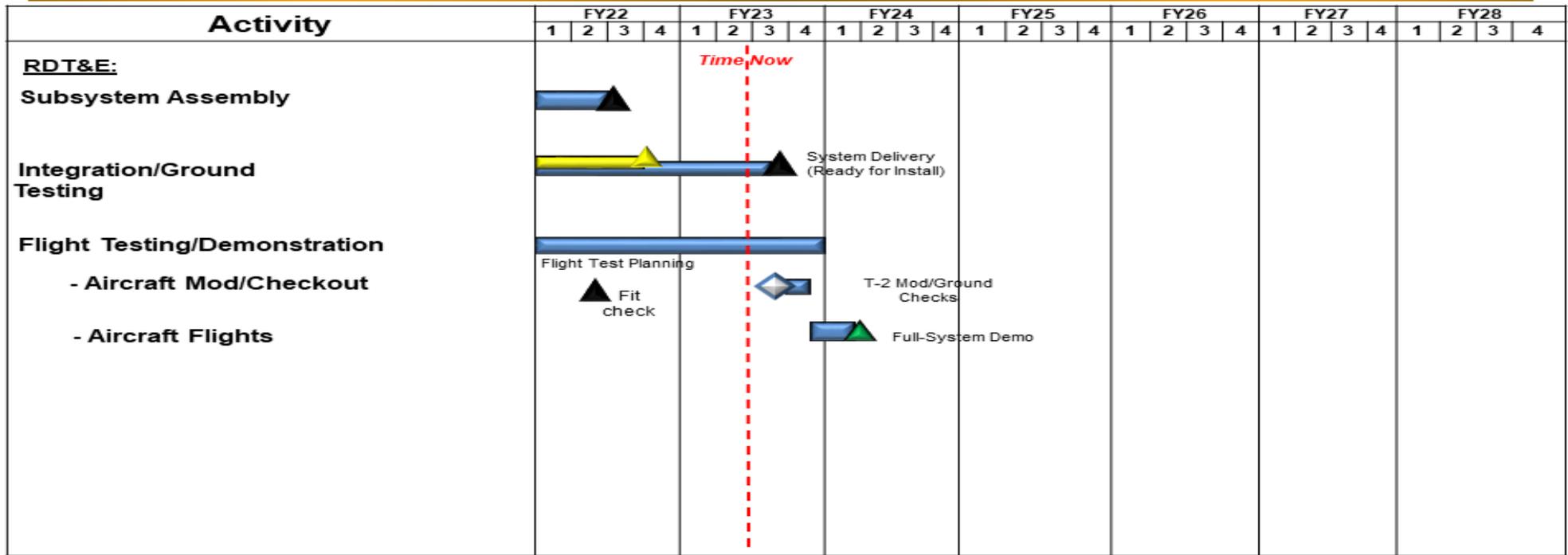
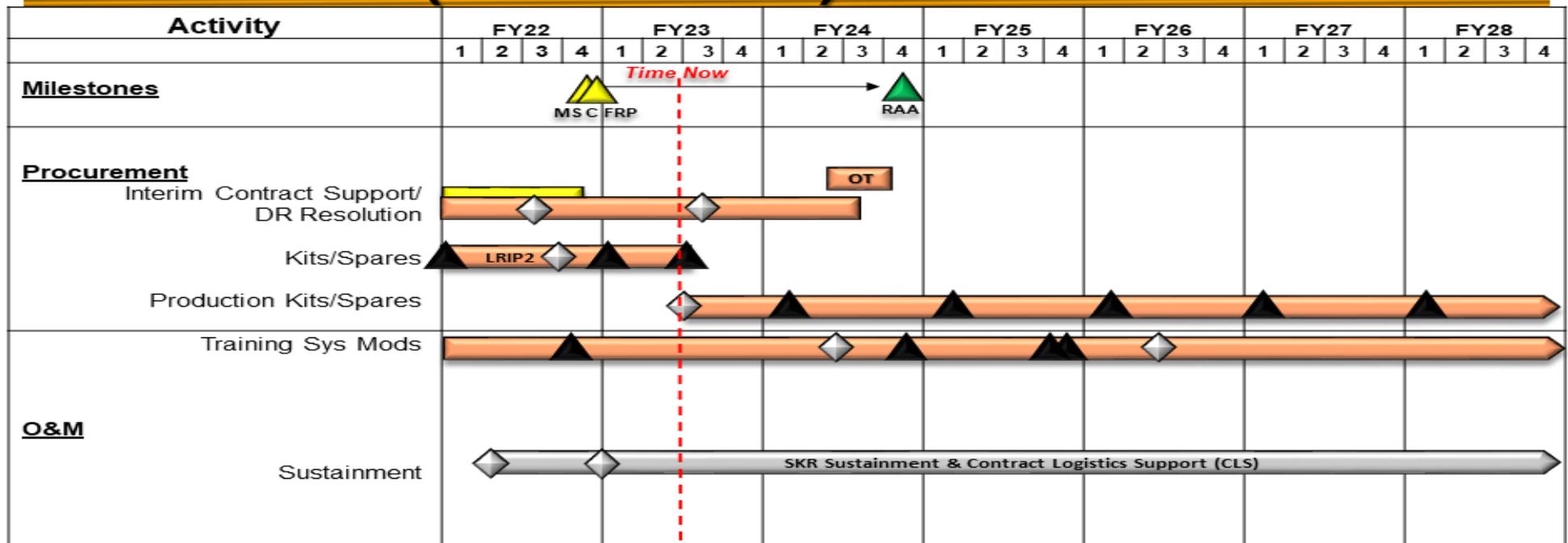


Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB / Aviation Systems	Project (Number/Name) SF100 / Aviation Systems Advanced Development

## C-130 SOF Common Terrain Following/Terrain Avoidance Radar (TF/TA SKR) Schedule

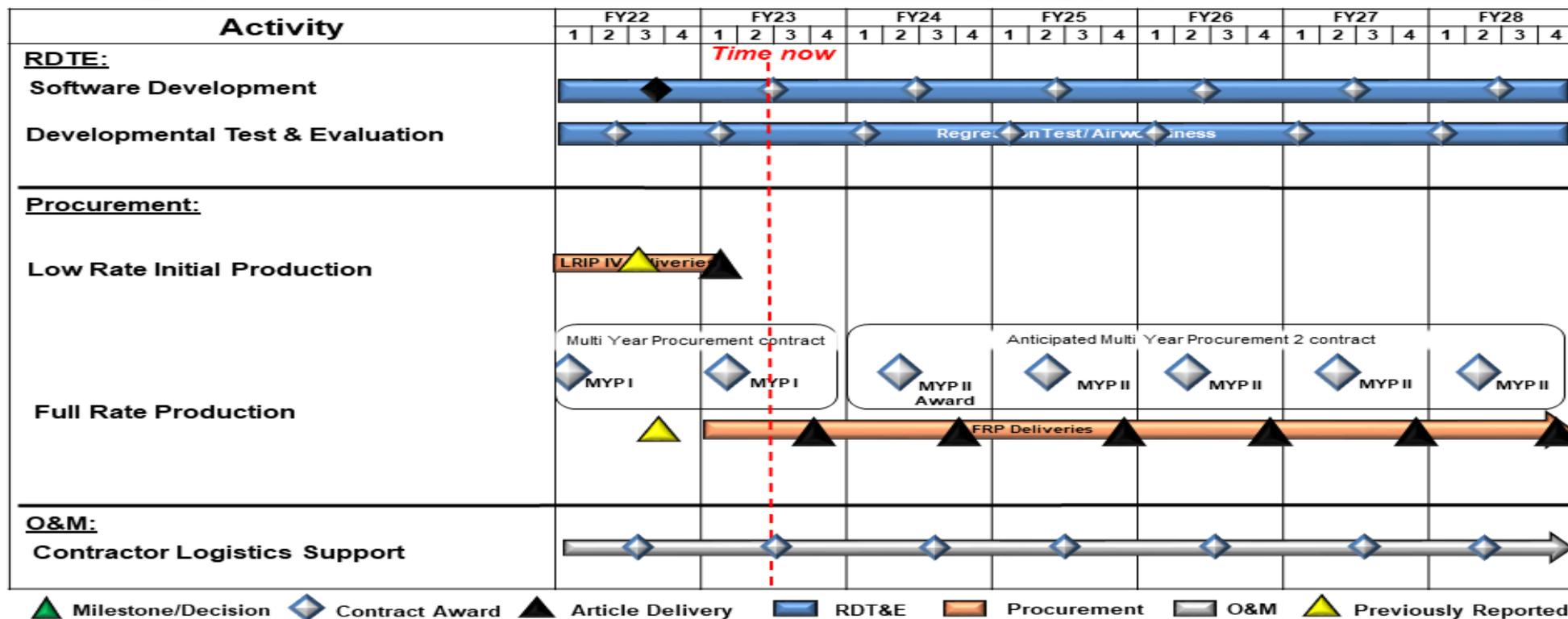


▲ Milestone   
 ◆ Contract Award   
 ▲ Article Delivery   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ■ ▲ Previously Reported

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 United States Special Operations Command</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

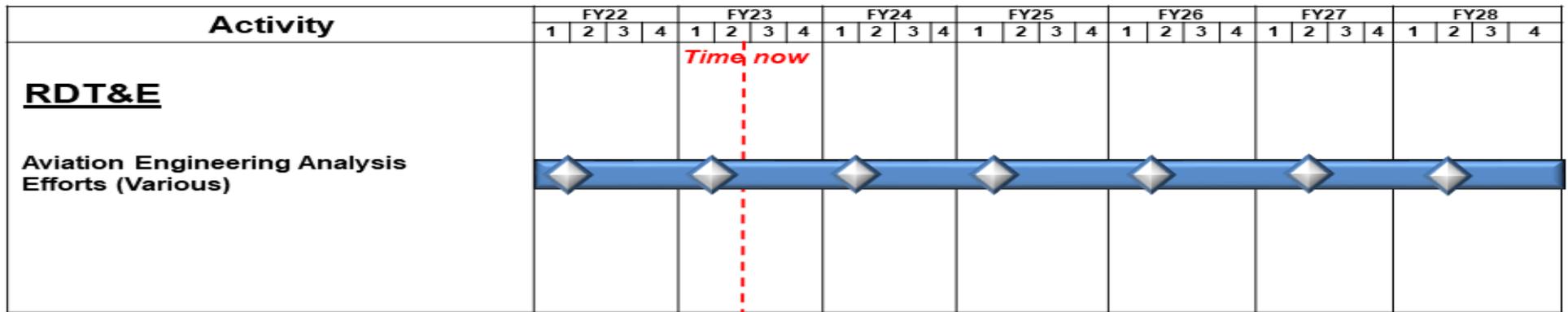
## MH-47/MH-60 SOF Common TF/TA SKR Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

## Aviation Engineering Analysis (AEA) Schedule

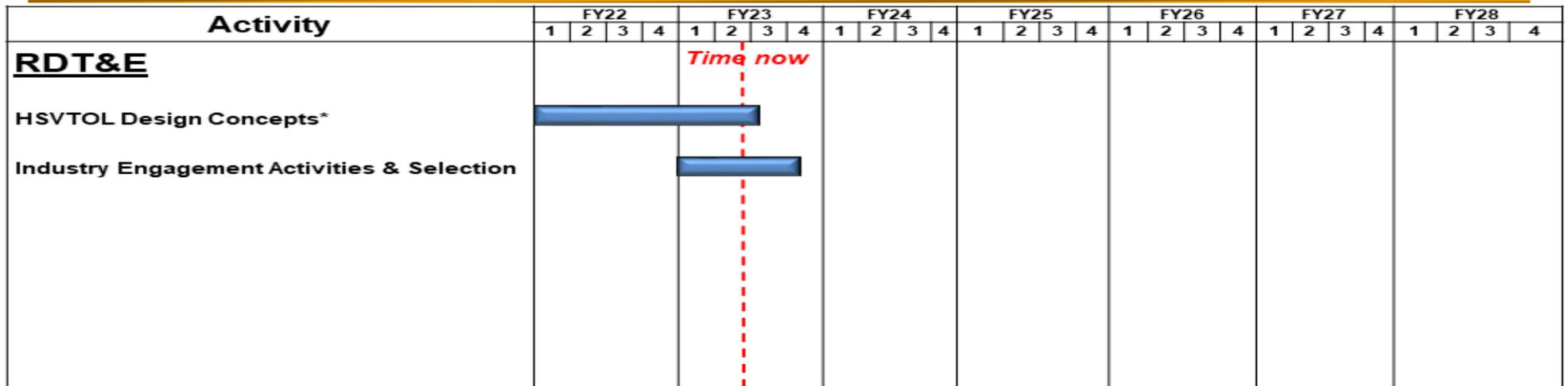


- Milestone
- Contract Award
- Article Delivery
- RDT&E
- O&M
- Previously Reported

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

# High Speed Vertical Takeoff and Landing (HSVTOL) Schedule



*Time now*

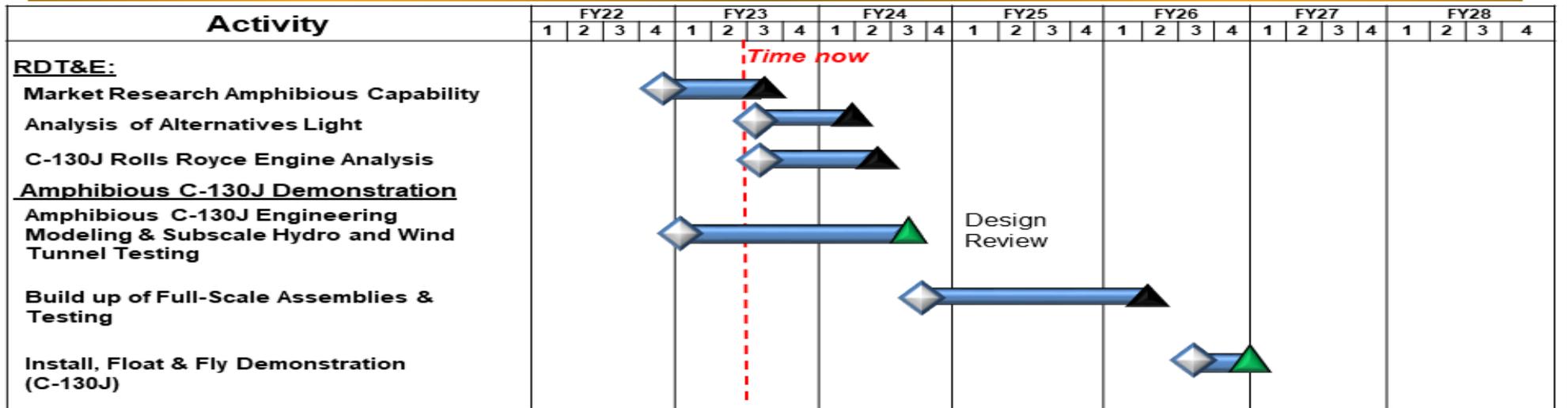
-  Milestone
-  Contract Award
-  Article Delivery
-  RDT&E
-  O&M
-  Previously Reported

\* FY 2022 RDT&E Funding was provided via U.S. Air Force

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 United States Special Operations Command</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development

# MC-130J Amphibious Capability (MAC) Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command			<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Electronic Warfare - Radio Frequency Countermeasures (EW-RFCM)</b>				
Spiral 1 Development and Test	1	2023	4	2028
Baseline Development, Design, and Test	1	2022	1	2024
Developmental Test and Operational Test (DT/OT) AC-130J	1	2022	3	2024
DT/OT #1 MC-130J	2	2022	3	2024
<b>Precision Strike Package (PSP) for Special Operations Forces (SOF)</b>				
Aft Weapon System and Crew Optimization Product Development	2	2024	4	2026
Defensive Systems Integration / Infrared Product Development	1	2022	2	2022
Alternate Position, Navigation, and Timing Product Development	1	2022	2	2022
Deficiency Resolution Product Development	1	2022	2	2022
<b>High Energy Laser (HEL)</b>				
Subsystem Assembly	1	2022	3	2022
Integration / Ground Testing	1	2022	3	2023
Flight Testing / Demonstration	1	2022	4	2023
Aircraft Modification / Checkout	3	2023	4	2023
Aircraft Flights	4	2023	2	2024
<b>C-130 SOF Common Terrain Following/Terrain Avoidance (TF/TA) Silent Knight Radar (SKR)</b>				
Software Development	1	2022	3	2023
Development/Flight Testing	1	2022	4	2023
<b>MH-47G and MH-60M SOF Common Terrain Following (TF) / Terrain Avoidance (TA) Silent Knight Radar (SKR)</b>				
Software Development	1	2022	4	2028

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF100 / Aviation Systems Advanced Development
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Developmental Test and Evaluation	1	2022	4	2028
<b>Next Generation Aviation Engineering Analysis (AEA)</b>				
AEA Efforts (Various)	1	2022	4	2028
<b>High Speed Vertical Take Off and Landing (HSVTOL)</b>				
HSVTOL Design Concepts (U.S. Air Force Funded)	1	2022	4	2022
HSVTOL Design Concepts	1	2023	3	2023
Industry Engagement Activities and Selection	1	2023	4	2023
<b>MC-130J Amphibious Capability (MAC)</b>				
Market Research Amphibious Capability	4	2022	3	2023
Analysis of Alternative Light	3	2023	2	2024
C-130J Rolls Royce Engine Analysis	3	2023	2	2024
Amphibious C-130J Engineering Modeling and Subscale Hydro and Wind Tunnel Testing	1	2023	3	2024
Build up of Full-Scale Assemblies and Testing	3	2024	1	2026
Install Float and Fly Demonstration (C-130J)	3	2026	4	2026

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF200 / CV-22
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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
SF200: CV-22	76.572	6.655	11.695	21.619	-	21.619	21.289	28.069	23.445	19.834	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Project MDAP/MAIS Code:** 212

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

This project supports integration, design, development, rapid prototyping, and test to provide improved capabilities to include, but not limited to: more robust performance in situational awareness (SA); intelligence, surveillance, and reconnaissance (ISR), weapons, avionics; Special Operations Forces (SOF) communications; defensive/survivability systems; interoperability; speed and maneuverability; mission deployment and improved reliability and maintainability of the CV-22 platform. The CV-22 Osprey is a SOF variant of the V-22 vertical medium lift, multi-mission aircraft. The CV-22 provides long-range, high speed, all weather, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive as stated in the 2022 National Defense Strategy (NDS). These capabilities are not currently provided by other existing SOF vertical lift aircraft. Funding supports the following CV-22 requirements: CV-22 SOF Common Terrain Following (TF) / Terrain Avoidance (TA) Silent Knight Radar (SKR), Block 20 Development, Reliability Improvements, and Test Aircraft Flying Hours and Maintenance.

SOF Common TF/TA SKR supports development of the CV-22 SOF Common TF/TA SKR Operational Flight Program (OFP) software, and development of CV-22 platform software and hardware to support integration and testing. This effort provides radar improvements for long range, night/adverse weather, clandestine penetration of medium-to-high threat areas for infl, exfil, and resupply of SOF forces. The more sustainable and capable radar, the APQ-187, replaces the obsolete APQ-186 TF/TA radar currently integrated on CV-22 aircraft.

Block 20 Development supports design, integration, and testing of CV-22 avionics upgrades and correction of deficiencies to include, but not limited to electronic warfare upgrades, improved crew interface functionality, weapon systems, and Airborne Mission Networking (AbMN). Efforts include incremental development to improve capabilities to include, but not limited to situational awareness, intelligence, surveillance, and reconnaissance, weapons, SOF communications, avionics, interoperability and defensive/survivability systems.

Reliability Improvements supports design, integration, test and validation of system, and sub-system, reliability enhancements to meet required aircraft availability and operational requirements. Reliability Improvements accelerate fielding and retrofitting system design improvements directly increasing CV-22 fleet readiness.

Test Aircraft Flying Hours and Maintenance supports developmental flight testing and maintenance of the test CV-22 aircraft to ensure integration of the CV-22 SOF Common TF/TA SKR. Efforts include conducting developmental test flights and maintenance required to generate the aircraft for test sorties.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> SOF Common TF/TA SKR, Program Number 778	6.655	11.695	2.500

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF200 / CV-22

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Description:</b> Supports development of the CV-22 SOF Common TF/TA SKR Operational Flight Program (OFP) software, and development of CV-22 platform software and hardware to support integration and testing. This effort provides radar improvements for long range, night/adverse weather, clandestine penetration of medium-to-high threat areas for infl, exfil, and resupply of SOF forces. The more sustainable and capable radar, the APQ-187, replaces the obsolete APQ-186 TF/TA radar currently integrated on CV-22 aircraft.</p> <p><b>FY 2023 Plans:</b> Continue integration/developmental testing of CV-22 SOF Common TF/TAR SKR OFP.</p> <p><b>FY 2024 Plans:</b> Completes developmental test and evaluation of SOF Common TF/TA SKR OFP integration.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$9.195 million is due to completing developing, integrating and testing of CV-22 SOF Common TF/TAR SKR OFP.</p>			
<p><b>Title:</b> Block 20 Development</p> <p><b>Description:</b> Supports design, integration, and testing of CV-22 avionics upgrades and correction of deficiencies to include, but not limited to electronic warfare upgrades, improved crew interface functionality, weapon systems, and Airborne Mission Networking (AbMN). Efforts include incremental development to improve capabilities to, but not limited to situational awareness, intelligence, surveillance, and reconnaissance, weapons, SOF communications, avionics, interoperability and defensive survivability systems.</p> <p><b>FY 2024 Plans:</b> Begins developing AbMN capabilities including, but not limited to, designing the aircraft information architecture and creating an environment to develop a fully integrated AbMN capability suite.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$8.069 million begins the development of the AbMN information architecture and acquiring assets for a systems integration laboratory.</p>	-	-	8.069
<p><b>Title:</b> CV-22 Reliability Improvements</p> <p><b>Description:</b> Supports design, integration, test and validation of system, and sub-system, reliability enhancements to meet required aircraft availability and operational requirements. Reliability Improvements accelerate fielding and retrofitting system design improvements directly increasing CV-22 fleet readiness. Efforts include design and re-design enhancements of components that impact aircraft reliability.</p> <p><b>FY 2024 Plans:</b></p>	-	-	4.780

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF200 / CV-22

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Investigates and identifies CV-22 Hard Clutch Engagement (HEC) root cause. Other efforts include, but not limited to, alternative clutch designs, developing a gearbox vibration monitoring system, and expanding on-board maintenance data collection  <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$4.780 million is due to initiating the development of solutions to the Hard Clutch Engagement problem and expanding CV-22 system safety and health instrumentation deeper into the aircraft to feed predictive maintenance analysis.			
<b>Title:</b> Test Aircraft Flying Hours and Maintenance  <b>Description:</b> Supports development flight testing and maintenance of the test CV-22 aircraft to ensure integration of the CV-22 SOF Common TF/TA SKR. Efforts include conducting developmental test flights and maintenance required to execute the aircraft for test sorties.  <b>FY 2024 Plans:</b> Supports flying and maintaining the test CV-22 aircraft to conduct SOF Common TF/TAR SKR and other developmental tests as required.  <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$6.270 million is due to developmental Flying Hours and for developmental test aircraft maintenance to conduct CV-22 SOF common TF/TA SKR and other developmental flight tests as required.	-	-	6.270
<b>Accomplishments/Planned Programs Subtotals</b>	6.655	11.695	21.619

**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/1000CV22: CV-22 SOF Modification	49.242	79.215	75.981	-	75.981	77.313	33.740	39.370	88.670	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

When possible, rapid prototyping will be incorporated in the acquisition strategies below to develop, demonstrate, and evaluate residual operational capabilities. The SKR was developed by the United States Special Operations Command (USSOCOM) to provide a SOF Common TF/TA capability for SOF aircraft. The SKR replaces the obsolete APQ-186 TF/TA multimode radar on the CV-22. The acquisition strategy for the CV-22 SOF Common TF/TA SKR program is to procure radar units and radar software modifications through the USSOCOM SKR program management office, buy aircraft modification kits, and integrate SKR into CV-22 aircraft using a mixture of both sole source and competitive contracts. The CV-22 AbMN acquisition strategy is in development. The CV-22 Reliability Improvement effort consists of a mix of competitive and sole-source awards.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF200 / CV-22
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SOF Common Terrain Following/Terrain Avoidance (TF/TA) Silent Knight Radar (SKR) - Operational Flight Program (OFP) Development	C/CPFF	Various : Various	39.082	0.821	Nov 2022	1.000	Feb 2023	-		-		-	0.000	40.903	-
SOF Common TF/TA SKR- Integration	C/CPFF	Various : Various	29.424	2.391	Oct 2022	1.685	Feb 2023	-		-		-	0.000	33.500	-
Block 20 Development Airborne Mission Networking (AbMN)	Various	Various : Various	0.337	-		-		8.069	Apr 2024	-		8.069	Continuing	Continuing	-
Reliability Improvements	C/Various	Various : Various	-	-		-		4.780	Apr 2024	-		4.780	Continuing	Continuing	-
<b>Subtotal</b>			68.843	3.212		2.685		12.849		-		12.849	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Aircraft Flying Hours and Maintenance Developmental	C/Various	Various : Various	-	-		-		6.270	Feb 2024	-		6.270	Continuing	Continuing	-
SOF Common TF/TA SKR - OFP Developmental	C/CPFF	Various : Various	4.994	1.700	Sep 2022	1.200	Feb 2023	1.000	Nov 2023	-		1.000	0.000	8.894	-
SOF Common TF/TA SKR- Integration Developmental	C/CPFF	Various : Various	2.735	1.743	Dec 2022	7.810	Feb 2023	1.500	Nov 2023	-		1.500	0.000	13.788	-
<b>Subtotal</b>			7.729	3.443		9.010		8.770		-		8.770	Continuing	Continuing	N/A

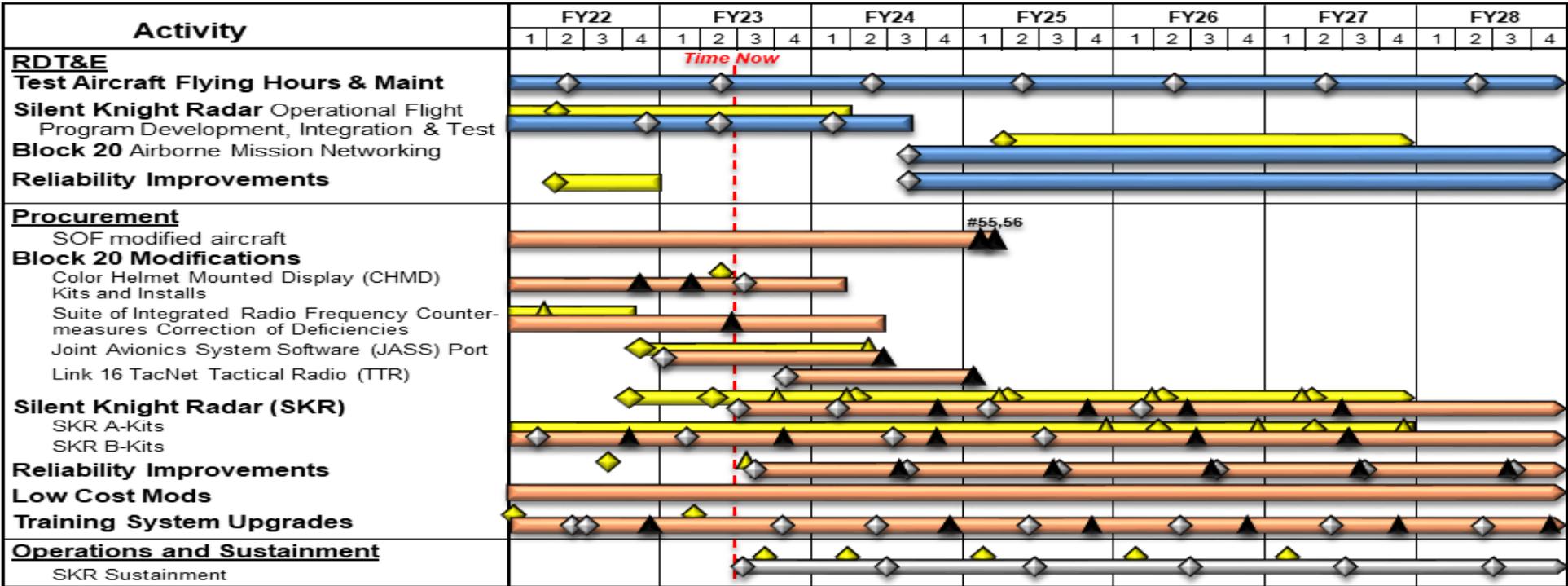
**Remarks**  
Test Aircraft Flying Hours and Maintenance costs were previously captured under Test and Evaluation / CV-22 SOF Common TF/TA SKR-Integration.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 United States Special Operations Command</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF200 / CV-22

# CV-22 Schedule



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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF200 / CV-22
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>CV-22</b>				
Test Aircraft Flight Hours and Maintenance	1	2022	4	2028
Special Operations Forces (SOF) Common Terrain Following (TF) / Terrain Avoidance (TA) Silent Knight Radar (SKR)	1	2022	3	2024
Block 20 Development - Airborne Mission Networking (formerly Survivability and Situational Awareness)	3	2024	4	2028
Reliability Improvements	3	2024	4	2028

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF300 / Armed Overwatch/Targeting
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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
SF300: Armed Overwatch/Targeting	23.354	22.034	1.200	2.000	-	2.000	2.000	2.000	4.000	5.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project supports integration and testing of SOF-peculiar capabilities and aircraft certification efforts for the Armed Overwatch program. Armed Overwatch provides Special Operations Forces (SOF) with crewed deployable, affordable, and sustainable aircraft systems capable of executing close air support (CAS), precision strike, and armed intelligence, surveillance, and reconnaissance (ISR) requirements in austere and permissive environments for use in Irregular Warfare operations that are in support of the 2022 National Defense Strategy (NDS).

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Armed Overwatch/Targeting, Program Number 814	22.034	1.200	2.000
<b>Description:</b> The funding in this project supports integration and testing of SOF-peculiar capabilities and aircraft certification efforts.			
<b>FY 2023 Plans:</b> Continue integration, testing, and aircraft certification efforts and conduct Operational Test and Evaluation (OT&E) prior to Full Rate Production award.			
<b>FY 2024 Plans:</b> Continues SOF integration, testing, and aircraft certification efforts. Continues modular capability enhancements and payload integration activities for SOF secure communications and Force Situational Awareness Systems.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.800 million is to support modular capability enhancements and payload integration activities and operational test.			
<b>Accomplishments/Planned Programs Subtotals</b>	22.034	1.200	2.000

**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/0201ARMOWT: Armed Overwatch/Targeting	166.000	246.000	266.846	-	266.846	421.280	368.631	317.847	4.348	Continuing	Continuing

**Remarks**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF300 / <i>Armed Overwatch/Targeting</i>
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**D. Acquisition Strategy**

Armed Overwatch: These technologies were pursued through industry partners via rapid prototyping. The USSOCOM Acquisition Executive approved the program's transition to the Major Capability Acquisition pathway at Milestone C and award of the follow-on production contract in 4th QTR FY 2022. The production contract was awarded 31 July 2022; certification and verification testing began immediately following award.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> SF300 / Armed Overwatch/Targeting
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Armed Overwatch/Targeting: Special Operations Forces Integration, Testing and Aircraft Certification	C/FFP	Various : Various	23.354	6.942	Jul 2022	1.200	Mar 2023	-		-		-	0.000	31.496	-
Modular Payload Integration and Certification	C/FFP	Various : Various	-	-		-		1.500	Mar 2024	-		1.500	Continuing	Continuing	-
<b>Subtotal</b>			23.354	6.942		1.200		1.500		-		1.500	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Armed Overwatch Integration, Testing, and Aircraft Certification	Various	Various : Various	-	7.550	Oct 2022	-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	7.550		-		-		-		-	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Armed Overwatch Verification Developmental Testing	C/FFP	Various : Various	-	1.029	Dec 2022	-		-		-		-	Continuing	Continuing	-
Armed Overwatch Live Fire Test & Evaluation	C/FFP	Various : Various	-	6.200	Jan 2023	-		-		-		-	Continuing	Continuing	-
Armed Overwatch Operational Test	C/FFP	Various : Various	-	0.313	Dec 2022	-		0.500	Mar 2024	-		0.500	Continuing	Continuing	-
<b>Subtotal</b>			-	7.542		-		0.500		-		0.500	Continuing	Continuing	N/A

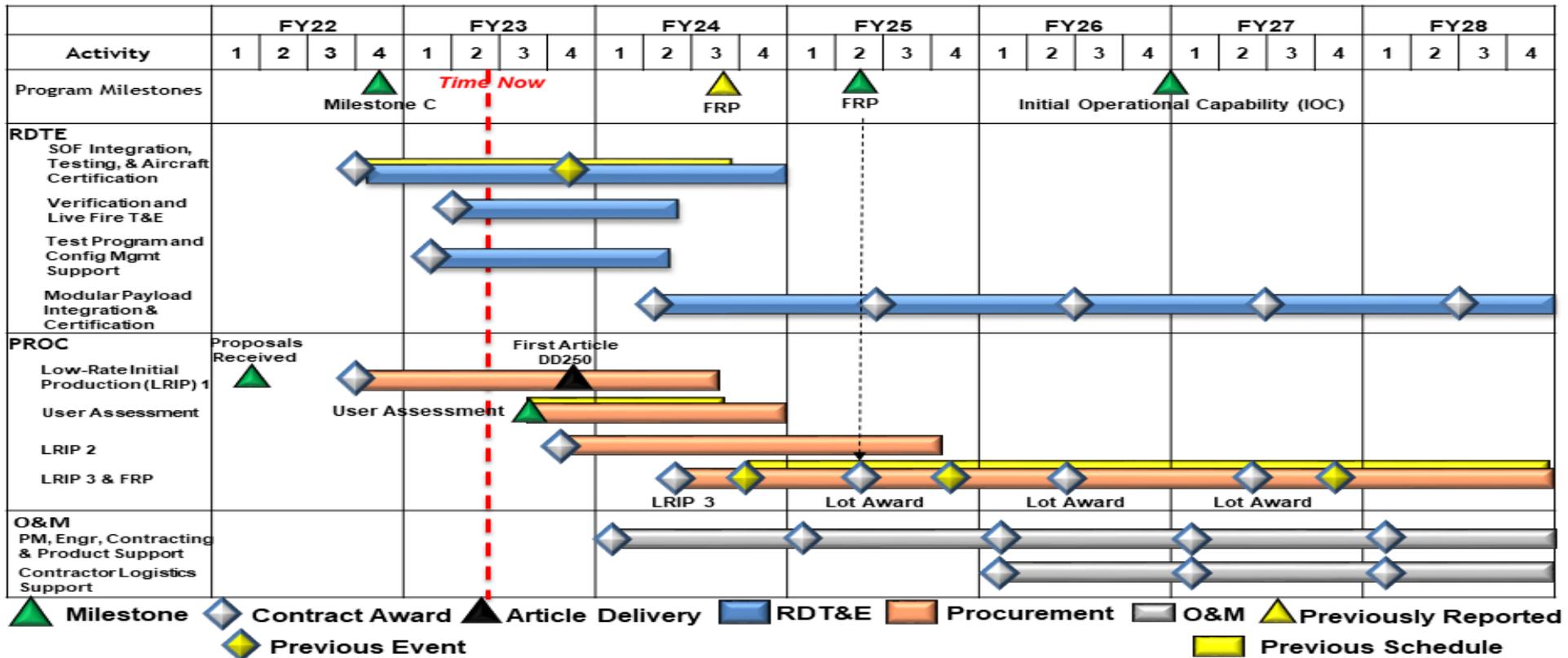


Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160403BB / Aviation Systems

Project (Number/Name)  
SF300 / Armed Overwatch/Targeting

# Armed Overwatch Schedule



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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> SF300 / <i>Armed Overwatch/Targeting</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Armed Overwatch/Targeting</i></b>				
Special Operations Forces Integration, Testing, and Aircraft Certification	4	2022	4	2024
Verification and Live Fire T&E	1	2023	2	2024
Test Program and Configuration Management Support	1	2023	2	2024
Modular Payload Integration & Certification	2	2024	4	2028

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems				<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S750: Mission Training and Preparation Systems	60.540	9.854	13.848	3.453	-	3.453	4.596	3.321	3.387	3.455	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project funds the definition, design, development, prototyping, integration, and testing of Mission Training and Preparation Systems (MTPS) to support training, avoid obsolescence, and maintain simulator concurrency with weapon system configurations; support mission planning and rehearsal systems enhancements required to meet Special Operations Forces-peculiar (SOF-p) mission requirements and correct deficiencies identified in previous testing; and support mission planning and rehearsal capabilities in current MTPS. The MTPS project also includes program management, systems engineering, configuration management, architecture development, risk reduction, and trade study initiatives, as well as initiatives to assure interoperability and commonality between diverse SOF training systems. Additionally, this project funds the Training Transformation Simulator Block Upgrade Fixed Wing (SBUDF) program that develops and integrates training innovation and transformation solutions across the United States Special Operations Command (USSOCOM) fixed wing augmented and virtual reality (AR/VR) mission training device portfolio, to include AC-130J, MC-130J, CV-22, U-28, and C-146.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Special Operations Mission Planning and Execution (SOMPE), Program Number 838	9.854	10.941	-
<p><b>Description:</b> The SOMPE program develops, integrates, tests, and validates software enhancements required to meet SOF-p 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. The SOMPE automates time-sensitive planning activities and provides enhanced situational awareness during mission execution. The 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. The 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 focus on integrated deterrence, crisis and conflict.</p> <p><b>FY 2023 Plans:</b> The SOMPE program is transitioning to the Software Acquisition Pathway, defined in DoDI 5000.87 and will converge independently developed products by leveraging the agile ecosystem and environment of the Tactical Assault Kit (TAK) Product Center to accelerate development of incremental releases of software with direct user input.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Decrease of \$10.941 million is due to a transfer of SOMPE funding to PE 1160431BB, Warrior Systems; Project S710, Tactical Systems Development for FY 2024 and beyond to better support all-domain mission planning and execution requirements.			
<b>Title:</b> Training Transformation Simulator Block Upgrades (SBUDF)	-	2.907	3.453
<b>Description:</b> Develops and integrates training innovation and transformation solutions across the USSOCOM fixed wing training device portfolio, to include AC 130J, MC-130J, CV-22, U-28, and C-146. These efforts include further developing and integrating augmented reality (AR), virtual reality (VR), and mixed reality technology and applying the technology to SOF-unique missions and platforms in support of combat readiness and SOF operator mission qualification. These initiatives are not intended to replace existing traditional USSOCOM training devices and full motion simulators, but will rather mitigate current training limitations as well as enhance and complement existing training capabilities. The SBUDF will also support the development of advanced instructor and student feedback systems and artificial intelligence capabilities to increase the fidelity, quality, and efficiency of the USSOCOM training pipeline.			
<b>FY 2023 Plans:</b> Initiate the training innovation and transformation SBUDF program with the development of AC-130J aircrew and CV-22 aircrew and maintenance AR/VR mission training devices.			
<b>FY 2024 Plans:</b> Continues spiral development of AC-130J and CV-22 aircrew/maintenance AR/VR reality mission training devices and modules, while initiating development for MC-130J aircrew/maintenance applications and incorporating emerging technology into existing solutions. Additionally, funds development and incorporation of artificial intelligence feedback systems into existing training platforms.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.546 million is to support expansion of AR/VR reality efforts to include the MC-130J as well as to initiate artificial capability development efforts.			
<b>Accomplishments/Planned Programs Subtotals</b>	9.854	13.848	3.453

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<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/5000C13000: C-130 Modifications	10.703	16.893	18.796	-	18.796	18.285	22.925	49.963	58.300	Continuing	Continuing
• PROC/0207NSAV: Non-Standard Aviation	3.282	5.026	25.782	-	25.782	10.293	3.729	1.968	5.807	Continuing	Continuing

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command			<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems	

**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/1000CV2200: <i>CV-22 Modification</i>	49.242	79.215	75.981	-	75.981	77.313	33.740	39.370	88.670	Continuing	Continuing
• PROC/0204OTHER: <i>Other Items &lt;\$5M</i>	50.431	94.922	108.816	-	108.816	107.720	98.068	91.555	112.438	Continuing	Continuing
• PROC/0607U28: <i>U-28</i>	4.176	4.589	7.198	-	7.198	7.252	2.031	2.072	7.584	Continuing	Continuing
• PROC/0201RWUPGR: <i>Rotary Wing Upgrades and Sustainment</i>	209.778	223.092	261.012	-	261.012	253.977	228.082	224.184	233.845	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The SOMPE program employs the software acquisition pathway, leveraging commercial government sources, to facilitate rapid 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 system approach that leverages commercial and government sources, including Science and Technology and Small Business Innovative Research programs within and outside of the United States Special Operations Command (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.

The Training Transformation SBUDF program will utilize Naval Surface Warfare Center (NSWC) Dahlgren Division as the Government lead system integrator, while incorporating commercial off-the-shelf hardware/software solutions and competitive as well as sole source contracts to support spiral development of training transformation initiatives.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2024 United States Special Operations Command</b>											<b>Date: March 2023</b>				
<b>Appropriation/Budget Activity</b> 0400 / 7						<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems					<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems				

<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Special Operations Mission Planning and Execution (SOMPE) Software Development, Security, Operations (DevSecOps)	Various	Various : Various	48.873	7.831	Jan 2022	8.971	Jan 2023	-		-		-	Continuing	Continuing	-
Training Transformation Simulator Block Upgrades Fixed Wing Augmented Reality/ Virtual Reality Device Spiral Development	Various	Various : Various	-	-		2.907	Jan 2023	3.453	Jan 2024	-		3.453	Continuing	Continuing	-
<b>Subtotal</b>			48.873	7.831		11.878		3.453		-		3.453	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
SOMPE Software	MIPR	Special Operations Mission Planning Office : Various	3.486	0.386	Feb 2022	-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			3.486	0.386		-		-		-		-	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
SOMPE Exercise & Limited Objective Test Events (Developmental and Operational)	Various	Various : Various	8.181	1.637	Jan 2022	1.970	Nov 2022	-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			8.181	1.637		1.970		-		-		-	Continuing	Continuing	N/A

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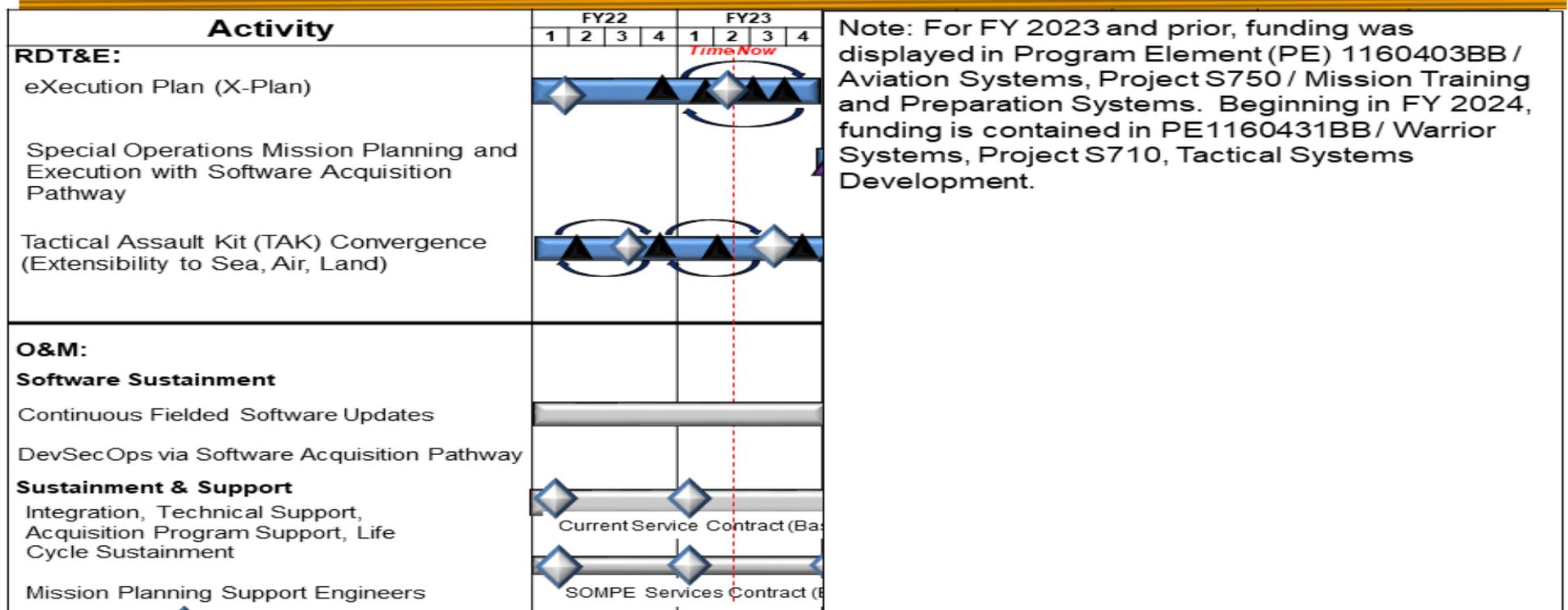
<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2024 United States Special Operations Command							<b>Date:</b> March 2023				
<b>Appropriation/Budget Activity</b> 0400 / 7			<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems				<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems				
	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>		<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>	60.540	9.854	13.848		3.453	-	3.453	Continuing	Continuing	N/A	

**Remarks**

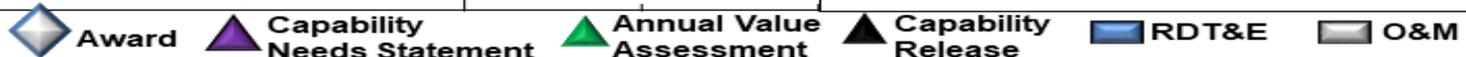
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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems

## Special Operations Mission Planning and Execution (SOMPE) Schedule



Note: For FY 2023 and prior, funding was displayed in Program Element (PE) 1160403BB / Aviation Systems, Project S750 / Mission Training and Preparation Systems. Beginning in FY 2024, funding is contained in PE1160431BB/ Warrior Systems, Project S710, Tactical Systems Development.



Note: Schedule has been updated to align with DoDI 5000.87 Software Acquisition Pathway requirements for Agile Software Development that includes annual Capability Needs Statements and Value Assessments to inform software development for SDCOM's Mission Planning Systems.

