Exhibit R-2, RDT&E Budget Item Justification: PB 2023 United States Special Operations Command	Date: April 2022
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	141.516	17.154	18.006	3.354	-	3.354	6.727	6.578	6.161	6.284	Continuing	Continuing
S855: *Unmanned ISR*	141.516	17.154	18.006	3.354	-	3.354	6.727	6.578	6.161	6.284	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. These technologies will be pursued via rapid prototyping efforts when appropriate.

Fiscal Year (FY) 2021 funding totals include $3.000 million appropriated for Overseas Contingency Operations (OCO).
FY 2022 funding totals include $18.006 million Base with $0.000 million Direct War and $5.000 million for Enduring Costs.

B. Program Change Summary ($ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	17.154	18.006	0.000	-	0.000
Current President's Budget	17.154	18.006	3.354	-	3.354
Total Adjustments	0.000	0.000	3.354	-	3.354
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Year	-	-	3.354	-	3.354

Change Summary Explanation

Funding:

FY 2021: None

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 United States Special Operations Command	Date: April 2022
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1160434BB *I Unmanned ISR*

FY 2022: None

FY 2023: FY 2023 funding increase of $3.354 million reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

FY 2023 funding request was reduced by $1.335 million to account for the availability of prior year execution balances.

Schedule: None.

Technical: None.

Exhibit R-2A, RDT&E Project Justification: PB 2023 United States Special Operations Command			Date: April 2022
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160434BB / *Unmanned ISR*	Project (Number/Name) S855 / *Unmanned ISR*	

COST ($ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
S855: *Unmanned ISR*	141.516	17.154	18.006	3.354	-	3.354	6.727	6.578	6.161	6.284	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project is part of the Military Intelligence Program (MIP). It rapidly develops and deploys special capabilities to perform Intelligence, Surveillance, and Reconnaissance (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-unique 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 2021	FY 2022	FY 2023
Title: SAFC	7.349	4.862	-
Description: SAFC's evolutionary development projects quickly provide integrated, SOF-unique 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 & Development (R&D) for relatively low cost solutions to provide short lead-time contingency planning requirements where focused R&D will allow for test and evaluation of leading edge solutions to emergent problem sets. ***FY 2022 Plans:*** Continue development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short-notice requirements. Continue evaluation of unique sensor technologies, persistent stare and quick reaction systems. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $4.862 million is due to SAFC funding consolidation into EOTACS under PE 1160405BB; Project S400, Special Operations (SO) Intelligence Systems for FY 2023 and beyond.			
Title: Expeditionary Organic Tactical Airborne ISR Capability Set (EOTACS)	0.283	0.289	-

Exhibit R-2A, RDT&E Project Justification: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2021	FY 2022	FY 2023
Description: 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-unique mission kits. Leverage SAFC development efforts. ***FY 2022 Plans:*** Continue integration and testing of SOF unique mission kits, mission payloads, and modifications to the small tactical UAS and ground control station, to include but not limited to; improved capabilities for geo-location, collection of push-to-talk, communications, specialized tagging, tracking, and locating, and enhanced communications relay and work to miniaturize previously developed payloads. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $0.289 million is due to a transfer of EOTAC funding to PE 1160405BB; Project S400, SO Intelligence Systems for FY 2023 and beyond.			
Title: Multi-Mission Tactical Unmanned Aerial System (MTUAS)	3.505	5.748	-
Description: MTUAS are medium tactical systems, between 21 pounds and 55 pounds in weight. Identifies, develops, integrates, and tests SOF-unique mission kits, payloads, aircraft and ground control station modifications. ***FY 2022 Plans:*** Continue integration and testing of SOF-unique mission capabilities to meet new medium tactical UAS requirements, to include but not limited to; signals intelligence gathering, full motion video, geo-location, communications relay, Global Positioning System (GPS) anti-jam technology, and decreased footprint. Continue development and improvement of new platform material solution in order to meet updated requirements. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $5.748 million is due to a transfer of MTUAS funding to PE 1160405BB; Project S400, SO Intelligence Systems for FY 2023 and beyond.			
Title: Group 3 UAS	3.000	6.015	-
Description: Group 3 UAS are systems, between 55 pounds and 1320 pounds in weight. Identifies, develops, integrates, and tests SOF-unique mission kits, payloads and ground control station modifications. ***FY 2022 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2021	FY 2022	FY 2023
Continue development and integration of SOF unique payloads and mission kits for use on the service provided RQ-21A Blackjack UAS. Focus areas in development include integration of signals intelligence payloads, reduction in ground station kit size, and operating independent of GPS. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Decrease of $6.015 million supports a deliberate approach to reinvest in modernization and advance the transition of Special Operations capabilities to support building enduring advantages while implementing the Joint Warfighting Concept.			
Title: Group 4 UAS ***Description:*** Group 4 UAS are large systems that weigh greater than 1,320 pounds and fly higher than flight level 180. Provides for development efforts to identify, develop, integrate, and test SOF-unique mission kits. ***FY 2022 Plans:*** Develop, test, and integrate SOF peculiar emerging technology mission kits, mission payloads, weapons, and modification on MQ-1C Unmanned Aerial Vehicles (UAVs), Ground Control Stations (GCS), and training systems. ***FY 2023 Plans:*** Develops, tests, and integrates SOF peculiar emerging technology mission kits, mission payloads, weapons, and modification on MQ-1C and Long Endurance Aircraft (LEA) UAVs, Ground Control Stations (GCS), and training systems. Begins initial development and integration of LEA mission kits and improved platform capabilities to include longer endurance. ***FY 2022 to FY 2023 Increase/Decrease Statement:*** Increase of $2.262 million is due to the planned development and integration of MQ-1C Airborne and Tactical Mission Networking systems resulting from Architecture, Automation, Autonomy and Interface (A3I) events as well as the initial development and integration of LEA mission kits and improved platform capabilities to include longer endurance.	3.017	1.092	3.354
Accomplishments/Planned Programs Subtotals	17.154	18.006	3.354