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

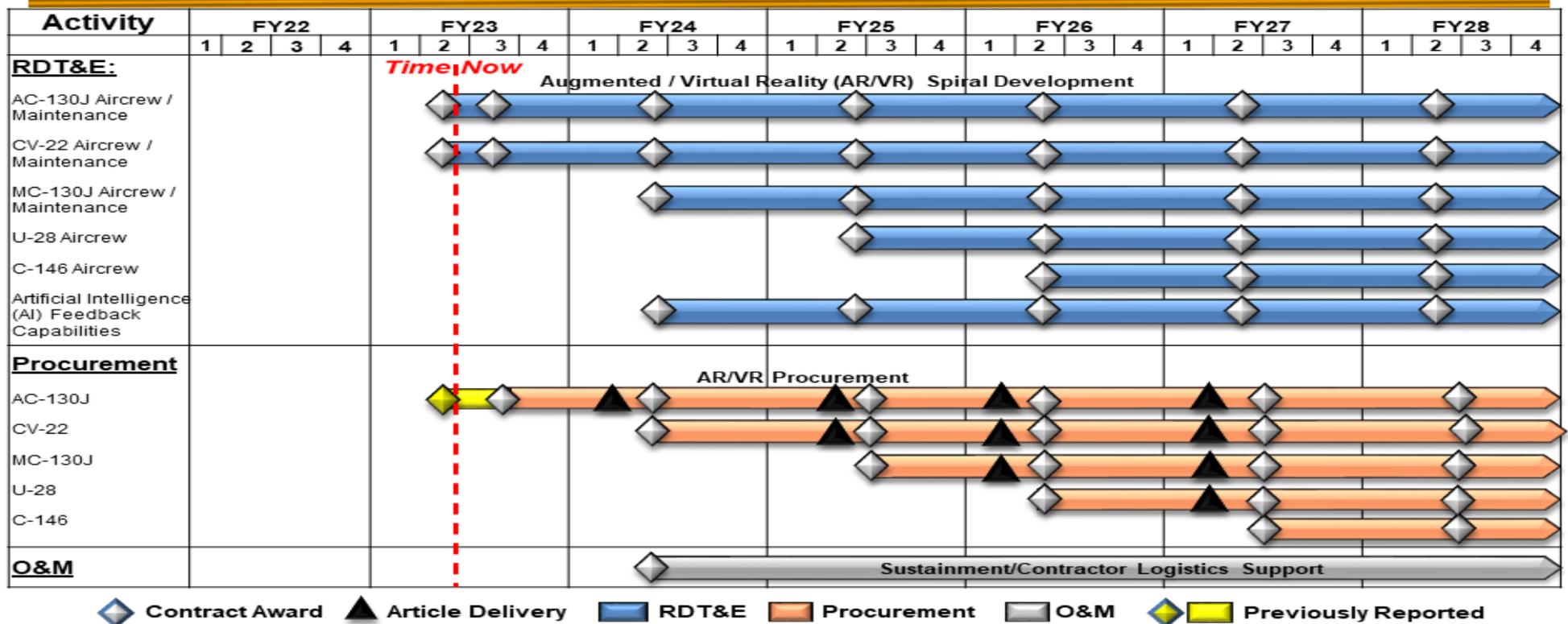
**Date:** March 2023

**Appropriation/Budget Activity**  
0400 / 7

**R-1 Program Element (Number/Name)**  
PE 1160403BB / Aviation Systems

**Project (Number/Name)**  
S750 / Mission Training and Preparation Systems

# Training Transformation SBUDF Schedule



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S750 / Mission Training and Preparation Systems

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Special Operations Mission Planning and Execution (SOMPE)</b>				
eXecution Plan (XPlan)	1	2022	4	2023
SOMPE with Software Acquisition Pathway	4	2023	4	2023
Tactical Assault Kit (TAK) Convergence (Extensibility to Sea, Air, Land)	1	2022	4	2023
<b>Training Transformation Simulator Block Upgrades Fixed Wing</b>				
Augmented Reality/Virtual Reality (AR/VR) Device Spiral Development AC-130J Aircrew / Maintenance	2	2023	4	2028
AR/VR Device Spiral Development CV-22 Aircrew / Maintenance	2	2023	4	2028
AR/VR Device Spiral Development MC-130J Aircrew / Maintenance	2	2024	4	2028
AR/VR Device Spiral Development U-28 Aircrew	2	2025	4	2028
AR/VR Device Spiral Development C-146 Aircrew	2	2026	4	2028
Artificial Intelligence Feedback Capabilities	2	2024	4	2028

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>				<b>Project (Number/Name)</b> S875 / <i>AC/MC-130J</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S875: <i>AC/MC-130J</i>	143.857	42.963	40.757	65.496	-	65.496	63.116	17.184	17.528	17.879	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project supports the development, rapid prototyping, integration, automation, and testing of the AC-130J and MC-130J aircraft. The AC-130J Ghost Rider provides close air support (CAS), air interdiction, and armed reconnaissance in support of special operations and conventional forces in contested and degraded environments. The MC-130J Commando II provides clandestine, or low visibility, single or multiship, low-level infiltration (infil), exfiltration (exfil), and resupply of Special Operations Forces (SOF), by airdrop or airland and air refueling missions for special operations helicopters and tiltrotor aircraft, intruding politically sensitive or hostile territories. Incremental upgrade and agile software delivery approaches will be used to rapidly prototype, integrate and mature SOF capabilities onto the AC-130J and MC-130J aircraft. Efforts like Integrated Tactical Mission Systems (ITMS) provide critical automation and integration of SOF Tactical Mission Systems (TMS), including navigation, communication, precision fire control and aircraft defensive systems required for safe flight in AC-130J and MC-130J aircraft. Requirements include upgrades to integrate and automate SOF TMS such as Airborne Mission Networking (AbMN) interoperability, data fusion and improved situational awareness (SA), improved threat detection and avoidance, integrated terrain following (TF) / terrain avoidance (TA) and Silent Knight Radar (SKR) improvements, defensive countermeasures (DCM) suite, Precision Strike Package (PSP) interoperability, integrated electronic warfare (EW), and embedded training. Integrating and automating SOF mission systems that deliver these capabilities is critical to fielding SOF-capable AC-130J and MC-130J aircraft to be more lethal, resilient, survivable, agile, and responsive in support of the 2022 National Defense Strategy (NDS).

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Integrated Tactical Mission Systems (ITMS), Program Number 789	42.963	40.757	65.496
<p><b>Description:</b> Provides critical automation and integration of SOF TMS, including navigation, communication, precision fire control and aircraft defensive systems required for safe flight in AC-130J and MC-130J aircraft. The ITMS program increases operational crew performance and aircraft survivability by integrating the AC/MC-130J green aircraft and multiple SOF mission systems as an interoperable system-of-systems. Automated software capabilities will be developed, integrated, and tested with SOF-peculiar and green aircraft flight information, displays, and controls through the Special Mission Systems (SMS) suite. By increasing system-of-systems data interoperability through an Open Mission Systems (OMS) compliant Modular Open System Architecture (MOSA), an agile software development infrastructure will be employed to integrate multiple subsystems and continuously deliver automated software capabilities. Capabilities include, but are not limited to: automated route replanning; tactical flight management; integrated aircraft defensive systems; defensive countermeasures (DCM); and embedded training. The Next Generation Special Mission Processor (SMP) resolves current diminishing manufacturing sources issues with a MOSA compliant design to perform central processing for ITMS software. The ITMS enables dynamic operations with integrated real-time information, automation, and decision making data for safe TF/TA flight and mission execution on MC-130J aircraft and seamless employment of the PSP on AC-130J aircraft.</p>			

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S875 / AC/MC-130J
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>FY 2023 Plans:</b> Continue to identify, prototype, demonstrate, and enhance modern OMS capabilities of: Pre-mission software; common payload interfaces; enhanced cybersecurity management software; and AC-130J weapons planning and management system. Continue capability maturation of production and fielded software services through development, security, and operations (DevSecOps) supported by a cloud-hosted software integration and test environment. Continue development, demonstration, and test of common interfaces to integrate legacy, current, and future mission systems into an inter-operable systems architecture. Continue development of the MC-130J Tactical Map, Tactical Flight Management System (TFMS) and Automated Route Replanner (ARR) minimum viable products and continues software enhancements. Continue TFMS and DCM capability development, integration, and demonstration for MC-130J with common attributes with AC-130J. Continue capability demonstration, and DevSecOps software enhancements for MC-130J avionics and common applications of Battle Management System (BMS) in support of multi-role aircraft capabilities. Begin integration, rapid prototyping, and test utilizing agile framework in the Government cloud.</p> <p><b>FY 2024 Plans:</b> Continues development, demonstration, and test of common interfaces to integrate legacy, current, and future mission systems into an interoperable systems architecture for both MC-130J and AC-130J aircraft. Continues to identify, prototype, demonstrate, and enhance modern OMS compliant capabilities of: pre-mission software; common payload interfaces; automated sensor tip/cue; enhanced cybersecurity management software; automated weapons planning and management; and applications of BMS software in support of multi-role aircraft capabilities and roll-on/roll-off systems. Completes MC-130J TFMS minimum viable product integration and test, and continues software DevSecOps to improve avionics interoperability with mission systems. Begins MC-130J integration and test of minimum viable products for onboard ARR and DCM capabilities on Next Gen SMP hardware. Continues capability maturation of software services for TFMS and ARR products to improve operations-based software performance. Continues development of DCM capabilities for both the MC-130J and AC-130J aircraft.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$24.739 million is due to continued development integration and increased flight test of TFMS and ARR capabilities on the MC-130J. Reinitiate software development, integration and test to improve PSP interoperability and introduce common TFMS, ARR, and DCM software to the AC-130J fleet based on FY 2023 OMS prototype demonstrations.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	42.963	40.757	65.496

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2024</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
			<b>Base</b>	<b>OCO</b>	<b>Total</b>						
• PROC/2012C130J: AC/MC-130J	205.216	222.869	319.754	-	319.754	310.229	341.280	356.057	396.195	Continuing	Continuing
• PROC/1202PSP: <i>Precision Strike Package</i>	165.224	57.450	108.497	-	108.497	111.346	107.500	65.473	66.782	Continuing	Continuing

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S875 / AC/MC-130J
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**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**

ITMS: Award two sole source contracts to key prime integrators to develop and maintain an open mission system compliant MOSA, integrate legacy subsystems into the common architecture, support government on-boarding of 3rd party capabilities, and modernize software services through DevSecOps. Perform operationally driven rapid prototyping and demonstrations to evaluate new technology for system integration while informing changes to tactics, techniques, and procedures. Government lead development of virtual environment to enable collaborative integration of modular software services procured through competitive, sole source contracts, and use of open mission system compliant standards for hardware and software architecture, software, services, and future subsystems. Perform combined government and contractor integration, lab, and flight development/operational testing.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> S875 / AC/MC-130J
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Integrated Tactical Mission System (ITMS) - AC/MC-130J Systems Interoperability & Tactical Map Enhancements	C/Variou	Sierra Nevada Corporation : Nevada	48.014	5.374	Dec 2021	5.257	Dec 2022	8.867	Dec 2023	-		8.867	Continuing	Continuing	-
ITMS - Open Mission System (OMS) Capabilities	C/Variou	Various : Various	11.526	3.762	Dec 2021	5.750	Dec 2022	9.805	Dec 2023	-		9.805	Continuing	Continuing	-
ITMS - MC-130J Software Capability Development	C/CPFF	Lockheed Martin Aeronautics : Marietta	16.072	11.150	Nov 2021	10.566	Dec 2022	21.703	Dec 2023	-		21.703	Continuing	Continuing	-
ITMS - AC-130J Software Capability Development	C/Variou	Various : Various	4.800	1.353	Mar 2022	-		1.826	Dec 2023	-		1.826	Continuing	Continuing	-
ITMS - Agile Software Framework Dev & Test	C/Variou	Various : Various	4.965	6.986	Mar 2022	6.830	Mar 2023	7.850	Mar 2024	-		7.850	Continuing	Continuing	-
ITMS - NextGen Special Mission Processor (SMP) Development, Integration & Test	C/Variou	Various : Various	17.107	1.075	Dec 2021	-		-		-		-	0.000	18.182	-
MC-130J Airborne Mission Networking (AbMN)	C/CPFF	Sierra Nevada Corporation : Centennial, CO	19.712	-		-		-		-		-	0.000	19.712	-
<b>Subtotal</b>			122.196	29.700		28.403		50.051		-		50.051	Continuing	Continuing	N/A

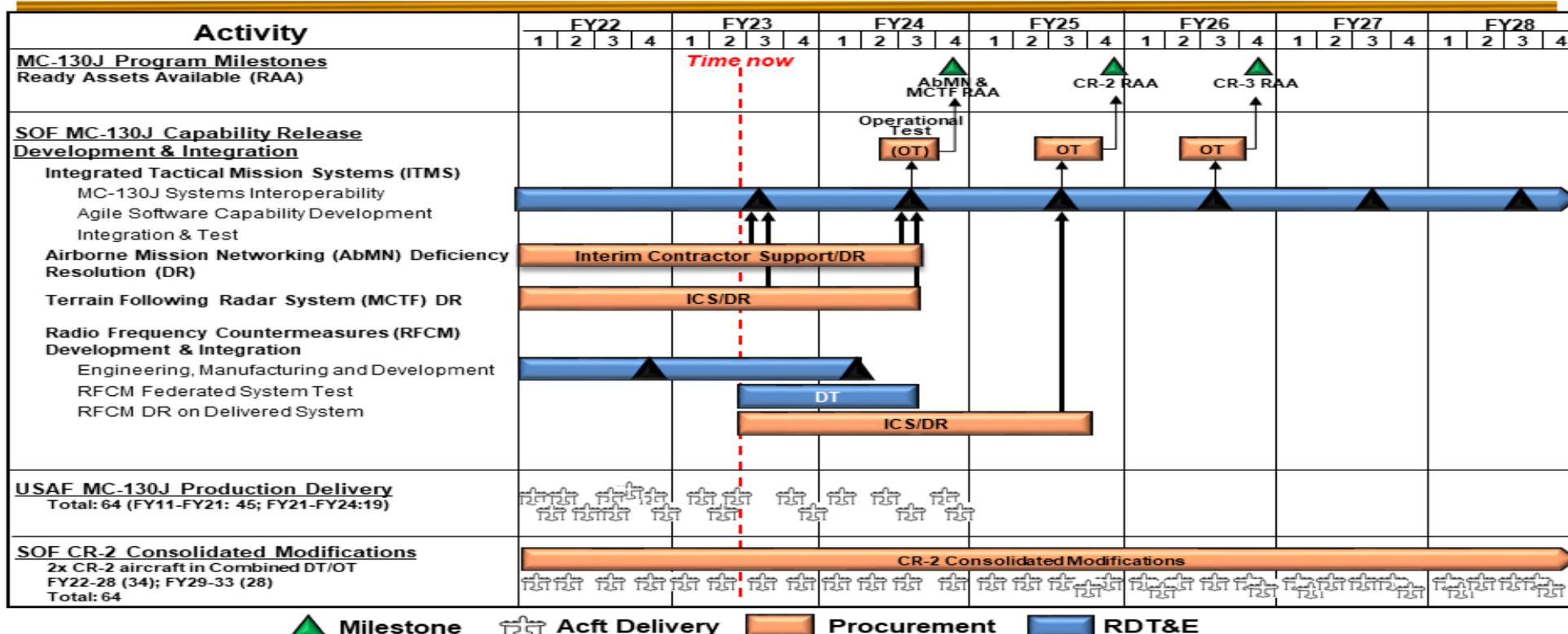
<b>Support (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
ITMS - Support	C/Variou	Various : Various	5.391	3.494	Mar 2022	3.650	Mar 2023	4.375	Mar 2024	-		4.375	Continuing	Continuing	-
<b>Subtotal</b>			5.391	3.494		3.650		4.375		-		4.375	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 1160403BB / Aviation Systems	Project (Number/Name) S875 / AC/MC-130J

# SOF MC-130J Capability Release Schedule



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

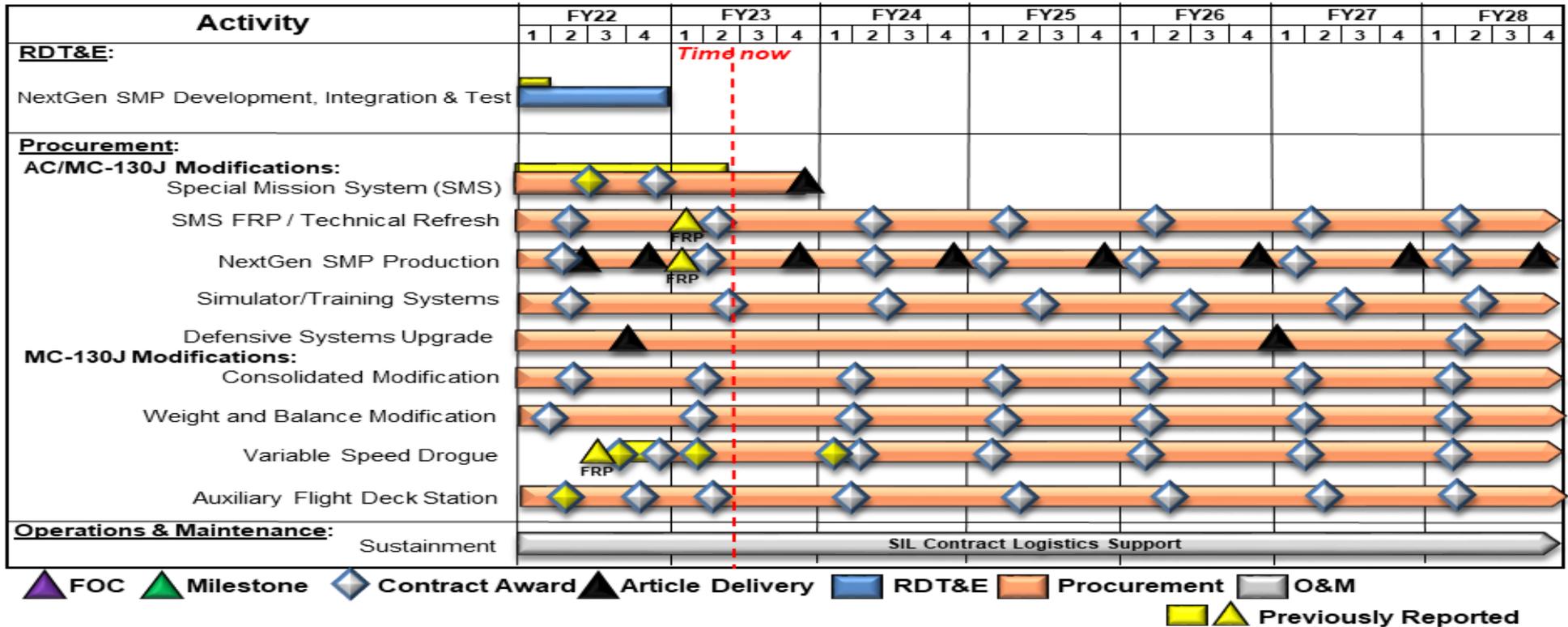
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160403BB / Aviation Systems

Project (Number/Name)  
S875 / AC/MC-130J

# Common AC/MC-130J Mission Systems Schedule

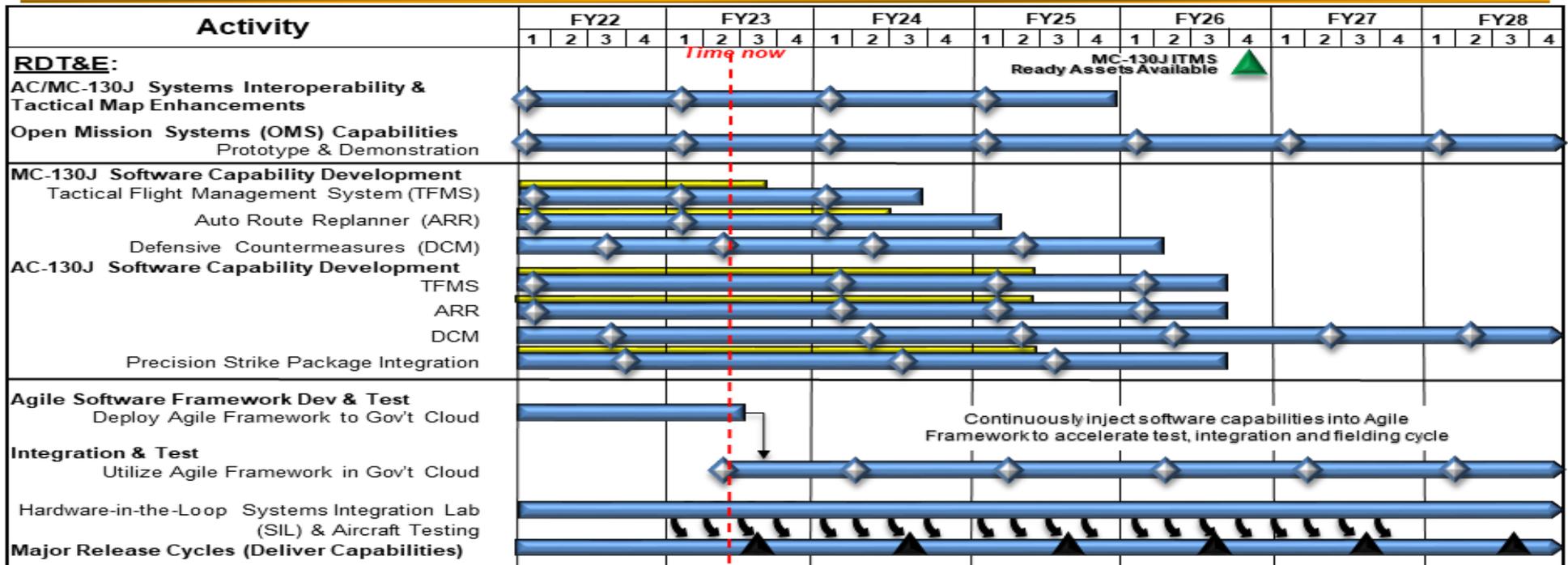


Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160403BB / Aviation Systems

Project (Number/Name)  
S875 / AC/MC-130J

# Integrated Tactical Mission Systems (ITMS) Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> S875 / <i>AC/MC-130J</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Integrated Tactical Mission Systems (ITMS)</i></b>				
AC/MC-130J Systems Interoperability & Tactical Map Enhancements	1	2022	4	2025
Open Mission System (OMS) Capabilities- Prototype and Demonstration	1	2022	4	2028
MC-130J Software Capability Development - Tactical Flight Management System (TFMS)	1	2022	3	2024
MC-130J Software Capability Development - Auto Route Replanner (ARR)	1	2022	1	2025
MC-130J Software Capability Development - Defensive Countermeasures (DCM)	1	2022	2	2026
AC-130J Software Development - TFMS	1	2022	3	2026
AC-130J Software Development - ARR	1	2022	3	2026
AC-130J Software Development - DCM	1	2022	4	2028
AC-130J Software Development - Precision Strike Package Integration	1	2022	3	2026
Agile Software Framework Development & Test - Deploy Agile Framework to Government Cloud	1	2022	3	2023
Integration & Test - Utilize Agile Framework in Government Cloud	2	2023	4	2028
Integration & Test - Hardware-in-the-Loop Systems Integration Lab (SIL) & Aircraft Testing	1	2022	4	2028
Integration & Test - Major Release Cycles (Delivery Capabilities)	1	2022	4	2028

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems				<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
D615: Rotary Wing Aviation	338.238	41.226	59.490	67.311	-	67.311	59.952	61.175	58.266	59.432	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for the development, rapid prototyping, demonstration, and integration of current and maturing technologies for Special Operations Forces-peculiar (SOF-p) rotary wing aviation and training requirements. This project provides next generation mobility to allow SOF-p helicopters to operate in denied environments in support of the 2022 National Defense Strategy. Rotary wing aircraft supported by this project include currently fielded: MH-60M; MH-47G; A/MH-6; and future planned Future Vertical Lift (FVL) Future Attack Reconnaissance Aircraft (FARA) and Future Long-Range Assault Aircraft (FLRAA). The currently fielded aircraft provide aviation support to SOF in worldwide contingency operations and low-intensity conflicts. These aircraft must be capable of rapidly deploying, penetrating hostile areas undetected, and operations at extended ranges under adverse weather conditions to infiltrate, provide logistics for, reinforce, and extract SOF. The anti-access/area denial (A2/AD) threat is characterized by an extensive and sophisticated ground based air defense system and an upgraded air-to-air capability targeted against helicopters. Mission Processor Upgrades (MPU) provides for non-recurring engineering, systems engineering/testing, and future aircraft architecture studies that support replacement and upgrade of the current mission and video processors for all Army Special Operations Aviation (ARSOA) rotary wing aircraft. Tactical Mission Networking (TMN) focuses on technology development of platform software and hardware systems with capabilities to enable aircraft to effectively adapt and overcome the challenges of a highly contested and congested Radio Frequency (RF) environment.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> A/MH-6M Block 3.0 Upgrade, Program Number 828	2.624	2.793	2.940
<p><b>Description:</b> This specialized aircraft for these missions must be capable of worldwide rapid deployment and operations in contested or anti-access/area denial (A2/AD) environments in support of Multi-Domain Operations. Funds the development and testing of SOF-p equipment and modifications for the A/MH-6M. It will include software development and testing to integrate new capability, development and qualification of new hardware, and test and evaluation of new weapons, sensors, communications systems, or aircraft modifications that increase system performance. The A/MH-6 aircraft is the USSOCOM's only urban attack and assault platform and provides reconnaissance, close air support (CAS), precision strike, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive to combat missions, Irregular Warfare and Military Operations Other than War (MOOTW) as stated in the 2022 National Defense Strategy (NDS).</p> <p><b>FY 2023 Plans:</b> Continue software updates to incorporate communications upgrades and crypto modernization for enhanced situational awareness incorporating Tactical Assault Kit, continue Light Weight Auxiliary Fuel Tanks testing and initial articles build. Initiate</p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>improved main rotor transmission study and pursues improvement to the Full Authority Digital Engine Control (FADEC), and lightweight engine doors exhaust study and testing.</p> <p><b>FY 2024 Plans:</b> Continues software updates to incorporate communications data upgrades and crypto modernization for enhanced situational awareness incorporating Tactical Assault Kit, and additional software applications in the Tactical Assault Kit. Continues improved main rotor transmission study and improvements to the FADEC, and lightweight engine doors exhaust study flight testing.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.147 million in support of the lightweight engine doors exhaust study and Advanced Airborne Tactical Mission Suite (AATMS) testing growth. The study is expected to enter flight testing in FY 2024 which requires additional funding to accommodate the complexities and logistics of data measurement in flight test.</p>			
<p><b>Title:</b> MH-60M Modifications and Upgrades, Program Number 827</p> <p><b>Description:</b> Funds the development and integration of critical technologies for the MH-60 helicopter to include flight test support, engineering analysis, documentation, and airworthiness substantiation. The Block 2.0 effort integrates the Army-common T901 Improved Turbine Engine (ITE) into the MH-60M, replacing the current SOF-p engine. Block 2.0 initiatives include, but are not limited to, safety, performance restoration, MH-60 engineering changes and product improvements to SOF-p equipment, munitions utilized for testing, modifications to Aircraft Survivability Equipment (ASE) and weapons systems designed to counter rapidly emerging threats, improved lethality, and enhanced aircraft self-protection in the Multi-Domain Operations (MDO) environment and against near peer threats. The MH-60M aircraft provides long-range, high speed, all weather, close air support (CAS), precision strike, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive to combat missions Irregular Warfare and Military Operations Other than War (MOOTW) as stated in the 2022 National Defense Strategy (NDS).</p> <p><b>FY 2023 Plans:</b> Continue payload restoration efforts through weight reduction studies and other technologies to improve safety and decrease operational costs to ASE, weapons systems improvement, munitions and supports MH-60 Improved Turbine Engine (ITE) integration designs.</p> <p><b>FY 2024 Plans:</b> Continues Payload Restoration efforts and other technologies to improve safety and decrease operational costs to ASE, weapons systems improvements and munitions. Initiates T901 Engine integration efforts on the MH-60M based on an established UH-60M baseline. Begins development of MH-60M T901 software in support of future flight test.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	2.716	4.139	11.910

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>		<b>FY 2024</b>
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Increase of \$7.771 million is to support the development of MH-60M-specific T901 software for the aircraft, installation of the engine and instrumentation, and development of analyses / flight test planning in support of flight test in FY 2025.

**Title:** Future Vertical Lift (FVL) 8.853      10.086      11.668

**Description:** Provides for development of the United States Special Operations Command (USSOCOM) platform capabilities that address SOF-p FVL requirements. This FVL family of systems significantly increases range, speed, payload, survivability, reliability, and maintainability of vertical lift aircraft to meet emerging mission requirements. The USSOCOM will participate in the service-common development of a joint FVL aircraft by injecting SOF-p requirements and equities into the initial development and design efforts to minimize SOF-p modifications to the common aircraft. Additionally, SOF development will maximize the interoperability of the future and enduring fleet's Mission Equipment Packages (MEP) and integration. The FVL aircraft provides long-range, high speed, all weather, close air support (CAS), precision strike, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive to combat missions Irregular Warfare and Military Operations Other than War (MOOTW) as stated in the 2022 National Defense Strategy (NDS).

**FY 2023 Plans:**

Provide for SOF-p mission equipment package engineering, integration, and demonstration necessary to support advanced avionics, advanced mission equipment, Radio Frequency Countermeasures (RFCM), Terrain Following/Terrain Avoidance (TF/TA) Sensor, Electro-Optical/IR Sensor, Air Launched Effects and Degraded Visual Environment (DVE) into the Army baseline. Maintain and update Future Attack Reconnaissance Aircraft (FARA) engineering analysis as Army baseline designs and requirements mature; continue integrating SOF-p requirements during development. Continue Modular Open System Architecture (MOSA) analysis into a common cockpit with Digital Backbone integrating SOF-p mission equipment.

**FY 2024 Plans:**

Continues Future Long-Range Assault Aircraft (FLRAA) SOF-p mission equipment package engineering, integration, and demonstration necessary to support advanced avionics, advanced mission equipment, RFCM, TF/TA Sensor, Electro-Optical/IR Sensor, Air Launched Effects (ALE) and DVE into the Army single-vendor baseline. Maintains and updates FARA engineering analysis as Army baseline designs and requirements mature; continues integrating SOF-p requirements during development and initiates SOF pre-Engineering and Manufacturing Development (EMD) engineering activities. Continues MOSA analysis into a common cockpit with Digital Backbone integrating SOF-p mission equipment and initiates software development for select SOF-p sensors and weapons. Develops interoperability of MOSA based capabilities to enduring fleet for testing of SOF-p mission equipment packages.

**FY 2023 to FY 2024 Increase/Decrease Statement:**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Increase of \$1.582 million is to support initiation of the SOF FARA pre-EMD Engineering activities that will continue to drive down engineering risk and initiation of software development for select SOF-p sensors and weapons.			
<p><b>Title:</b> MH-47 Modifications and Upgrades, Program Number 830</p> <p><b>Description:</b> This specialized aircraft for these missions must be capable of worldwide rapid deployment and operations in contested or anti-access/area denial (A2/AD) environments in support of Multi-Domain Operations. Develops technologies to improve the performance and safety of the MH-47G and decrease operational costs. Efforts include the Active Parallel Actuator Subsystem (APAS), weight reduction, and performance improvement developments. This program also includes modifications to Aircraft Survivability Equipment (ASE) and weapons systems to counter rapidly emerging threats and enhance aircraft self-protection. The MH-47G aircraft is USSOCOM’s only heavy assault platform and provides long-range, high speed, all weather, and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive to combat missions, Irregular Warfare and Military Operations Other than War (MOOTW) as stated in the 2022 National Defense Strategy (NDS).</p> <p><b>FY 2023 Plans:</b> Continue developing technologies, weight reduction, and performance improvements; includes modifications to ASE and weapons systems to counter rapidly emerging threats and enhance aircraft self-protection integration with MH-47G subsystems, such as Common Avionics Architecture System (CAAS), and execution of a configuration study of performance related improvements. Incorporate performance enhancing and weight reduction technologies targeting increased payloads, improved fuel economy, and expanded airspeed and environmental operating envelopes. Complete APAS testing.</p> <p><b>FY 2024 Plans:</b> Continues developing technologies, weight reduction, and performance improvements; includes modifications to ASE and weapons systems to counter rapidly emerging threats and enhance aircraft self-protection integration with MH-47G subsystems, such as CAAS, and continue execution of a configuration study of performance related improvements. Incorporates performance enhancing and weight reduction technologies targeting increased payloads, improved fuel economy, and expanded airspeed and environmental operating envelopes.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$2.893 million is due to the anticipated completion of APAS development in FY 2023.</p>	9.625	7.048	4.155
<p><b>Title:</b> Mission Processor Upgrade (MPU), Program Number 846</p> <p><b>Description:</b> The specialized equipment for these missions must be capable of worldwide rapid deployment and operations in contested or anti-access/area denial (A2/AD) environments in support of Multi-Domain Operations. Provides for non-recurring engineering, systems engineering/testing, and future aircraft architecture studies that support replacement and upgrade of the current mission and video processors for all Army Special Operations Aviation (ARSOA) rotary wing aircraft. Upgrading all internal</p>	-	-	1.590

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>processors increases the processing power to support critical functionality and emerging technologies that will be integrated into the aircraft operational flight program. MPU enables the enhancement in processing and memory resources required to incorporate future functionality within the aircraft. This includes replacement of ground-based navigation aids, advanced large area displays, processors with greater computing power, secured &amp; removable storage, machine learning capabilities, precision timing devices in Global Positioning System (GPS)-denied environment, further advancement of cognitive decision aiding system that fuses information on threat, route, weather, terrain, and friendly forces, instantaneously adjusting an aircraft's route to protect the flight crew in hazardous weather, low level conditions, night conditions, and the next generation ARSOA cockpit. Furnishes the progression to protect aircraft and aircrew from cyber security threats from real-time flight monitoring and prevention capabilities. This Special Operations Aviation Mission Equipment is a commodities product shared across the Special Operations Rotary Wing aircraft to provide navigation, communication and aircraft protection. These products ensure the Special Operations Rotary Wing aircraft are safely able to provide long-range, high speed, all weather, close air support (CAS), precision strike, reconnaissance, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive to combat missions, Irregular Warfare and Military Operations Other than War (MOOTW) as stated in the 2022 National Defense Strategy (NDS).</p> <p><b>FY 2024 Plans:</b> Begins avionics upgrades and cybersecurity efforts in support of the cockpit modernization roadmap.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$1.590 million is to support the development of a more secured, upgraded cockpit that enhances cyber and processing capabilities.</p>			
<p><b>Title:</b> Tactical Mission Networking (TMN), Program Number 846</p> <p><b>Description:</b> Focuses on the technology development of platform software and hardware systems with capabilities to enable aircraft to effectively adapt and overcome the challenges of a highly contested and congested Radio Frequency (RF) environment. This effort facilitates advanced radio waveforms and communications equipment to ensure interoperability with ground forces and multi-domain operations. Upgrading antennas, processors, radios and other enabling communications equipment will be a persistent requirement as the RF environment becomes increasingly more complex. Additionally, the Army intends to upgrade its networks every two years – this funding will ensure Special Operations Aircraft can adapt and keep pace with both SOF and conventional forces' communications and networking improvements/upgrades. Tactical Mission Networking equipment ensure the Special Operations Rotary Wing aircraft are safely able to provide long-range, high speed, all weather, close air support (CAS), precision strike, reconnaissance, infiltration (infil), exfiltration (exfil), and resupply of SOF teams in hostile, denied, and politically sensitive areas that allows the Joint Force to be more agile and responsive to combat missions, Irregular Warfare and Military Operations Other than War (MOOTW) as stated in the 2022 National Defense Strategy (NDS).</p> <p><b>FY 2023 Plans:</b></p>	-	3.121	3.184

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
<p>Begin development of software and hardware to rapidly incorporate advanced waveforms, advanced communications, and networking hardware onto ARSOA aircraft.</p> <p><b>FY 2024 Plans:</b> Continues development of software and hardware to rapidly incorporate advanced waveforms, advanced communications, and networking hardware onto ARSOA aircraft.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.063 million is to support the secured and interoperable communication requirements for the next generation communications suite. This supports the continued development of more secured communications to support resilient communications in denied environments.</p>			
<p><b>Title:</b> Classified Programs</p> <p><b>Description:</b> Details provided under separate cover.</p> <p><b>FY 2023 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2024 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$0.439 million will be provided under separate cover.</p>	17.408	32.303	31.864
<b>Accomplishments/Planned Programs Subtotals</b>	41.226	59.490	67.311

**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/0201RWUPGR: Rotary Wing Upgrades and Sustainment	209.778	223.092	261.012	-	261.012	253.977	228.082	224.184	233.845	Continuing	Continuing
• 0201MH60: MH-60 Blackhawk	58.976	-	-	-	-	-	-	-	-	1,127.640	1,127.640
• 0601MH47: MH-47 Chinook	130.485	146.444	149.883	-	149.883	157.413	162.816	131.914	136.982	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

- A/MH-6M Block 3.0 Upgrade comprises three distinct efforts: integrated airframe, Block 3 performance kits and avionics upgrades. The airframe efforts (new rotor blades/performance components and new fuselage shells) will be a sole-source contract to Boeing, owner of the technical data associated with the performance

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / <i>Aviation Systems</i>	<b>Project (Number/Name)</b> D615 / <i>Rotary Wing Aviation</i>
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modification to the A/MH-6 airframes. The cockpit avionics architecture will be developed by Collins Aerospace. Any new hardware components will be Non Developmental Item/Commercial-Off-The-Shelf (COTS) to the extent possible and will be competitively selected. Airframe modification and integration work will be conducted via IDIQ contract with Special Operations Forces Support Activity (SOFSA). A/MH-6M Block 3.0 Upgrade is a Major Capability Acquisition (MCA) program.

- MH-60M Modifications and Upgrades supports systems integration and qualification efforts on 72 SOF configured MH-60M helicopters. The Modifications and Upgrades are executed via various acquisition vehicles and include, but are not limited to, government and contractor flight test support, engineering analysis, documentation, and airworthiness substantiation. Airframe modification and integration work will be conducted via a contract with SOFSA. MH-60M Modifications and Upgrades is a MCA program.

- The FVL is the SOF aviation participation in the Joint FVL effort to develop the next generation of vertical takeoff and landing aircraft and establishes the foundation for the transformation of the Department of Defense (DoD) vertical lift aviation capabilities over the next forty years. The USSOCOM is not the Milestone Decision Authority (MDA) for FVL. The Army manages the FLRAA program via the Middle Tier of Acquisition (MTA) through Milestone B, followed by an MCA. The Army manages FARA via MTA until downselect to one platform followed by a MCA.

- MH-47 Modifications and Upgrades will develop technologies to improve performance and safety of the MH-47G and decrease operational costs. Efforts include the APAS, weight reduction, and performance improvement developments. The Modifications and Upgrades are executed via various acquisition vehicles and consist mostly of government and contractor executed integration, testing, and qualification efforts with some analytical engineering services to be completed. Post-production block modifications are accomplished via contract with SOFSA. MH-47 Modifications and Upgrades is a MCA program.

- MPU provides for future cockpit architecture studies that will help define the replacement of current mission and video processors for all ARSOA platforms. Additionally, it will address near term required upgrades to existing components. Potential upgrades will be through existing Original Equipment Manufacturers (OEM), while the future cockpit architecture studies will be competitively awarded. MPU is a MCA program.

- TMN provides for future communications and networking capability exploration and solution development that will ensure ARSOA platforms can communicate through voice and data in a highly contested and congested RF environment. Additionally, it will ensure ARSOA aircraft can maintain interoperability with the SOF and conventional ground forces' plan of rapidly and continually updating their communications and networking infrastructure. Non-developmental communications equipment will be procured through existing DoD contracts. Aircraft integration will be through existing aircraft modification contracts. TMN is a MCA program.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
MH-60M Modifications and Upgrades	C/Variou	TAPO : Ft. Eustis, VA	-	0.770	Mar 2022	2.942	Mar 2023	9.043	Mar 2024	-		9.043	Continuing	Continuing	-
Future Vertical Lift (FVL)	C/Variou	PM TAPO : Ft. Eustis, VA	8.781	7.778	Dec 2021	8.880	Apr 2023	9.157	Mar 2024	-		9.157	Continuing	Continuing	-
FVL Congressional Add (Cong Add)	C/Variou	PM TAPO : Ft. Eustis, VA	7.356	-		-		-		-		-	0.000	7.356	-
MH-47 Modifications and Upgrades	C/Variou	PM TAPO : Fort Eustis, VA	58.842	0.730	Nov 2021	6.085	Nov 2022	4.155	Nov 2023	-		4.155	Continuing	Continuing	-
MH-47 Active Parallel Actuator Sub-System Design/Qualification	C/Variou	PM TAPO : Fort Eustis, VA	-	8.895	Nov 2021	0.963	Jun 2023	-		-		-	Continuing	Continuing	-
Tactical Mission Networking (TMN)	C/Variou	PM TAPO : Fort Eustis, VA	3.000	-		3.121	Mar 2023	3.184	Mar 2024	-		3.184	Continuing	Continuing	-
Classified Program(s)	C/TBD	TBD : TBD	114.069	10.289		25.089		29.108		-		29.108	Continuing	Continuing	-
Prior Years Funding	C/Variou	PM MELB : Fort Eustis, VA	49.820	-		-		-		-		-	0.000	49.820	-
<b>Subtotal</b>			241.868	28.462		47.080		54.647		-		54.647	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
MH-60M Modification and Upgrades	C/Variou	PM TAPO : Fort Eustis, VA	-	1.194	Mar 2022	0.923	Mar 2023	1.180	Mar 2024	-		1.180	Continuing	Continuing	-
FVL	C/Variou	PM TAPO : Fort Eustis, VA	5.546	0.320	Nov 2021	0.732	Feb 2023	1.146	Mar 2024	-		1.146	Continuing	Continuing	-
FVL (Cong Add)	C/Variou	PM TAPO : Fort Eustis, VA	0.359	-		-		-		-		-	0.000	0.359	-
<b>Subtotal</b>			5.905	1.514		1.655		2.326		-		2.326	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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation
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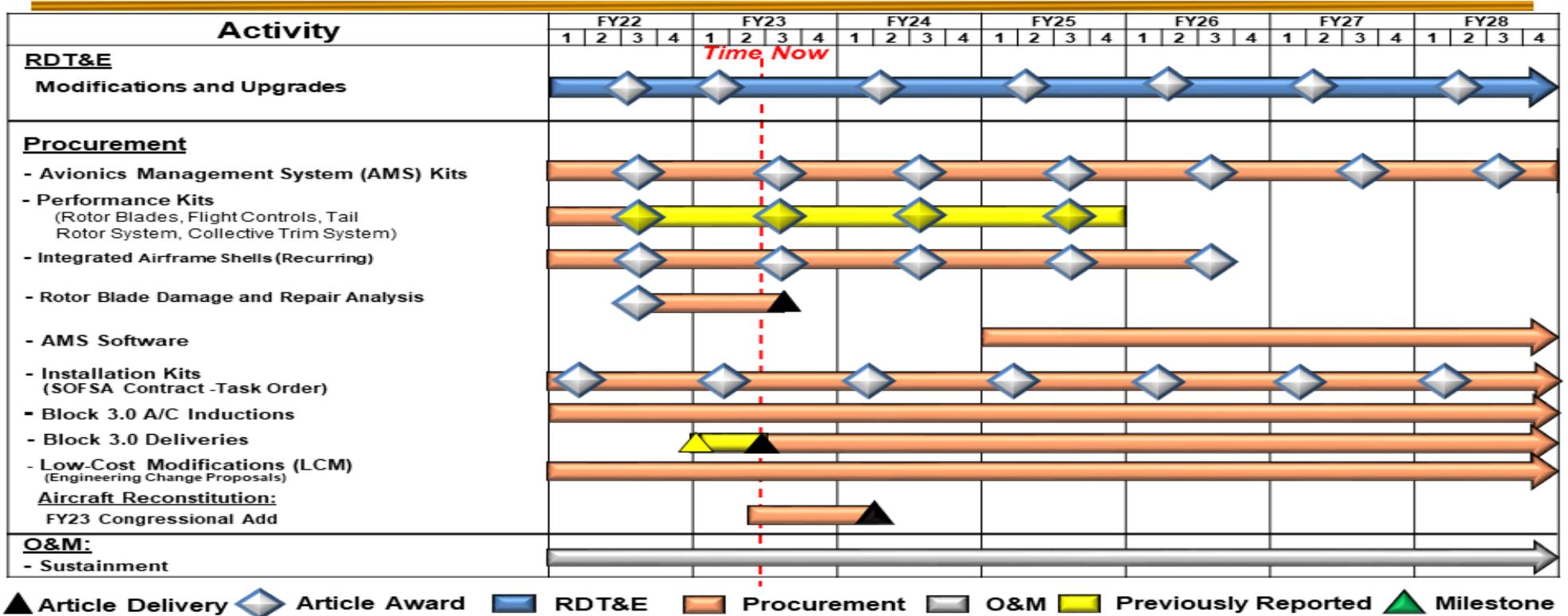
<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
A/MH-6M Block 3.0 Upgrade Operational Test and Evaluation	C/Various	PM MELB : Fort Eustis, VA	37.399	2.624	Mar 2022	2.793	Feb 2023	2.940	Feb 2024	-		2.940	Continuing	Continuing	-
MH-60M Modification and Upgrades Developmental Test & Evaluation	C/Various	PM TAPO : Fort Eustis, VA	17.277	0.499	Mar 2022	0.024	Mar 2023	1.432	Mar 2024	-		1.432	Continuing	Continuing	-
Mission Processor Upgrade (MPU) Upgrades Developmental Test and Evaluation	C/Various	PM TAPO : Fort Eustis, VA	1.590	-		-		1.590	Apr 2024	-		1.590	Continuing	Continuing	-
FVL Developmental Test & Evaluation	C/Various	PM TAPO : Fort Eustis, VA	-	0.289	Dec 2022	-		0.877	Mar 2024	-		0.877	Continuing	Continuing	-
Classified Program (s)	C/TBD	TBD : TBD	-	7.119		7.214		2.756		-		2.756	Continuing	Continuing	-
Prior Years Funding	C/Various	Various : Various	34.199	-		-		-		-		-	0.000	34.199	-
<b>Subtotal</b>			90.465	10.531		10.031		9.595		-		9.595	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MH-60M Modification and Upgrades	C/Various	PM TAPO : Ft. Eustis, VA	-	0.253	Mar 2022	0.250	Mar 2023	0.255	Mar 2024	-		0.255	Continuing	Continuing	-
Future Vertical Lift	C/Various	PM TAPO : Ft. Eustis, VA	-	0.466	Nov 2021	0.474	Feb 2023	0.488	Mar 2024	-		0.488	Continuing	Continuing	-
<b>Subtotal</b>			-	0.719		0.724		0.743		-		0.743	Continuing	Continuing	N/A

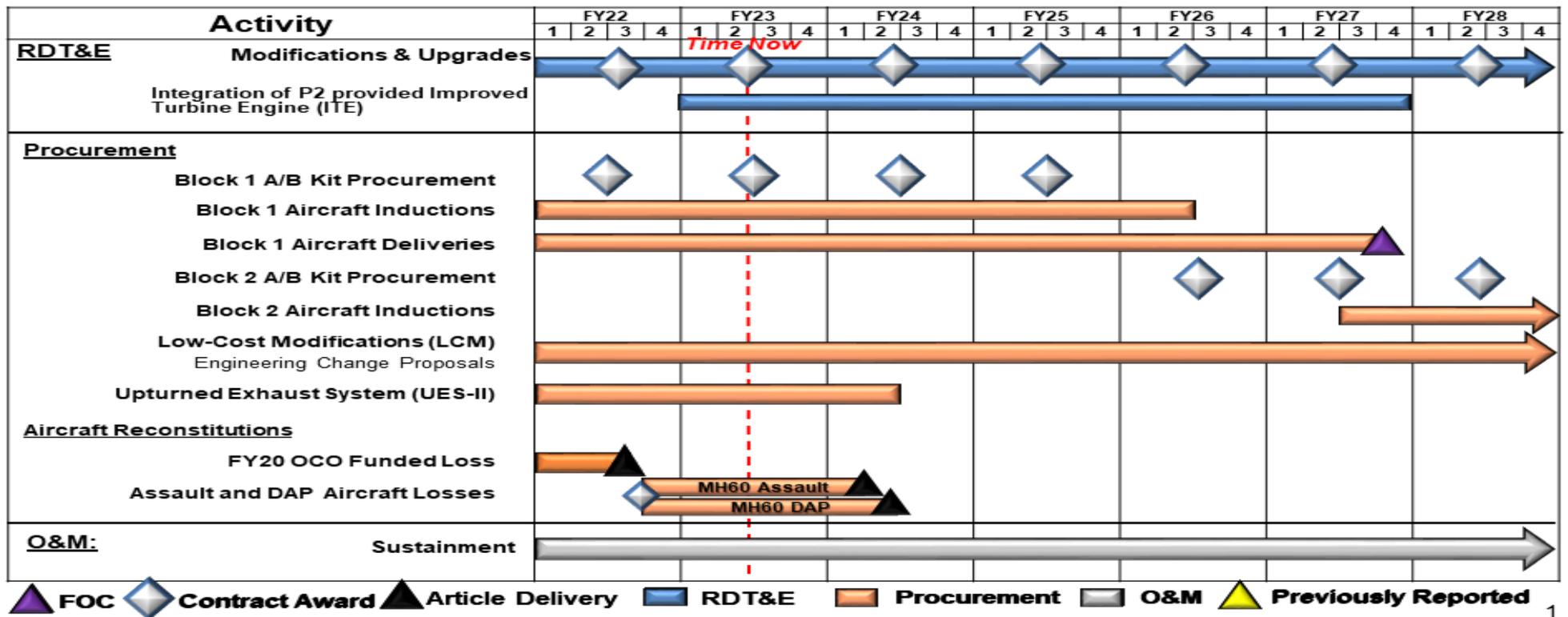
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		338.238	41.226	59.490	67.311	-	67.311	Continuing	Continuing	N/A

**Remarks**

# A/MH-6 Program Schedule



# MH-60 Program Schedule



# Future Vertical Lift Schedule

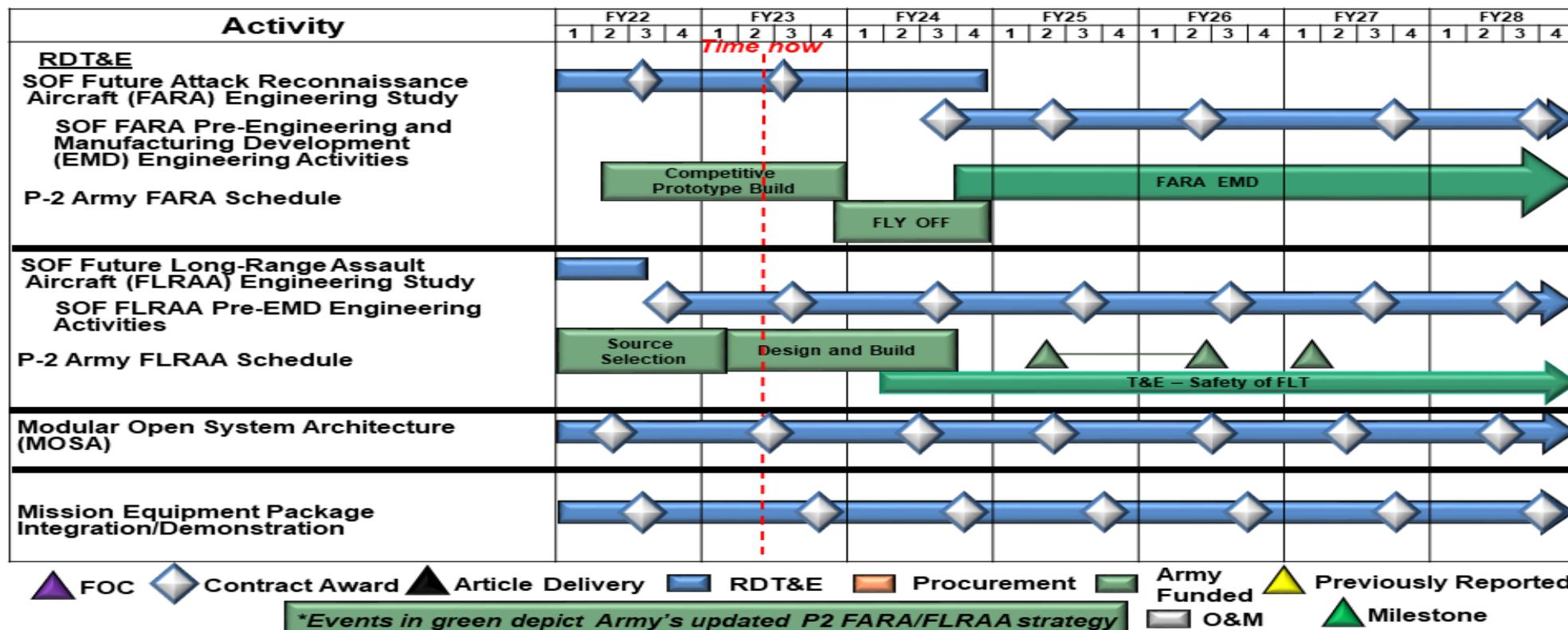
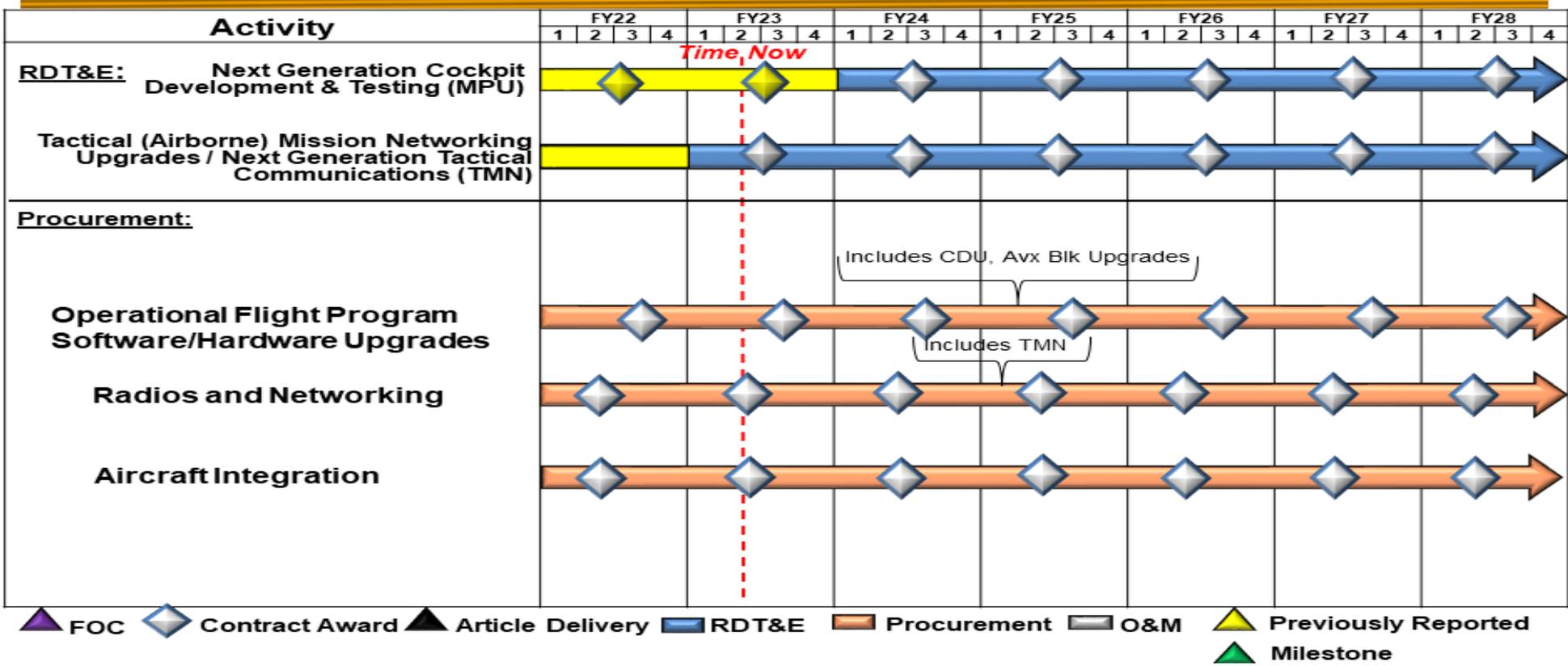




Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160403BB / Aviation Systems	Project (Number/Name) D615 / Rotary Wing Aviation

# Mission Processor Upgrade (MPU) Schedule



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160403BB / Aviation Systems	<b>Project (Number/Name)</b> D615 / Rotary Wing Aviation

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>A/MH-6M Block 3.0 and Modifications</b>				
Modifications and Upgrades	1	2022	4	2028
<b>MH-60M Modifications and Block Upgrades</b>				
Modifications and Upgrades	1	2022	4	2028
Improved Turbine Engine Program (ITEP)	1	2023	4	2027
<b>Future Vertical Lift (FVL)</b>				
SOF Future Attack Reconnaissance Aircraft (FARA) Engineering Study and Activities	1	2022	4	2028
SOF Future Long-Range Assault Aircraft (FLRAA) Engineering Study and Activities	1	2022	4	2028
Modular Open Systems Architecture (MOSA)	1	2022	4	2028
Mission Equipment Package (MEP)	1	2022	4	2028
<b>MH-47 Program</b>				
Modifications and Upgrades	1	2022	4	2028
Active Parallel Actuator Subsystem (APAS) Design, Qualification	1	2022	2	2023
<b>Mission Processor Upgrade (MPU)</b>				
Next Generation Cockpit Development and Testing	1	2024	4	2028
Tactical Mission Networking Upgrades / Next Generation Tactical Communications	1	2023	4	2028

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence 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
Total Program Element	645.994	30.399	90.136	86.737	-	86.737	81.282	76.780	79.277	81.825	Continuing	Continuing
S400: <i>SO Intelligence Systems</i>	645.994	30.399	90.136	86.737	-	86.737	81.282	76.780	79.277	81.825	Continuing	Continuing

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

This Program Element (PE) is part of the Military Intelligence Program (MIP) that develops the identification, development, rapid prototyping and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. RDT&E project addresses: intelligence dissemination; sensor systems; tagging, tracking, and locating devices; integrated threat warning to SOF mission platforms; biometrics and forensic site exploitation; Tactical Exploitation of National Capabilities (TENCAP) system under National Systems Support to SOF (NSSS); space-based payload development; and tactical uncrewed systems. The United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems and tactical uncrewed systems continue to provide SOF with the required capabilities. The USSOCOM tactical uncrewed and C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments. This PE received a Congressional Add in FY 2023 for Multi-Mission Tactical Unmanned Aerial Systems (MTUAS) for Artificial Intelligence for Small Unit Maneuver (AISUM) (\$15.000 million).

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	30.399	75.136	77.607	-	77.607
Current President's Budget	30.399	90.136	86.737	-	86.737
Total Adjustments	0.000	15.000	9.130	-	9.130
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	15.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Year	-	-	9.130	-	9.130

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

**Project:** S400: *SO Intelligence Systems*

Congressional Add: *MTUAS for Artificial Intelligence for Small Unit Maneuver (AISUM)*

	FY 2022	FY 2023
	-	15.000

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>
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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

	FY 2022	FY 2023
Congressional Add Subtotals for Project: S400	-	15.000
Congressional Add Totals for all Projects	-	15.000

**Change Summary Explanation**

Funding:

FY 2022: None.

FY 2023: Increase for Multi-Mission Tactical Unmanned Aerial Systems (MTUAS) for Artificial Intelligence for Small Unit Maneuver (AISUM) to accelerate research, development, test and evaluation and integration of advanced artificial intelligence and machine learning technologies on V-BAT (not an acronym) to provide modular capabilities in support of Small Unit Maneuver (\$15.000 million).

FY 2024: Net increase of \$9.130 million to support autonomy enhancements to Multi-Mission Tactical Unmanned Aerial Systems (MTUAS) V-BAT platform (\$2.500 million) and details to be provided under separate cover (\$6.630 million).

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence 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
S400: <i>SO Intelligence Systems</i>	645.994	30.399	90.136	86.737	-	86.737	81.282	76.780	79.277	81.825	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project is part of the Military Intelligence Program (MIP). Provides for the identification, development, testing, and rapid prototyping of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Programs address the primary areas of intelligence dissemination, sensor systems, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, SOF-peculiar (SOF-p) support from space systems including Tactical Exploitation of National Capabilities (TENCAP) system, space-based payload development, and tactical uncrewed systems. The systems developed and tested in this project are National Systems Support to SOF (NSSS); Special Operations Tactical Video System/Reconnaissance, Surveillance, and Target Acquisition (TVS/RSTA); SOF Planning, Rehearsal and Execution Preparation (SOFPREP); Integrated Survey Program (ISP); Sensitive Site Exploitation (SSE); SOF Signals Intelligence (SIGINT) Processing, Exploitation, Dissemination (PED) Silent Dagger (SD); Small Unmanned Systems (SUMS) consolidating the Expeditionary Organic Tactical Airborne - Intelligence, Surveillance, Reconnaissance (ISR) Capability Sets (EOTACS) program with other multi-domain robotic acquisitions]; and Multi-Mission Tactical Unmanned Aerial Systems (MTUAS). The intelligence programs funded in this project will meet annual emergent requirements.

The United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems and tactical uncrewed systems continue to provide SOF with the required capabilities throughout the 21st century. The USSOCOM's tactical uncrewed and C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> National Systems Support to SOF (NSSS)	3.345	9.372	9.383
<b>Description:</b> NSSS provides research and development, and rapid prototyping to support the USSOCOM TENCAP program and supporting capabilities. NSSS improves the combat effectiveness of the USSOCOM, its components, and the Theater Special Operations Commands (TSOC) by providing innovative space-based Intelligence, Surveillance, and Reconnaissance (ISR) technologies and system enhancements, products, and special communications capabilities to tactical SOF units. NSSS leverages current and developmental national systems to augment, support, and integrate with the USSOCOM systems. Focus areas include Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), Special Communications, and intelligence fusion, reporting, and dissemination. NSSS efforts are characterized by rapid prototype development to transition to the USSOCOM programs while leveraging existing national space-based assets and integration of SOF-peculiar satellite payloads via integration with the National Defense Space Architecture (NDSA) and aligns with the 2022 National Defense Strategy (NDS).			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b><i>FY 2023 Plans:</i></b> Continue development of SOF-peculiar prototype capabilities, leveraging current or developing technologies and assets, while coordinating with the USSOCOM operators and Program of Record (PoR) for production and operational fielding of successful capabilities. Emphasis areas include the Combined Intelligence Picture-All Source transceiver capability that leverages existing national space assets and integration of SOF-peculiar satellite payloads with the National Defense Space Architecture (NDSA).</p> <p><b><i>FY 2024 Plans:</i></b> Continues development of SOF-peculiar prototype capabilities, leveraging current or developing technologies and assets, while coordinating with the USSOCOM operators and PoR for production and operational fielding of successful capabilities. Emphasis areas included the Combined Intelligence Picture-All Source transceiver capability that leverages existing national space assets and integration of SOF-peculiar satellite payloads integration with the NDSA.</p> <p><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Increase of \$0.011 million supports TENCAP software improvements and integration of space-based payloads into national system architectures for SOF tactical targeting to advance integrated deterrence in alignment with the 2022 National Defense Strategy (NDS).</p>			
<p><b><i>Title:</i></b> Special Operations Tactical Video System/Reconnaissance, Surveillance, and Target Acquisition (TVS/RSTA), Program Number 833</p> <p><b><i>Description:</i></b> This program provides SOF with critical Special Reconnaissance (SR) equipment that directly supports the planning and execution of SOF missions. This capability allows the SOF warfighter to meet mission requirements to find, fix, finish, exploit, analyze, and disseminate information of an adversary's movement, construct, identification, location, and associated activities. TVS/RSTA provides Global Combatant Commanders and SOF operators with an immediate capability to visually and electronically acquire people, things, and activities and provides actionable intelligence for SOF planners and Commanders. The Family of Systems (FoS) consists of interoperable equipment to capture and transfer near-real-time ground-based, tactical day/night/reduced visibility, imagery, video, and electronic proximity and movement sensing, all capable of dissemination through SOF organic, global C4I, and commercial communications infrastructures. TVS/RSTA directly supports the 2022 National Defense Strategy priority of integrated deterrence with a focus on Preparation of the Environment (PE), Information Operations (IO) and Unconventional Warfare (UW).</p> <p><b><i>FY 2023 Plans:</i></b></p>	2.955	8.720	8.699

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Continue specialized device modifications for Unattended Ground Sensors/Unattended Maritime Sensors, integration with small satellite receiver payloads, operational testing and evaluation, and begin development of advanced sensor emplacement capabilities.</p> <p><b>FY 2024 Plans:</b> Continues planned spiral improvements for the unattended maritime system payloads and command &amp; control capabilities to support Naval Special Warfare. Additional projects in the areas of advanced data exfil using ground &amp; space techniques and advanced smart sensors will be pursued and undergo operational testing and evaluation.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$0.021 million accounts for the reduced level of effort associated with sensor testing and evaluation events.</p>			
<p><b>Title:</b> SOF Planning, Rehearsal and Execution Preparation (SOFPREP)</p> <p><b>Description:</b> This effort serves as the intelligence focal point for production of SOF enhanced GEOINT (maps, imagery, and terrain data) and three-dimensional (3D) scene visualization databases. SOFPREP gathers, processes, exploits, disseminates, and manages classified high resolution 3D databases and GEOINT data in support of SOF training, mission rehearsal, and execution preparation systems. The program builds the SOF common geospatial environment and manages the authoritative database of SOF-peculiar GEOINT terrain data. SOFPREP is a National Geospatial-Intelligence Agency (NGA) certified co-producer in support of time-sensitive SOF-peculiar requirements.</p>	0.281	-	-
<p><b>Title:</b> Integrated Survey Program (ISP), Program Number 842</p> <p><b>Description:</b> This program collects and produces current, detailed, tactical planning data to support military operations to counter threats against U.S. citizens, interests, and property located both domestically and overseas. ISP products are specifically tailored packages that provide operational information and intelligence data for use by the Department of Defense (DoD) and the U.S. Department of State to support operational planners for counter-terrorism operations, evacuations, and other rescue missions.</p> <p><b>FY 2023 Plans:</b> Continue development and rapid fielding of ISP systems and products to integrate with enterprise architecture and support rapid and iterative delivery of digital products to meet emerging SOF requirements.</p> <p><b>FY 2024 Plans:</b> Continues development and rapid fielding of ISP systems and products to integrate with enterprise architecture and supports rapid and iterative delivery of digital products to meet emerging SOF requirements.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	0.797	0.869	0.908

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Increase of \$0.039 million supports continued system development efforts.			
<p><b>Title:</b> Sensitive Site Exploitation (SSE) Program Number 834</p> <p><b>Description:</b> This program uses rapid test and evaluation of emerging biometric and forensic technology to provide state-of-the-art capabilities to the warfighter for the exploitation of documents, electronic data, materiel, and forensic evidence on sensitive sites/objectives. Biometric kits collect and transmit unique, measurable biometric signatures from personnel, including live/latent fingerprints, iris patterns, and facial features. It also provides a means to verify against and enroll subjects into the DoD authoritative database and to query that database to support hold or release decisions. Forensic kits enable on-objective linking of events to specific persons through chemical analysis, latent fingerprints, cell phones and computer data analysis, and deoxyribonucleic acid (DNA) collection. Exploitation Analysis Centers provide theater-level mobile forensic capabilities for more in-depth exploitation of collected exploitable material. Supports the 2022 NDS through the sharing of Collectible Exploitable Material (CEM) with foreign partners provides intelligence to advance regional security goals that implement the higher level aims of integrated deterrence.</p> <p><b>FY 2023 Plans:</b> Continue touchless fingerprint and mobile biometric device objectives, as well as integration of a low visibility, small form factor, hazardous chemical detection capability with the ability to identify chemicals through containers and windows reducing risk to the operator. A handheld device will save time, improve on-site analysis, and prevent exposure to dangerous substances while reducing the risk of igniting explosive chemicals. Continue equipment modernization persistently required for hardware and software applications that support CEM on mobile computing devices.</p> <p><b>FY 2024 Plans:</b> Continues touchless equipment modernization with smaller form factor and integration of converging technologies on operator handheld biometric devices. Continues touchless equipment innovation for Operator handheld chemical detection reducing risk to the operator by limiting or preventing exposure to dangerous combustible material while providing real time results.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.019 million continues equipment modernization persistently required for hardware and software applications that support CEM on mobile computing devices.</p>	1.752	1.955	1.974
<p><b>Title:</b> SOF Signals Intelligence (SIGINT) Processing, Exploitation, Dissemination (PED) Silent Dagger (SD) Program Number 835</p> <p><b>Description:</b> SOF SIGINT PED SD is family of products and services providing ISR, and analytical capabilities at the Joint Task Force level and below through a combination of reachback, forward support and collaboration. The program supports all Components and TSOCs with capability that interconnects warfighters, sensors, and analytic tools to find and fix enemy combatants and/or terrorists, as well as information sharing across the USSOCOM Enterprise and the DoD. The SIGINT PED SD</p>	0.565	1.120	1.113

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>provides SIGINT exploitation in both garrison and deployed environments in support of multi-domain SOF operations in contested environments supporting integrated deterrence.</p> <p><b>FY 2023 Plans:</b> Continue development and integration of emerging technologies and capability enhancements for requirements including: advanced analytics; User Interfaces, cloud computing; machine learning; and disconnected operations. Continue limited Objective Events and exercise participation in support of outside declared theater of active armed conflict preparation to include integration of advanced technologies and obtaining operational feedback of upgraded capabilities in development.</p> <p><b>FY 2024 Plans:</b> Continues development and integration of emerging technologies and capability enhancements for requirements including: advanced analytics; User Interface; cloud computing; machine learning; and disconnected operations. Continues exercise participation in support of outside declared theater of active armed conflict preparation to include integration of advanced technologies and obtaining operational feedback of upgraded capabilities in development.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$0.007 million reduces the level of effort for integration of advance technologies.</p>			
<p><b>Title:</b> Small Unmanned Systems (SUMS); [(includes Expeditionary Organic Tactical Airborne - Intelligence, Surveillance, Reconnaissance (ISR) Capability Sets (EOTACS)]</p> <p><b>Description:</b> SUMS is categorized by platform domain, range, and endurance in capability sets meeting the ISR requirements of SOF individuals, teams, and units. SUMS platforms are battery or battery-hybrid powered, range up to 30 miles from the launch area, and can operate up to eight hours before having to recharge. SUMS include fixed-wing and Vertical Take-Off and Landing (VTOL) airborne platforms, wheeled, tracked, legged ground platforms, propeller, sail/water-jet propelled sea-surface, and undersea platforms. SUMS payloads and ancillary equipment are also included. Funding for this program was contained in Program Element (PE) 1160434BB Unmanned ISR; Project S855 Unmanned ISR for FY 2022 and prior.</p> <p>SUMS development is focused on addressing Special Operations Force’s pacing challenge with multi-domain robotic ISR systems for enduring advantage throughout the spectrum of conflict. SUMS development includes efforts to decrease SOF operator cognitive load through the integration of computing resources and sensor payloads to advance autonomy, artificial intelligence (AI), and machine learning (ML) capabilities in uncrewed systems.</p> <p><b>FY 2023 Plans:</b> Begin development, test, and integration of Artificial Intelligence/Machine Learning (AI/ML) advances into small Uncrewed Air Systems (UAS) toward collaborative autonomy, including autonomous navigation and obstacle avoidance, automated target</p>	-	14.338	14.649

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>recognition, and multi-system operations by a single user (person-on-the-loop) while continuing test, prototyping and integration of ISR payloads and ancillary equipment.</p> <p><b>FY 2024 Plans:</b> Continues development, test, and integration of AI/ML into multi-domain SUMS to improve collaborative autonomy, including autonomous navigation and obstacle avoidance, automated target recognition, and multi-system operations by a single user (person-on-the-loop) and continuing test, prototyping, and integration of multi-domain platforms, ISR payloads, and ancillary equipment.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.311 million supports increased algorithm and computing power development, integration and test.</p>				
<p><b>Title:</b> Multi-Mission Tactical Unmanned Aerial Systems (MTUAS) Program Number 836</p> <p><b>Description:</b> MTUAS are multi-mission tactical uncrewed aircraft systems acquired, tested, trained, fielded, and supported for use by Naval Special Warfare units. The uncrewed aircraft systems comprise Group 2 and Group 3 light air vehicles between 21 and 1320 pounds, modular ground control stations, full motion video payloads, peripherals, and SOF-peculiar (SOF-p) mission kits, payloads, modifications and technology improvements. Funding for this program was contained in Program Element (PE) 1160434BB Unmanned ISR; Project S855 Unmanned ISR for FY 2022 and prior.</p> <p><b>FY 2023 Plans:</b> Begin to develop, test, and integrate emerging technologies and performance enhancements for SOF-p requirements to include, but not limited to the following capabilities: maritime launch and recovery; tactical mobility; communications relay; target designation; common ground control stations; alternative navigation/assured position navigation and timing; beyond line of site operations; machine learning and edge computing; cooperative and collaborative autonomy; man/machine interface improvements; survivability improvements; alternative propulsion and power solutions; resilient communications and data links; battle network integration; and for V-BAT (not an acronym), the UAS material solution.</p> <p><b>FY 2024 Plans:</b> Continues to develop technology insertion for maritime and autonomy applications, as well as integration testing with special payloads and other SOF assets.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$2.135 million will support autonomy enhancements to V-BAT platforms.</p>		-	10.935	13.070
<p><b>Title:</b> Classified Program</p> <p><b>Description:</b> Classified Programs (details provided under separate cover).</p>		18.223	27.827	36.941

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
<b><i>FY 2023 Plans:</i></b> Details provided under separate cover.			
<b><i>FY 2024 Plans:</i></b> Details provided under separate cover.			
<b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Increase of \$9.114 million will be provided under separate cover.			
<b><i>Title:</i></b> Classified Program SAP	2.481	-	-
<b><i>Description:</i></b> Classified Program (details provided under separate cover). This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.			
<b>Accomplishments/Planned Programs Subtotals</b>	30.399	75.136	86.737

	FY 2022	FY 2023
<b><i>Congressional Add:</i></b> MTUAS for Artificial Intelligence for Small Unit Maneuver (AISUM)	-	15.000
<b><i>FY 2023 Plans:</i></b> Funds accelerate research, development, test and evaluation and integration of advanced artificial intelligence and machine learning technologies on V-BAT to provide Naval Special Warfare with Advance modular capabilities in support of Small Unit Maneuver.		
<b>Congressional Adds Subtotals</b>	-	15.000

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

<b>Line Item</b>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/020400INTL: <i>Intelligence Systems</i>	131.889	242.094	203.400	-	203.400	210.391	220.089	237.683	241.879	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

• NSSS leverages internal/external contracts, Other Transaction Authorities (OTA) to introduce and integrate national systems capabilities into the SOF force structure and operations. This approach rapidly develops Technology Readiness Level (TRL) 3/4 to TRL 6/7 capabilities for SOF operational deficiencies identified by the national intelligence community competitive technology selection process. By partnering with existing Intelligence Community and the USSOCOM, NSSS incorporates SOF mission requirements into current and developing technologies and assets. This leveraging of funds increases national and commercial space-based systems

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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awareness, demonstrates the tactical utility of national systems and commercial data, test technologies and evaluates operational concepts and allows for the transition of promising concepts and technologies to other SOF program offices for execution.

- The TVS/RSTA program has been designated a Major Capability Acquisition (MCA) at Milestone C, in accordance with the authority in the Department of Defense (DoD) Directives 5135.02, the guidance in DoD Instruction 5000.85. The purpose of the MCA is to acquire sensors, cameras, and data exfil capabilities that provide and utilizes upgraded next- generation technology insertion of commercial off the shelf systems to address the changing threat environment. Commercial and government agency sources will be leveraged for required certifications, system level integration, functional, and operational testing and evaluations. TVS/RSTA directly supports the 2022 National Defense Strategy priority of integrated deterrence with a focus on Preparation of the Environment (PE), Information Operations (IO) and Unconventional Warfare (UW).
- SOFPREP uses a rapid acquisition strategy to facilitate rapid and iterative delivery of digital products to meet emerging SOF requirements. Commercial, open and government sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.
- ISP uses a rapid acquisition strategy to facilitate rapid and iterative delivery of digital products to meet emerging SOF requirements. Commercial, open and government sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.
- SSE utilizes the MCA (ACAT III) pathway that leverages rapid prototyping, test, and evaluation strategy to provide next-generation technologies for collection, processing, exploitation and dissemination capabilities supporting SOF exploitation mission requirements. Commercial and government agency sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations.
- SOF SIGINT PED SD is a MCA (ACAT III) program leveraging National services, controlled commercial hardware, and SOF specific capabilities, acquired through internal USSOCOM contracts, external contracts, and partnerships with other government agencies. The program represents SOF equities to Other Government Agencies (OGAs), programs, and National capabilities sponsors to innovate capability for SOF SIGINT PED. The acquisition strategy is a mixture of agency partnerships and government capability providers leveraging open competition with controlled supply chains.
- SUMS, formerly known as EOTACS, utilizes the MCA pathway that leverages evolutionary acquisition solutions to develop, integrate, test, and field SOF-p capabilities using multi-domain Commercial Off the Shelf, Government Off the Shelf, and OGA platforms, payloads, and ancillary equipment. Market research identifies advances in performance, including collaborative autonomy effects, Intelligence, Surveillance, Reconnaissance payload performance and modularity, improved ground control station user interface, and collaborative autonomy effects. Additional artificial intelligence/machine learning algorithms, sensors, and computing power are developed, integrated, and tested in SUMS for required SOF-p performance. Commercial and government sources are leveraged for required operation and cybersecurity certifications. Existing indefinite delivery/indefinite quantity contracts are utilized for procurement of systems and equipment.
- MTUAS utilizes the MCA pathway that leverages rapid prototyping and evolutionary acquisition solutions that deliver, integrate, and qualify SOF-p uncrewed aircraft systems and modular mission kits (that may include: payloads, air vehicle performance enhancements, training systems, and ground control station upgrades) to continuously strengthen the posture against the dynamic capabilities of strategic competitors and supports strategies for integrated deterrence. These technology

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

insertions will be developed and obtained using available acquisition strategies that include thorough stakeholder analysis to provide well and broadly defined capabilities. Contracting methods depend on the type of development effort. Competitive source selection will be conducted as much as possible but may also leverage Other Transactional Authorities (OTAs) when sensible. Proprietary considerations may direct some effort to the original equipment manufacturer on a sole source basis.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
National Systems Support to SOF (NSSS)	MIPR	Various : Various	45.777	3.345	Feb 2022	9.372	Feb 2023	-		-		-	0.000	58.494	-
NSSS Enhanced Situational Awareness (ESA) Increment 1	MIPR	Various : Various	-	-		-		4.277	Dec 2023	-		4.277	Continuing	Continuing	-
NSSS Tactical Target Acquisition (TTA)	MIPR	Various : Various	-	-		-		0.472	Jan 2024	-		0.472	Continuing	Continuing	-
NSSS Signals Intelligence (SIGINT)	MIPR	Various : Various	-	-		-		0.874	Jan 2024	-		0.874	Continuing	Continuing	-
NSSS Geospatial Intelligence (GEOINT)	MIPR	Various : Various	-	-		-		0.200	Dec 2023	-		0.200	Continuing	Continuing	-
NSSS Payload Development/ Integration	MIPR	Various : Various	-	-		-		2.900	Feb 2024	-		2.900	Continuing	Continuing	-
Tactical Video System/ Reconnaissance, Surveillance, & Target Acquisition (TVS/RSTA) Hardware Product Development	C/CPFF	Various : Various	2.210	2.517	Jul 2022	7.248	Mar 2023	7.248	May 2024	-		7.248	Continuing	Continuing	-
Integrated Survey Program (ISP) - Development, Test and Evaluation	C/FFP	Various : Various	3.518	0.748	Jan 2022	0.807	Jan 2023	0.800	Jan 2024	-		0.800	Continuing	Continuing	-
Sensitive Site Exploitation (SSE) Development Rapid Innovative Prototyping	C/FFP	DEFENSEWERX, INC : Niceville, FL	-	-		1.463	Jan 2023	1.527	Jan 2024	-		1.527	Continuing	Continuing	-
SOF Signals Intelligence (SIGINT), Processing, Exploitation, Dissemination (PED), Silent Dagger (SD) Technology Enhancements/Integration	C/FFP	United States Cyber Command (USCYBERCOM) : Fort George G. Meade, MD	-	0.565	Jun 2022	1.120	Apr 2023	1.113	Apr 2024	-		1.113	Continuing	Continuing	-
Small Unmanned Systems (SUMS)	MIPR	Defense Innovation Unit (DIU) : Various	-	-		10.500	May 2023	7.000	Dec 2023	-		7.000	Continuing	Continuing	-
SUMS	MIPR	SOFWERX : Various	-	-		-		2.000	Jan 2024	-		2.000	Continuing	Continuing	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
SUMS	MIPR	National Laboratories : Various	-	-		-		2.000	Jan 2024	-		2.000	Continuing	Continuing	-
Multi-Mission Tactical Unmanned Aerial System (MTUAS)	MIPR	Various : Various	-	-	1.327	Dec 2022		3.119	Nov 2023	-		3.119	Continuing	Continuing	-
MTUAS: Technology Insertion: Communication Navigation , Propulsion, Structures, Autonomy, and Cyber	MIPR	Various : Various	-	-	-			5.619	Nov 2023	-		5.619	Continuing	Continuing	-
MTUAS for Artificial Intelligence for Small Unit Maneuver (AISUM) Autonomy Development Congressional Add	MIPR	Naval Air Warfare Center Aircraft Division : Patuxent River, MD	-	-	5.675	Jul 2023		-		-		-	0.000	5.675	-
MTUAS for AISUM Autonomy Development Congressional Add	MIPR	Defense Logistics Agency Troop Support : Philadelphia, PA	-	-	7.000	Jul 2023		-		-		-	0.000	7.000	-
Classified Programs	TBD	TBD : TBD	87.688	18.457				25.469		-		30.902	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	176.442	-				-		-		-	0.000	176.442	-
Prior Year Funding - Congressional Add	Various	Various : Various	4.200	-				-		-		-	0.000	4.200	-
<b>Subtotal</b>			319.835	25.632		69.981		70.051		-		70.051	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
NSSS - Support	Various	Various : Various	-	-		-		0.660	Aug 2024	-		0.660	Continuing	Continuing	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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<b>Support (\$ in Millions)</b>				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
SUMS - Collaborative Autonomy on Small Unmanned Airborne Systems Artificial Intelligence / Machine Learning	MIPR	Various : Various	-	-		0.338	Feb 2023	0.250	Dec 2023	-		0.250	Continuing	Continuing	-
MTUAS Subject Matter Experts, Test & Evaluation Management, Safety/ Certifications, Ranges, and Test Equipment & Facilities	Various	Various : Various	-	-		3.154	Nov 2022	3.065	Nov 2023	-		3.065	Continuing	Continuing	-
MTUAS for AISUM Autonomy Engineering Project Management, Flight Team, Logistics Congressional Add	MIPR	Naval Air Warfare Center Aircraft Division Flight Support Team : Patuxent River, MD	-	-		0.325	Jul 2023	-		-		-	0.000	0.325	-
Classified Programs	TBD	TBD : TBD	111.380	0.800		1.001		3.067		-		3.067	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	116.844	-		-		-		-		-	0.000	116.844	-
<b>Subtotal</b>			228.224	0.800		4.818		7.042		-		7.042	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost 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
TVS/RSTA - User Assessments Operational Test and Evaluation	MIPR	ATEC : FT Huachuca, AZ	7.398	0.438	Mar 2022	1.472	Feb 2023	1.451	Feb 2024	-		1.451	Continuing	Continuing	-
SOF Planning, Rehearsal and Execution Preparation (SOFPREP) - Prototype Systems (Developmental, Operational, or Live Fire?)	C/FFP	Various : Various	5.006	0.281	Mar 2022	-		-		-		-	0.000	5.287	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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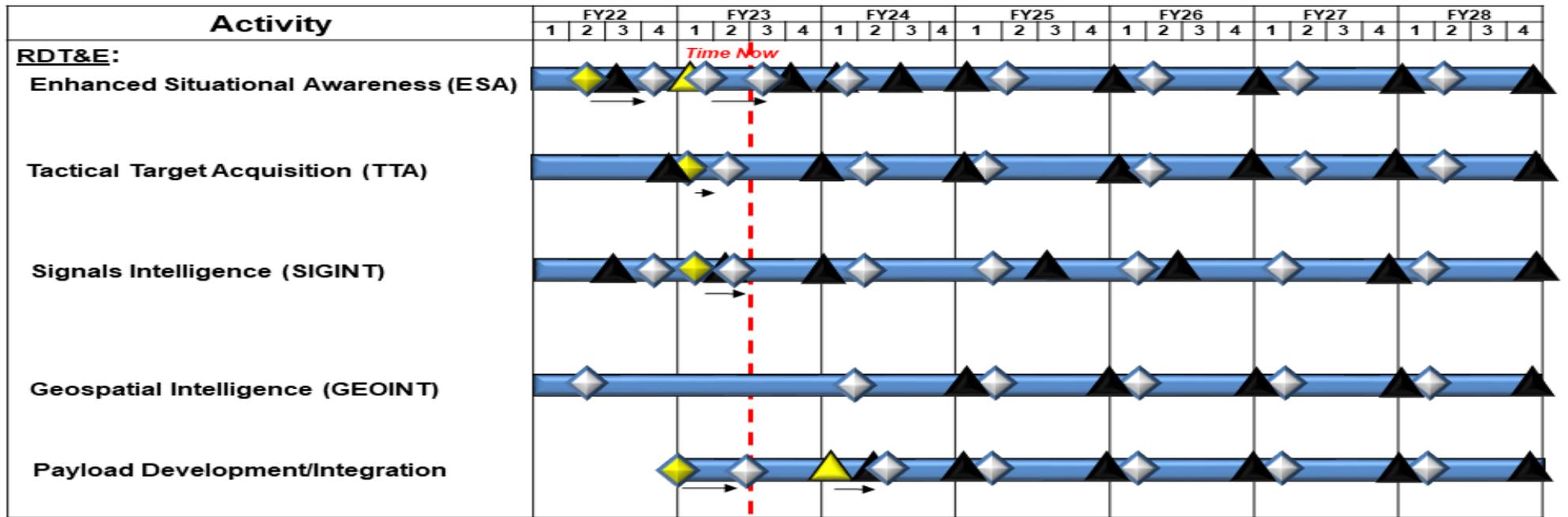
<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ISP - Test and Evaluation	C/CPFF	Various : Various	-	0.049	Jan 2022	0.062	Jan 2023	0.108	Jan 2024	-		0.108	Continuing	Continuing	-
SSE Integrated Operational Test & Evaluation	MIPR	Various : Various	7.456	1.752	Jan 2022	0.492	Jan 2023	0.447	Jan 2024	-		0.447	Continuing	Continuing	-
SUMS Developmental Test and Evaluation Payload Integration	MIPR	John-Hopkins University Affiliated Research Center (UARC) : Laurel, MD	-	-		3.500	May 2023	2.000	Feb 2024	-		2.000	Continuing	Continuing	-
SUMS Developmental Test and Evaluation	MIPR	Various : Various	-	-		-		1.000	Apr 2024	-		1.000	Continuing	Continuing	-
SUMS Operational Test and Evaluation	MIPR	Various : Various	-	-		-		0.399	Apr 2024	-		0.399	Continuing	Continuing	-
MTUAS Developmental Test and Evaluation	Various	Various : Various	-	-		6.454	Nov 2022	-		-		-	0.000	6.454	-
MTUAS - Developmental Test and Evaluation: Modification Contractor Test/ Engineering Investigations (EIs)	MIPR	Various : Various	-	-		-		0.634	Nov 2023	-		0.634	Continuing	Continuing	-
MTUAS - Operational Test and Evaluation: Modifications Test and Improvements	MIPR	Various : Various	-	-		-		0.633	Nov 2023	-		0.633	Continuing	Continuing	-
MTUAS for AISUM Developmental Test and Evaluation for Advanced Sensors Congressional Add	MIPR	Naval Sea Systems Command : John Hopkins University, MD	-	-		1.500	Jul 2023	-		-		-	0.000	1.500	-
MTUAS for AISUM Developmental Test and Evaluation for Various Ranges Congressional Add	MIPR	Various : Various	-	-		0.500	Aug 2023	-		-		-	0.000	0.500	-



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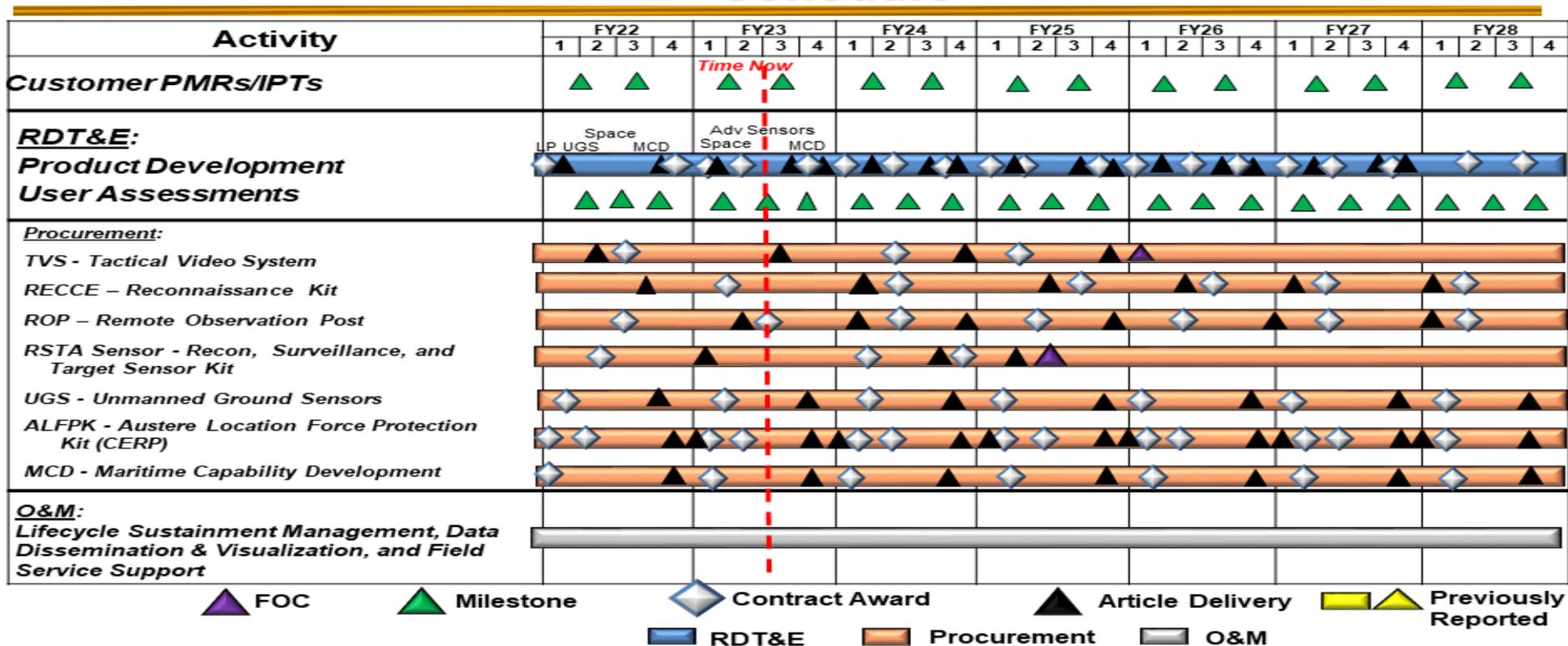
<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

# National Systems Support to SOF (NSSS) Schedule



<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / Intelligence Systems Development	<b>Project (Number/Name)</b> S400 / SO Intelligence Systems
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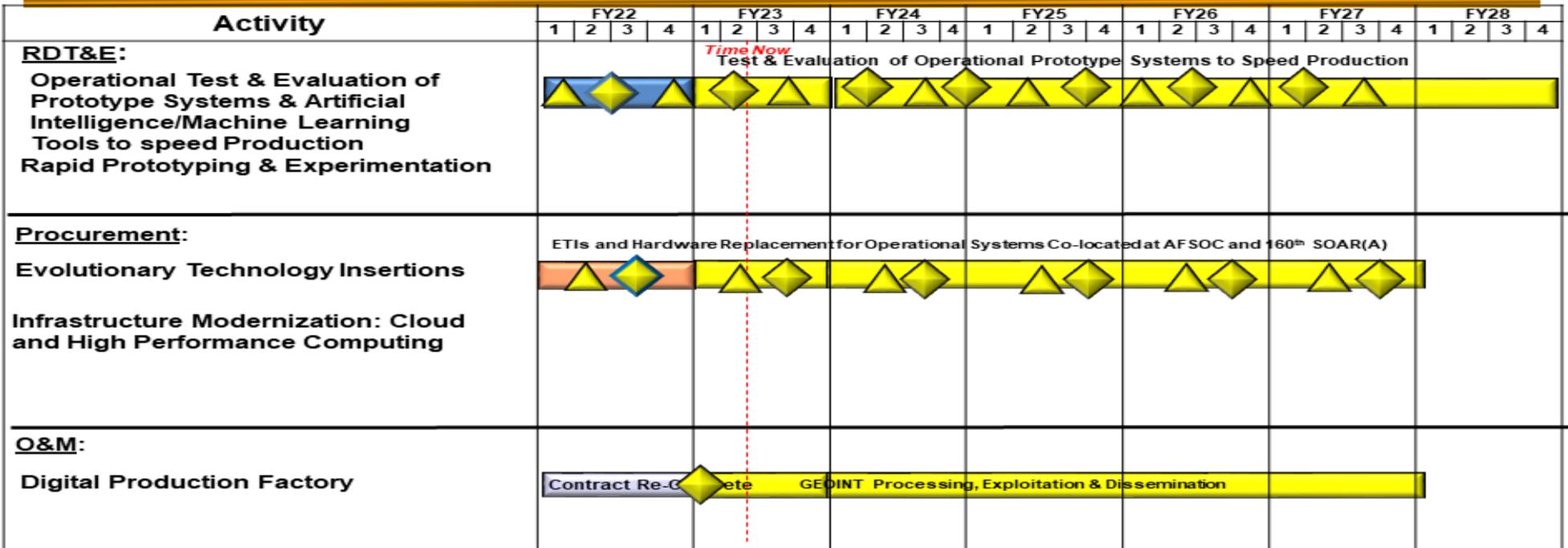
## Special Operations Tactical Video System / Reconnaissance, Surveillance, and Target (TVS/RSTA) Schedule



**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 United States Special Operations Command</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / Intelligence Systems Development	<b>Project (Number/Name)</b> S400 / SO Intelligence Systems

## SOF Planning, Rehearsal and Execution Preparation (SOFPREP) Schedule

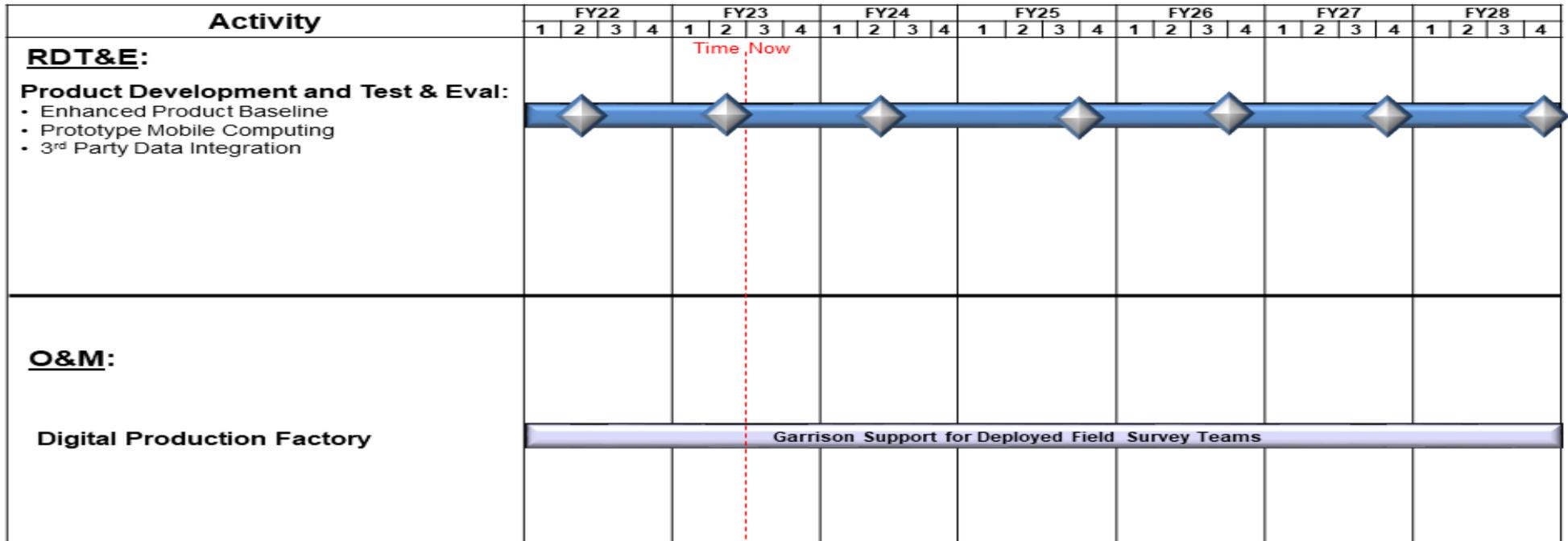


◆ Contract Award     ▲ Article Delivery     ▲ Previously Reported  
■ RDT&E     ■ Procurement     ■ O&M

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>

## Integrated Survey Program (ISP)

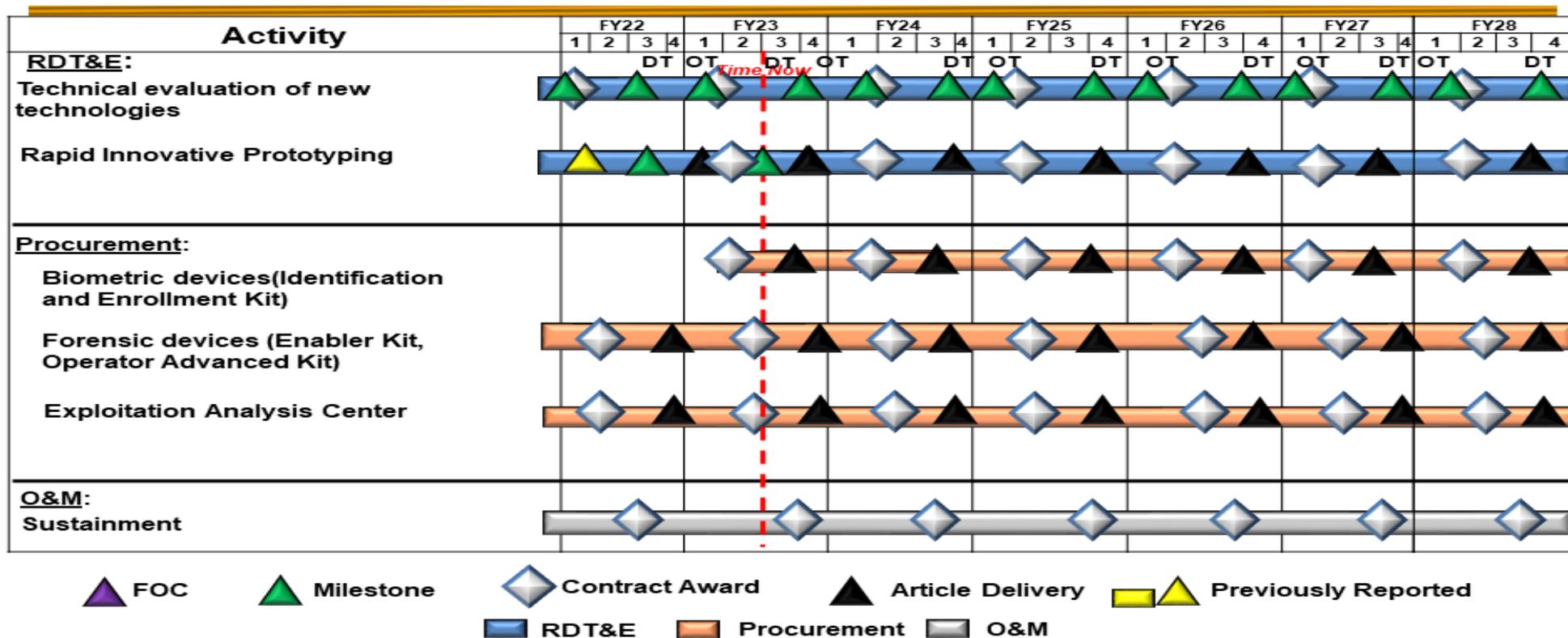


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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command Date: March 2023

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / Intelligence Systems Development	<b>Project (Number/Name)</b> S400 / SO Intelligence Systems
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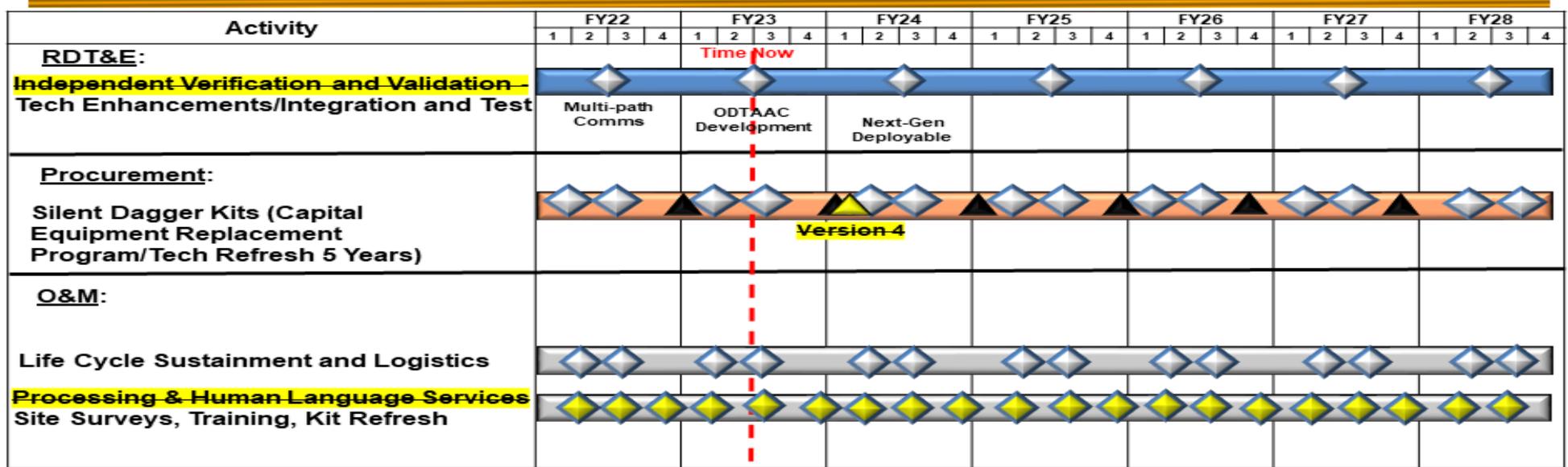
## Sensitive Site Exploitation (SSE) Schedule



**UNCLASSIFIED**

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 1160405BB / Intelligence Systems Development	Project (Number/Name) S400 / SO Intelligence Systems

## SOF Signals Intelligence (SIGINT) Processing Exploitation Dissemination (PED) Silent Dagger (SD) Schedule



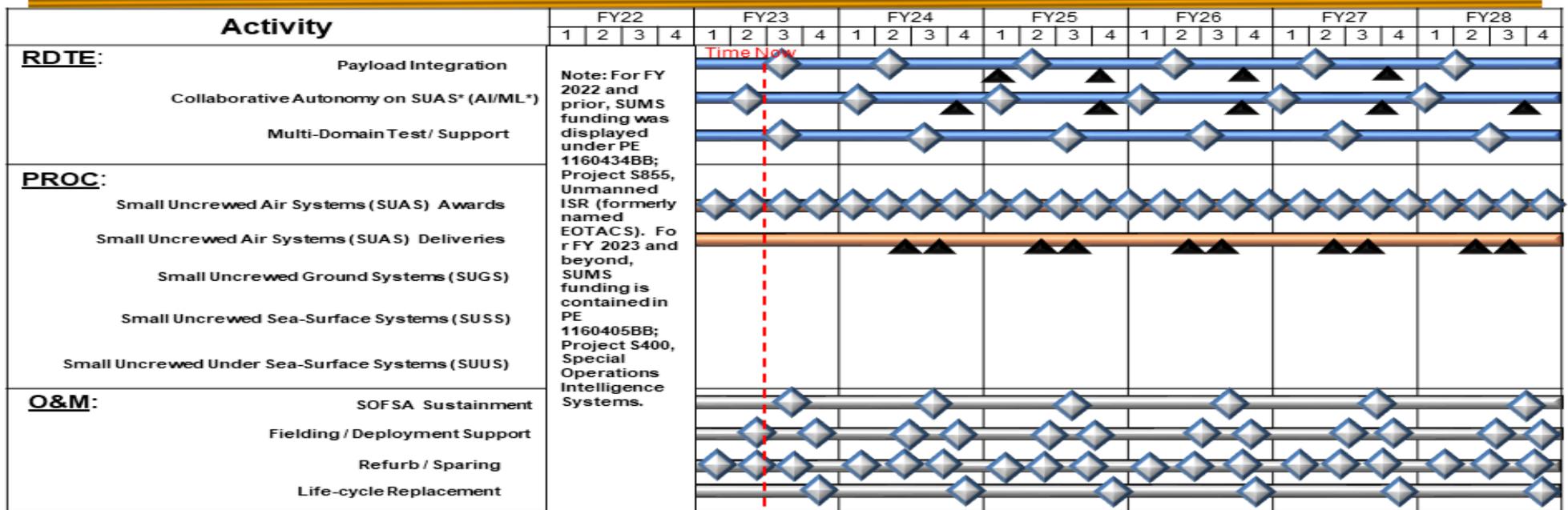
SILENTDAGGER performs CERP and tech refresh of system components while tracking system status/system configuration of the components using rigorous configuration management not tracked to a SILENTDAGGER system version.