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• PROC/0201UMNISR: *Unmanned ISR*	32.695	64.951	41.749	-	41.749	26.997	28.217	52.957	33.676	Continuing	Continuing

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

D. Acquisition Strategy

SAFC acquisition strategy is evolutionary and 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.

EOTACS is an evolutionary acquisition program that delivers, integrates, and qualifies SOF-unique 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).

MTUAS uses evolutionary acquisition solutions that deliver, integrate, and qualify SOF-unique 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.

Group 3 UAS are evolutionary acquisition projects that deliver, integrate, and qualify SOF-unique 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.

Group 4 UAS is an evolutionary acquisition program that develops, tests, and integrates SOF peculiar emerging technology mission kits, mission payloads, weapons, and modifications on MQ-1C UAVs, LEA, GCS, and training systems. Group 4 UAS 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. Proprietary issues with the aircraft and GCS software as well as aircraft modification may require sole source contracting to the original equipment manufacturer. 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command			Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Special Applications for Contingencies (SAFC) Platform/Payload Development and Integration	MIPR	Various; Various : Various	8.421	4.570	Dec 2020	3.157	Dec 2021	-		-		-	0.000	16.148	-
Expeditionary Organic Tactical Airborne Intelligence, Surveillance, and Reconnaissance Capability Set (EOTACS) Payload Integration	MIPR	Various : Various	1.087	0.283	Mar 2021	0.289	Dec 2022	-		-		-	0.000	1.659	-
Multi-Mission Tactical Unmanned Aerial Service (MTUAS)/Payloads Development and Integration	MIPR	Various : Various	18.076	2.136	Jun 2021	3.505	Feb 2022	-		-		-	0.000	23.717	-
Group 3 UAS Platform/ Payload Development and Integration	MIPR	Various : Various	-	-		2.076	Nov 2021	-		-		-	0.000	2.076	-
Group 3 UAS Platform/ Payload Development and Integration (OCO)	MIPR	Various : Various	6.859	1.194	Mar 2021	-		-		-		-	0.000	8.053	-
Group 4 UAS Platform/ Payloads Development and Integration	Various	Various : Various	18.713	2.434	Mar 2021	0.885	Mar 2022	2.869	Mar 2023	-		2.869	Continuing	Continuing	-
Prior Year Effort	Various	Various : Various	32.428	-		-		-		-		-	0.000	32.428	-
Prior Year Effort - Congressional Add	Various	Various : Various	11.000	-		-		-		-		-	0.000	11.000	-
		Subtotal	96.584	10.617		9.912		2.869		-		2.869	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SAFC Platform/Payload Integration	MIPR	Various : Various	2.132	0.500	Jan 2021	0.213	Dec 2021	-		-		-	0.000	2.845	-
MTUAS Platform/Payload Support	MIPR	Various : Various	1.418	0.976	Jan 2021	1.618	Jan 2022	-		-		-	0.000	4.012	-
Group 3 UAS Platform/ Payload Mission Kits (OCO)	MIPR	Various : Various	2.003	1.276	Mar 2021	-		-		-		-	0.000	3.279	-
Group 3 UAS Platform/ Payload Mission Kits	MIPR	Various : Various	-	-		2.000	Apr 2022	-		-		-	0.000	2.000	-
		Subtotal	5.553	2.752		3.831		-		-		-	0.000	12.136	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SAFC Sensor Testing, Evaluation and Demonstration	MIPR	Various; Various : Various	12.998	1.279	Dec 2020	0.965	Dec 2021	-		-		-	0.000	15.242	-
MTUAS Platform/Payload Test and Evaluation	MIPR	Various : Various	1.577	0.393	Dec 2021	0.625	Mar 2022	-		-		-	0.000	2.595	-
Group 3 UAS Test and Evaluation	MIPR	Various Vendors During Integrations : Various : Various	-	-		1.939	Jan 2022	-		-		-	0.000	1.939	-
Group 3 UAS Test and Evaluation (OCO)	MIPR	Various Vendors During Integrations : Various	1.138	0.530		-		-		-		-	0.000	1.668	-
Group 4 UAS Test and Evaluation	Various	Various : Various Vendors During Integration	0.675	0.583	Mar 2021	0.207	Mar 2022	0.485	Mar 2023	-		0.485	Continuing	Continuing	-
Prior Year	Various	Various : Various	10.593	-		-		-		-		-	0.000	10.593	-
		Subtotal	26.981	2.785		3.736		0.485		-		0.485	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2021 Cost	FY 2021 Award Date	FY 2022 Cost	FY 2022 Award Date	FY 2023 Base Cost	FY 2023 Base Award Date	FY 2023 OCO Cost	FY 2023 OCO Award Date	FY 2023 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SAFC Sensor Testing, Evaluation and Demonstration Management	MIPR	Various : Various	4.970	1.000	Dec 2020	0.527	Mar 2021	-		-		-	Continuing	Continuing	-
Prior Year Effort	Various	Various : Various	7.428	-		-		-		-		-	0.000	7.428	-
		Subtotal	12.398	1.000		0.527		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	141.516	17.154		18.006		3.354		-		3.354	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Special Applications for Contingencies (SAFC) Schedule