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / Intelligence Systems Development	<b>Project (Number/Name)</b> S400 / SO Intelligence Systems
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# Small Unmanned Systems (SUMS) Schedule



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

▲ Previously Reported

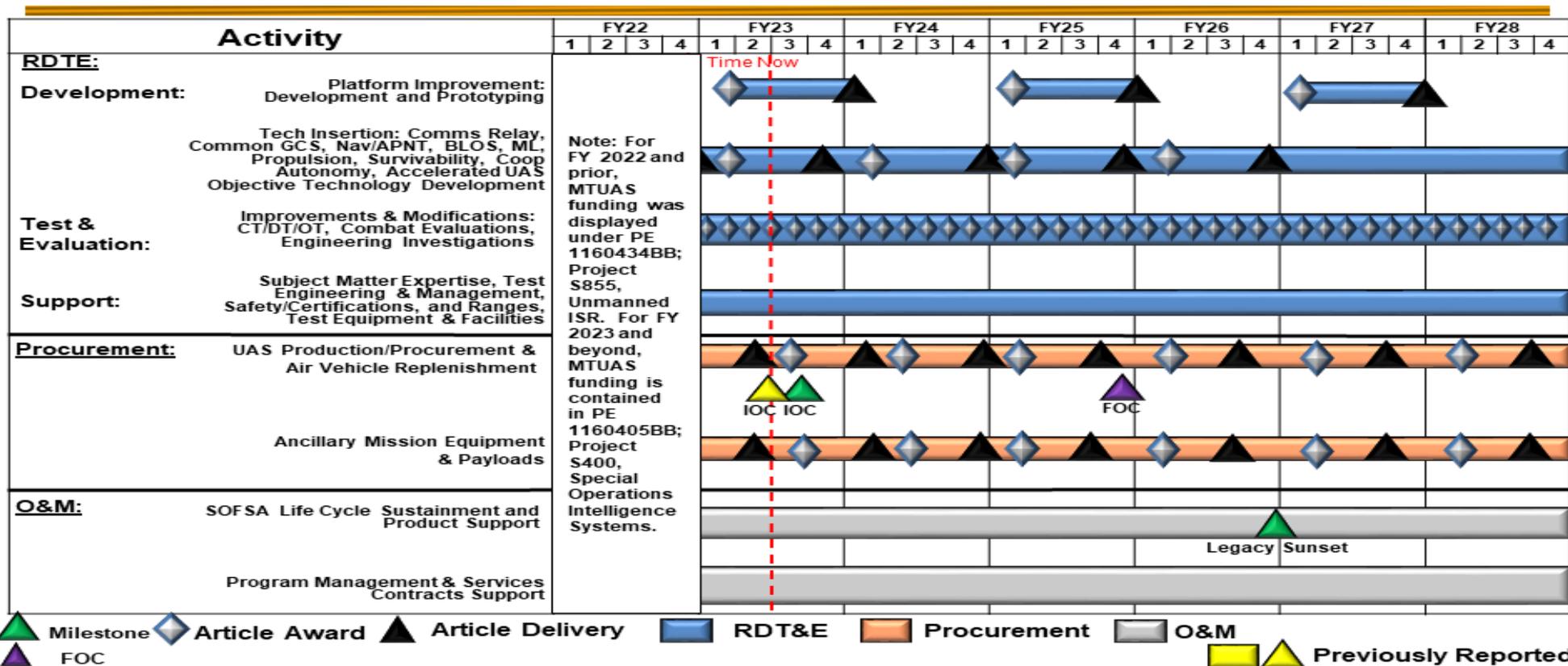
\* SUAS = Small Unmanned Airborne Systems  
 \* AI/ML = Artificial Intelligence / Machine Learning

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160405BB / Intelligence Systems Development

Project (Number/Name)  
S400 / SO Intelligence Systems

# Multi-Mission Tactical Unmanned Aerial System (MTUAS) Schedule



**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>National Systems Support to SOF (NSSS)</i></b>				
Enhanced Situational Awareness (ESA)	1	2022	4	2028
Tactical Target Acquisition (TTA)	1	2022	4	2028
Signals Intelligence (SIGINT)	1	2022	4	2028
Geospatial Intelligence (GEOINT)	1	2022	4	2028
Payload Development / Integration	1	2023	4	2028
<b><i>Special Operations Tactical Video System/Reconnaissance, Surveillance, and Target Acquisition (TVS/RSTA)</i></b>				
Product Development	1	2022	4	2028
User Assessments	1	2022	4	2028
<b><i>Special Operations Forces Planning, Rehearsal &amp; Execution Preparation (SOFPREP)</i></b>				
Operational Test and Evaluation of Prototype Systems and Artificial Intelligence/ Machine Learning to speed production	1	2022	4	2022
Rapid Prototyping and Experimentation	1	2022	4	2022
<b><i>Integrated Survey Program (ISP)</i></b>				
Product Development, Test and Evaluation	1	2022	4	2028
<b><i>Sensitive Site Exploitation (SSE)</i></b>				
Technical evaluation of new technologies	1	2022	4	2028
Rapid Innovative Prototyping	3	2022	3	2023
<b><i>SOF Signals Intelligence (SIGINT), Processing, Exploitation, Dissemination (PED) Silent Dagger (SD)</i></b>				
Technology Enhancements/Integration and Test	1	2022	4	2028

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160405BB / <i>Intelligence Systems Development</i>	<b>Project (Number/Name)</b> S400 / <i>SO Intelligence Systems</i>
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<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
<b><i>Small Unmanned Systems (sUMS) {formerly Expeditionary Organic Tactical Airborne - Intelligence, Surveillance, Reconnaissance (ISR) Capability Sets (EOTACS)}</i></b>				
Payload Integration	1	2023	4	2028
Collaborative Autonomy on Small Unmanned Airborne Systems Artificial Intelligence / Machine Learning	1	2023	4	2028
Multi-Domain Test/Support	1	2023	4	2028
<b><i>Multi-Mission Tactical Unmanned Aerial System (MTUAS)</i></b>				
Platform Improvement Development and Prototyping	1	2023	4	2027
Technology Insertion	1	2023	4	2028
Test and Evaluation of Improvements and Modifications	1	2023	4	2028
Support- Subject Matter Expertise	1	2028	4	2028

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160408BB / <i>Operational Enhancements</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	1,866.002	172.688	184.260	216.135	-	216.135	217.625	191.586	184.329	189.419	Continuing	Continuing
S500A: <i>Operational Enhancements</i>	1,866.002	172.688	184.260	216.135	-	216.135	217.625	191.586	184.329	189.419	Continuing	Continuing

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

Details are provided under separate cover.

FY 2022 includes \$23.417 million in Overseas Operations Costs (OOC) execution. FY 2023 includes \$10.554 million in OOC enacted budget. FY 2024 includes \$4.417 million for the OOC budget request.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	179.230	142.900	138.770	-	138.770
Current President's Budget	172.688	184.260	216.135	-	216.135
Total Adjustments	-6.542	41.360	77.365	-	77.365
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.250			
• Congressional Rescissions	-	-			
• Congressional Adds	-	44.610			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-6.542	-			
• Adjustments to Budget Year	-	-	77.365	-	77.365

**Change Summary Explanation**

Funding:

FY 2022: Decrease of \$6.542 million is due to a reprogramming of funds to the Congressionally mandated Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) programs.

FY 2023: Net increase of \$41.360 million is due to Congressional Add for AISUM (\$10.000 million), a Congressional Add for precision strike munition shipboard safety and certification testing (\$8.610 million), a Congressional Add for modular compact high energy laser (\$18.000 million), a Congressional Add for single-channel handheld enhancements (\$8.000 million) and a Congressional Directed Reduction for a classified adjustment (-\$3.250 million), details provided under separate cover.

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160408BB / <i>Operational Enhancements</i>	

FY 2024: Details for Increase of \$77.365 million will be provided under separate cover.

**UNCLASSIFIED**

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

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

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

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

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

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

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.

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.

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.

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.

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.

**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.

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.

**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.

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

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

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>
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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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	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

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

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

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>
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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).

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> D476 / <i>Military Information Support Operations</i>
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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
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><b>Title:</b> Fly-Away Broadcast System (FABS), Program Number 753</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> Complete development, test, and evaluation of the BDP-Light. Commence development, test, and evaluation of the BDP-Medium.</p> <p><b>FY 2024 Plans:</b> Continues development, test, and evaluation of the BDP-Medium. Commences development, test, and evaluation of the BDP-Heavy.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$2.387 million is due to critical emerging command requirements.</p>	1.581	2.836	0.449
<p><b>Title:</b> Next Generation Loud Speakers (NGLS), Program Number 764</p> <p><b>Description:</b> 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

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

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<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><b>FY 2023 Plans:</b>                      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><b>FY 2024 Plans:</b>                      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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>                      Increase of \$0.473 million is to support phase 2 development of NGLS-Dismounted to incorporate wireless capability and increase range.</p>			
<p><b>Title:</b> Media Production Center (MPC), Program Number 765</p> <p><b>Description:</b> The MPC is a family of systems which include multi-media production, editing, and archiving capabilities to deliver imagery, audio, animation, and audio/video products of varying technical complexity to support SOF Psychological Operations Operators.</p> <p><b>FY 2023 Plans:</b>                      Continue incremental development, test and evaluation of emerging software applications.</p> <p><b>FY 2024 Plans:</b>                      Continues incremental development, test and evaluation of emerging software applications.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>                      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
<b>Accomplishments/Planned Programs Subtotals</b>	3.200	5.371	3.500

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

**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: OTHER ITEMS <\$5M	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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> D476 / <i>Military Information Support Operations</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
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	-
<b>Subtotal</b>			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.

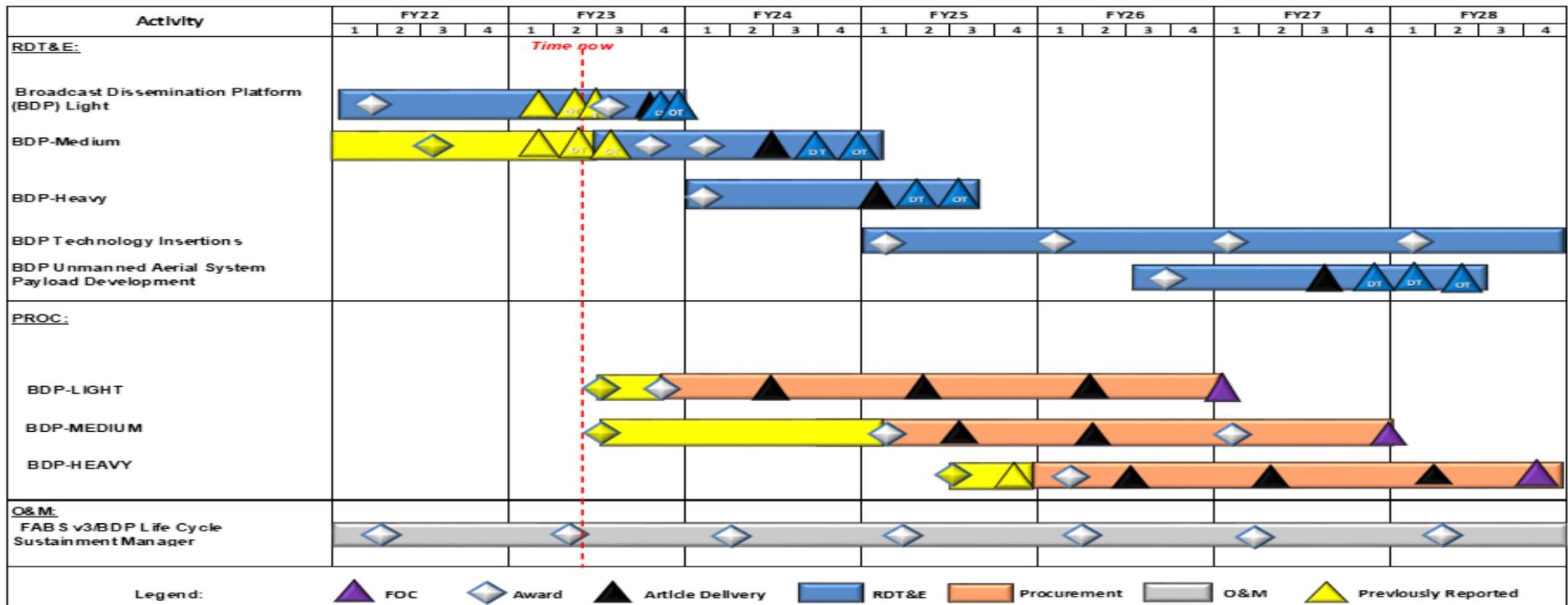
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
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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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / Warrior Systems	<b>Project (Number/Name)</b> D476 / Military Information Support Operations

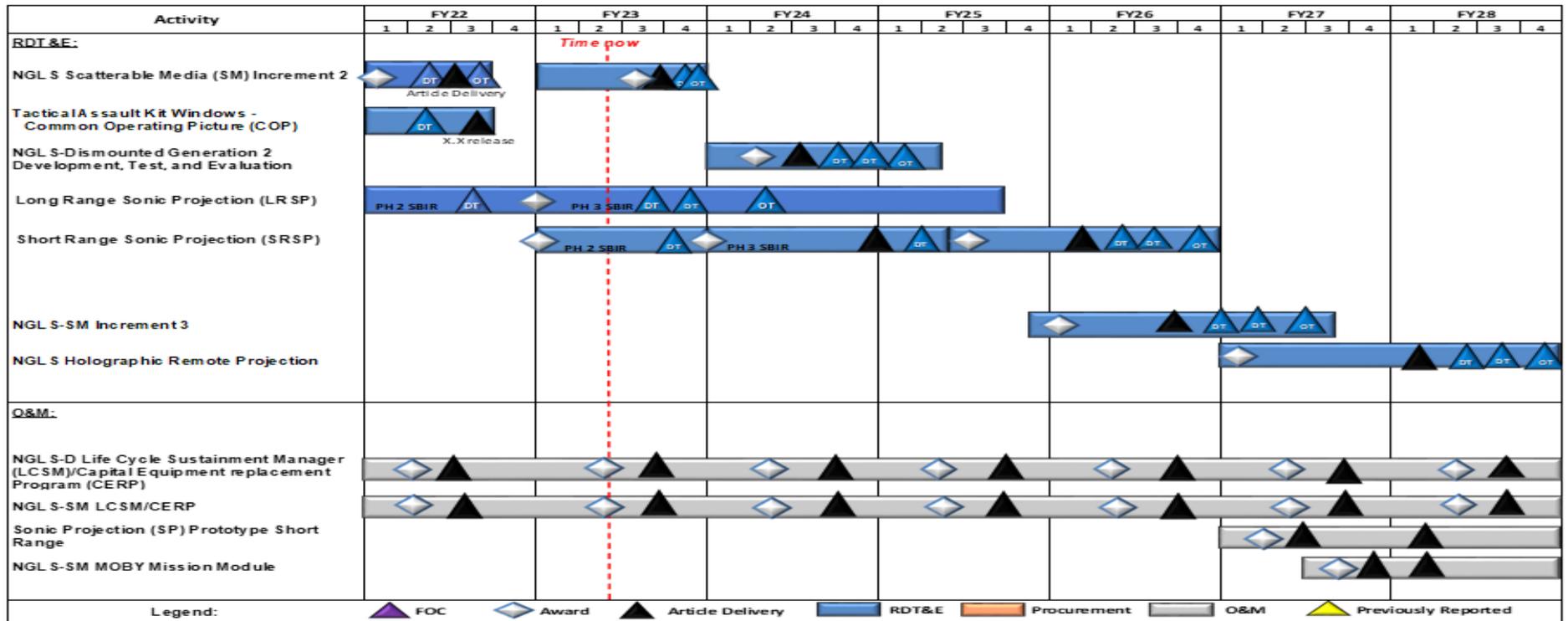
# Fly Away Broadcast System (FABS) Schedule



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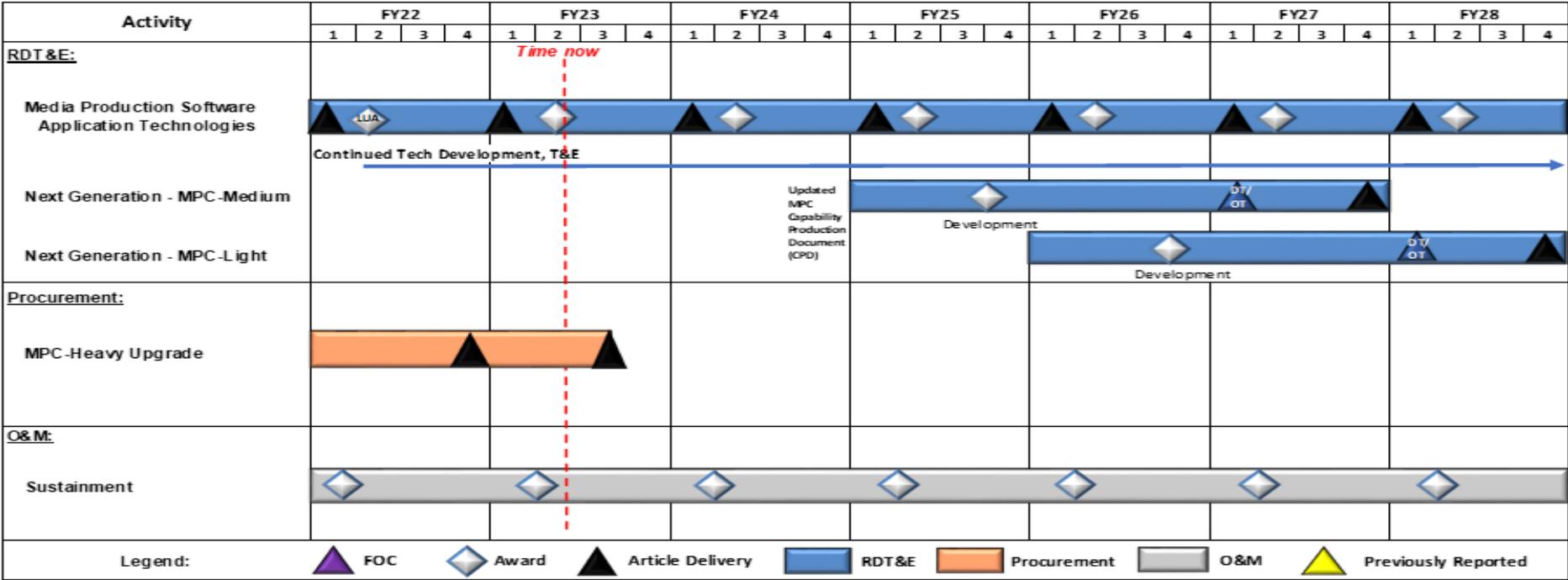
<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 United States Special Operations Command</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> D476 / <i>Military Information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

# Next Generation Loudspeaker System (NGLS) Schedule



<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / Warrior Systems	<b>Project (Number/Name)</b> D476 / Military Information Support Operations
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# Media Production Center (MPC) Schedule



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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Fly Away Broadcast Systems (FABS)</i></b>				
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
<b><i>Next Generation Loudspeakers (NGLS)</i></b>				
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
<b><i>Media Production Center (MPC)</i></b>				
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

<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S375 / <i>Weapons Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Weapons, Program Number 709	1.459	1.518	1.592
<b>Description:</b> The SOF weapons are developed to enable the operator to tailor the configuration of the weapon to the assigned mission and operational environment, enhancing the overall effectiveness of the weapons, which enables mission accomplishment and operator survivability.			
<b>FY 2023 Plans:</b> Perform safety and qualification testing and engineering change proposals of individual sniper, rifle, suppressors, machine gun weapons to support weapon reliability and performance enhancements.			
<b>FY 2024 Plans:</b> Continues to perform safety and qualification testing, engineering change proposals, and support of individual sniper, rifle, suppressor, and machine gun weapons.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.074 million supports developmental testing, Military User Assessments (MUAs), suppressor and Next Generation technologies and transitions development/innovation			
<b>Accomplishments/Planned Programs Subtotals</b>	1.459	1.518	1.592

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

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

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S375 / <i>Weapons Systems</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 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**

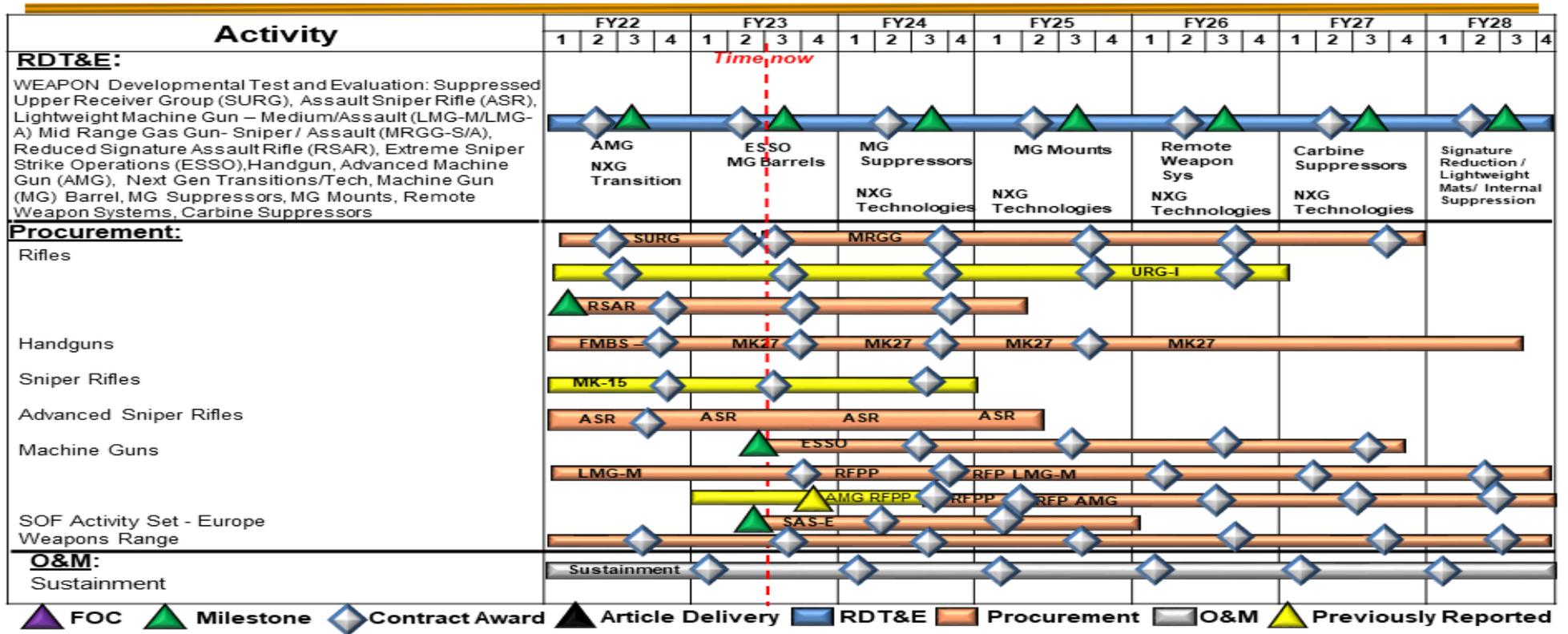
**D. Acquisition Strategy**

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.



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



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

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Weapon Systems</i></b>				
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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Title:</b> SOF Personal Equipment Advanced Requirements (SPEAR), Program Number 807</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> Continue power and data management, wireless headsets, environmental protection and material testing.</p> <p><b>FY 2024 Plans:</b> Continues power and data management, headsets, environmental protection, material testing and evaluations, and load carriage efforts</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> 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><b>Title:</b> Tactical Combat Casualty Care (TCCC), Program Number 809</p> <p><b>Description:</b> The TCCC program provides lifesaving medical devices, ancillary equipment and Casualty Evacuation (CASEVAC) sets for SOF. The CASEVAC procures a suite of Food and Drug Administration (FDA) approved medical items including, but not limited to, intraosseous infusion devices, patient monitoring and assessment devices, emergency airway kits, as well as devices that provide SOF the capability to support extraction, mobility, transportation, and sustainment of casualties in forward areas. The TCCC program fields essential lifesaving CASEVAC equipment and capabilities and is a platform to transition capabilities 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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<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><b>FY 2023 Plans:</b> Continue the test support, market surveys, rapid prototyping, test article acquisition, test and evaluation, and systems engineering in direct support of the CASEVAC program with continued focus on enabling telemedicine. 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><b>FY 2024 Plans:</b> 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, &amp; 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.023 million is due to anticipated increase in material end item and test costs.</p>				
<p><b>Title:</b> Multi-Mission Electronic Countermeasures (MM-ECM), Program Number 806</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> 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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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<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><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> 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><b>Title:</b> Counter Uncrewed Aerial System (CUxS), Program Number 717</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> Continue test and evaluation of sensor and effector capabilities of mounted, dismounted, and expeditionary fixed-site form factors to address emerging threats with a Systems Integration Partner (SIP). Complete initial fielding and deployment release testing of proven capabilities for entry into program of record.</p> <p><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	24.156	4.128	12.897

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
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.			
<b>Title:</b> Personal Signature Management (PSM)	1.676	1.746	1.832
<b>Description:</b> 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.			
<b>FY 2023 Plans:</b> Continue baseline testing against advanced threat sensors, development of threat sensor detector, and initiate development of next generation signature reducing material solution and training.			
<b>FY 2024 Plans:</b> Continues the material development and test and evaluation of next generation signature reducing materials and threat sensor detectors.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.086 million is due to multiple planned field evaluations of threat sensor detector systems in operationally relevant environments.			
<b>Accomplishments/Planned Programs Subtotals</b>	33.240	16.916	27.283

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

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**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 &lt;\$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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(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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S385 / Soldier Protection and Survival Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 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 - Polyflouroalkyl 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

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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CUxS System Integration / Platform Integration	C/Various	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)	Various	Various : Various	2.376	0.700	Dec 2022	0.675	Apr 2023	1.150	May 2024	-		1.150	Continuing	Continuing	-
Prior Years	Various	Various : Various	1.656	-		-		-		-		-	0.000	1.656	-
Prior Years - Overseas Contingency Operations (OCO)	Various	Various : Various	10.820	-		-		-		-		-	0.000	10.820	-
Prior Years Congressional Add	C/Various	Various : Various	1.500	-		-		-		-		-	0.000	1.500	-
<b>Subtotal</b>			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.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SPEAR - PCU Pre-Planned Product Improvement	Various	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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<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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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<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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	-
<b>Subtotal</b>			19.425	4.553		5.521		5.264		-		5.264	Continuing	Continuing	N/A

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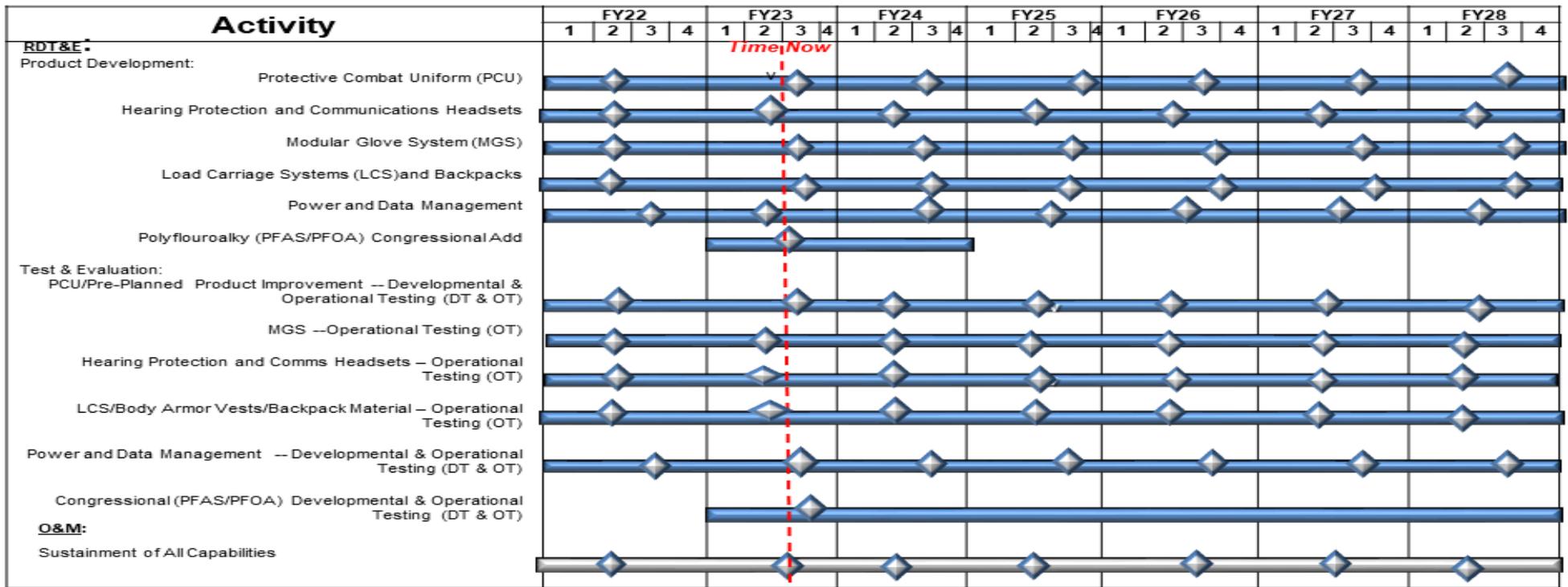
<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2024 United States Special Operations Command								<b>Date:</b> March 2023			
<b>Appropriation/Budget Activity</b> 0400 / 7				<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>			
	<b>Prior Years</b>	<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	55.573	41.594		29.316		27.283	-	27.283	Continuing	Continuing	N/A

**Remarks**

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

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

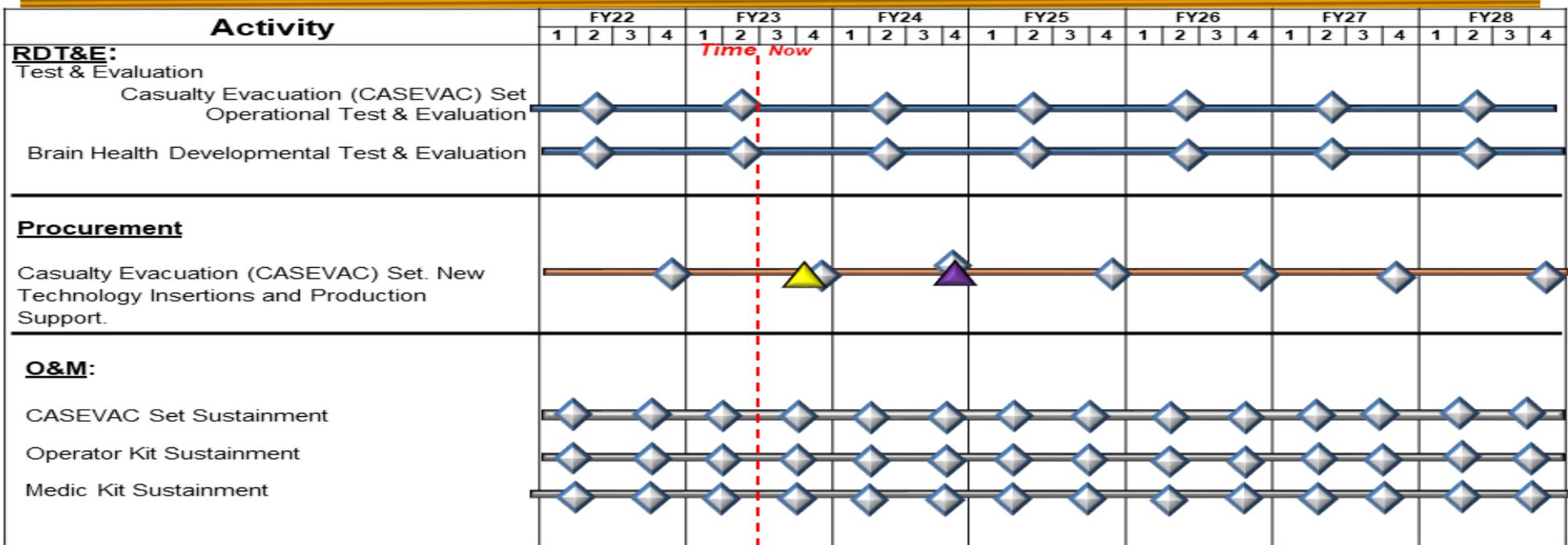


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 ◆ Contract Award   
 ▲ Article Delivery   
 ■ RDT&E   
 ■ Procurement   
 ■ O&M   
 ▲ Previously Reported

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

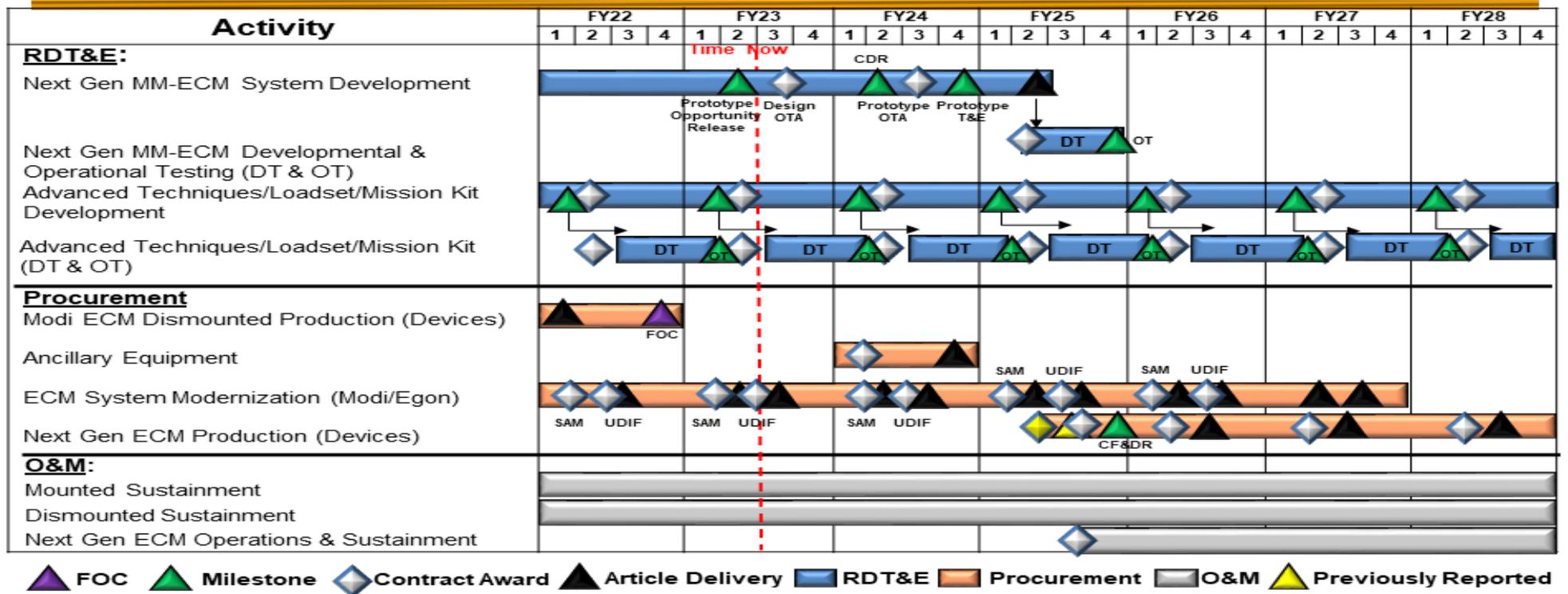
# Tactical Combat Casualty Care (TCCC) Schedule



▲ 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

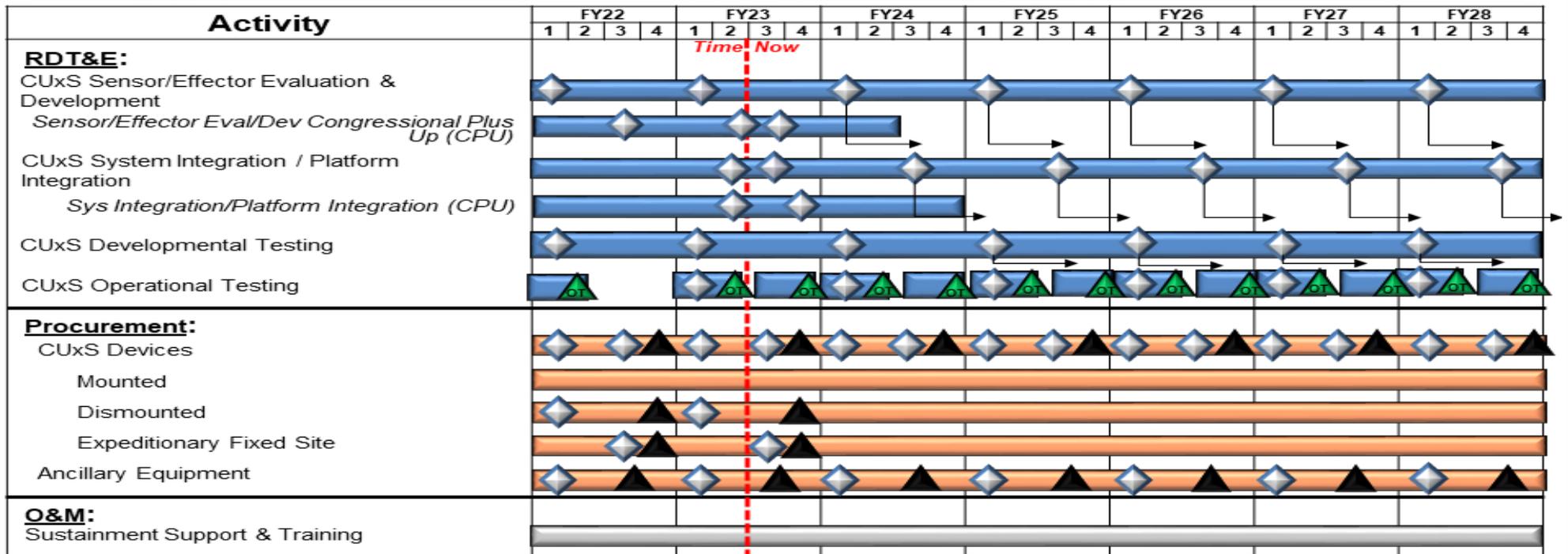
## Multi-Mission Electronic Countermeasures (MM-ECM) Schedule



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

## Counter Unmanned Systems Schedule (CUxS)



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

**UNCLASSIFIED**

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

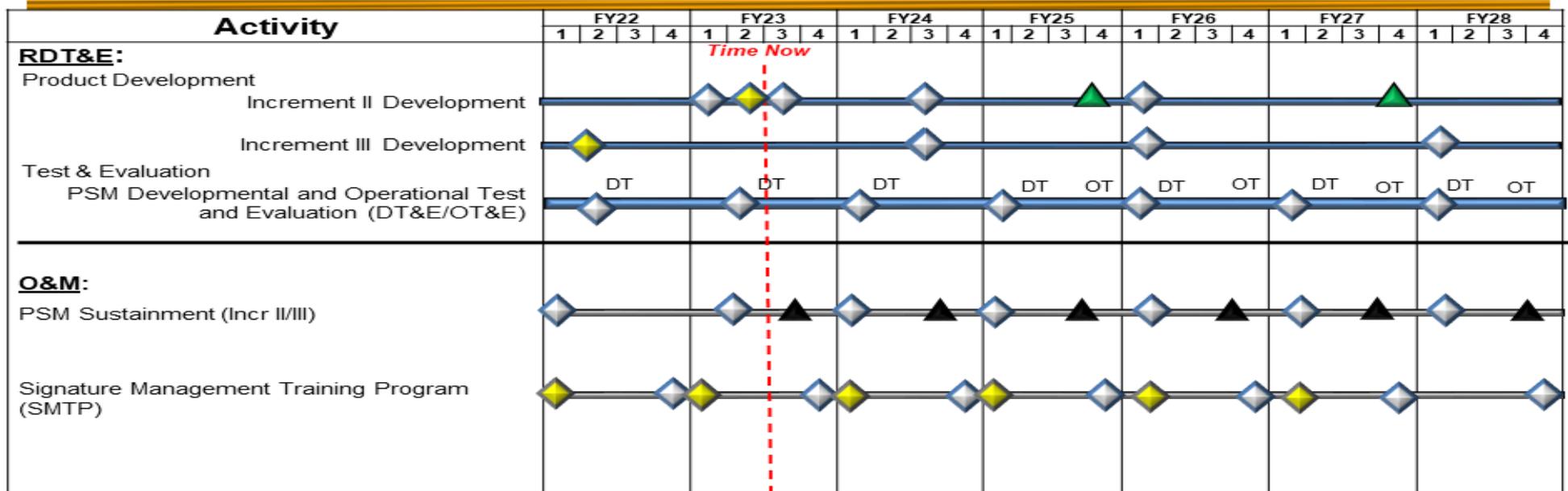
**Date:** March 2023

**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

**UNCLASSIFIED**

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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Soldier Protection and Survival Systems (SPEAR)</i></b>				
Protective Combat Uniform (PCU) Product Development	1	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
Polyfluoroalkyl 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
<b><i>Tactical Combat Casualty Care (TCCC)</i></b>				
Casualty Evacuation (CASEVAC) Sets Operational Test & Evaluation	1	2022	4	2028
Brain Health Developmental Test and Evaluation	1	2022	4	2028
<b><i>Multi-Mission Electronic Countermeasures (MM-ECM)</i></b>				
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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385 / <i>Soldier Protection and Survival Systems</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Counter Unmanned Aerial System (CUxS)</i></b>				
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
<b><i>Personnel Signature Management (PSM)</i></b>				
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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
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)**

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

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

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

<u>Line Item</u>	<u>FY 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 &lt;\$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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>
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<b>Product Development (\$ in Millions)</b>				FY 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	-
<b>Subtotal</b>			6.335	1.006		1.123		1.165		-		1.165	Continuing	Continuing	N/A

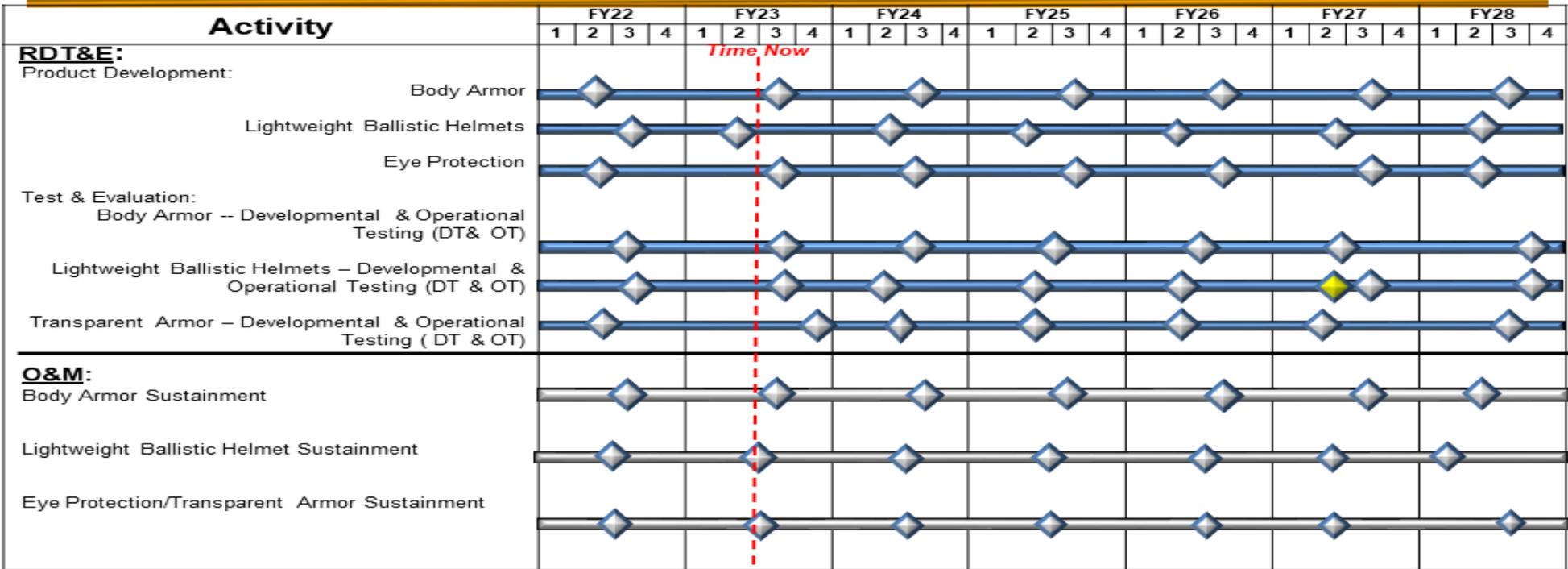
<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S385A / <i>Body Armor and Associated Equipment</i>

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



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

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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>SOF Personal Equipment Advanced Requirement (SPEAR)-Body Armor</i></b>				
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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Visual Augmentation Systems (VAS), Program Number 810	4.862	4.517	4.662
<p><b>Description:</b> Sensor technologies being developed include image intensification thermal imaging, short wave infrared, multi-spectral, fusion, and other sensor types. Developments will decrease weight, increase range, increase situational awareness, provide data, image processing, image filtering, determine wind speed, observe bullet trace, and sensor fusion to be able to detect, identify, classify and engage targets at greater ranges 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><b>FY 2023 Plans:</b> 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><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>			

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

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Increase of \$0.145 million is due to anticipated increases in material end items and testing costs.			
<b>Title:</b> VAS Simulator, Program Number 810	0.002	0.473	0.490
<b>Description:</b> 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.			
<b>FY 2023 Plans:</b> 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.			
<b>FY 2024 Plans:</b> 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.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.017 million is due to anticipated increases in material end items.			
<b>Accomplishments/Planned Programs Subtotals</b>	4.864	4.990	5.152

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<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&lt;\$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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>

**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.

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2024 United States Special Operations Command</b>												<b>Date: March 2023</b>		
<b>Appropriation/Budget Activity</b> 0400 / 7						<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S395 / <i>Visual Augmentation, Lasers and Sensor Systems</i>				

<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
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	-
<b>Subtotal</b>			17.509	4.664		4.820		4.552		-		4.552	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
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	-

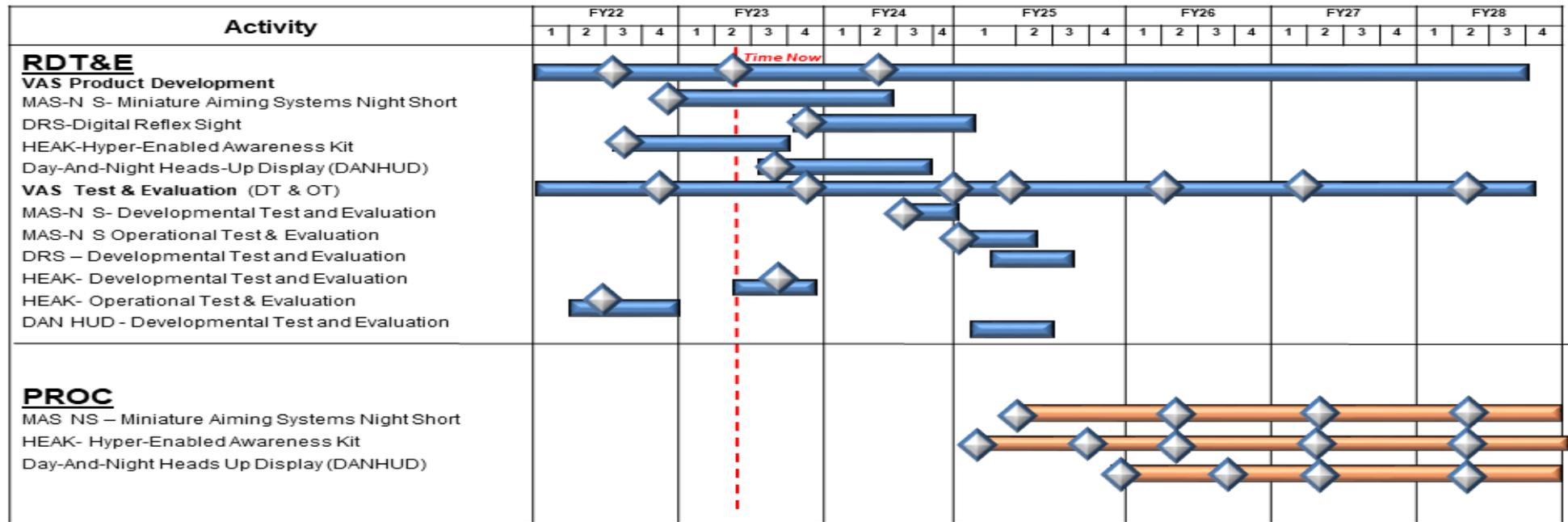


Appropriation/Budget Activity  
0400 / 7

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

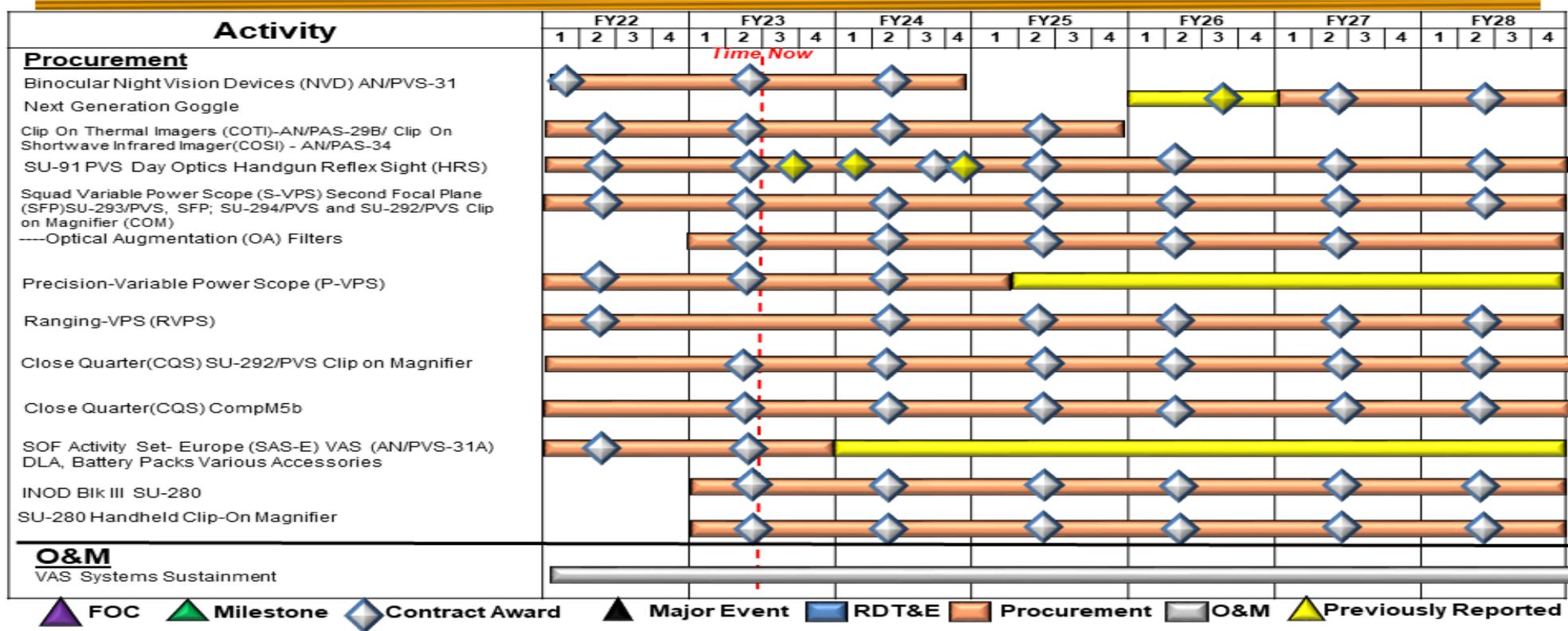
Date: March 2023

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.)



**UNCLASSIFIED**

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

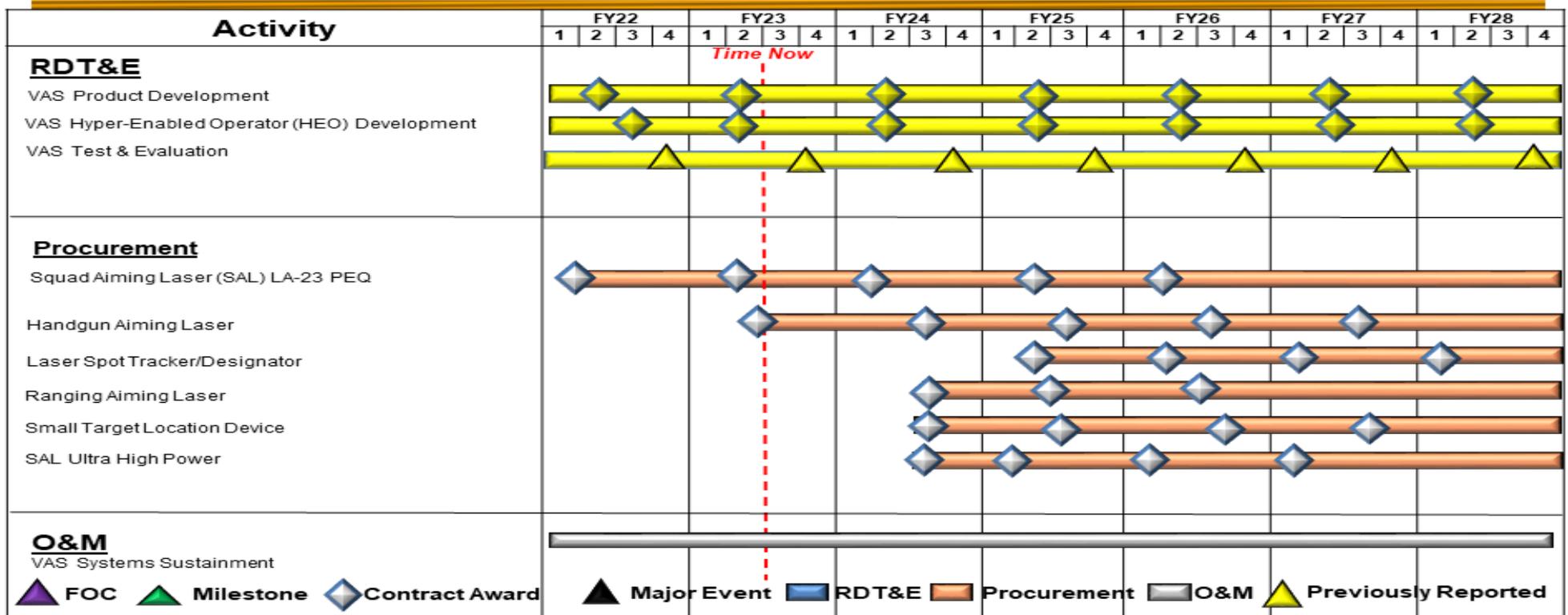
**Date:** March 2023

**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*

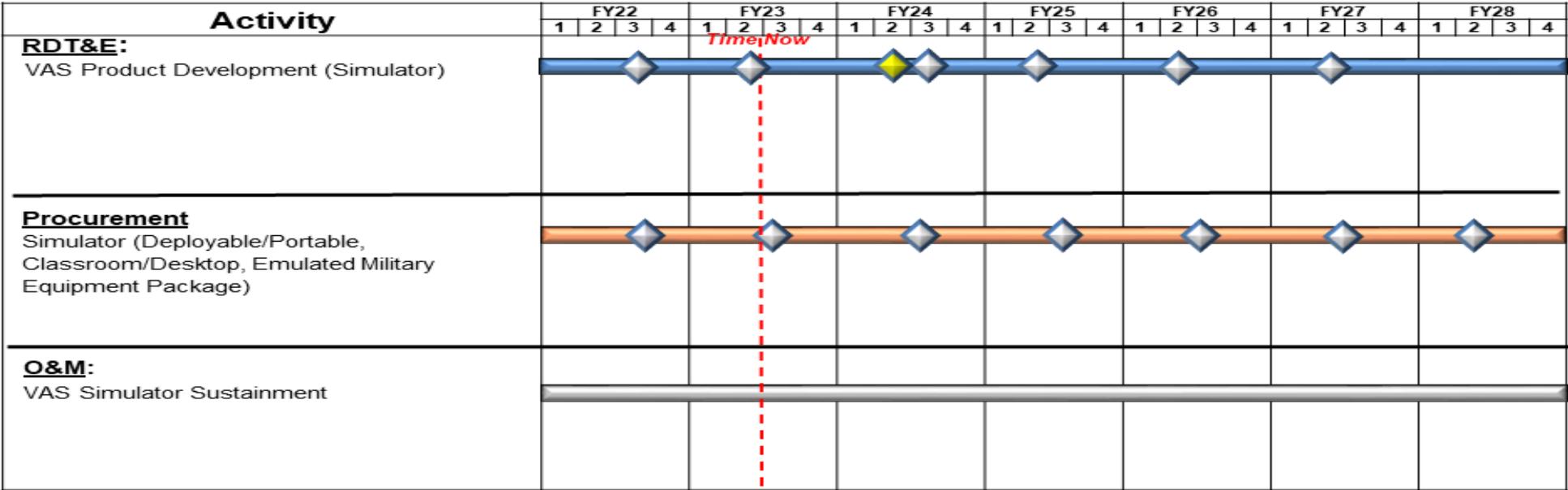
# Visual Augmentation Systems (VAS) Laser Schedule



**UNCLASSIFIED**

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

# Visual Augmentation Systems (VAS) Simulator Schedule



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

**UNCLASSIFIED**

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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Visual Augmentation Systems (VAS)</i></b>				
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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>				<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Satellite Deployable Node (SDN), Program Number 757	2.700	3.825	3.878
<b>Description:</b> The SDN is a family of deployable, super high frequency, multi-band, satellite communications (SATCOM) systems providing the transport path for high-capacity, voice, data, video teleconferencing (VTC), and full motion video (FMV) at all levels of classification. It consists of SDN subprograms, transport for intelligence variants, technology insertions and Capital Equipment replacement. The SDN program's capabilities enable communications across multiple domains and theaters, supporting the major goals of the National Defense Strategy.			
<b>FY 2023 Plans:</b> Continue assessments, tests, and evaluations for wide-band Communication on the Move (COTM) maritime, ground mobile, and airborne technologies. Continue assessments in Size, Weight, and Power (SWAP) reduction across all SDN systems. Continue evaluation of High Through put Satellite (HTS) constellations and terminals. Continue evaluation of resilience of systems in a degraded communications environment.			
<b>FY 2024 Plans:</b> Continues assessments, tests, and evaluations for wide-band COTM maritime, ground mobile, and airborne technologies. Continues assessments in SWAP reduction across all SDN systems. Continues evaluation of HTS constellations and terminals. Continues evaluation of resilience of systems in a degraded communications environment.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Increase of \$0.053 million supports additional test article development for degraded communications assessments.				
<p><b>Title:</b> Mission Command System/Common Operational Picture (MCS/COP), Program Number 841</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> 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><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> 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><b>Title:</b> Classified Programs</p> <p><b>Description:</b> Classified Programs (details provided under separate cover).</p> <p><b>FY 2023 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2024 Plans:</b> Details provided under separate cover.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>		10.771	12.350	45.389

**UNCLASSIFIED**

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

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

**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 &lt;\$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 &lt;\$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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S700 / <i>Communications Equipment and Electronics Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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	-
<b>Subtotal</b>			64.512	14.918		44.259		87.002		-		87.002	Continuing	Continuing	N/A

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S700 / Communications Equipment and Electronics Systems</i>
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<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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	-
<b>Subtotal</b>			24.842	2.985		4.355		5.600		-		5.600	Continuing	Continuing	N/A

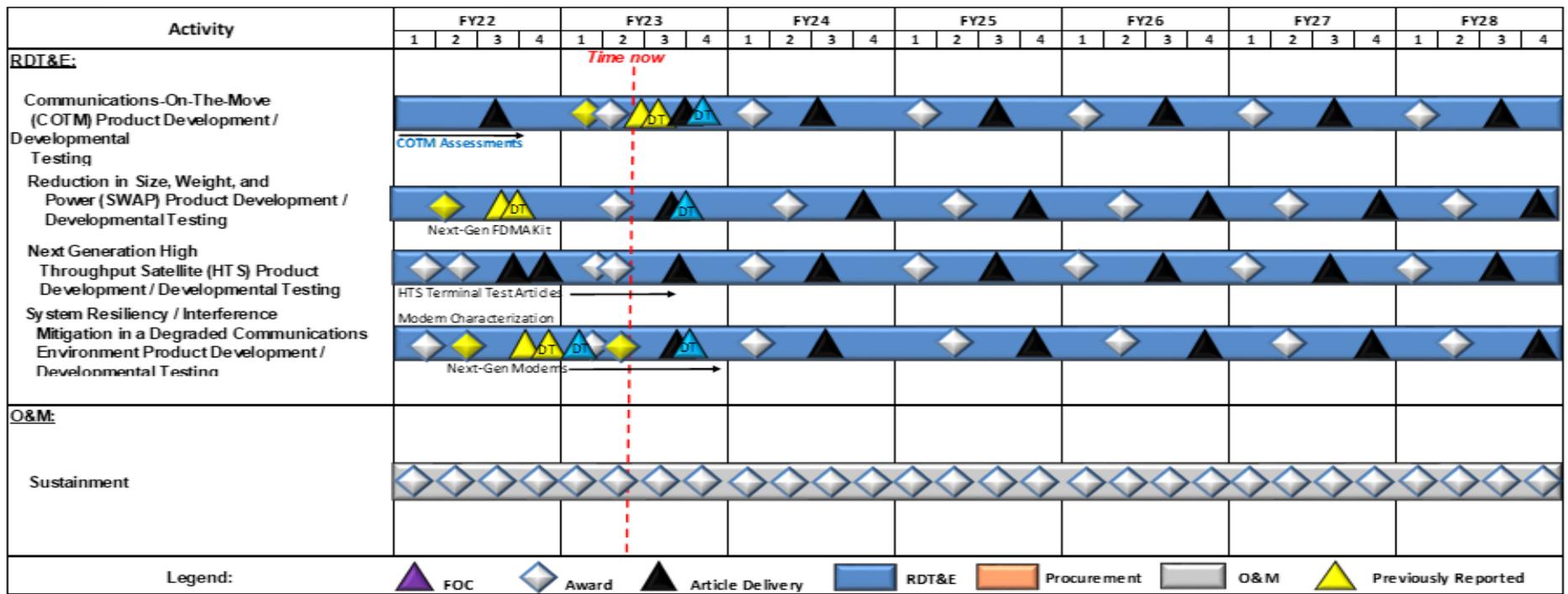
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		89.354	17.903	48.614	92.602	-	Continuing	Continuing	N/A

**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

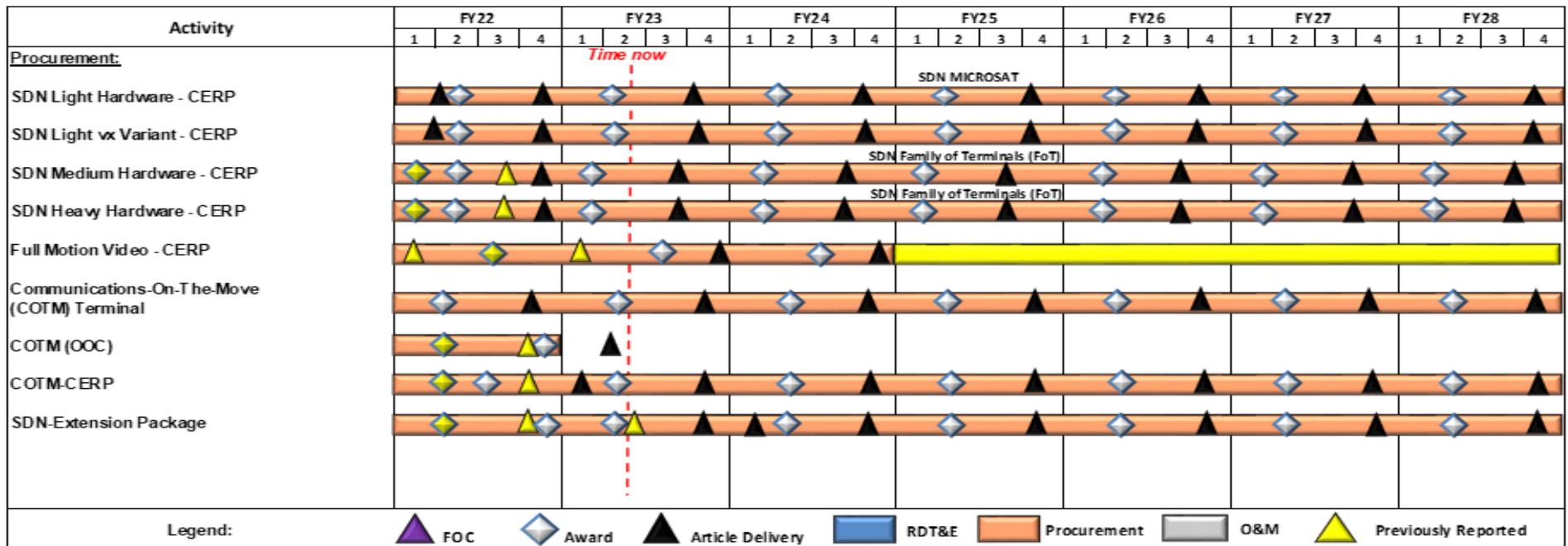
**Date:** March 2023

**Appropriation/Budget Activity**  
0400 / 7

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

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

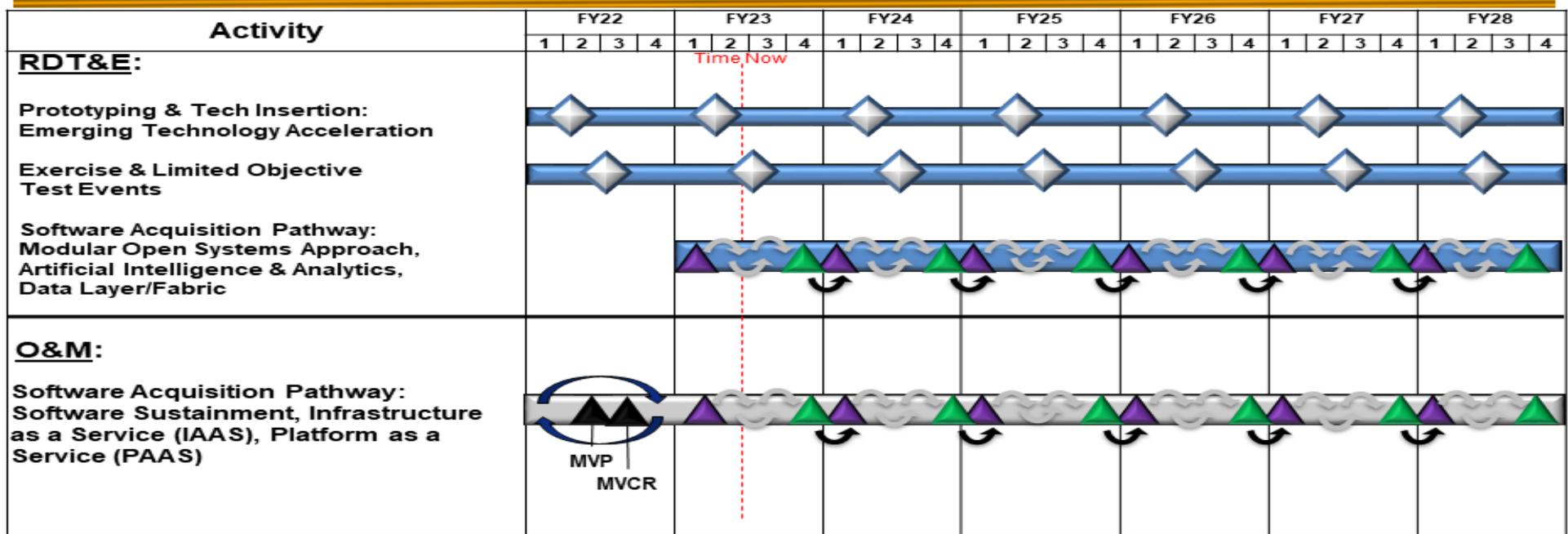
# SDN Schedule cont.



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

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



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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Satellite Deployable Node (SDN)</i></b>				
Communication-on-the-Move (COTM) Assessment & Testing	1	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
<b><i>Mission Command System/Common Operational (MCS/COP)</i></b>				
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

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>
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COST (\$ in Millions)	Prior Years	FY 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
<b>Title:</b> Tactical Local Area Network (TACLAN), Program Number 745	2.616	2.481	3.599
<b>Description:</b> 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.			
<b>FY 2023 Plans:</b> 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.			
<b>FY 2024 Plans:</b> Continues integration and testing of TACLAN FCD ETIs. Continues the development of GPU computing capabilities for integration and assessment of the TACLAN Suites.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>			

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>		<b>FY 2024</b>
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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.

**Title:** Special Operations Mission Planning and Execution (SOMPE), Program Number 838

**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.

<b>Title:</b> 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:**

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Details provided under separate cover.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$19.360 million will be provided under separate cover.			
<b>Accomplishments/Planned Programs Subtotals</b>	5.762	13.740	58.821

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

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

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

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S710 / <i>Tactical Systems Development</i>
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<b>Product Development (\$ in Millions)</b>				FY 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	-
<b>Subtotal</b>			11.034	13.470		30.508		56.071		-		56.071	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost 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

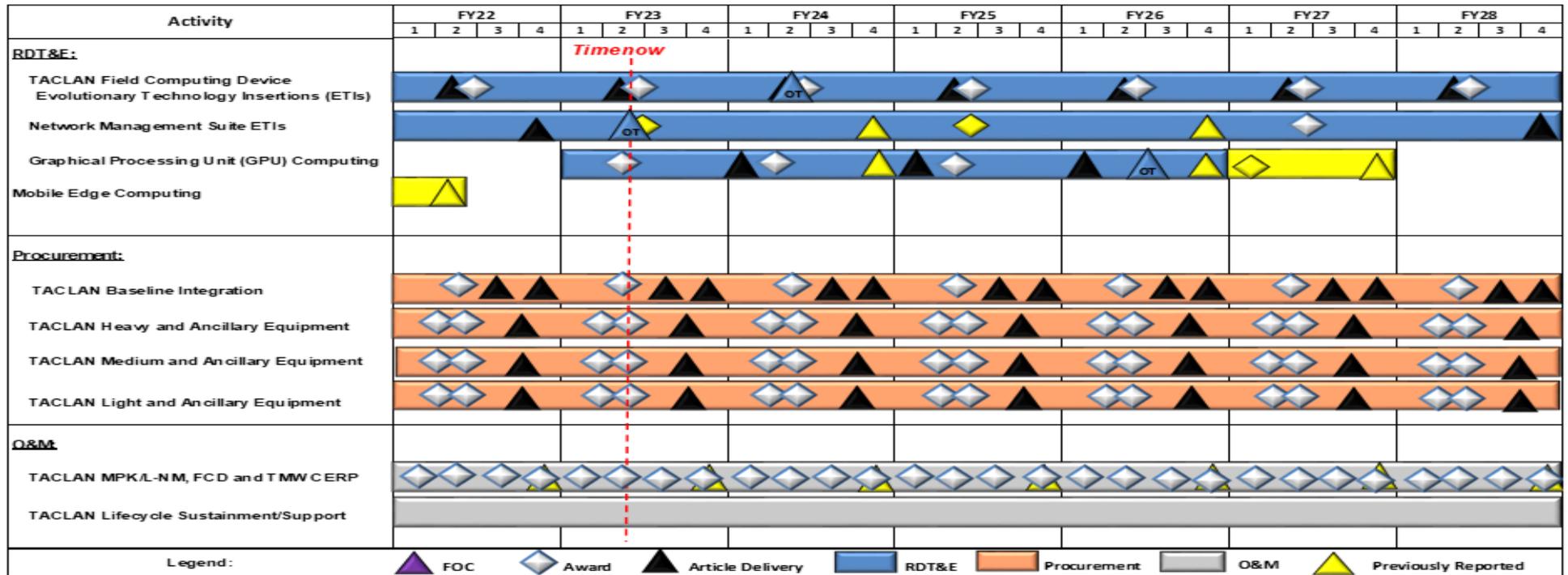
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

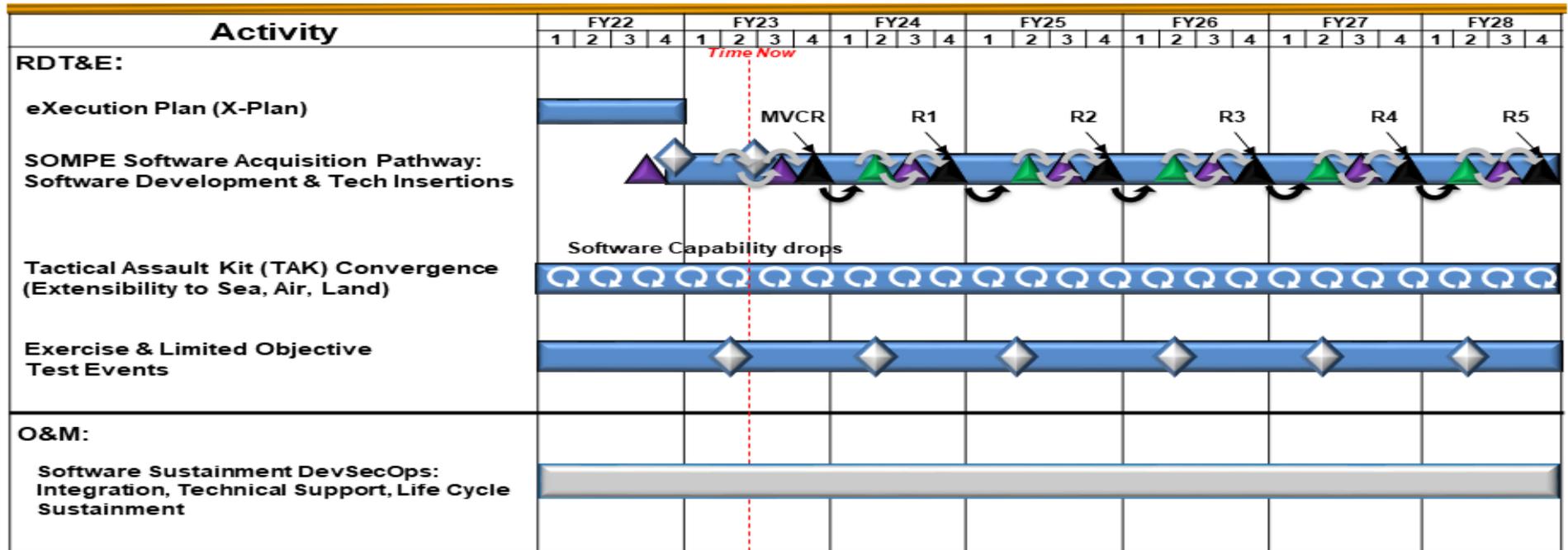
R-1 Program Element (Number/Name)  
PE 1160431BB / Warrior Systems

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

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Tactical Local Area Network (TACLAN) Suites</i></b>				
TACLAN Field Computing Device (FCD) Evolutionary Technology Insertions (ETIs)	1	2022	4	2028
Network Management Suite ETIs	1	2022	4	2028
Graphical Processing Unit Computing	1	2023	4	2026
<b><i>Special Operations Mission Planning and Execution (SOMPE)</i></b>				
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 / Warrior Systems				Project (Number/Name) S725 / Tactical Radio Systems			
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
S725: Tactical Radio Systems	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
<b>Title:</b> Next Generation Tactical Communications (NGTC), Program Number 798	4.646	7.827	14.318
<p><b>Description:</b> 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><b>FY 2023 Plans:</b> 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><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>			

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S725 / Tactical Radio Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
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><b>Title:</b> Blue Force Tracking (BFT), Program Number 742</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> Continue development and testing of specialized BFT and initiates personnel recovery capabilities.</p> <p><b>FY 2024 Plans:</b> Continues development and testing of the Next Generation BFT device and continues development of personnel recovery capabilities.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> 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><b>Title:</b> Remote Advise and Assist /Virtual Accompany Kit (RAA/VAK), Program Number 697</p> <p><b>Description:</b> The RAA/VAK provides operational forces a suite of tools for mission planning and execution, command and control of partnered forces, and access to real-time information for situational awareness and de-confliction. 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><b>FY 2023 Plans:</b> 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><b>FY 2024 Plans:</b> Develops advanced tracking system capable of transmitting location and discrete messages to SOF and Partner Forces.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S725 / Tactical Radio Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
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.			
<b>Accomplishments/Planned Programs Subtotals</b>	5.849	10.049	17.789

	<b>FY 2022</b>	<b>FY 2023</b>
<b>Congressional Add:</b> NGTC - Software-Defined Radio Waveforms	9.635	-
<b>FY 2022 Accomplishments:</b> Began initial development of the Mobile User Objective System (MUOS).		
<b>Congressional Adds Subtotals</b>	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&lt;\$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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S725 / <i>Tactical Radio Systems</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
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	-
<b>Subtotal</b>			44.362	15.409		9.786		17.464		-		17.464	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
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	-
<b>Subtotal</b>			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

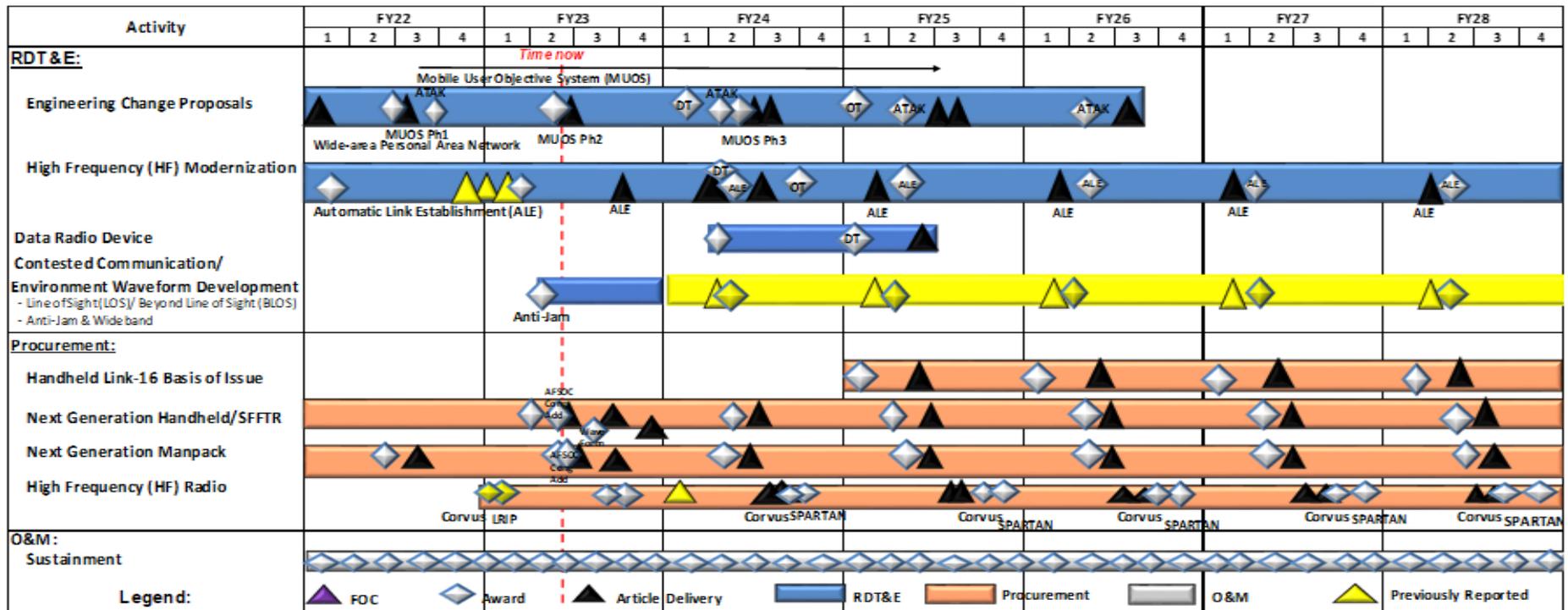
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

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

Project (Number/Name)  
S725 / Tactical Radio Systems

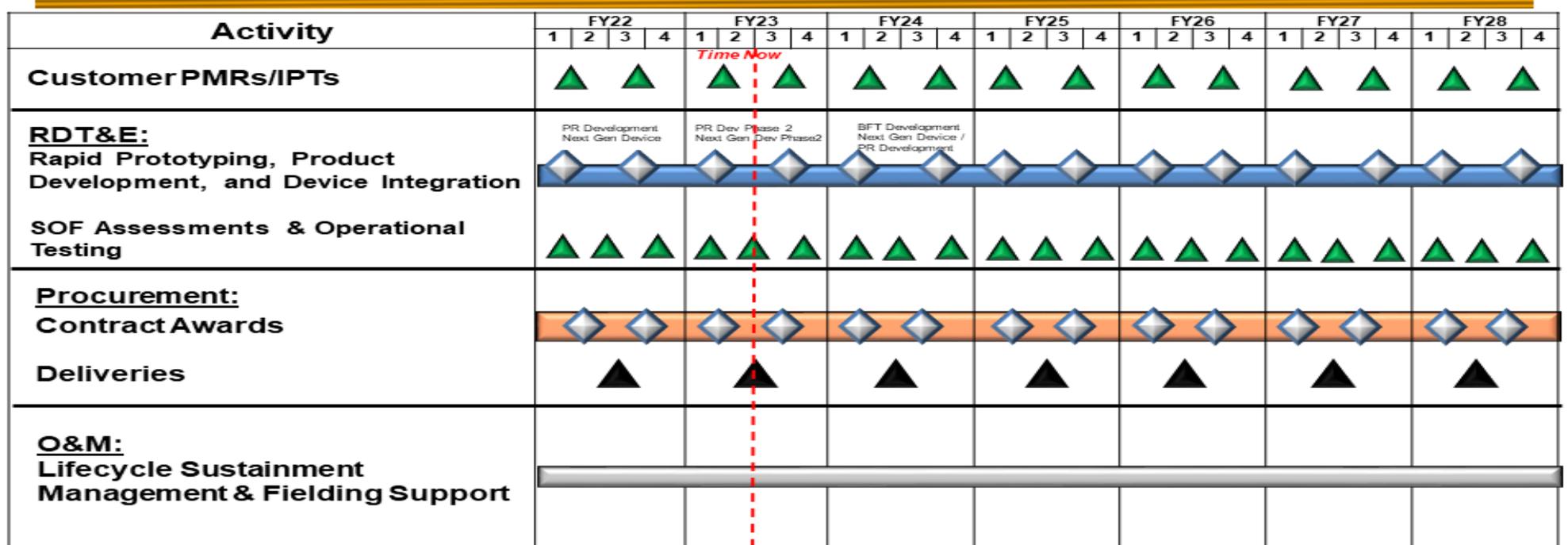
# Next Generation Tactical Communicaitons (NGTC) Schedule



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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

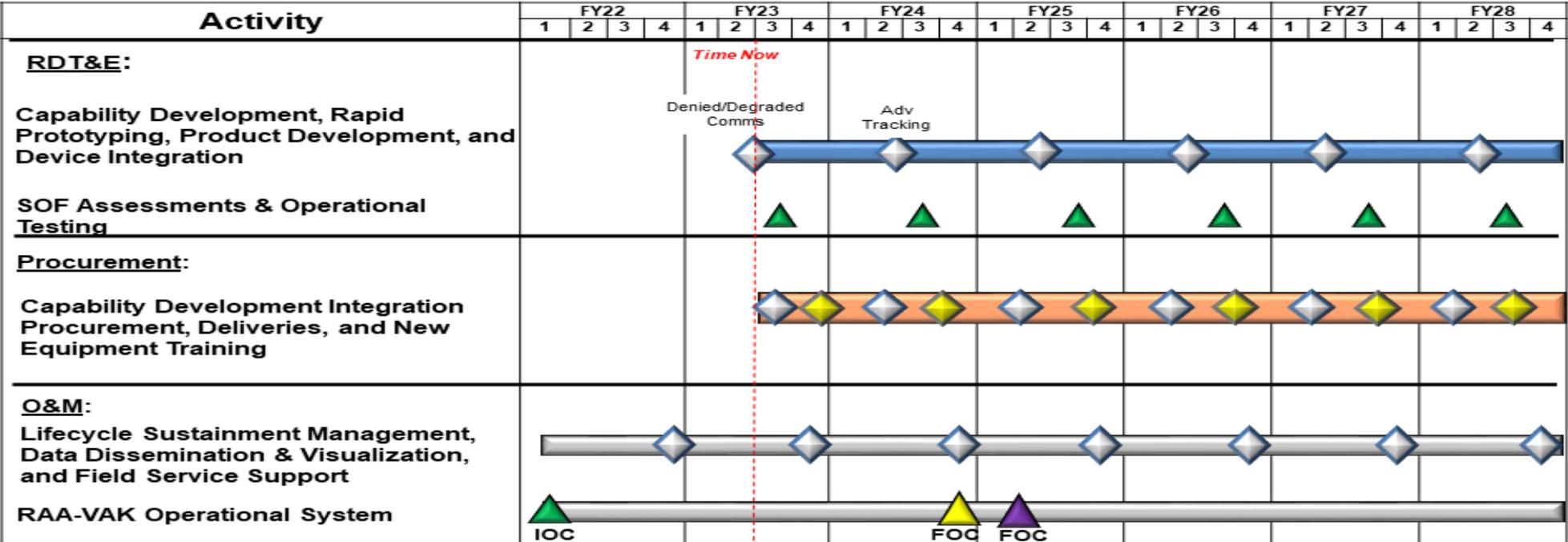
## Blue Force Tracking (BFT)



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> <i>S725 / Tactical Radio Systems</i>

## RAA-VAK Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S725 / <i>Tactical Radio Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Next Generation Tactical Communications (NGTC)</i></b>				
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
<b><i>Blue Force Tracking (BFT)</i></b>				
Rapid Prototyping, Product Development, and Device Integration	1	2022	4	2028
SOF Assessments & Operational Testing	1	2022	4	2028
<b><i>Remote Advise Assist Virtual Accompany Kit (RAA/VAK)</i></b>				
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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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COST (\$ in Millions)	Prior Years	FY 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><b>Title:</b> Stand-Off Precision Guided Munitions (SOPGM), Program Number 796</p> <p><b>Description:</b> SOPGM provides for the integration and testing of service-common and recently developed precision guided munitions on SOF-unique platforms.</p> <p><b>FY 2023 Plans:</b> Continue the engineering, integration, and testing of various technologies (munitions and warheads) within the precision guided munitions portfolio.</p> <p><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> 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><b>Title:</b> Munitions Advanced Development, Program Number 710</p> <p><b>Description:</b> The Munitions Advanced Development program provides for Insensitive Munitions (IM) technology development and evaluations that allow SOF munitions to pass testing which includes bullet impact, sympathetic detonation, fast cook off, slow cook off and shaped charge test. Testing is in accordance with the 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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b><i>FY 2023 Plans:</i></b> 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><b><i>FY 2024 Plans:</i></b> 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><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> Increase of \$0.026 million is due to anticipated cost increases for materials and testing.</p>			
<p><b><i>Title:</i></b> Maritime Scalable Effects (MSE), Program Number 710</p> <p><b><i>Description:</i></b> 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><b><i>FY 2023 Plans:</i></b> 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><b><i>FY 2024 Plans:</i></b> 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><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b></p>	1.211	1.812	5.993

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

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Increase of \$4.181 million supports successful transition of Project 901 to MSE.			
<p><b>Title:</b> Ground Organic Precision Strike System (GOPSS), Program Number 710</p> <p><b>Description:</b> 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><b>FY 2023 Plans:</b> 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><b>FY 2024 Plans:</b> 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><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> 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><b>Title:</b> Maritime Precision Engagement Munition (MPE-M), Program Number 710</p> <p><b>Description:</b> Guided Rocket or propeller systems provides for the engineering, integration and testing of service-common and recently developed precision guided munitions on SOF-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><b>FY 2023 Plans:</b> Complete the developmental test portion of the program's lifecycle by funding the following engineering services; test asset airframes; test asset launder 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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
with revised capability and programmatic documents. Empower developmental tests to prepare for critical design review and operational assessment.			
<p><b><i>FY 2024 Plans:</i></b>                      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><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b>                      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>			
<b>Accomplishments/Planned Programs Subtotals</b>	20.624	18.191	54.862

	<b>FY 2022</b>	<b>FY 2023</b>
<b><i>Congressional Add:</i></b> GOPSS	-	9.930
<b><i>FY 2023 Plans:</i></b> Develop Aerial Loitering Munition (ALM) prototypes for advanced to limited production Other Transaction Authorities (OTAs) for Military User Assessments (MUA).		
<b><i>Congressional Add:</i></b> MSE Acceleration	4.057	2.397
<b><i>FY 2022 Accomplishments:</i></b> Developed and tested two additional Part B variants intended to exploit known vulnerabilities of adversaries and accelerated the transition of Project 811.		
<b><i>FY 2023 Plans:</i></b> Develop a critical design review to accelerate the testing and evaluation of Project 901.		
<b><i>Congressional Add:</i></b> MPE-M	-	3.600
<b><i>FY 2023 Plans:</i></b> 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.		
<b>Congressional Adds Subtotals</b>	4.057	15.927

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

**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 &lt;\$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

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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<b>Product Development (\$ in Millions)</b>				FY 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/Various	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/Various	Various : Various	1.932	1.613	Nov 2021	-		0.925	Jan 2024	-		0.925	Continuing	Continuing	-
MPE-M Integration Development	C/Various	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/Various	Various : Various	-	-		1.000	Jan 2023	-		-		-	0.000	1.000	-
MPE-M Payload Development Congressional Add	C/Various	Various : Various	-	-		0.900	Jan 2023	-		-		-	0.000	0.900	-
MPE-M Integration Development Congressional Add	C/Various	Various : Various	-	-		0.500	Jan 2023	-		-		-	0.000	0.500	-
Prior Year Funding - Base	C/Various	Various : Various	59.570	-		-		-		-		-	0.000	59.570	-
Prior Year Funding - Overseas Contingency Operations (OCO)	C/Various	Various : Various	0.002	-		-		-		-		-	0.000	0.002	-
Prior Year Funding - Congressional Plus Up	C/Various	Various : Various	23.957	-		-		-		-		-	0.000	23.957	-
<b>Subtotal</b>			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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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<b>Support (\$ in Millions)</b>				FY 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	-
<b>Subtotal</b>			8.969	0.199		0.602		0.783		-		0.783	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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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	-
<b>Subtotal</b>			18.819	4.655		6.544		17.726		-		17.726	Continuing	Continuing	N/A

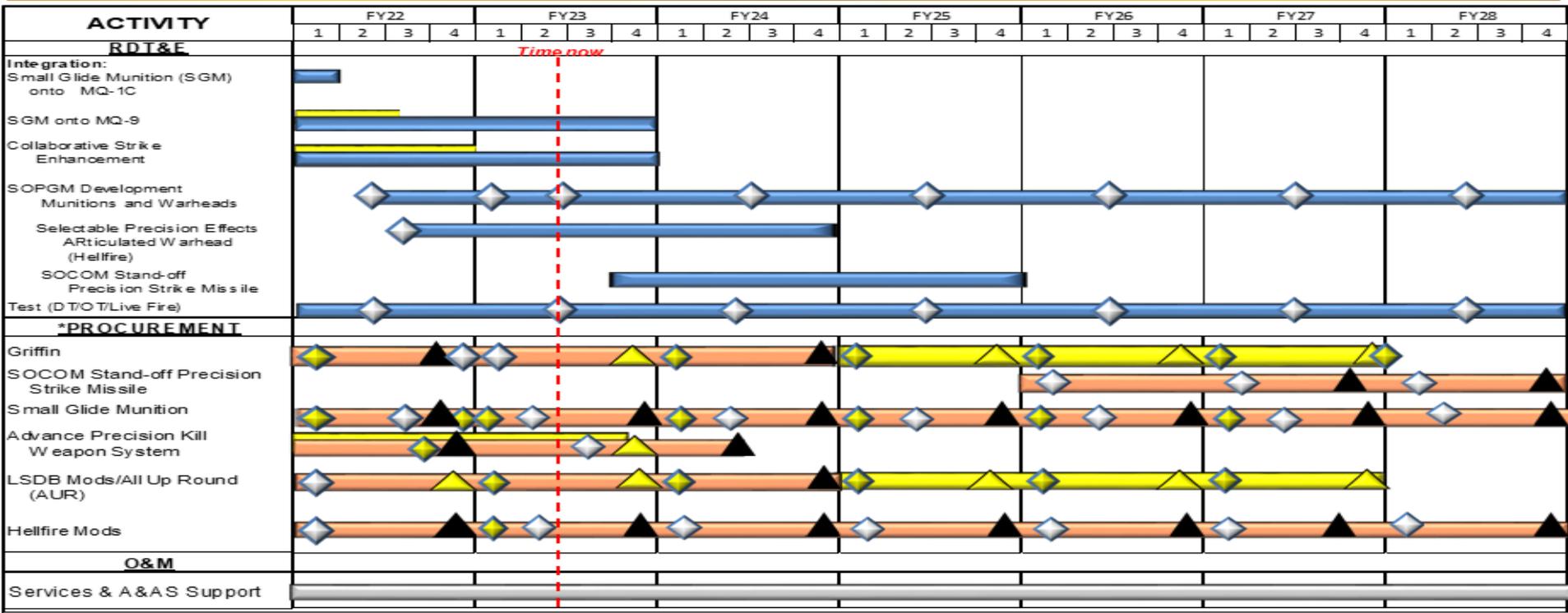
**Remarks**  
Footnotes (3) and (4): Increase funds (\$4.000 million) will support the developmental and operational tests for the new developed and modernized capabilities.

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

**Remarks**

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

# Stand-Off Precision Guided Munitions (SOPGM) Schedule



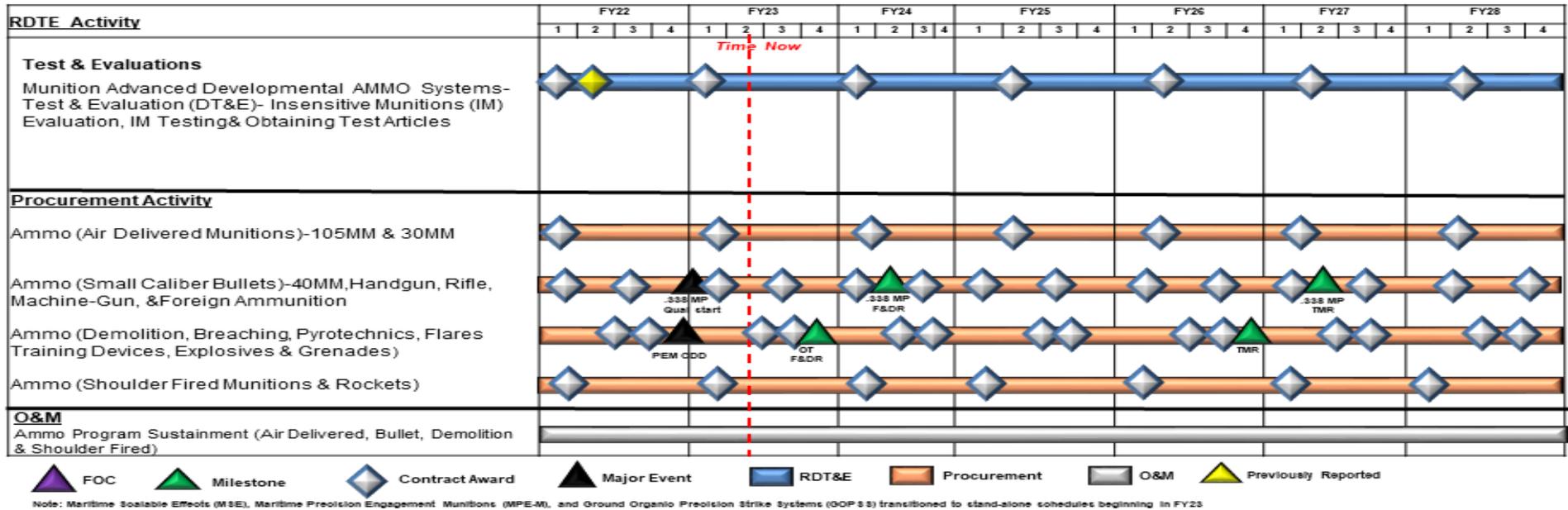
\*Articles delivered monthly    ▲ Milestone    ◆ Contract Award    ▲ Article Delivery    [Blue] RDT&E    [Orange] Procurement    [Grey] O&M    ▲ Previously Reported

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) Munitions Advanced Development Schedule

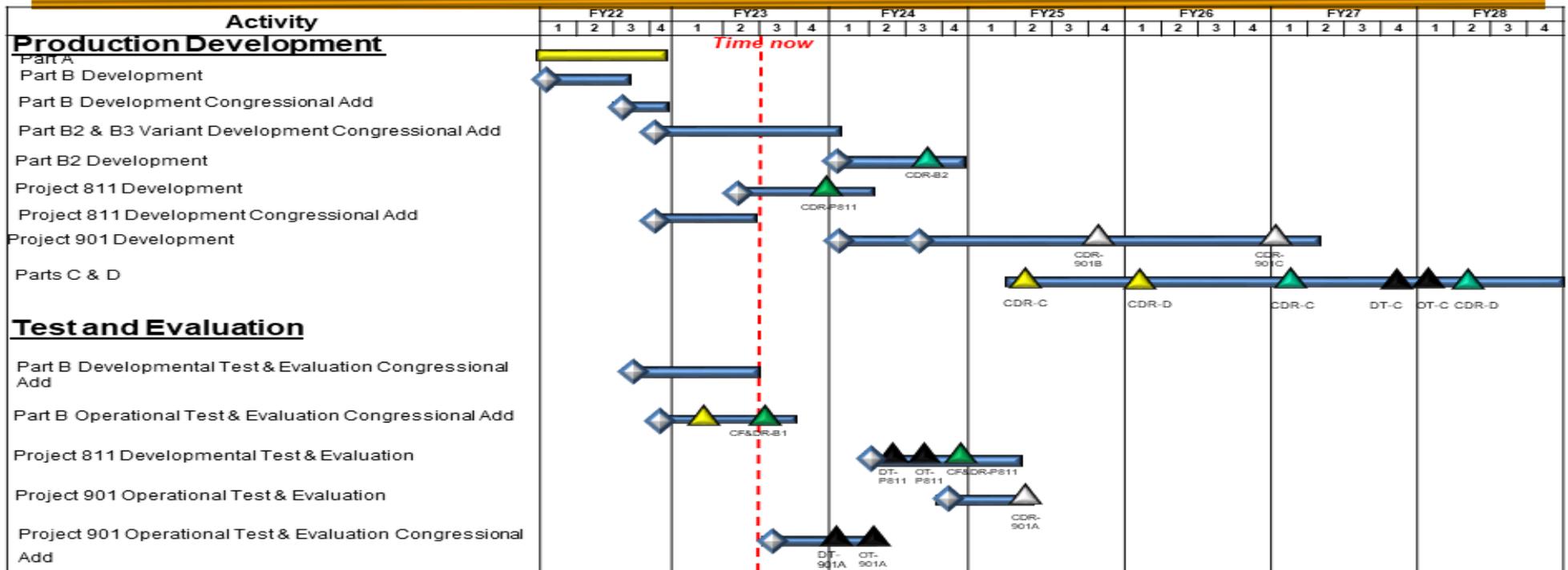


Appropriation/Budget Activity  
0400 / 7

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

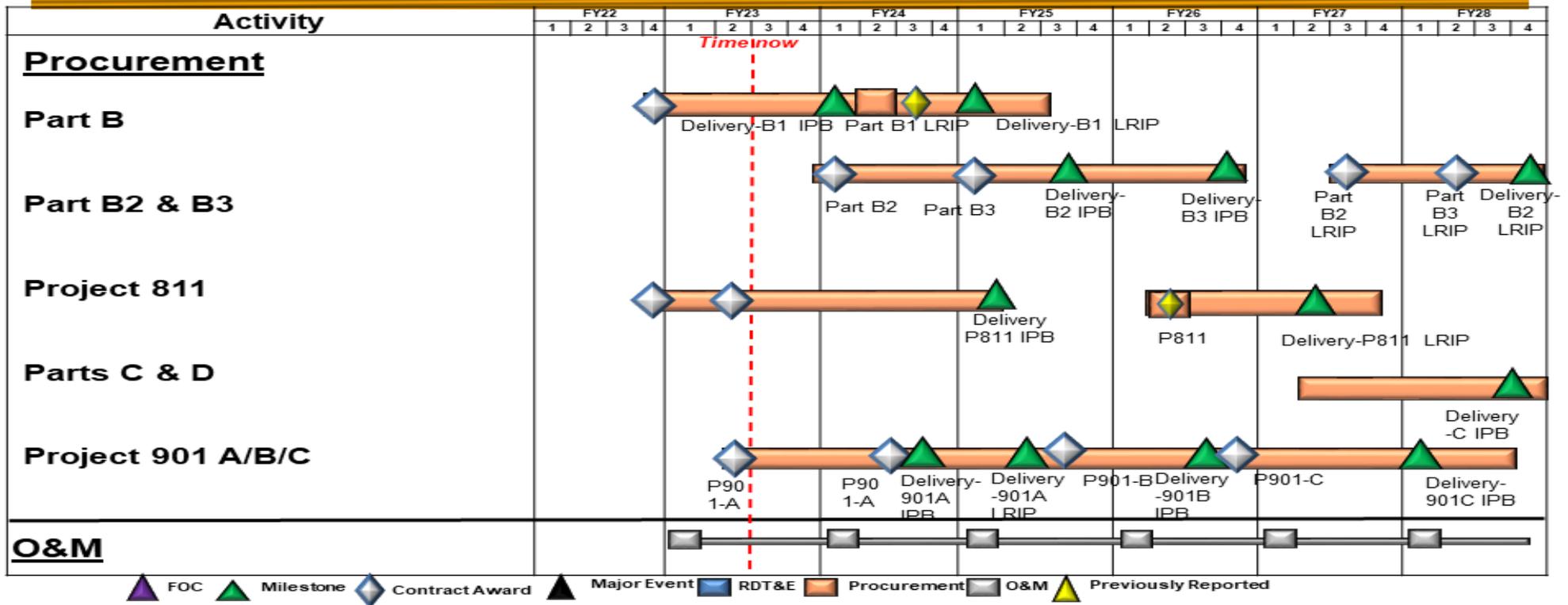
Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned from the Munitions schedule to stand-alone schedules beginning in FY23

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



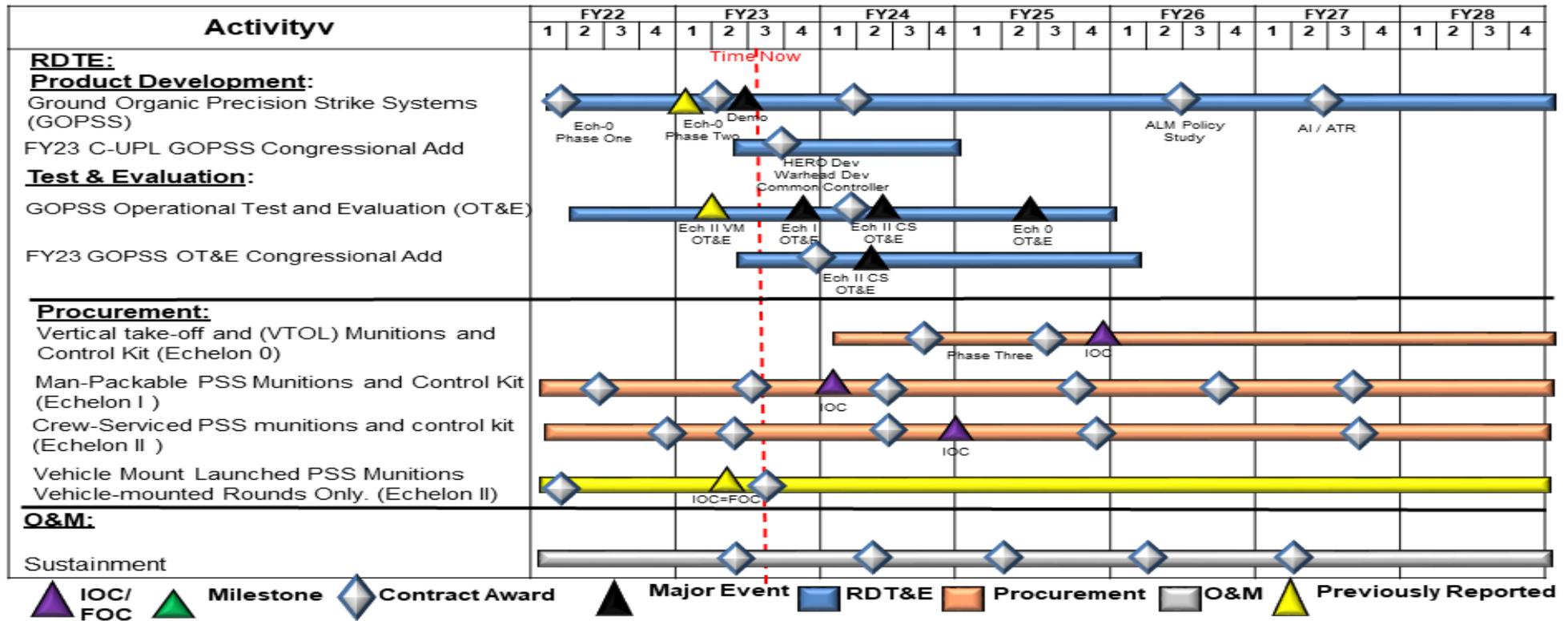
Note: Maritime Scalable Effects (MSE), Maritime Precision Engagement Munitions (MPE-M), and Ground Organic Precision Strike Systems (GOPSS) transitioned from the Munitions schedule to stand-alone schedules beginning in FY23

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)

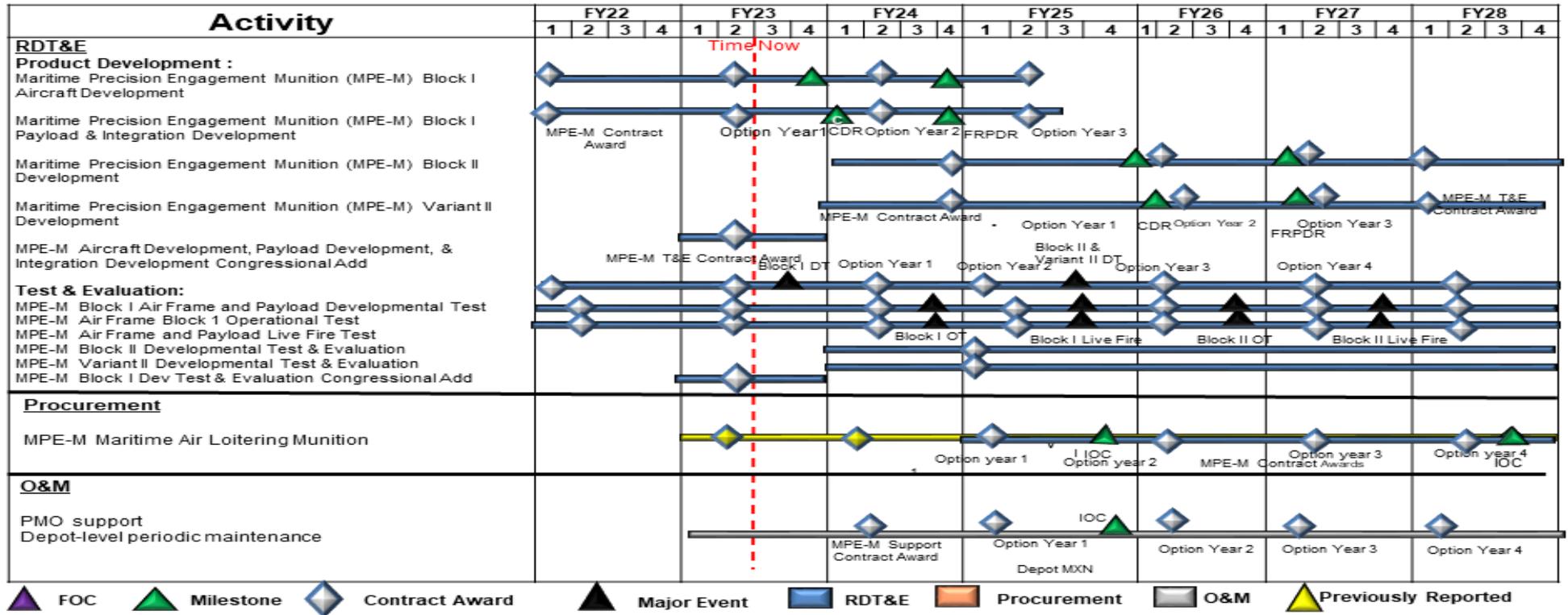


Appropriation/Budget Activity  
0400 / 7

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

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Stand-off Precision Guided Munitions (SOPGM)</i></b>				
Small Glide Munitions (SGM) onto MQ-1C Integration	1	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
<b><i>Munitions Advanced Development</i></b>				
Munitions Advanced Developmental Test and Evaluation	1	2022	4	2028
<b><i>Maritime Scalable Effects (MSE)</i></b>				
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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160431BB / <i>Warrior Systems</i>	<b>Project (Number/Name)</b> S800 / <i>Munitions Advanced Development</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Ground Organic Precision Strike Systems (GOPSS)</i></b>				
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
<b><i>Maritime Precision Engagement Munition (MPE-M)</i></b>				
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

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160432BB / <i>Special Programs</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	59.999	10.103	0.518	0.529	-	0.529	0.539	0.550	0.561	0.572	Continuing	Continuing
S500E: <i>Special Programs</i>	59.999	10.103	0.518	0.529	-	0.529	0.539	0.550	0.561	0.572	Continuing	Continuing

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

This project is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	10.486	0.518	0.529	-	0.529
Current President's Budget	10.103	0.518	0.529	-	0.529
Total Adjustments	-0.383	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.383	-			

**Change Summary Explanation**

Funding:

FY 2022: Decrease of \$0.383 million is due to a reprogramming of funds to the Congressionally mandated Small Business Innovative Research/Small Business Technology Transfer (SBIR/STTR) programs.

FY 2023: None.

FY 2024: None.

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</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
Total Program Element	159.404	34.006	3.354	6.727	-	6.727	6.578	6.161	6.284	6.410	Continuing	Continuing
S855: <i>Unmanned ISR</i>	159.404	34.006	3.354	6.727	-	6.727	6.578	6.161	6.284	6.410	Continuing	Continuing

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

This Program Element (PE) is part of the Military Intelligence Program (MIP). Unmanned Intelligence, Surveillance, and Reconnaissance (ISR) rapidly develops and deploys special capabilities to perform ISR for deployed Special Operations Forces (SOF) using non-traditional means. The United States Special Operations Command (USSOCOM) has been designated as the Department of Defense lead for planning, synchronizing, and as directed, executing global operations against terrorist networks and targets. The USSOCOM requires the capability to find, fix, and finish time-sensitive high-value fixed and fleeting targets at the unit and team level without placing personnel and units in harm's way. These targets can often only be identified with patient collection of information and require rapid, decisive action during the short periods in which they present themselves. This PE addresses the primary areas of ISR and targeting capabilities for SOF. This PE received a Congressional Add in FY 2022 for Various Effects Launcher Capability (\$16.000 million).

FY 2022 includes \$3.559 million in Overseas Operations Costs (OOC) execution.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	18.006	3.354	6.727	-	6.727
Current President's Budget	34.006	3.354	6.727	-	6.727
Total Adjustments	16.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	16.000	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

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

**Project:** S855: *Unmanned ISR*

Congressional Add: *Various Effects Launcher Capability (VELC)*

	FY 2022	FY 2023
Congressional Add Subtotals for Project: S855	16.000	-
Congressional Add Totals for all Projects	16.000	-

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

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 1160434BB / <i>Unmanned ISR</i>

**Change Summary Explanation**

Funding:

FY 2022: Increase of \$16.000 million is due to the transfer of Congressional Add funding mistakenly appropriated in Program Element (PE) 1160431BB Warrior Systems, Project S800 Munitions Advanced Development to the correct PE 1160434BB Unmanned ISR, Project S855 Unmanned ISR for Various Effects Launcher Capability (VELC) to increase the capabilities of MQ-1C through integration of multiple payloads into a single pod.

FY 2023: None

FY 2024: None.

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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 1160434BB / <i>Unmanned ISR</i>				Project (Number/Name) S855 / <i>Unmanned ISR</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
S855: <i>Unmanned ISR</i>	159.404	34.006	3.354	6.727	-	6.727	6.578	6.161	6.284	6.410	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project is part of the Military Intelligence Program (MIP). Unmanned Intelligence, Surveillance, and Reconnaissance (ISR) rapidly develops and deploys special capabilities to perform ISR for deployed Special Operations Forces (SOF) using non-traditional means.

Group 1, 2, 3 and 4, Unmanned Aerial Systems (UAS) developmental efforts are to identify, develop, integrate, and test SOF-peculiar (SOF-p) mission kits, mission payloads, air vehicle enhancements, and modifications to ground control stations. Based on stakeholder input and requirements, Special Applications for Contingencies (SAFC) develops and integrates UAS payloads to advance ISR capabilities that address dynamic and emergent operational needs of the SOF user. Efforts include improving imagery intelligence and electronic warfare payloads, capitalizing on developing technologies to reduce size, weight and power while addressing processing and data management challenges. This program also provides a mechanism for SOF user combat evaluation of emerging sensor technologies.

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

	FY 2022	FY 2023	FY 2024
<p><b>Title:</b> Group 4 UAS: MQ-1C, Program Number 781</p> <p><b>Description:</b> Group 4 UAS are large systems that weigh greater than 1,320 pounds and fly higher than 18,000 feet (flight level 180). Provides for development efforts to identify, develop, integrate, and test SOF-p mission kits to include improved communications/networking, sensors, payloads, pod, and weapons integration.</p> <p><b>FY 2023 Plans:</b> Develop, test, and integrate SOF-p emerging technology mission kits, mission payloads, weapons, and modifications on MQ-1C, Ground Control Stations (GCS), and training systems.</p> <p><b>FY 2024 Plans:</b> Develops, tests, and integrates SOF-p weapon launchers and sensors on the MQ-1C. Improves Ground Control Stations (GCS) and training systems to implement advanced capabilities to combat emerging threats.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$3.347 million is to develop and integrate MQ-1C Airborne and Tactical Mission Networking systems demonstrated during Architecture, Automation, Autonomy and Interface (A3I) events.</p>	1.092	2.054	5.401
<p><b>Title:</b> Group 4 UAS: Long Endurance Aircraft (LEA)</p>	-	1.300	1.326

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</i>	<b>Project (Number/Name)</b> S855 / <i>Unmanned ISR</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
<p><b>Description:</b> LEA provides Special Operations Forces (SOF) with relatively low-cost unmanned aircraft family of systems to meet Intelligence, Surveillance &amp; Reconnaissance (ISR) requirements in austere and permissive environments for use in Irregular Warfare operations in support of the National Defense Strategy.</p> <p><b>FY 2023 Plans:</b> Begins initial development and integration of LEA mission kits and improved platform capabilities to include longer endurance.</p> <p><b>FY 2024 Plans:</b> Continues development of next generation LEA aircraft and integrates SOF-p sensors to increase Combat Line fielding.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.026 million continues payload integration for current LEA platform.</p>			
<p><b>Title:</b> Special Applications for Contingencies (SAFC)</p> <p><b>Description:</b> SAFC's evolutionary development projects quickly provide integrated, SOF-p mission kits, mission payloads, air vehicle enhancements and ground control station upgrades to its user community. These efforts rapidly develop and integrate UAS air vehicles, payloads and other technologies to field ISR capabilities and address dynamic and emergent operational needs and vulnerabilities of the SOF user. Efforts include improving imagery intelligence and electronic warfare payloads, capitalizing on developing technologies to reduce size, weight and power while addressing processing and data management challenges. It also provides a mechanism for SOF user combat evaluation of emerging sensor technologies. The SAFC applies focused Research &amp; Development (R&amp;D) for relatively low cost solutions to provide short lead-time contingency planning requirements where focused R&amp;D will allow for test and evaluation of leading edge solutions to emergent problem sets. Beginning in FY 2023 and beyond, SAFC funding has been consolidated into Expeditionary Organic Tactical Airborne ISR Capability Set (EOTACS) / Small Unmanned Systems (SUMS) under PE 1160405BB, Project S400, Special Operations Intelligence Systems.</p>	4.862	-	-
<p><b>Title:</b> Expeditionary Organic Tactical Airborne ISR Capability Set (EOTACS)</p> <p><b>Description:</b> EOTACS systems are less than 55 pounds in weight and include fixed wing, Vertical Takeoff and Landing, and tethered platforms. Provides for rapid development and prototyping efforts to identify, develop, integrate, and test SOF-p mission kits. Leverage SAFC development efforts. Beginning in FY 2023 and beyond EOTACS funding is contained in PE 1160405BB, Project S400, Special Operations Intelligence Systems.</p>	0.289	-	-
<p><b>Title:</b> Multi-Mission Tactical Unmanned Aerial System (MTUAS), Program Number 836</p> <p><b>Description:</b> MTUAS are medium tactical systems, between 21 pounds and 55 pounds in weight. Identifies, develops, integrates, and tests SOF-p mission kits, payloads, aircraft and ground control station modifications. Beginning in FY 2023 and beyond, MTUAS funding is contained in PE 1160405BB, Project S400, Special Operations Intelligence Systems.</p>	8.204	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</i>	<b>Project (Number/Name)</b> S855 / <i>Unmanned ISR</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Group 3 Unmanned Aerial System (UAS)	3.559	-	-
<b>Description:</b> Group 3 UAS are systems, between 55 pounds and 1320 pounds in weight. Identifies, develops, integrates, and tests SOF-p mission kits, payloads and ground control station modifications.			
<b>Accomplishments/Planned Programs Subtotals</b>	18.006	3.354	6.727

	<b>FY 2022</b>	<b>FY 2023</b>
<b>Congressional Add:</b> Various Effects Launcher Capability (VELC)	16.000	-
<b>FY 2022 Accomplishments:</b> Developed, integrated and fielded a various effects launcher capability (VELC) that can carry a mixed load out of glide munitions, unmanned aerial systems and non-lethal standoff payload delivery systems.		
<b>Congressional Adds Subtotals</b>	16.000	-

**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/0201UMNISR: <i>Unmanned ISR</i>	64.951	43.749	26.997	-	26.997	28.217	52.957	33.676	34.350	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Group 4 UAS: MQ-1C is an acquisition program that develops, tests, and integrates SOF-peculiar (SOF-p) emerging technology mission kits, mission payloads, weapons, and modifications on MQ-1C and associated Ground Control Stations (GCS) and training systems. Program provides rapid prototype activities and technology maturation events to increase situational awareness, lethality, and platform capability. Contract types include a mix of cost type and fixed price. Where possible, Group 4 UAS leverages service common Contractor Logistics Support (CLS) and developmental activities and contracts for aircraft and ancillary equipment development, improvement, and sustainment. The MQ-1C 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.

LEA UAS: Small Business Innovative Research (SBIR) III contract utilizing UAS technology developed under Air Force Research Laboratory (AFRL). LEA utilizes Cost Plus Fixed Fee (CPFF) Indefinite Delivery/Indefinite Quantity (IDIQ) contract for ISR services. This program is designed to utilize a family of systems to meet operational requirements. The LEA program has been 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.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</i>	<b>Project (Number/Name)</b> S855 / <i>Unmanned ISR</i>
<p>SAFC acquisition strategy is spiral-based for technology insertion and low volume procurement. SAFC utilizes existing competed contract vehicles to the maximum extent possible for minor development, integration and modification of Government-Off-The-Shelf (GOTS)/Commercial-Off-The-Shelf (COTS) equipment. Utilizes limited/full and open competition contracts and rapid acquisition tools for major developments.</p> <p>SUMS is an acquisition program that delivers, integrates, and qualifies SOF-p mission kits, mission payloads, air vehicle enhancements, and ground control station upgrades. These capabilities are defined through a thorough stakeholder's analysis in order to provide well and broadly defined capabilities. Contracting methods depend on the type of development effort. Competitive source selection will be conducted as much as possible. Proprietary considerations may direct some effort to the Original Equipment Manufacturer (OEM).</p> <p>MTUAS uses acquisition solutions that deliver, integrate, and qualify SOF-p modular mission kits that may include; mission payloads, air vehicle enhancements, training systems, and ground control station upgrades. These capabilities are defined through available acquisition strategy that includes a thorough stakeholder's analysis to provide well and broadly defined capabilities. Contracting methods depend on the type of development effort. Competitive source selection will be conducted as much as possible but may also leverage Other Transactional Authorities (OTAs) when sensible. Proprietary considerations may direct some effort to the OEM on a sole source basis.</p> <p>Group 3 UAS are acquisition projects that deliver, integrate, and qualify SOF-p mission kits, mission payloads, air vehicle enhancements, and ground control station upgrades. These capabilities are defined through a thorough stakeholder's analysis in order to provide well and broadly defined capabilities. Contracting methods depend on the type of development effort. Competitive source selection will be conducted as much as possible. Proprietary considerations may direct some efforts to the OEM.</p>		

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / Unmanned ISR	<b>Project (Number/Name)</b> S855 / Unmanned ISR
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Group 4 UAS: MQ-1C Weapon/Launchers	Various	Various : Various	-	-		1.235	Mar 2023	0.477	Feb 2024	-		0.477	Continuing	Continuing	-
Group 4 UAS: MQ-1C Various Effects Launcher Capability (VELC) - Cong. Add	Various	Various : Various	-	15.300	Jul 2022	-		-		-		-	Continuing	Continuing	-
Group 4 UAS: MQ-1C Tactical Mission Networking	Various	Various : Various	-	-		-		1.872	Feb 2024	-		1.872	Continuing	Continuing	-
Group 4 UAS: MQ-1C Airborne Mission Networking	Various	Various : Various	21.147	0.885	Mar 2022	0.249	Mar 2023	1.972	Apr 2024	-		1.972	Continuing	Continuing	-
Group 4 UAS: MQ-1C Situational Awareness Payload Integration	Various	Various : Various	-	-		0.159	Mar 2023	-		-		-	Continuing	Continuing	-
Long Endurance Aircraft (LEA) Unmanned Aerial System (UAS) Payload Integration	Various	Various : Various	-	-		1.300	Apr 2023	1.326	Apr 2024	-		1.326	Continuing	Continuing	-
Special Applications for Contingencies (SAFC) Platform/Payload Development and Integration	MIPR	Various; Various : Various	12.991	3.157	Dec 2021	-		-		-		-	0.000	16.148	-
Expeditionary Organic Tactical Airborne Intelligence, Surveillance, and Reconnaissance Capability Set (EOTACS) Payload Integration	MIPR	Various : Various	1.370	0.289	Dec 2021	-		-		-		-	0.000	1.659	-
Multi-Mission Tactical Unmanned Aerial Service (MTUAS)/Payloads Development and Integration	MIPR	Various : Various	20.212	5.748	Feb 2022	-		-		-		-	0.000	25.960	-
Prior Year Effort	Various	Various : Various	32.428	-		-		-		-		-	0.000	32.428	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</i>	<b>Project (Number/Name)</b> S855 / <i>Unmanned ISR</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year Effort - Overseas Contingency Operations (OCO)	Various	Various : Various	8.053	-		-		-		-		-	0.000	8.053	-
Prior Year Effort - Congressional Add	Various	Various : Various	11.000	-		-		-		-		-	0.000	11.000	-
<b>Subtotal</b>			107.201	25.379		2.943		5.647		-		5.647	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SAFC Platform/Payload Integration	MIPR	Various : Various	2.632	0.213	Dec 2021	-		-		-		-	0.000	2.845	-
MTUAS Platform/Payload Support	MIPR	Various : Various	2.394	1.831	Jan 2022	-		-		-		-	0.000	4.225	-
Group 3 UAS Platform/Payload Mission Kits	MIPR	Various : Various	-	1.620	Apr 2022	-		-		-		-	0.000	1.620	-
Prior Year Effort - OCO	Various	Various : Various	3.279	-		-		-		-		-	0.000	3.279	-
<b>Subtotal</b>			8.305	3.664		-		-		-		-	0.000	11.969	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Group 4 UAS: MQ-1C Operational Test and Evaluation	Various	Various : Various Vendors During Integration	1.258	0.207	Mar 2022	0.411	Mar 2023	1.080	Feb 2024	-		1.080	Continuing	Continuing	-
Various Effects Launcher Capability (VELC) Operational - Congressional Add	Various	Various : Various	-	0.700	Jul 2022	-		-		-		-	Continuing	Continuing	-
SAFC Sensor Developmental	MIPR	Various; Various : Various	14.277	0.965	Dec 2021	-		-		-		-	0.000	15.242	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / Unmanned ISR	<b>Project (Number/Name)</b> S855 / Unmanned ISR
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<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Testing, Evaluation and Demonstration															
MTUAS Platform/Payload Developmental Test and Evaluation	MIPR	Various : Various	1.970	0.625	Mar 2022	-		-		-		-	0.000	2.595	-
Group 3 UAS Developmental Test and Evaluation	MIPR	Various Vendors During Integrations : Various : Various	-	1.939	Jan 2022	-		-		-		-	0.000	1.939	-
Prior Year	Various	Various : Various	10.593	-		-		-		-		-	0.000	10.593	-
Prior Year Effort - OCO	Various	Various : Various	1.668	-		-		-		-		-	0.000	1.668	-
<b>Subtotal</b>			29.766	4.436		0.411		1.080		-		1.080	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
SAFC Sensor Testing, Evaluation and Demonstration Management	MIPR	Various : Various	5.970	0.527	Mar 2021	-		-		-		-	Continuing	Continuing	-
Prior Year Effort	Various	Various : Various	8.162	-		-		-		-		-	0.000	8.162	-
<b>Subtotal</b>			14.132	0.527		-		-		-		-	Continuing	Continuing	N/A

<b>Project Cost Totals</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
	159.404	34.006	3.354	6.727	-	6.727	Continuing	Continuing	N/A

**Remarks**

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

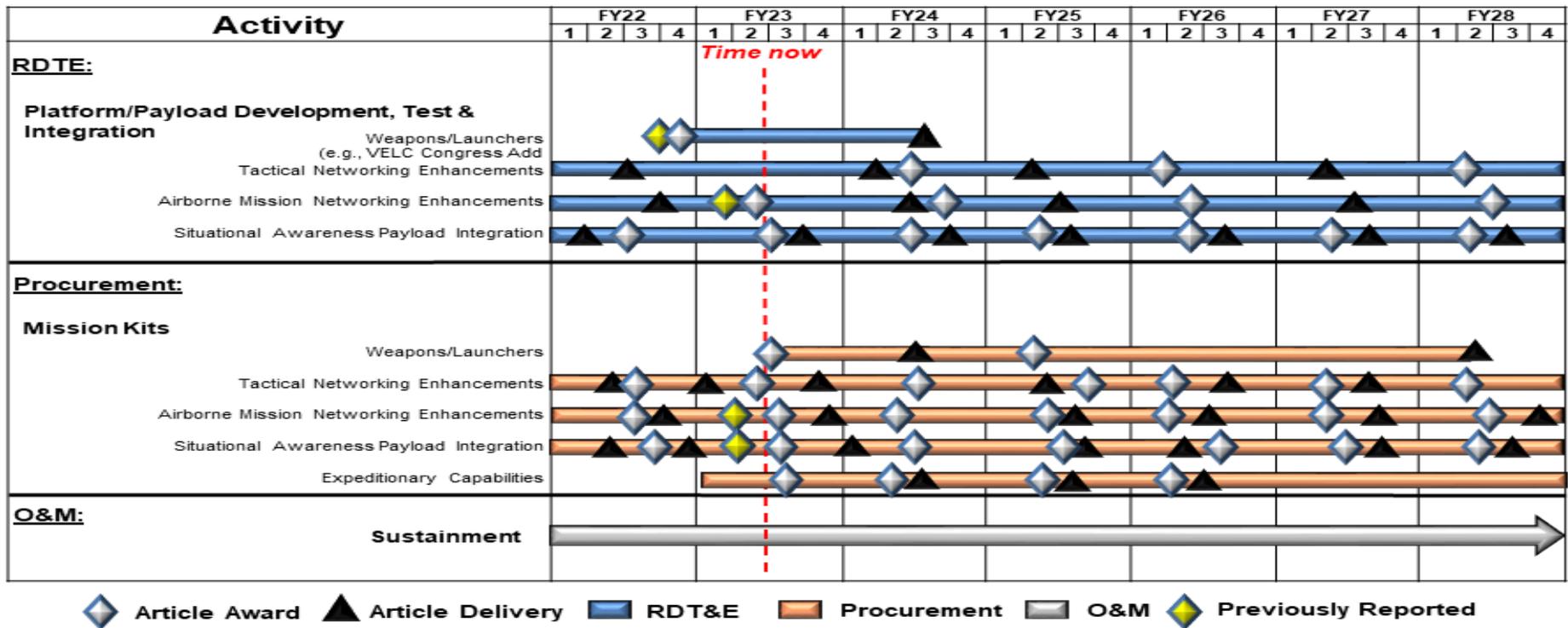
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160434BB / Unmanned ISR

Project (Number/Name)  
S855 / Unmanned ISR

## Group 4 UAS: MQ-1C Schedule



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

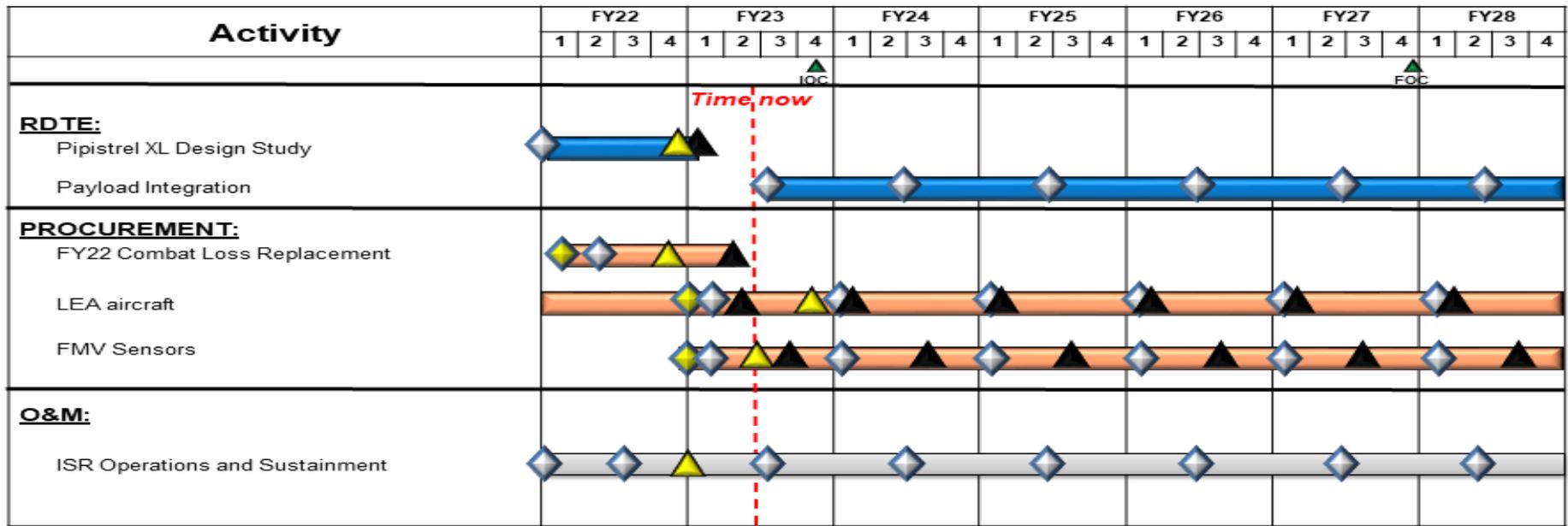
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160434BB / Unmanned ISR

Project (Number/Name)  
S855 / Unmanned ISR

# Long Endurance Aircraft (LEA) Schedule



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

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160434BB / Unmanned ISR	Project (Number/Name) S855 / Unmanned ISR
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## Special Applications for Contingencies (SAFC) Schedule

Activity	FY22				FY23				FY24				FY25				FY26				FY27				FY28			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>RDTE:</b>	Time now																											
Platform & Payload Development & Integration	◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆			
Congressional Add - Heat Coat	◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆			
Sensor Testing, Evaluation & Demonstration	◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆				◆◆◆◆			
<b>Procurement:</b>	<p><b>Note: For FY 2022 and prior, SAFC funding is displayed in Program element (PE) 1160434BB; Project S855, Unmanned ISR. For FY 2023 and beyond, SAFC funding was consolidated into Small Unmanned Airbourne Systems under PE 1160405BB, Special Operations (SO) Intelligence Systems, Project S400.</b></p>																											
Stalker Unmanned Aerial System (UAS)																												
ScanEagle UAS Skyraider UAS																												
<b>O&amp;M:</b>	<p>Range Support</p>																											

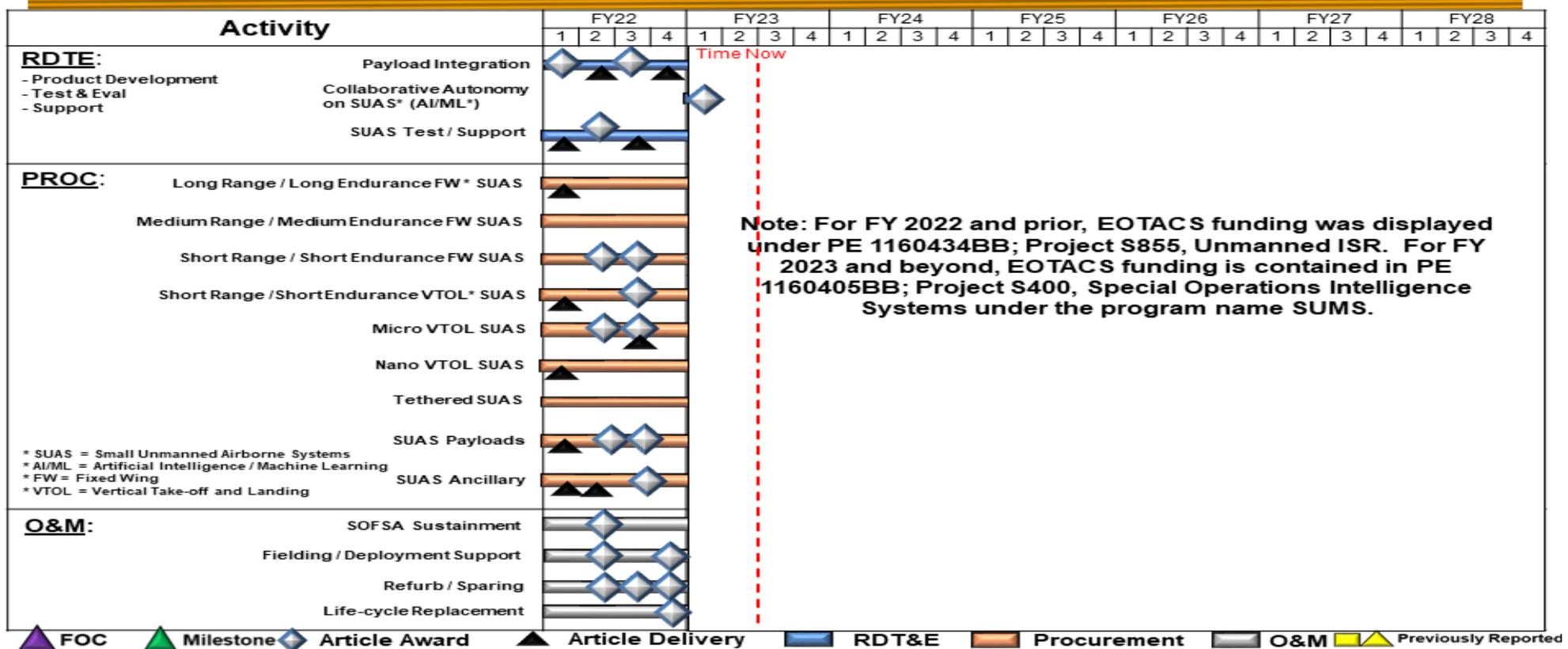
▲ Milestone  
 ◆ Article Award  
 ▲ Article Delivery  
  RDT&E  
  Procurement  
  O&M  
 ▲ Previously Reported

**UNCLASSIFIED**

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 1160434BB / Unmanned ISR	Project (Number/Name) S855 / Unmanned ISR
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## Expeditionary Organic Tactical Airborne ISR Capability Set (EOTACS) Schedule



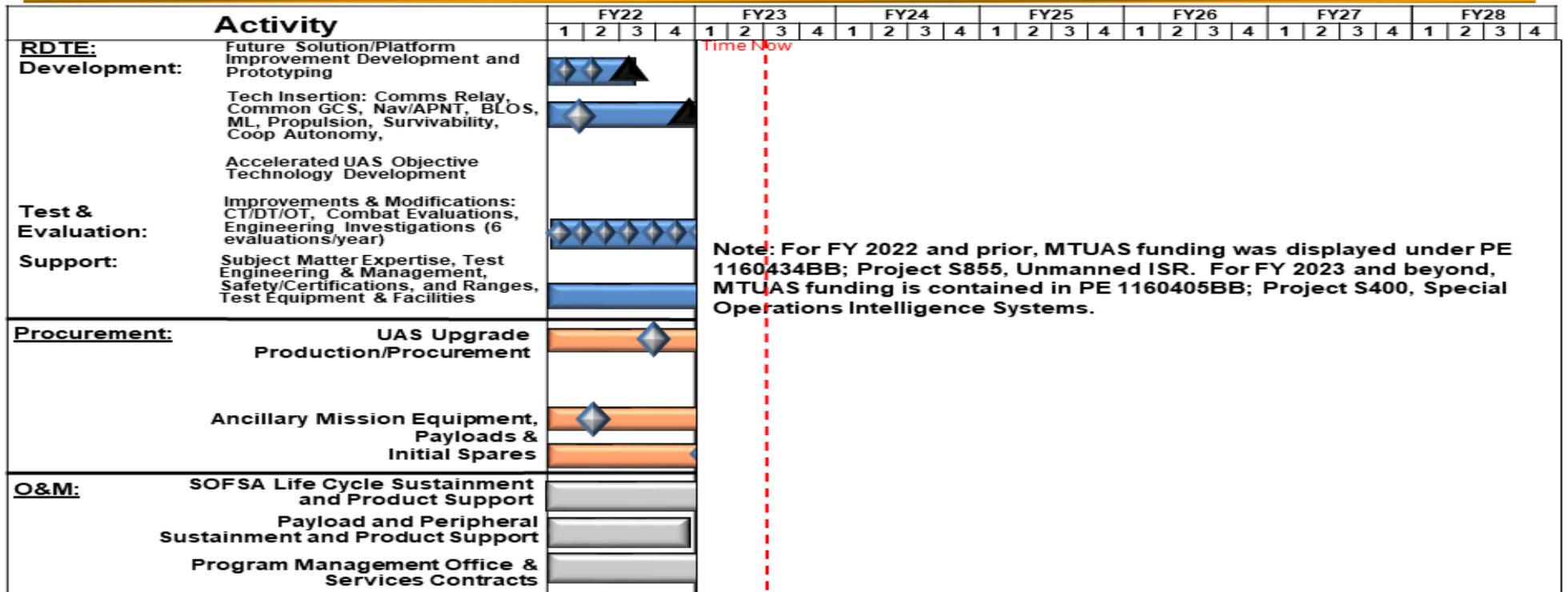
**Note: For FY 2022 and prior, EOTACS funding was displayed under PE 1160434BB; Project S855, Unmanned ISR. For FY 2023 and beyond, EOTACS funding is contained in PE 1160405BB; Project S400, Special Operations Intelligence Systems under the program name SUMS.**

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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 1160434BB / Unmanned ISR	Project (Number/Name) S855 / Unmanned ISR
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## Multi-Mission Tactical Unmanned Aerial System (MTUAS) Schedule



**Note:** For FY 2022 and prior, MTUAS funding was displayed under PE 1160434BB; Project S855, Unmanned ISR. For FY 2023 and beyond, MTUAS funding is contained in PE 1160405BB; Project S400, Special Operations Intelligence Systems.

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

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</i>	<b>Project (Number/Name)</b> S855 / <i>Unmanned ISR</i>
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## Group 3 Unmanned Aerial Systems (UAS) Schedule

Activity	FY22				FY23				FY24				FY25				FY26				FY27				FY28			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>RDT&amp;E:</b> Payload Dev: Full Motion Video (FMV) & Signals Intelligence (SIGINT) Platform Mission Kits: Mobile Control Station, Communication Relay, Vertical Take-off and Lift (VTOL) Kits T&E Support: NAVAIR, JITC, & Ranges					Time Now																							
<b>PROC:</b> FMV Payloads: Electro-Optical and Infrared (EO/IR)  SIGINT Payloads: SURFR  Platform Mission Kits: Reduced Footprint GCS and VTOL Kits																												
<b>O&amp;M:</b> Lifecycle Sustainment Activity: SOFSA  Payload Sustainment: NIWC																												

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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160434BB / <i>Unmanned ISR</i>	<b>Project (Number/Name)</b> S855 / <i>Unmanned ISR</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Group 4 UAS: MQ-1C</b>				
Weapon/Launchers	4	2022	3	2024
Tactical Networking Enhancements	1	2022	4	2028
Airborne Mission Networking Enhancements	1	2022	4	2028
Situational Awareness Payload Integration	1	2022	4	2028
<b>Long Endurance Aircraft (LEA) Unmanned Aerial System (UAS)</b>				
LEA Block II Design Effort (Pipistrel XL Design Study)	1	2022	4	2022
LEA Payload Integration	2	2023	4	2028
<b>Special Application for Contingencies (SAFC)</b>				
Platform and Payload Product Development, Support, and Management	1	2022	4	2022
Sensor Developmental Testing, Evaluation and Demonstration	1	2022	4	2022
<b>Expeditionary Organic Tactical Airborne ISR Capability Set (EOTACS)</b>				
Payload Integration	1	2022	4	2022
Small Unmanned Airbourne Systems Test and Support	1	2022	4	2022
<b>Group 2 Multi-Mission Tactical Unmanned Aerial System (MTUAS)</b>				
Platform/Payload Development and Integration	1	2022	4	2022
Platform/Payload Developmental Test and Evaluation	1	2022	4	2022
<b>Group 3 UAS</b>				
Payload Developmment	1	2022	4	2022
Platform/Mission Kits Development and Integration	1	2022	4	2022
Platform/Payload Developmental Test and Evaluation Support	1	2022	4	2022

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</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	59.393	7.771	10.719	9.335	-	9.335	9.704	9.906	10.099	6.076	Continuing	Continuing
S910: <i>SOF Tactical Vehicles</i>	59.393	7.771	10.719	9.335	-	9.335	9.704	9.906	10.099	6.076	Continuing	Continuing

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

This Program Element provides for the development and testing of a variety of capability upgrades to Special Operations Forces (SOF) Vehicles and mission enabling equipment. Current SOF tactical vehicles are categorized into Light, Medium, Heavy, and Commercial, which include the Lightweight Tactical All-Terrain Vehicle (LTATV); Ground Mobility Vehicle (GMV 1.0 / 1.1); Joint Light Tactical Vehicle (JLTV); Mine Resistant Ambush Protected (MRAP) Vehicle; Non-Standard Commercial Vehicle (NSCV); and SOF unique modifications for service common platforms. The SOF mission mandates that SOF vehicles remain technologically superior, operate in multiple environments, and be able to meet any threat to provide a maximum degree of survivability and build enduring advantages and campaigning to advance strategy-aligned priorities in accordance with the 2022 National Defense Strategy.

The total cost of the Family of Special Operations Vehicles (FSOV) Middle Tier of Acquisition effort is \$263.875 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. This effort is fully funded across the FYDP.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	7.703	13.594	6.025	-	6.025
Current President's Budget	7.771	10.719	9.335	-	9.335
Total Adjustments	0.068	-2.875	3.310	-	3.310
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-2.875			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.350	-			
• SBIR/STTR Transfer	-0.282	-			
• Adjustments to Budget Year	-	-	3.310	-	3.310

**Change Summary Explanation**

Funding:

FY 2022: Net increase of \$0.068 million is due to a reprogramming to support the next generation hybrid/electric GMV 1.1 test (\$0.350 million) and a transfer of funds to the congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs (-\$0.282 million).

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

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 1160480BB / <i>SOF Tactical Vehicles</i>

FY 2023: Decrease of \$2.875 million due to a Congressional Directed Reduction to the Family of Special Operations Vehicles (FSOV) for unjustified growth.

FY 2024: Net increase of \$3.310 million supports capability enhancements such as platform development, mobility and performance, signature management, survivability, lethality, communications, and the associated testing to create a diverse fleet of SOF tactical vehicles.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>				<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S910: <i>SOF Tactical Vehicles</i>	59.393	7.771	10.719	9.335	-	9.335	9.704	9.906	10.099	6.076	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for the development and testing of a variety of capability upgrades to Special Operations Forces (SOF) Vehicles and mission enabling equipment. Current SOF tactical vehicles are categorized into Light, Medium, Heavy, and Commercial, which include the Lightweight Tactical All-Terrain Vehicle (LTATV); Ground Mobility Vehicle (GMV 1.0 / 1.1); Joint Light Tactical Vehicle (JLTV); Mine Resistant Ambush Protected (MRAP) Vehicle; Non-Standard Commercial Vehicle (NSCV); and SOF unique modifications for service common platforms. The SOF mission mandates that SOF vehicles remain technologically superior, operate in multiple environments, and be able to meet any threat to provide a maximum degree of survivability.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Family of Special Operations Vehicles (FSOV)	7.771	10.719	9.335
<p><b>Description:</b> Funding provides for design/engineering, test, and evaluation costs related to capability upgrades in the following areas: Survivability; Lethality; Signature Management; Mobility/Performance; Communications; and Product Development. These capability upgrades and Engineering Change Proposals (ECPs) are incorporated across the FSOV portfolio of vehicles: Ground Mobility Vehicle (GMV 1.1), Program Number 803; Non-Standard Commercial Vehicle (NSCV), Program Number 804; Lightweight Tactical All-Terrain Vehicle (LTATV), Program Number 840; Mine Resistant Ambush Protected (MRAP) Vehicle, Program Number 802; and other service common platforms such as the Joint Light Tactical Vehicle (JLTV).</p> <p><b>FY 2023 Plans:</b> Continue the development and integration of ECPs that implement capability upgrades and improve the performance of NSCV, GMV 1.1, LTATV, MRAP and JLTV platforms. Continue the development, integration and testing of Counter Unmanned System (C-UxS) / Precision Strike System (PSS), Signature Reduction, and 360 degrees Situational Awareness (SA) on vehicle platforms. FY 2023 funding also includes the development, integration and testing of Autonomous Capabilities, developmental test and evaluation of LTATV Hybrid/Electric, and JLTV SOF Mods and other SOF mobility platforms. Complete Alternative Position Navigation Timing (A-PNT) and NSCV Blast Vulnerability Study.</p> <p><b>FY 2024 Plans:</b> Continues the development and integration of ECPs that improve the performance of LTATV, GMV 1.1, MRAP, JLTV, NSCV, Stryker communications, and other emerging SOF and service common platforms. Continues capability development for JLTV SOF Mods and other SOF Mobility platforms including Hybrid/Electric and autonomous technology, signature reduction, C-UxS, PSS, SA, along with enhanced integrated communications, lethality, and survivability modernization. Continues to transition developed technologies across the FSOV fleet.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Decrease of \$1.384 million is due reduction in GMV 1.1 ECPs, the planned completion of A-PNT and NSCV Blast Vulnerability study. In addition, FY 2023 funding reflects a single year increase of \$3.310 million for JLTV product development.			
<b>Accomplishments/Planned Programs Subtotals</b>	7.771	10.719	9.335

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

<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/0204TACVEH: <i>Tactical Vehicles</i>	33.469	59.605	56.561	-	56.561	56.528	57.375	23.899	24.392	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The Family of Special Operations Vehicles (FSOV), in accordance with DoDI, 5000.80, utilizes the Middle Tier of Acquisition (MTA) pathway for Rapid Fielding of capability upgrades and Engineering Change Proposals (ECPs) for Survivability, Lethality, Signature Management, Mobility/Performance, Communications, and Product Development, incorporated across the FSOV portfolio of vehicles to include: Ground Mobility Vehicle (GMV 1.1); Non-Standard Commercial Vehicle (NSCV); Lightweight Tactical All-Terrain Vehicle (LTATV); Mine Resistant Ambush Protected (MRAP) Vehicle; and other service common platforms such as the Joint Light Tactical Vehicle (JL TV). The current acquisition approach for SOF Tactical Vehicles utilizes the MTA rapid fielding pathway to support capability set procurements and fielding. The FSOV program will transition to a tailored Acquisition Category (ACAT) program utilizing the major capability acquisition pathway to complete fielding. The FSOV program will apply SOF-Peculiar modifications to service common or Commercial-Off-The-Shelf (COTS) vehicles whenever possible. Where required, the FSOV program will incorporate purpose-built, non-developmental Item, or modified COTS vehicles if/when service solution is unavailable.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Ground Mobility Vehicle (GMV) 1.1 Capability Enhancements / Engineering Change Proposal (ECP) Development	Various	Various : Various	16.944	1.290	Feb 2022	1.000	May 2023	0.715	May 2024	-		0.715	Continuing	Continuing	-
Non-Standard Commercial Vehicle (NSCV) Capability Enhancements / ECP Development	Various	Various : Various	8.454	-		0.594	Jul 2023	0.510	Feb 2024	-		0.510	Continuing	Continuing	-
Light Tactical All-Terrain Vehicle (LTATV) Capability Enhancements / ECP Development	Various	Various : Various	1.685	3.031	Dec 2021	0.500	Nov 2022	1.100	Nov 2023	-		1.100	Continuing	Continuing	-
Mine Resistant Ambush Protected (MRAP) Vehicle Capability Enhancements/ ECP Development	Various	Various : Various	1.686	2.300	Jan 2022	0.125	Mar 2023	0.600	Mar 2024	-		0.600	Continuing	Continuing	-
Joint Light Tactical Vehicle (JLTV) Capability Enhancements / ECP Development	Various	Various : Various	1.750	-		2.000	Dec 2022	1.000	Dec 2023	-		1.000	Continuing	Continuing	-
Survivability Enhancement/ Improvement Efforts	Various	Various : Various	2.036	0.650	Apr 2022	0.750	Mar 2023	1.000	Mar 2024	-		1.000	Continuing	Continuing	-
Prior Year Funding	Various	Various : Various	0.385	-		-		-		-		-	0.000	0.385	-
Prior Year Funding - (OCO)	C/Various	Various : Various	0.725	-		-		-		-		-	0.000	0.725	-
Prior Year Funding - Congressional Add	Various	Various : Various	4.818	-		-		-		-		-	0.000	4.818	-
<b>Subtotal</b>			38.483	7.271		4.969		4.925		-		4.925	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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>
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<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year Funding	Various	Various : Various	4.051	-		-		-		-		-	0.000	4.051	-
<b>Subtotal</b>			4.051	-		-		-		-		-	0.000	4.051	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
GMV 1.1 Developmental Test and Evaluation (DT&E) Validation Efforts (Automotive, Command, Control, Communications, Computers, and Intelligence (C4I), Ballistics, Operator Events)	Various	Various : Various	2.084	0.250	Mar 2022	1.500	Mar 2023	0.407	Mar 2024	-		0.407	Continuing	Continuing	-
NSCV DT&E Validation Efforts (Automotive, C4I, Ballistics, Operator Events)	Various	Various : Various	3.905	0.250	Mar 2022	2.000	Jan 2023	1.500	Jan 2024	-		1.500	Continuing	Continuing	-
LTATV DT&E Efforts	Various	Various : Various	1.181	-		2.250	Jan 2023	0.503	Jan 2024	-		0.503	Continuing	Continuing	-
JLTV Special Operations Forces-peculiar (SOF-p) Mods DT&E Validation	Various	Various : Various	-	-		-		2.000	Mar 2024	-		2.000	Continuing	Continuing	-
Prior Year Funding	Various	Various : Various	9.689	-		-		-		-		-	0.000	9.689	-
<b>Subtotal</b>			16.859	0.500		5.750		4.410		-		4.410	Continuing	Continuing	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		59.393	7.771	10.719	9.335	-	9.335	Continuing	Continuing	N/A

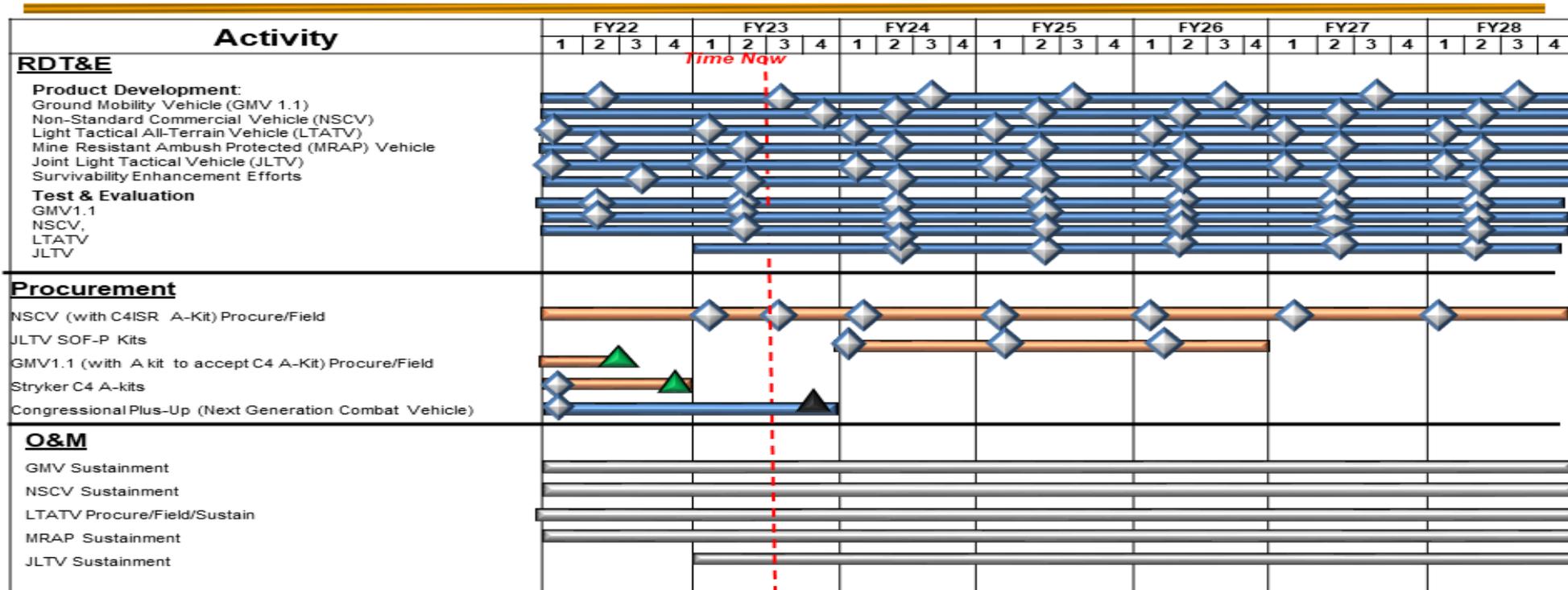
**Remarks**

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160480BB / SOF Tactical Vehicles

Project (Number/Name)  
S910 / SOF Tactical Vehicles

# Family of Special Operations Vehicles (FOSOV) Schedule



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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Family of Special Operations Vehicles (FSOV)</i></b>				
Ground Mobility Vehicle (GMV) 1.1 Product Development	1	2022	4	2028
Non-Standard Commercial Vehicle (NSCV) Product Development	1	2022	4	2028
Light Tactical All-Terrain Vehicle (LTATV) Product Development	1	2022	4	2028
Mine Resistant Ambush Protected (MRAP) Vehicle Product Development	1	2022	4	2028
Joint Light Tactical Vehicle (JLTV) Product Development	1	2022	4	2028
Next Generation Combat Vehicles Congressional Plus-Up	1	2022	4	2028
GMV 1.1 Developmental Test & Evaluation (DT&E)	1	2022	4	2028
NSCV DT&E	1	2022	4	2028
LTATV DT&E	1	2022	4	2028
JLTV SOF-p DT&E	1	2023	4	2028

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime 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	644.694	60.345	112.645	158.231	-	158.231	179.852	323.286	249.925	273.533	Continuing	Continuing
S0417: <i>Underwater Systems</i>	554.545	42.997	88.309	124.672	-	124.672	143.392	188.902	125.966	145.269	Continuing	Continuing
S1684: <i>Surface Craft</i>	90.149	17.348	24.336	33.559	-	33.559	36.460	134.384	123.959	128.264	Continuing	Continuing

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

This Program Element provides for the Engineering and Manufacturing Development (EMD) of Special Operations Forces (SOF) Surface and Undersea Mobility platforms. This Program Element also provides for pre-acquisition activities to quickly respond to new requirements for SOF surface and undersea mobility, looking at multiple alternatives to include cross-platform technical solutions, service-common solutions, Commercial-Off-The-Shelf technologies, and new development efforts.

The Underwater Systems project provides for the EMD of combat submersibles, SOF combat diving systems, underwater support systems, and underwater equipment. This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component, prototype development, and exploitation of emerging technology opportunities to deliver enhanced capabilities) to respond to emerging requirements. These submersibles, equipment, and diving systems are used by SOF in the conduct of infiltration/extraction, personnel/material recovery, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems, diving systems, and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions. This project received a Congressional Add in FY 2022 for diver propulsion (\$4.200 million). This project received a Congressional Add in FY 2023, details will be provided under separate cover (\$30.000 million).

The Surface Craft project provides for the EMD of all combatant craft, combatant craft mission equipment, pre-planned product improvement, and technology insertion to meet the unique requirements of SOF. This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to quickly respond to new requirements for maritime craft and subsystems. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully engage the enemy and conduct operations associated with SOF maritime missions.

The SOF Combat Diving Program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-9, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly develop prototypes in support of SOF-Peculiar Life Support Systems, Marine Environmental Protection, Navigation, Propulsion, and Communication systems. The total cost of the Combat Diving Middle Tier of Acquisition effort is \$61.847 million (FY 2024 - FY 2028), including Research, Development, Test, and Evaluation (RDT&E) and procurement of prototype units. The SOF Combat Diving effort is fully funded across the Future Years Defense Program.

The total cost of the Maritime Precision Engagement (MPE) Middle Tier of Acquisition effort is \$79.015 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. The MPE effort is fully funded across the Future Years Defense Program.

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>
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The total cost of the SOF Small Unmanned Underwater Vehicle (SUUV) Middle Tier of Acquisition effort is \$13.529 million (FY 2024 - FY 2028), including RDT&E and procurement of prototype units. The SUUV effort is fully funded across the Future Years Defense Program.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	62.630	82.645	136.731	-	136.731
Current President's Budget	60.345	112.645	158.231	-	158.231
Total Adjustments	-2.285	30.000	21.500	-	21.500
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	30.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.285	-			
• Adjustments to Budget Year	-	-	21.500	-	21.500

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

**Project:** S0417: *Underwater Systems*

Congressional Add: *SOF Combat Diving Diver Propulsion*

Congressional Add: *Classified Program*

Congressional Add Subtotals for Project: S0417

Congressional Add Totals for all Projects

	FY 2022	FY 2023
	4.047	-
	-	30.000
Congressional Add Subtotals for Project: S0417	4.047	30.000
Congressional Add Totals for all Projects	4.047	30.000

**Change Summary Explanation**

Funding:

FY 2022: Net decrease of \$2.285 million is due to a reprogramming of funds to the Congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs.

FY 2023: Details for increase will be provided under separate cover (\$30.000 million).

FY 2024: Net increase of \$21.500 million is due to a transfer of funding for spiral development of Combatant Craft Light (CCL) MK2 from Operation and Maintenance (O&M), Defense-Wide, SAG 1PL7, Maintenance (\$2.267 million); an increase in Combatant Craft Medium (CCM) for the development of major service life enhancing capabilities and survivability testing to support craft modernization and sustainability (\$3.000 million); an increase in MPE as a result of a

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

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 1160483BB / <i>Maritime Systems</i>

transfer of funding from Procurement, Defense-Wide P-1 #72 Combatant Craft Systems for ongoing development of A & B kits into the CCM craft and test plan development (\$6.969 million); and an increase that will be provided under separate cover (\$9.264 million).

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

<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>				<b>Project (Number/Name)</b> S0417 / <i>Underwater 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
S0417: <i>Underwater Systems</i>	554.545	42.997	88.309	124.672	-	124.672	143.392	188.902	125.966	145.269	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for the Engineering and Manufacturing Development (EMD) of combat underwater submersibles, Special Operations Forces (SOF) combat diving systems, underwater support systems, and underwater equipment. This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to respond to emerging requirements. These submersibles, equipment, and diving systems are used by SOF in the conduct of infiltration/extraction, personnel/material recovery, hydrographic/inland reconnaissance, beach obstacle clearance, underwater ship attack, and other missions. The capabilities of the submersible systems, diving systems, and unique equipment provides small, highly trained forces the ability to successfully engage the enemy and conduct clandestine operations associated with SOF maritime missions.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Sea, Air, and Land (SEAL) Delivery Vehicle (SDV), Program Number 848	3.204	1.070	1.092
<p><b>Description:</b> The SDV MK 11, formerly referred to as Shallow Water Combat Submersible (SWCS), provides for the design, development and test of one Engineering Development Model (EDM) and ten production units to replace the legacy MK 8 MOD 1 SDV system. The SDV MK 11 is a free-flooding combat submersible mobility platform suitable for transporting and deploying SOF and their payloads for a variety of SOF missions. The SDV MK 11 will be deployable from a Dry Deck Shelter (DDS), surface ships, and land. The MK 11 system includes the vehicle and support equipment, comprised of Mission Support Equipment (MSE), Pack-Up Kit (PUK), and Transportation and Handling (T&amp;H). It also includes integration efforts with the current DDS and development of product improvements accomplished throughout the lifecycle of the system. The SWCS effort transitioned under SDV beginning in FY 2022 to better align with historical terminology and material solution. The SDV is aligned to the 2022 National Defense Strategy (NDS) supporting SOF in the strategic competition influence.</p> <p><b>FY 2023 Plans:</b> Continue SDV MK 11 Pre-Planned Product Improvements (P3I). P3I enhancements include: Power and Energy; Acoustic and Radio Frequency indicators and warning capabilities; Electro-Optical/Infrared (EO/IR) sensor; payload improvements; and self recovery.</p> <p><b>FY 2024 Plans:</b> Continues SDV MK 11 P3I. For FY 2024, the P3I enhancements will be focused on Power and Energy, EO/IR sensor, and Operator Situational Awareness (OSA) and MK 11 In-Service Engineering Agent operating cost.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>			

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
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Increase of \$0.022 million supports continuing Pre-Planned Product Improvement (P3I) enhancements.

<b>Title:</b> Dry Combat Submersible (DCS) Now, Program Number 816	6.209	4.349	3.794
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**Description:** The DCS provides for the advanced development, engineering, manufacturing, and testing efforts for a surface launched, dry, diver lock-in/lock-out vessel capable of inserting and extracting SOF and/or payloads into denied areas. Article consists of one Engineering Development Model (EDM). The United States Special Operations Command (USSOCOM) tested one submersible prototype to validate test methodologies, commercial classification, and USOCOM safety certification processes and will continue to utilize the prototype to evaluate capability enhancing technologies and reduce risk within the DCS program. This program includes funding for enhanced warfighter capabilities such as Mid-Water Column Lock-In/Lock-Out, de-pressurization pump, and submarine/grey hull interoperability. The DCS is directly aligned with the 2022 NDS by building a resilient Joint Force and defense ecosystem.

**FY 2023 Plans:**

Continue the incorporation of P3I of DCS to include Navy submarine/grey hull interoperability, efforts to address obsolescence, and the continued insertion of Undersea Craft Mission Equipment (UCME) developed technologies. Complete Follow On Operational Test and Evaluation (FOT&E).

**FY 2024 Plans:**

Continues the incorporation of P3I of DCS to include Navy submarine/grey hull interoperability, efforts to address obsolescence, and the continued insertion of UCME developed technologies.

**FY 2023 to FY 2024 Increase/Decrease Statement:**

Decrease of \$0.555 million is due to completion of Follow-on Operational Test and Evaluation (FOT&E) and a programmatic shift to life cycle sustainment.

<b>Title:</b> Dry Deck Shelter (DDS) Modernization, Program Number 817	1.405	3.081	12.423
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**Description:** The DDS provides for the P3I, testing, and integration of specialized underwater systems to meet the unique requirements of SOF, and compatibility with the submarine fleet. The current DDS is a certified diving system, which attaches to modified host submarines that provides for insertion of SOF forces and platforms. Funding supports product improvements to the current DDS, as well as associated diver equipment for in-service submarine support systems, unmanned underwater vehicles, and follow on development efforts for future SOF payloads. The DDS is directly aligned with the 2022 NDS by supporting a resilient Joint Force used to deter aggression on multiple fronts around the world.

**FY 2023 Plans:**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Continue development of field changes necessary to extend the useful life of the DDS and increase capacity to carry larger payloads. Begin studies and analysis for future DDS.</p> <p><b>FY 2024 Plans:</b> Continues studies and analysis of future DDS to include concept designs, design specifications, Request for Proposal development, analysis of alternatives, and efforts related to pre-milestone A. Continues development of legacy field changes necessary to extend the useful life and increase the payload capacity of six DDSs.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$9.342 million is due to the required efforts related to pre-milestone A for next generation DDS. FY 2024 funding required to support analysis and development of next generation DDS which include requirements generation, concept designs, and specifications. Future DDS will replace the 40+ year old legacy DDS in order to sustain SOF employment on U.S. Navy Host Submarines while improving performance, reliability and survivability.</p>			
<p><b>Title:</b> SOF Combat Diving (CBDIV), Program Number 713</p> <p><b>Description:</b> The SOF CBDIV program provides the EMD, testing, and rapid prototyping of SOF peculiar diving equipment that provides the SOF combat diver with the ability to engage the enemy and conduct operations. The SOF CBDIV will support the SDV, DCS, and surface craft with the conduct of infiltration/extraction, material recovery, underwater ship attack, beach clearance, and other missions. Technologies include, commercial and developmental life support, maneuverability and propulsion, diver navigational accuracy and situational awareness, environmental protection, and communications between dive teams as well as between divers and external vessels/craft. The SOF CBDIV is aligned with the 2022 NDS supporting SOF in the strategic competition influence. Continued investment in SOF CBDIV efficient and sustainable capabilities establish our competitive advantage and enable assured access into contested/denied regions.</p> <p><b>FY 2023 Plans:</b> Continue development, prototyping and advanced development to include testing and evaluation of environmental protection, navigation, communication and propulsion equipment as well as an underwater breathing apparatus equipment material solution analysis.</p> <p><b>FY 2024 Plans:</b> Continues development, prototyping, and advanced development to include testing and evaluation of environmental protection, navigation, communication, and propulsion equipment. Development, testing, and integration to support prototyping the helium and oxygen (HEO2) Underwater Breathing Apparatus (UBA).</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	2.905	3.249	4.617

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
<p>Increase of \$1.368 million supports increased development, testing, and integration to support prototyping the helium and oxygen (HEO2) Underwater Breathing Apparatus (UBA).</p> <p><b>Title:</b> Undersea Craft Mission Equipment (UCME)</p> <p><b>Description:</b> The UCME provides a rapid response capability to support SOF underwater craft and diver systems, subsystems, and their emerging requirements. The UCME provides technology refresh efforts to correct system deficiencies, improve asset life, and enhance mission capability to leverage and exploit emerging technologies within the maritime SOF undersea capability portfolio. The UCME focuses on spearheading specific Technology Readiness Level (TRL) 6 technology for compatibility, maturity, marinization, and successful transition to the SOF undersea craft programs.</p> <p><b>FY 2023 Plans:</b> Continue development of undersea survivability enhancements; underwater and maritime domain communications; enhanced Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, &amp; Reconnaissance and Situational Awareness (C5ISR/SA); unique power and energy capabilities; other capability enhancements and enabling technologies for assured access and building enduring advantage, aligning to the 2022 NDS priorities.</p> <p><b>FY 2024 Plans:</b> Continues development of undersea survivability enhancements; maritime navigation technology projects; underwater and maritime domain communications; enhanced C5ISR/SA; unique power and energy capabilities; other capability enhancements and enabling technologies for assured access and building enduring advantage, aligning to the 2022 NDS priorities. Begins ramping up the second increment enhanced maritime navigation technology projects, which will continue to provide enhanced capability to Maritime programs.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$4.856 million is due to the ramp up of the second increment enhanced maritime navigation technology projects, which will continue to provide enhanced capability to Maritime programs.</p>	16.485	12.711	17.567
<p><b>Title:</b> Small Unmanned Underwater Vehicle (SUUV), Program Number 799</p> <p><b>Description:</b> The SUUV program enables access to contested/denied areas in the maritime domain, provides maritime special reconnaissance capabilities and reduces risk to personnel and manned platforms. This program develops and integrates SOF-peculiar (SOF-p) modifications to the Service Common, Service resourced, SUUV.</p>	0.929	-	-
<p><b>Title:</b> Combatant Craft Light (CCL)</p> <p><b>Description:</b> The CCL is a small combatant craft that supports deployment of six combat equipped SOF operators and their payloads for selected missions in multiple threat environments. Its compact form factor provides SOF with versatile mission transportability, deployment, and utility capabilities.</p>	-	-	2.267

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>FY 2024 Plans:</b> Begins design efforts and prototype development for the CCL MK2.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$2.267 million supports the start-up of the CCL MK2 spiral development efforts.			
<b>Title:</b> Classified Programs <b>Description:</b> Details provided under separate cover.	7.813	33.849	82.912
<b>FY 2023 Plans:</b> Details provided under separate cover.			
<b>FY 2024 Plans:</b> Details provided under separate cover.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Details of \$49.063 million increase will be provided under separate cover.			
<b>Accomplishments/Planned Programs Subtotals</b>	38.950	58.309	124.672

	<b>FY 2022</b>	<b>FY 2023</b>
<b>Congressional Add:</b> SOF Combat Diving Diver Propulsion	4.047	-
<b>FY 2022 Accomplishments:</b> Continued development of the SOF Diver propulsion. Specific efforts target development, testing, certification, shore based use, Submarine and Surface craft carry-on approval of multiple battery subsystems supporting Collective and Individual diver propulsion devices.		
<b>Congressional Add:</b> Classified Program	-	30.000
<b>FY 2023 Plans:</b> Details provided under separate cover.		
<b>Congressional Adds Subtotals</b>	4.047	30.000

**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/0210US: <i>Underwater Systems</i>	28.327	52.631	66.111	-	66.111	66.759	108.613	349.473	514.401	Continuing	Continuing

**Remarks**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>

**D. Acquisition Strategy**

- The SDV MK 11/SWCS initially used full and open competition with a down select to a single contractor to award prototype development and low-rate initial production. Sole source Justification and Approval (J&A) was approved and awarded to deliver production articles MK1106 - MK1110. Third Production contract in development for procurement of production articles MK1111 - MK1114 to support Full Operational Capability increase to 14 MK11 articles. Sole source J&A in development with a target contract award date of March 2024. The full spectrum of contracting activities are being employed for P3I upgrades, using existing contracts, government agencies, and new contracts as appropriate. The SDV MK 11 is a Major Capability Acquisition (MCA), ACAT III, designated program.
- The DCS Now uses full and open competition, resulting in the selection of a single prime contractor and award of a Fixed Price Incentive Firm Target contract for three vessels. The DCS is a MCA program.
- The DDS is currently in sustainment through a maintenance and service contract which was competitively sourced, and awarded for a five-year period. The modernization and engineering/change efforts for the six DDS in inventory are executed utilizing the existing services contract. The DDS is a MCA program.
- The SOF Combat Diving Program has been designated a Middle Tier of Acquisition (MTA) in accordance with Section 804 of Public Law 114-9, the authority in DoD Directive 5143.01, and guidance in DoD Instruction 5000.80. The purpose of the MTA pathway is to rapidly develop prototypes in support of SOF-Peculiar Life Support Systems, Marine Environmental Protection, Navigation, Propulsion, and Communication systems. SOF Combat Diving is executed using existing contracts, government agencies, and new contracts competitively selected as appropriate.
- The UCME will use streamlined Federal Acquisition Regulation (FAR) contracting with existing or planned Indefinite Delivery, Indefinite Quantity, Blanket Order Agreement, University Affiliated Research Center, and Federally Funded Research and Development Center contracts and use Non-FAR Acquisition Authorities and Other Transaction Authority agreements, where appropriate.
- The SUUV Program will augment a Navy service common man-portable SUUV with purpose built, modular, plug-and-play sensors and payloads to meet SOF requirements using existing contracts, government agencies, and new contracts as appropriate. The SUUV is designated a Middle Tier of Acquisition (MTA) program which uses a rapid fielding pathway to integrate SOF-p modifications into the service provided UUV system.
- The CCL Mk2 initial requirements definition, design, and prototyping are anticipated to be sole source. The USSOCOM will evaluate limited competition for follow-on production contingent on cost tradeoffs and completeness of technical data.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SEAL Delivery Vehicle (SDV)/Shallow Water Combat Submersible (SWCS) Engineering Changes	C/Variou	Various : Various	3.688	3.204	Jan 2022	1.070	Jan 2023	1.092	Mar 2024	-		1.092	Continuing	Continuing	-
Dry Combat Submersible (DCS) Enhancements / Pre-Planned Product Improvement (P3I) Changes	C/Variou	Various : Various	24.399	2.625	Nov 2021	2.199	Nov 2022	3.000	Nov 2023	-		3.000	Continuing	Continuing	-
Dry Deck Shelter (DDS) Field Changes/ Enhancements	C/Variou	Various : Various	0.828	1.339	Jan 2022	2.814	Jan 2023	11.830	Jan 2024	-		11.830	Continuing	Continuing	-
Special Operation Forces (SOF) Combat Diving-Unique Diving Technologies	Variou	Various : Various	9.502	1.598	Feb 2022	1.914	Feb 2023	3.432	Mar 2024	-		3.432	Continuing	Continuing	-
SOF Combat Diving (Congressional Add)	C/Variou	Various : Various	11.383	4.047	Apr 2022	-		-		-		-	0.000	15.430	-
Undersea Craft Mission Equipment (UCME) Navigation, C5ISR/SA, Survivability, Power & Energy enhancements and other assured access technologies	C/Variou	Various : Various	31.198	10.458	Nov 2021	11.916	Nov 2022	17.167	Nov 2023	-		17.167	Continuing	Continuing	-
UCME Navigation, C5ISR/ SA, Survivability, Power & Energy enhancements and other assured access technologies	MIPR	Naval Surface Warfare Center, Carderock Division, : West Bethesda, MD	-	1.100	Feb 2022	-		-		-		-	0.000	1.100	-
UCME Navigation, C5ISR/ SA, Survivability, Power & Energy enhancements and other assured access technologies	MIPR	NSA Panama City : Panama City, FL	-	1.500	Nov 2021	-		-		-		-	0.000	1.500	-

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>
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<b>Product Development (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
UCME Navigation, C5ISR/ SA, Survivability, Power & Energy enhancements and other assured access technologies	MIPR	Commander Naval Sea Systems Command : Washington Navy Yard, DC	-	1.600	Mar 2022	-		-		-		-	0.000	1.600	-
UCME Navigation, C5ISR/ SA, Survivability, Power & Energy enhancements and other assured access technologies	MIPR	UIC Naval Undersea Warfare Center Division, Newport : Newport, RI	-	1.250	Sep 2022	-		-		-		-	0.000	1.250	-
Small Unmanned Underwater Vehicle (SUUV) Payload Development	C/Various	Various : Various	0.963	0.929	Mar 2022	-		-		-		-	0.000	1.892	-
Combatant Craft Light (CCL) Requirements Integration, Redesign and Prototype Planning	C/Various	Various : Various	-	-		-		2.267	Mar 2024	-		2.267	Continuing	Continuing	-
Classified Program	C/TBD	TBD : TBD	6.355	5.513		26.900		66.736		-		66.736	Continuing	Continuing	-
Classified Program Congressional Add	C/TBD	TBD : TBD	-	-		30.000		-		-		-	Continuing	Continuing	-
Prior Year Funding	Various	Various : Various	358.950	-		-		-		-		-	0.000	358.950	-
Prior Year Funding (Congressional Add)	C/Various	Various : Various	14.100	-		-		-		-		-	0.000	14.100	-
<b>Subtotal</b>			461.366	35.163		76.813		105.524		-		105.524	Continuing	Continuing	N/A

<b>Support (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year Funding	Various	Various : Various	9.094	-		-		-		-		-	0.000	9.094	-
<b>Subtotal</b>			9.094	-		-		-		-		-	0.000	9.094	N/A

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>
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<b>Test and Evaluation (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DCS Developmental/Operational Test and Evaluation	C/Variou	Various : Various	30.646	1.945	Oct 2021	1.250	Nov 2022	-		-		-	Continuing	Continuing	-
SOF Combat Diving Developmental Test and Evaluation	Variou	Various : Various	2.671	1.119	Oct 2021	1.129	Oct 2022	1.000	Oct 2023	-		1.000	Continuing	Continuing	-
Prior Year Funding	Variou	Various : Various	13.809	-		-		-		-		-	0.000	13.809	-
<b>Subtotal</b>			47.126	3.064		2.379		1.000		-		1.000	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DCS	Variou	Apogee : Tampa, FL	21.903	1.639	Aug 2022	0.900	Aug 2023	0.794	Jun 2024	-		0.794	Continuing	Continuing	-
DDS	Variou	NAVSEA : Washington, DC	2.806	0.066	Jan 2022	0.267	Jan 2022	0.593	Dec 2023	-		0.593	Continuing	Continuing	-
SOF Combat Diving	C/Variou	Apogee : Tampa, FL	0.713	0.188	Jul 2022	0.206	Aug 2023	0.185	Aug 2024	-		0.185	Continuing	Continuing	-
UCME	C/Variou	Various : Various	1.106	0.577	Dec 2021	0.795	Dec 2022	0.400	Jun 2024	-		0.400	Continuing	Continuing	-
Classified Sub-Project	TBD	TBD : TBD	1.100	2.300		6.949		16.176		-		16.176	Continuing	Continuing	-
Prior Year Funding	Variou	Various : Various	9.331	-		-		-		-		-	0.000	9.331	-
<b>Subtotal</b>			36.959	4.770		9.117		18.148		-		18.148	Continuing	Continuing	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		554.545	42.997	88.309	124.672	-	124.672	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 1160483BB / Maritime Systems	Project (Number/Name) S0417 / Underwater Systems
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## SEAL Delivery Vehicle Schedule

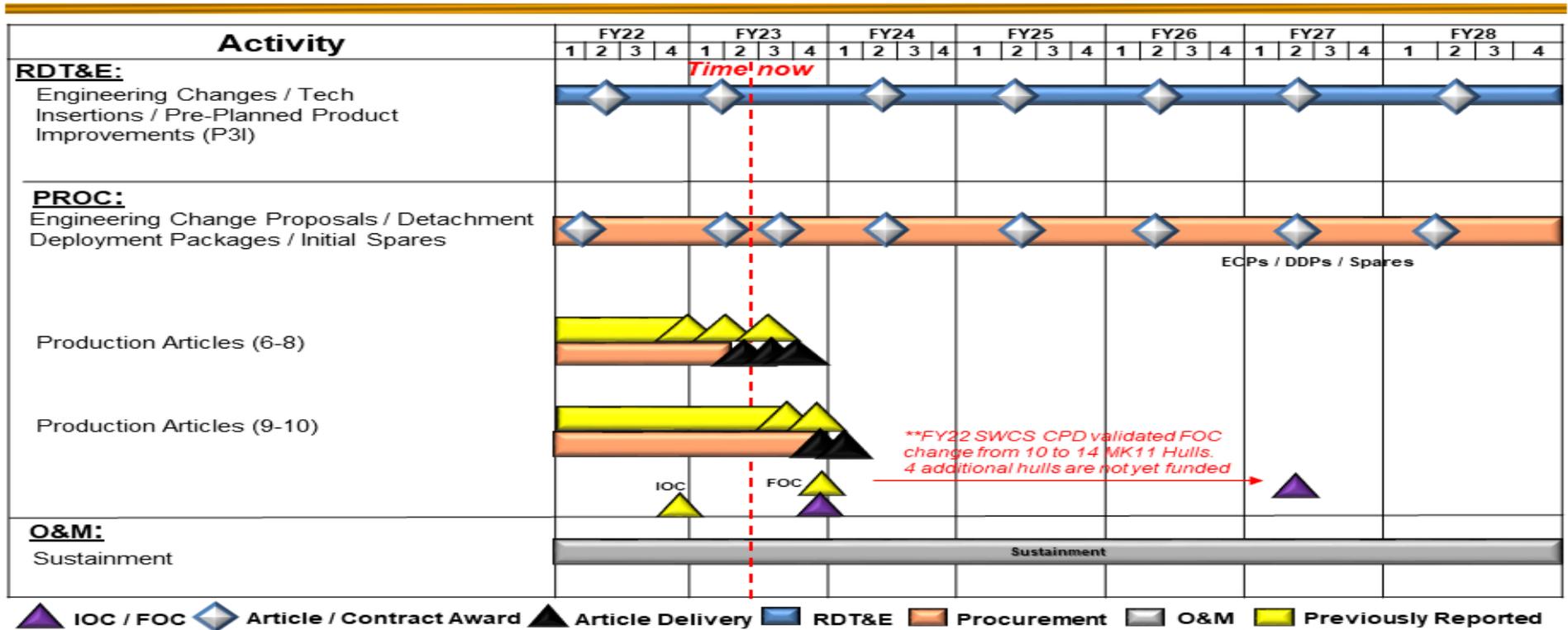
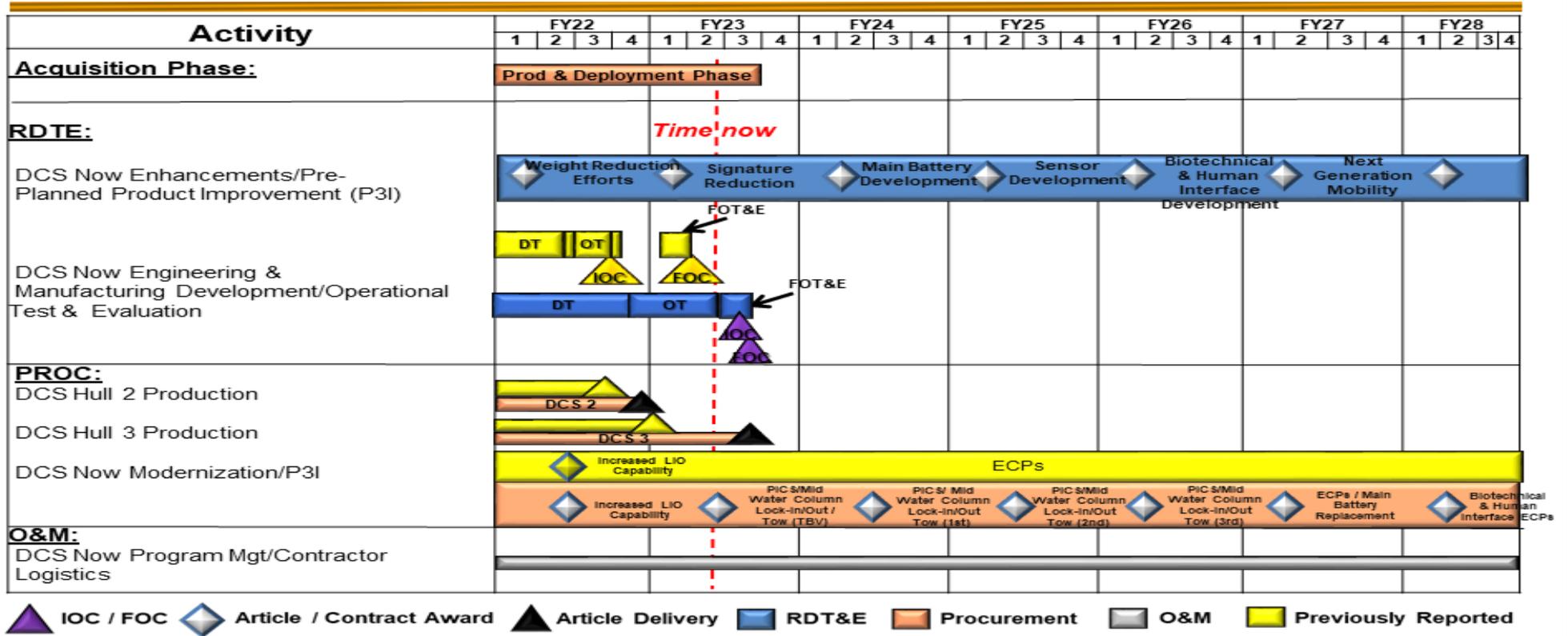


Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160483BB / Maritime Systems	Project (Number/Name) S0417 / Underwater Systems

# Dry Combat Submersible Schedule



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

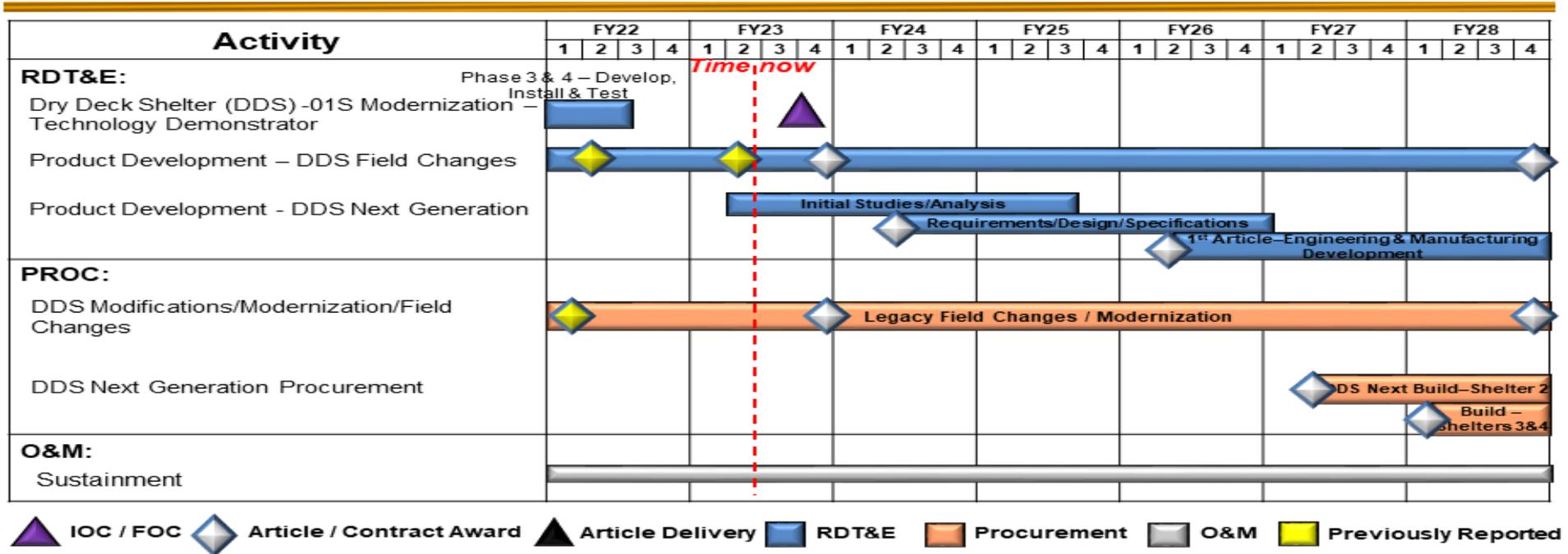
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160483BB / Maritime Systems

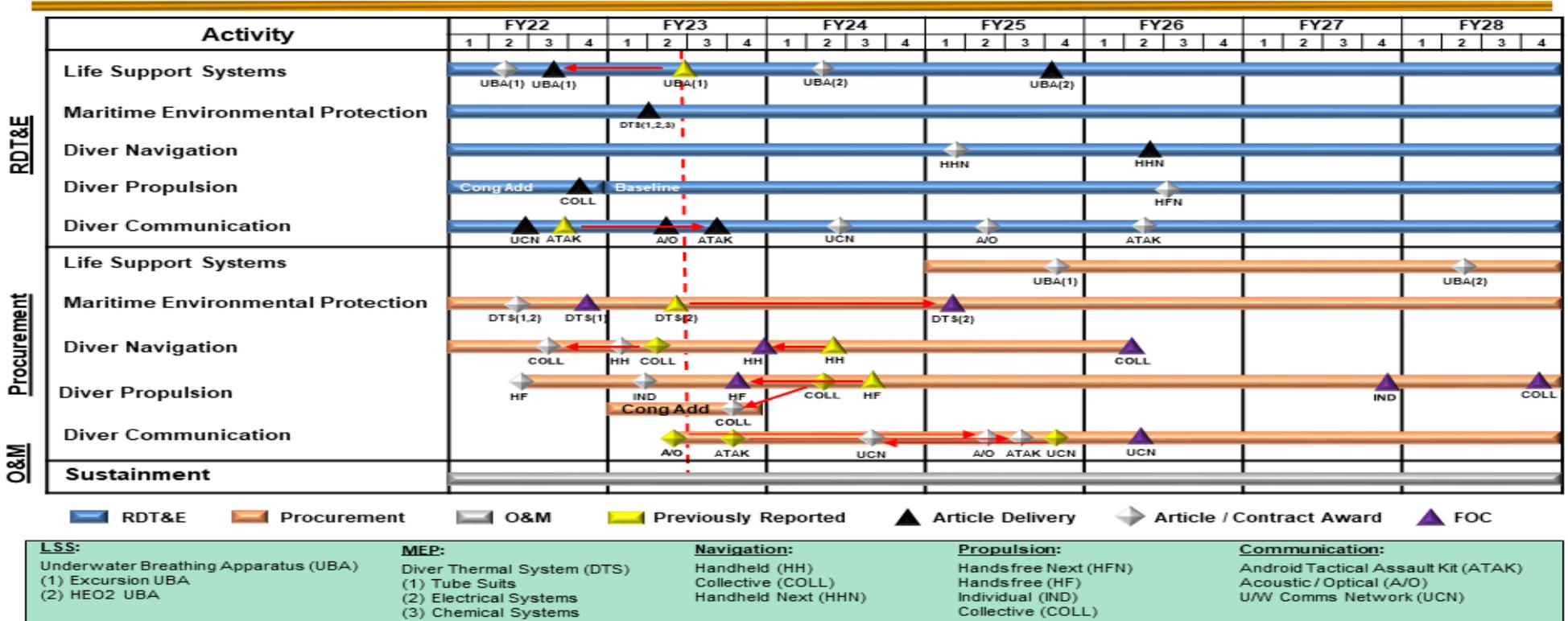
Project (Number/Name)  
S0417 / Underwater Systems

# Dry Deck Shelter Schedule



# SOF Combat Diving Schedule

Time now

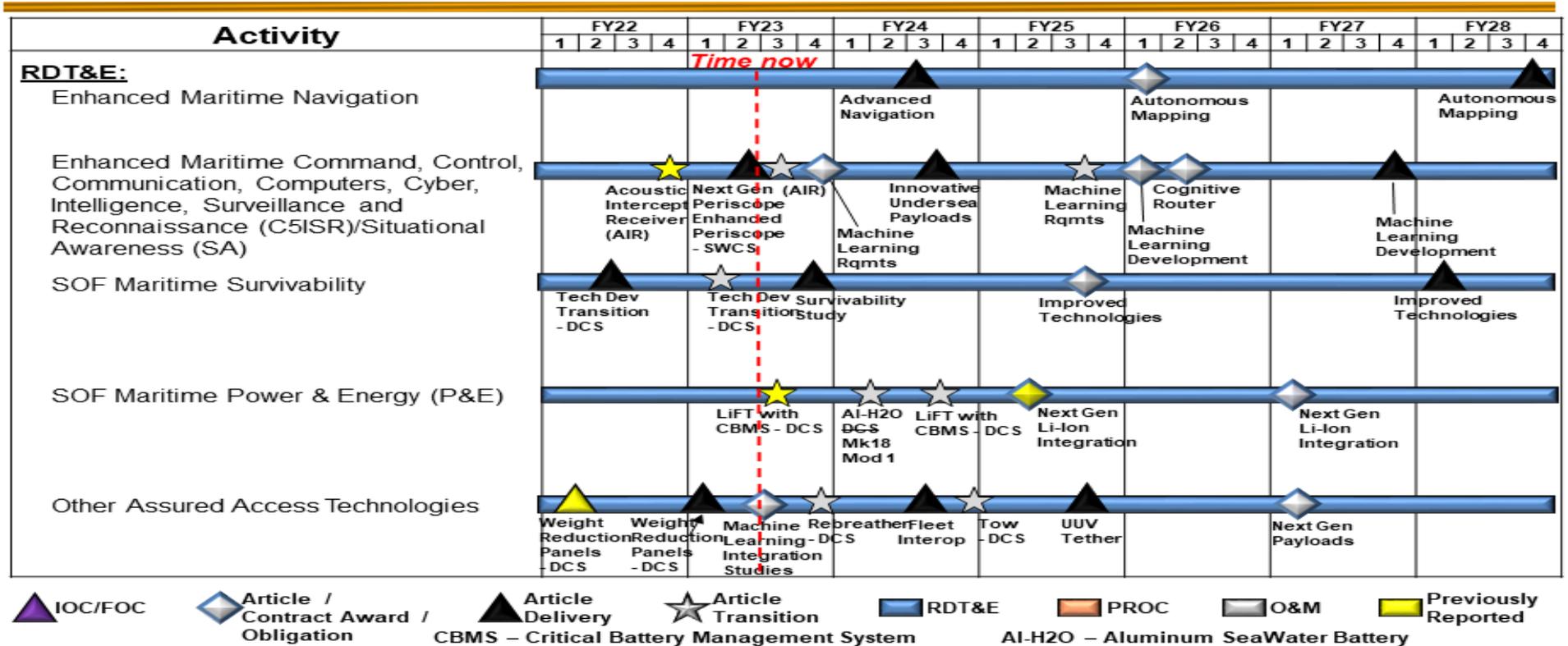


Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160483BB / Maritime Systems

Project (Number/Name)  
S0417 / Underwater Systems

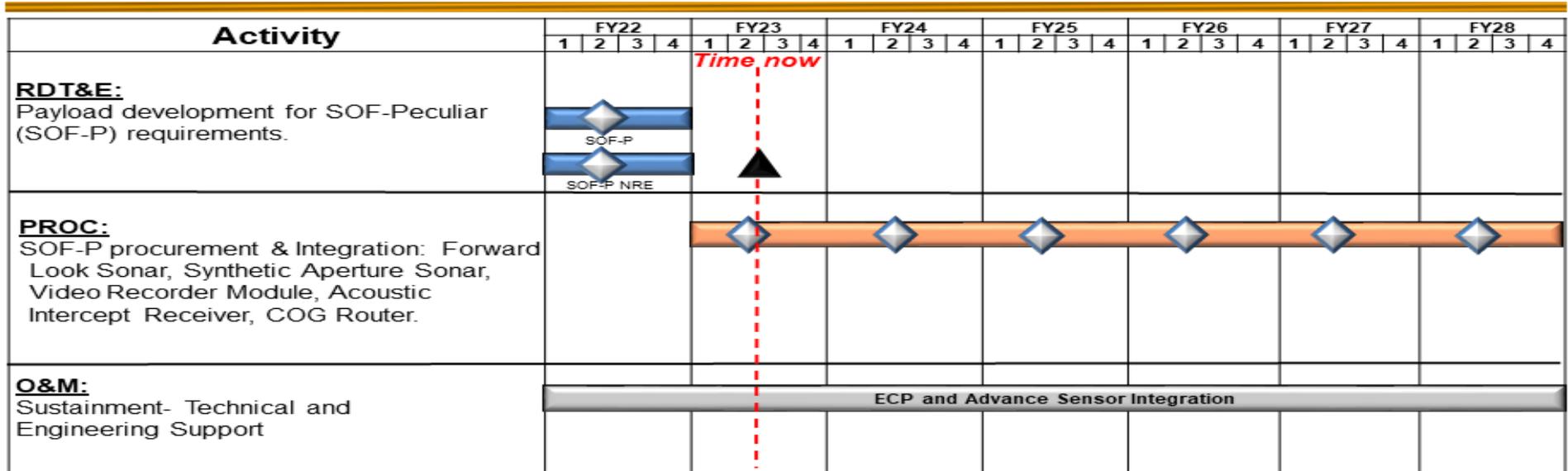
# Undersea Craft Mission Equipment Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>

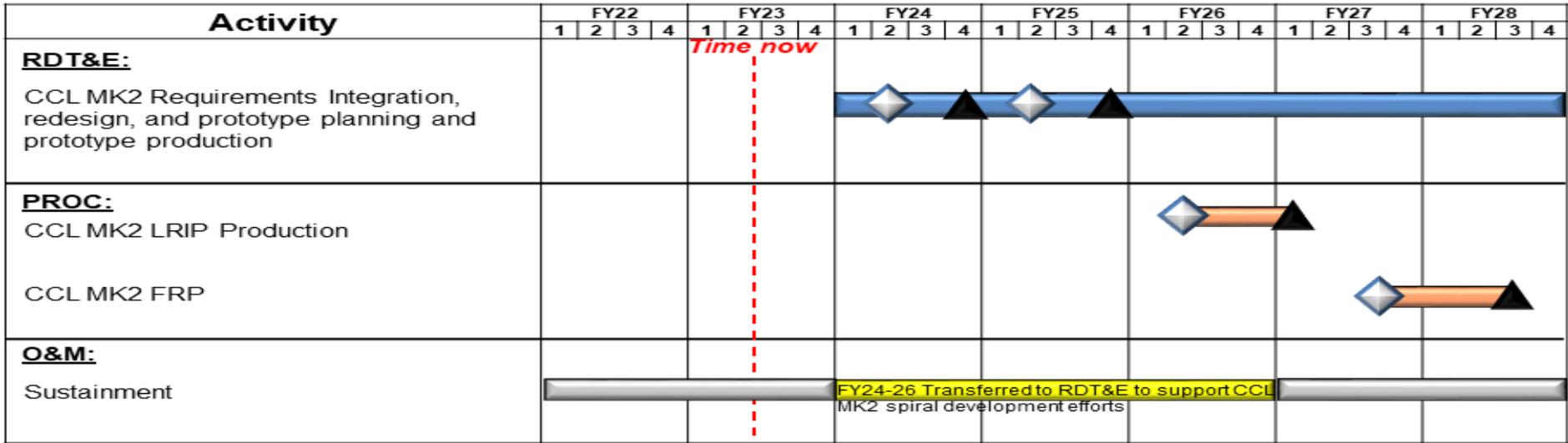
## Unmanned Underwater Vehicle (SUUV) Schedule



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>

## Combatant Craft Light Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>SEAL Delivery Vehicle (SDV)</b>				
Engineering Changes/Technology Insertions/Pre-planned Product Improvements (P3I)	1	2022	4	2028
<b>Dry Combat Submersibles (DCS) Now</b>				
Enhancements/P3I	1	2022	4	2028
Developmental Test and Evaluation	1	2022	4	2022
Operational Test and Evaluation	4	2022	3	2023
<b>Dry Deck Shelter Modernization (DDS)</b>				
DDS Phase 3 & 4 Development, Install, and Test O1S - Modernization Technology Demonstrator	1	2022	3	2022
DDS Modernization Product Development	1	2022	4	2028
DDS Next Product Development	2	2023	4	2028
<b>Special Operation Forces (SOF) Combat Diving</b>				
Life Support Systems Rapid Prototyping, Test, and Integration	1	2022	4	2028
Maritime Environmental Protection Rapid Prototyping, Test, and Integration	1	2022	4	2028
Diver Navigation Rapid Prototyping, Test, and Integration	1	2022	4	2028
Diver Propulsion Rapid Prototyping, Test, and Integration	1	2022	4	2028
Diver Communication Rapid Prototyping, Test, and Integration	1	2022	4	2028
<b>Undersea Craft Mission Equipment (UCME)</b>				
Enhanced Maritime Navigation	1	2022	4	2028
Enhanced Maritime Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR)/Situational Awareness (SA)	1	2022	4	2028
Special Operations Forces (SOF) Maritime Survivability	1	2022	4	2028
SOF Maritime Power & Energy (P&E)	1	2022	4	2028

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S0417 / <i>Underwater Systems</i>
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<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Other Assured Access Technologies	1	2022	4	2028
<b><i>Small Unmanned Underwater Vehicle (SUUV)</i></b>				
Pre-Planned Product Improvement - Payload Development	1	2022	4	2022
<b><i>Combatant Craft Light (CCL)</i></b>				
MK2 Requirements Integration, Redesign, and Prototype Planning	1	2024	4	2028

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

<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>				<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</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
S1684: <i>Surface Craft</i>	90.149	17.348	24.336	33.559	-	33.559	36.460	134.384	123.959	128.264	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project provides for the Engineering and Manufacturing Development of combatant craft, combatant craft mission equipment, Pre-Planned Product Improvement (P3I), and technology insertion to meet the unique requirements of Special Operations Forces (SOF). This project also provides for pre-acquisition activities (materiel solutions analysis, advanced component development and prototypes) to quickly respond to new requirements for maritime craft and subsystems. The craft capabilities and unique equipment provide small, highly trained forces the ability to successfully conduct operations associated with SOF maritime missions.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> Combatant Craft Medium (CCM), Program Number 818	0.989	3.600	6.745
<p><b>Description:</b> The CCM is a semi-enclosed multi-mission combatant craft for platoon-size maritime mobility in maritime contested environments. It is multi-mission capable, including Maritime Interdiction, Insert/Extract, and Visit, Board, Search, and Seizure (VBSS) Operations. The CCM is Naval Special Warfare's (NSW) craft-of-choice for long-range, high-payload SOF mobility operations in contested environments. The CCM has NSW's best Iron Triangle: 40 knot (kt) speed; 4 crew + 19 passengers (pax)/10,000 pound (lb) payload; and 600 nautical miles (nm) range. The CCM payload capacity enables inclusion of shock mitigating seats, which is critical for ride quality, operator tactical readiness, and operator health. At 60 feet long, CCM is C-17/ C-5 transportable and can launch/recover by well deck or shore based trailer. The CCM is aligned with the 2022 National Defense Strategy (NDS) imperatives to support SOF in the realm of integrated deterrence. Continued investment in this craft ensures efficient and sustainable capabilities which establish our competitive advantage, enable assured access in contested maritime environments, and posture SOF and the Joint Force to meet challenges of persistent transboundary threats and future operating environments.</p> <p><b>FY 2023 Plans:</b> Complete aft enclosure integration and testing. Continue development and testing of craft and Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) upgrades. Deliver initial mold of the Environmental Enclosure Kit.</p> <p><b>FY 2024 Plans:</b> Continues development and testing of C5ISR capabilities. Begins development of service life enhancing capabilities and analysis and studies for the development of CCM Mk2.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>			

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2022	FY 2023	FY 2024
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Increase of \$3.145 million supports CCM Mk2 preliminary design development.

<b>Title:</b> Combatant Craft Heavy (CCH), Program Number 819	0.895	3.953	0.975
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**Description:** The CCH provides platoon-size maritime surface mobility. The current CCH is formerly known as the Sea, Air, Land Insertion, Observation and Neutralization (SEALION) craft. The CCH is a fully-enclosed, climate-controlled, semi-submersible craft that operates in contested environments. The CCH is NSW’s most versatile and survivable combatant craft and the craft-of-choice for sensitive maritime intelligence, surveillance, and reconnaissance missions. Iron Triangle: 40 kt speed; 7 crew + 12 pax / 3,300 lb payload; and 400 nm range. The CCH payload capacity enables inclusion of shock mitigating seats, which is critical for ride quality, operator tactical readiness, and operator health. At 77+ feet long, the CCH is C-17/C-5 transportable and can launch/recover by well deck, shore based mobile travel lift, or crane. The CCH is aligned with the 2022 NDS imperatives to support SOF in the realm of strategic competition. Continued investment in this craft ensures efficient and sustainable capabilities which establish our competitive advantage, enable assured access in contested maritime environments, and posture SOF and the Joint Force to meet challenges of persistent transboundary threats and future operating environments.

**FY 2023 Plans:**

Continue development and integration of Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance/Situational Awareness (C5ISR/SA) and survivability enhancements. Begins CCH Next initial requirements development, studies, and analysis.

**FY 2024 Plans:**

Continues development and integration of C5ISR/SA and survivability enhancements.

**FY 2023 to FY 2024 Increase/Decrease Statement:**

Decrease of \$2.978 million is due to the transition of the CCH Next over to the Future Combatant Craft program.

<b>Title:</b> Combatant Craft Mission Equipment (CCME)	5.788	7.956	8.095
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**Description:** The CCME provides a rapid response capability to support SOF combatant craft systems, subsystems, and their emerging requirements. The CCME provides technology refresh efforts to correct system deficiencies, improve asset life, and enhance mission capability to leverage and exploit emerging technologies within the maritime SOF surface capability portfolio. The CCME focuses on spearheading specific Technology Readiness Level (TRL) 6 technology for compatibility, maturity, design for the marine environment, and successful transition to SOF combatant craft programs.

**FY 2023 Plans:**

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Continue evaluation and development of surface survivability enhancements; enhanced C5ISR/SA capabilities; unique power and energy capabilities such as hybrid electric propulsion; Assured Positioning, Navigation, and Timing (PNT); and enabling technologies for assured access and building enduring advantage, aligning to the 2022 NDS priorities.</p> <p><b>FY 2024 Plans:</b> Continues evaluation and development of surface survivability enhancements; enhanced C5ISR/SA capabilities; unique power and energy capabilities such as hybrid electric propulsion; Assured PNT; and enabling technologies for assured access and building enduring advantage, aligning to the 2022 NDS priorities. Begins a new maritime survivability radar countermeasures effort.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.139 million is due to a new maritime survivability radar countermeasures effort.</p>			
<p><b>Title:</b> Combatant Craft Assault (CCA), Program Number 820</p> <p><b>Description:</b> The CCA is a combatant craft for squad-size maritime mobility operations in contested environments. The CCA is NSW's best craft for Visit, Board, Search, Seizure operations because of open deck space, maneuverability, and interoperability with an Afloat Forward Staging Base. Iron Triangle: 40 kt speed; 5 crew + 10 pax/5,000 lb payload; and 300 nm range. At 41 feet long, the CCA is air transportable by C-130/C-17/C-5 and can launch/recover by crane, davit, well deck, or shore based trailer. The CCA program adheres to the objectives of the 2022 NDS by accelerating its advantageous technology to the operating forces more quickly.</p> <p><b>FY 2023 Plans:</b> Complete integration and testing of Combatant Craft Forward Looking Infrared 2 (CCFLIR2) mast design and Communications Box/Tactical Operations Center Network (TOCNET). Begin integration and testing of the Joint Threat Warning System (JTWS). Begin integration of the Maritime Tactical Mission Networking (MTMN).</p> <p><b>FY 2024 Plans:</b> Continues development, integration, and testing of the JTWS and the MTMN.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Decrease of \$1.277 million is due to the completion of CCFLIR2 mast design and Communications Box/TOCNET development.</p>	1.527	3.284	2.007
<p><b>Title:</b> Maritime Precision Engagement (MPE), Program Number 671</p> <p><b>Description:</b> The MPE is a family of standoff, loitering, man-in-the-loop weapons systems deployed on combatant craft and capable of targeting individuals, groups, vehicles, high value targets, and small oceangoing craft with low collateral damage. The MPE consists of combatant craft alterations, integration of the MK 50 Remote Weapon System (RWS), and munition launcher systems. Munitions for this effort are funded in Research Development Test and Evaluation, Defense Wide R-1 Warrior Systems; Project, S800, Munitions Advanced Development. This program integrates kinetic and non-kinetic effects employed by SOF</p>	8.149	4.943	10.125

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p>Combatant Craft to enable assured access in contested maritime environments and aligns with the 2022 NDS supporting strategic competition influence through Integrated Deterrence and building enduring competitive technological advantages for the future Joint Force.</p> <p><b>FY 2023 Plans:</b> Continue development of craft modifications and operator control station to refine a fully integrated operational capability. Continue development and testing of the munition launcher B-kit to refine the EDM-2 MPE launcher and EDM-2 MK 50 RWS B-Kit. Continue development of the CCM A-kit modifications and testing in preparation for transition to production. Continue planned product improvements.</p> <p><b>FY 2024 Plans:</b> Continues development of craft modifications and operator control station to produce a fully integrated operational capability. Completes development of the CCM A-kit modifications and testing in preparation for transition to production. Completes development of the munition launcher B-kit to refine the EDM-2 MPE launcher. Accelerated completion of developmental testing and operational assessment. Continues planned product improvements.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$5.182 million is due to three month acceleration on the completion of developmental testing and operational assessment.</p>				
<p><b>Title:</b> Special Operations Craft Riverine (SOCR), Program Number 821</p> <p><b>Description:</b> The SOCR is an aluminum-hull mobility platform for use in riverine and littoral areas for short range insertion of SOF in low to medium threat environments and is C-130 transportable. The SOCR adheres to the objectives of the 2022 NDS by accelerating advantageous technology to the operating forces more quickly.</p> <p><b>FY 2023 Plans:</b> Begin C5ISR and situational awareness system enhancements.</p> <p><b>FY 2024 Plans:</b> The SOCR continues development and testing of C5ISR capabilities (Comms Box and Next-Gen CCFLIR) and continue to conduct pre-award preliminary studies for next generation SOF riverine craft to include (Next-Gen) hybrid electric propulsion options. Begins study for Next-Generation Riverine capability.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$0.012 million supports next-generation propulsion product development.</p>		-	0.600	0.612
<b>Title:</b> Classified Program		-	-	5.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Description:</b> Details provided under separate cover.			
<b>FY 2024 Plans:</b> Details provided under separate cover.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$5.000 million will be provided under separate cover.			
<b>Accomplishments/Planned Programs Subtotals</b>	17.348	24.336	33.559

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC/0204SCCS: <i>Combatant Craft Systems</i>	12.080	85.566	55.064	-	55.064	86.336	48.167	54.841	45.873	Continuing	Continuing

**Remarks**

N/A

**D. Acquisition Strategy**

- The CCM was a two-phase source selection process. Phase I involved a Small Business Set-Aside competition for two vendors to design, build and deliver test articles. Phase II selected a single vendor to provide a fully integrated baseline craft system for test and evaluation with options for production, engineering support, and contractor logistics support. The CCM program is utilizing the Major Capability Acquisition (MCA) pathway.
- The CCH SEALION I & II were transitioned from United States Navy advanced technology demonstrator craft to the USSOCOM. Sustainment for the CCH I & II is conducted via Special Operations Forces Support Activity. The CCH III is Sole Source to the Original Equipment Manufacturer in order to take advantage of previous Government investments in manufacturing infrastructure for the CCH I & II. The CCH is utilizing the MCA pathway.
- The CCME will use streamlined Federal Acquisition Regulation (FAR) contracting with existing or planned Indefinite Delivery, Indefinite Quantity (IDIQ), Blanket Order Agreement (BOA), University Affiliated Research Center (UARC), and Federally Funded Research and Development Center contracts and use Non-FAR Acquisition Authorities and Other Transaction Authority agreements and Military Interdepartmental Purchase Requests, where appropriate.
- The CCA will continue to develop, test, and integrate Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR) capability enhancements required to increase the crafts performance characteristics, reliability, and survivability. Exercised ordering period two of the five-year IDIQ contract supporting Capital Equipment Replacement Program. The CCA is utilizing the MCA pathway.

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

<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>	<b>Project (Number/Name)</b>
0400 / 7	PE 1160483BB / <i>Maritime Systems</i>	S1684 / <i>Surface Craft</i>

- The MPE will employ government engineering expertise and lessons learned to develop a common launch system for NSW combatant craft. Low inventory of production units will be procured through Naval Surface Warfare Center (Dahlgren). The MPE is designated a MTA program which uses the rapid fielding pathway.
- The SOCR will continue development and testing of C5ISR capabilities and continue to conduct pre-award preliminary studies for next generation SOF riverine craft to include next-generation hybrid electric propulsion options. The SOCR utilizes the MCA pathway.

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Combatant Craft Medium (CCM)	C/Variou	Various : Various	21.639	0.989	Nov 2021	-		-		-		-	0.000	22.628	-
CCM Environmental Enclosure Kit	MIPR	NAVSEA : Virginia Beach, VA	-	-		1.650	Nov 2022	-		-		-	0.000	1.650	-
CCM C5ISR/Survivability	MIPR	NAWCAD : Patuxent River, MD	-	-		1.950	Oct 2022	3.600	Oct 2023	-		3.600	Continuing	Continuing	-
CCM Mk2 Development	C/Variou	Various : Various	-	-		-		3.145	Nov 2023	-		3.145	Continuing	Continuing	-
Combatant Craft Heavy (CCH)	C/Variou	Various : Various	11.796	0.895	Jan 2022	3.953	Jan 2023	0.975	Jan 2024	-		0.975	Continuing	Continuing	-
Combatant Craft Mission Equipment (CCME)	C/Variou	Various : Various	20.522	5.788	Nov 2021	7.956	Nov 2022	8.095	Nov 2023	-		8.095	Continuing	Continuing	-
Combatant Craft Assault (CCA)	C/Variou	Various : Various	4.109	1.527	Nov 2021	3.284	Nov 2022	2.007	Jan 2024	-		2.007	Continuing	Continuing	-
Maritime Precision Engagement (MPE)	C/Variou	NSWC : Dahlgren, VA	21.156	7.903	Dec 2021	4.685	Dec 2022	9.855	Dec 2023	-		9.855	Continuing	Continuing	-
Special Operations Craft Riverine (SOCR)	C/Variou	Various : Various	-	-		0.600	Mar 2023	0.612	Dec 2023	-		0.612	Continuing	Continuing	-
Classified Program	TBD	TBD : TBD	-	-		-		3.250		-		3.250	Continuing	Continuing	-
Prior Year Costs	C/Variou	Various : Various	3.576	-		-		-		-		-	0.000	3.576	-
<b>Subtotal</b>			82.798	17.102		24.078		31.539		-		31.539	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Prior Year Costs	C/Variou	Various : Various	3.646	-		-		-		-		-	0.000	3.646	-
<b>Subtotal</b>			3.646	-		-		-		-		-	0.000	3.646	N/A



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

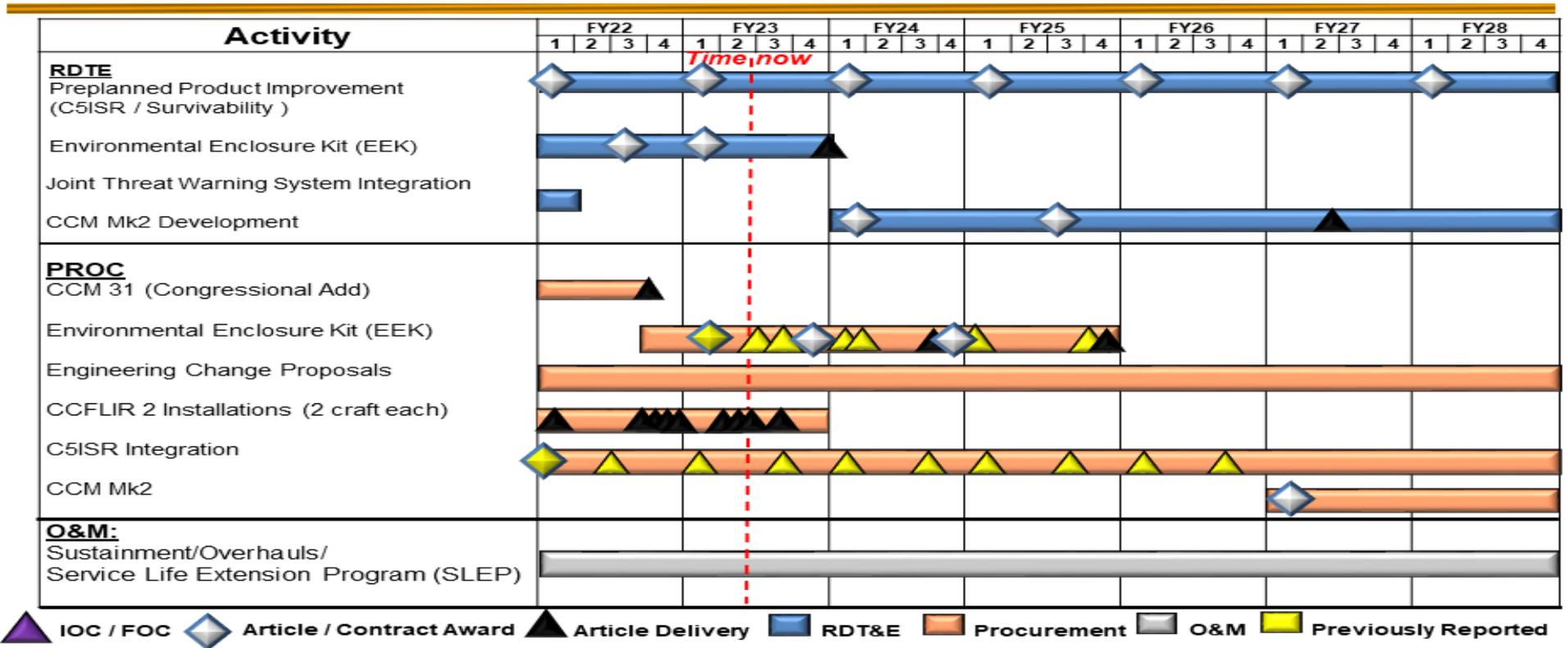
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160483BB / Maritime Systems

Project (Number/Name)  
S1684 / Surface Craft

# Combatant Craft Medium (CCM) Schedule

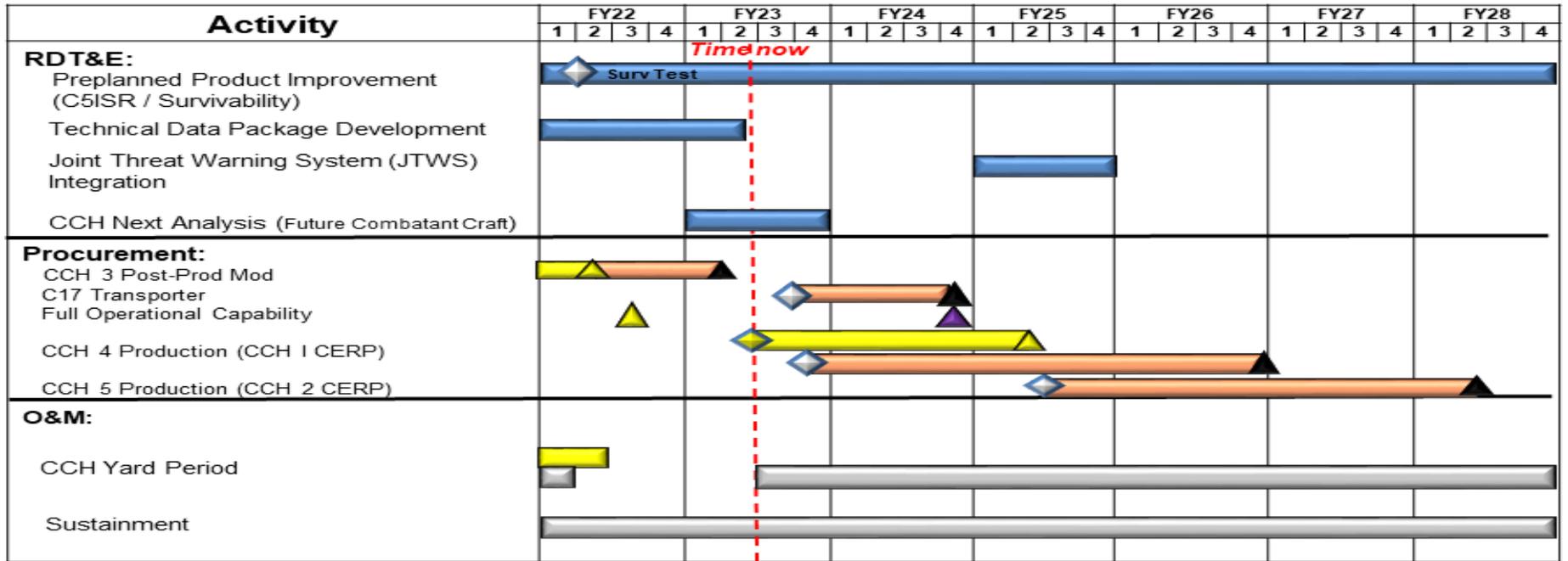


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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command Date: March 2023

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160483BB / Maritime Systems	Project (Number/Name) S1684 / Surface Craft
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# Combatant Craft Heavy (CCH) Schedule



▲ IOC / FOC   
 ◆ Article / 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

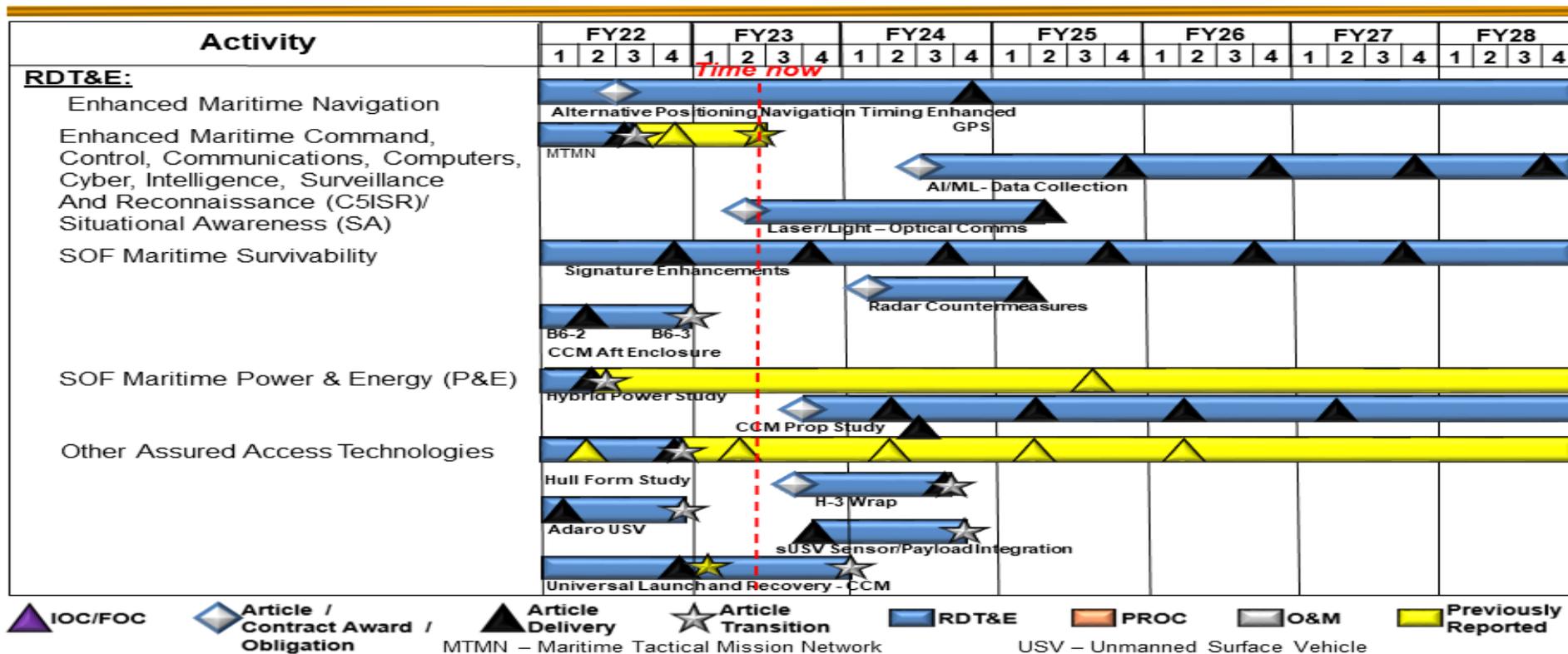
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160483BB / Maritime Systems

Project (Number/Name)  
S1684 / Surface Craft

# Combatant Craft Mission Equipment Schedule

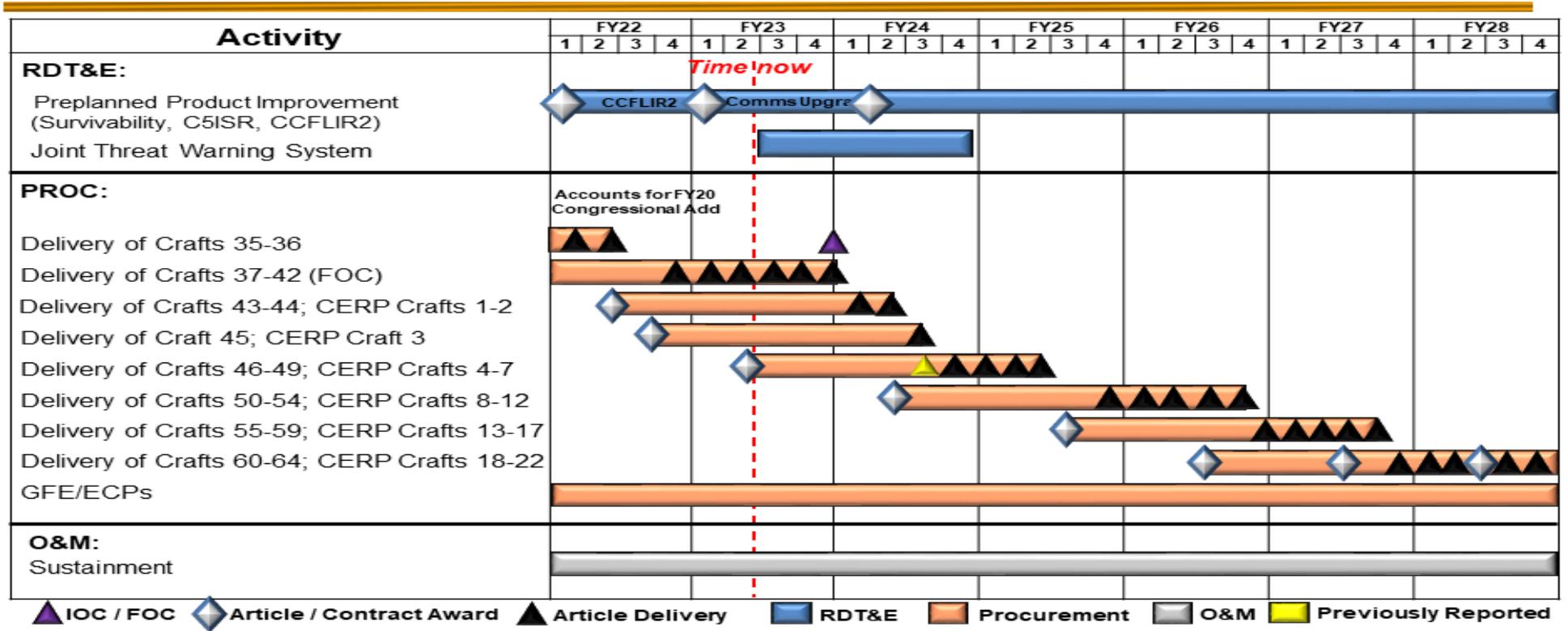


Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160483BB / Maritime Systems

Project (Number/Name)  
S1684 / Surface Craft

# Combatant Craft Assault Schedule

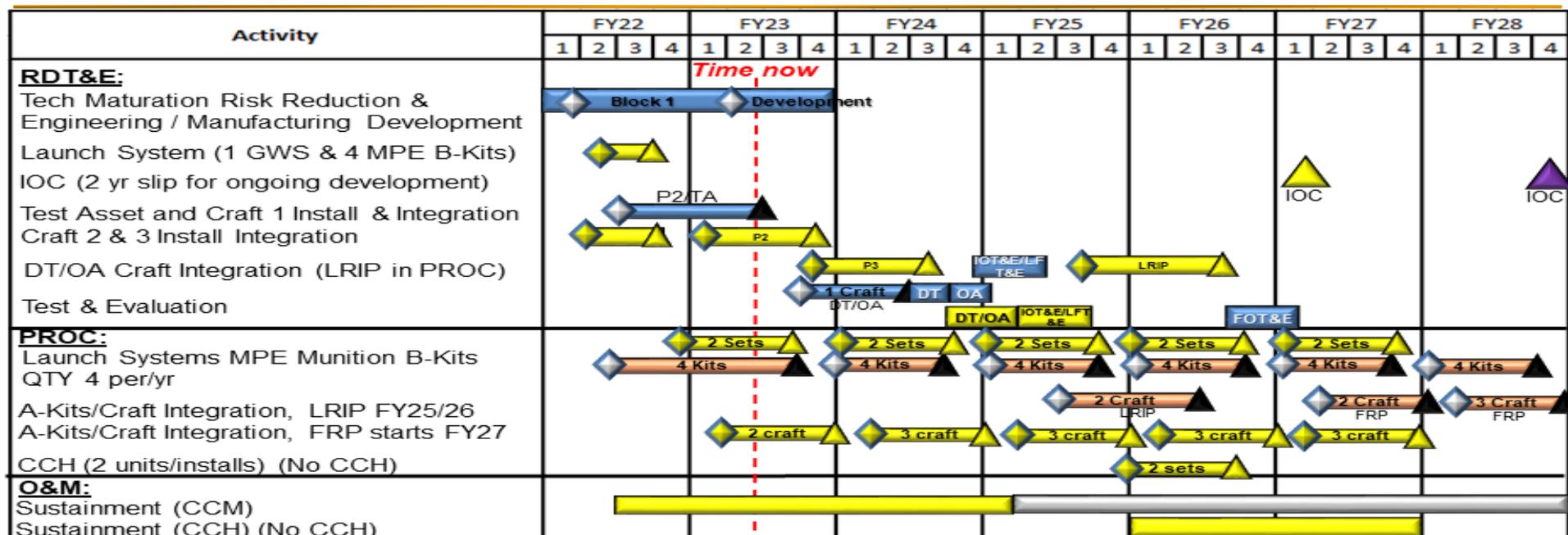


Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160483BB / Maritime Systems

Project (Number/Name)  
S1684 / Surface Craft

# Maritime Precision Engagement (MPE) Schedule



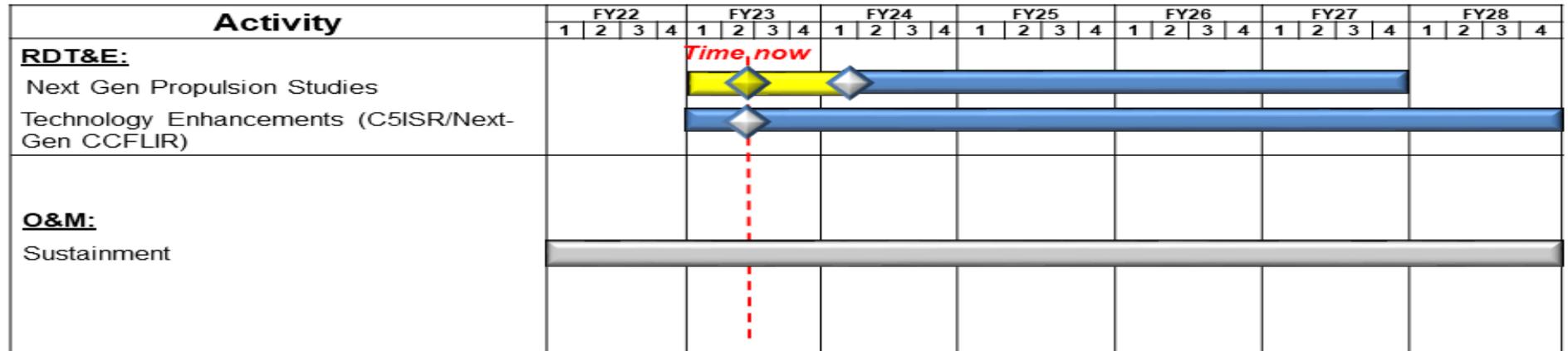
▲ IOC / FOC  
 ◆ Article / Contract Award  
 ▲ Article Delivery  
 ■ RDT&E  
 ■ Procurement  
 ■ O&M  
 ■ Previously Reported

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>
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## Special Operations Craft Riverine Schedule



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 United States Special Operations Command		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Combatant Craft Medium (CCM) MK 1</b>				
Preplanned Product Improvement Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR)/Survivability	1	2022	4	2028
Environmental Enclosure Kit (EEK) (formerly Aft Enclosure) Product Development	1	2022	4	2023
Joint Threat Warning System (JTWS) integration	1	2022	2	2022
CCM MK2 Development	1	2024	4	2028
<b>Combatant Craft Heavy (CCH)</b>				
Preplanned Product Improvement (Weapons / C5ISR / Survivability)	1	2022	4	2028
Technical Data Package Development	1	2022	2	2023
JTWS integration	1	2025	4	2025
CCH Next Analysis	1	2023	4	2023
<b>Combatant Craft Mission Equipment (CCME)</b>				
Enhanced Maritime Navigation	1	2022	4	2028
Enhanced Maritime C5ISR/Situational Awareness	1	2022	4	2028
SOF Maritime Survivability	1	2022	4	2028
SOF Maritime Power & Energy (P&E)	1	2022	4	2028
Other Assured Access Technologies	1	2022	4	2024
<b>Combatant Craft Assault (CCA)</b>				
Preplanned Product Improvement (Survivability, Weapons, C5ISR, Combatant Craft Forward Looking Infrared 2)	1	2022	4	2028
JTWS Integration	3	2023	4	2024
<b>Maritime Precision Engagement (MPE)</b>				
Tech Maturation Risk Reduction & Engineering / Manufacturing Development	1	2022	4	2023

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

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160483BB / <i>Maritime Systems</i>	<b>Project (Number/Name)</b> S1684 / <i>Surface Craft</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Test Asset and Craft 1 Install & Integration	3	2022	2	2023
Development Test / Operational Assessment Integration on Low Rate Initial Production Craft	4	2023	2	2025
Test & Evaluation	3	2026	1	2027
<b><i>Special Operations Riverine Craft (SOCR)</i></b>				
Next Gen Propulsion	1	2024	4	2027
Technology Enhancements (C5ISR, Next-Gen CCFLIR)	1	2023	4	2028

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

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160490BB / <i>Operational Enhancements Intelligence</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	143.395	15.990	12.583	15.749	-	15.749	17.233	17.463	17.813	18.116	Continuing	Continuing
S500D: <i>Operational Enhancements Intelligence</i>	143.395	15.990	12.583	15.749	-	15.749	17.233	17.463	17.813	18.116	Continuing	Continuing

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

This project is part of the Military Intelligence Program. This project is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	15.990	7.583	7.760	-	7.760
Current President's Budget	15.990	12.583	15.749	-	15.749
Total Adjustments	0.000	5.000	7.989	-	7.989
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Year	-	-	7.989	-	7.989

**Change Summary Explanation**

Funding:

FY 2022: None.

FY 2023: Increase of \$5.000 million is due to a Congressional Add for graphitic composite and graphitic carbon foam, Details are provided under separate cover.

FY 2024: Details for increase of \$7.989 million will be provided under separate cover.

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