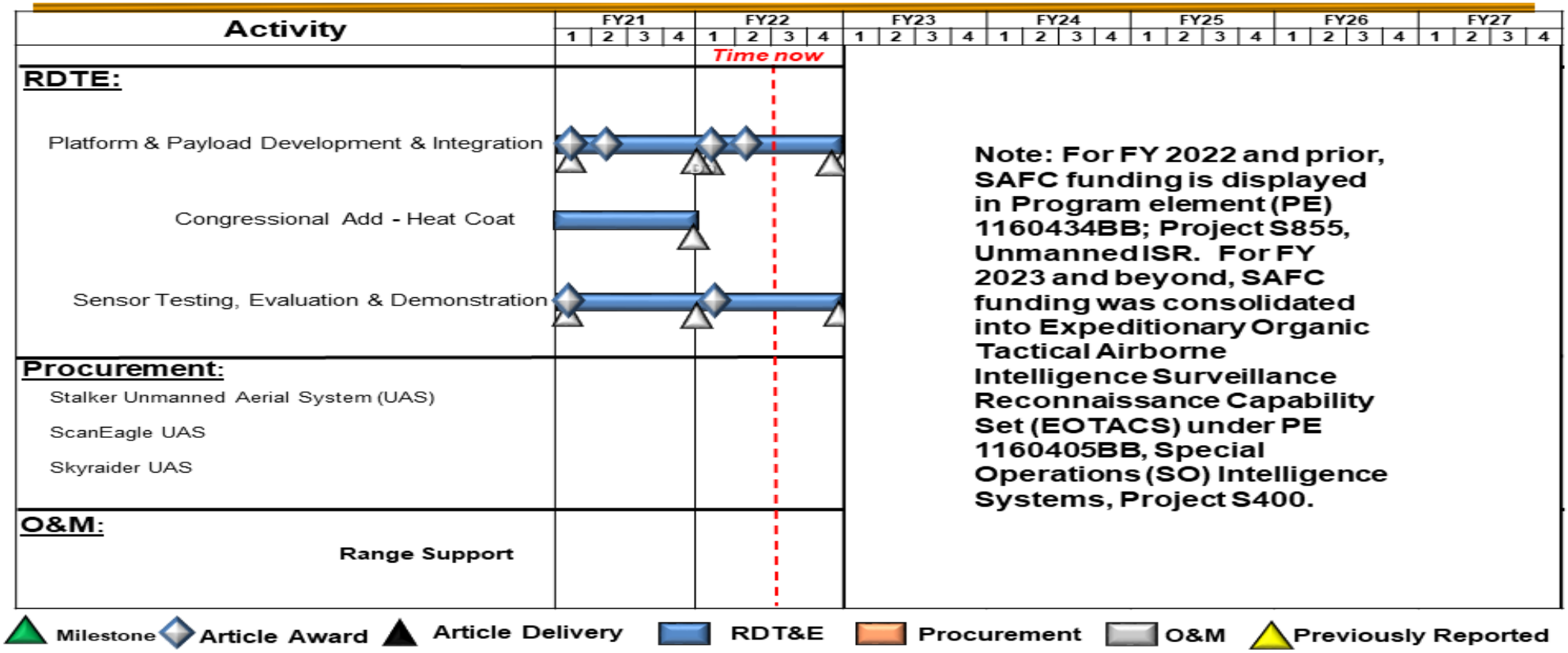

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Expeditionary Organic Tactical Airborne Intelligence Surveillance Reconnaissance Capability Set (EOTACS) Schedule

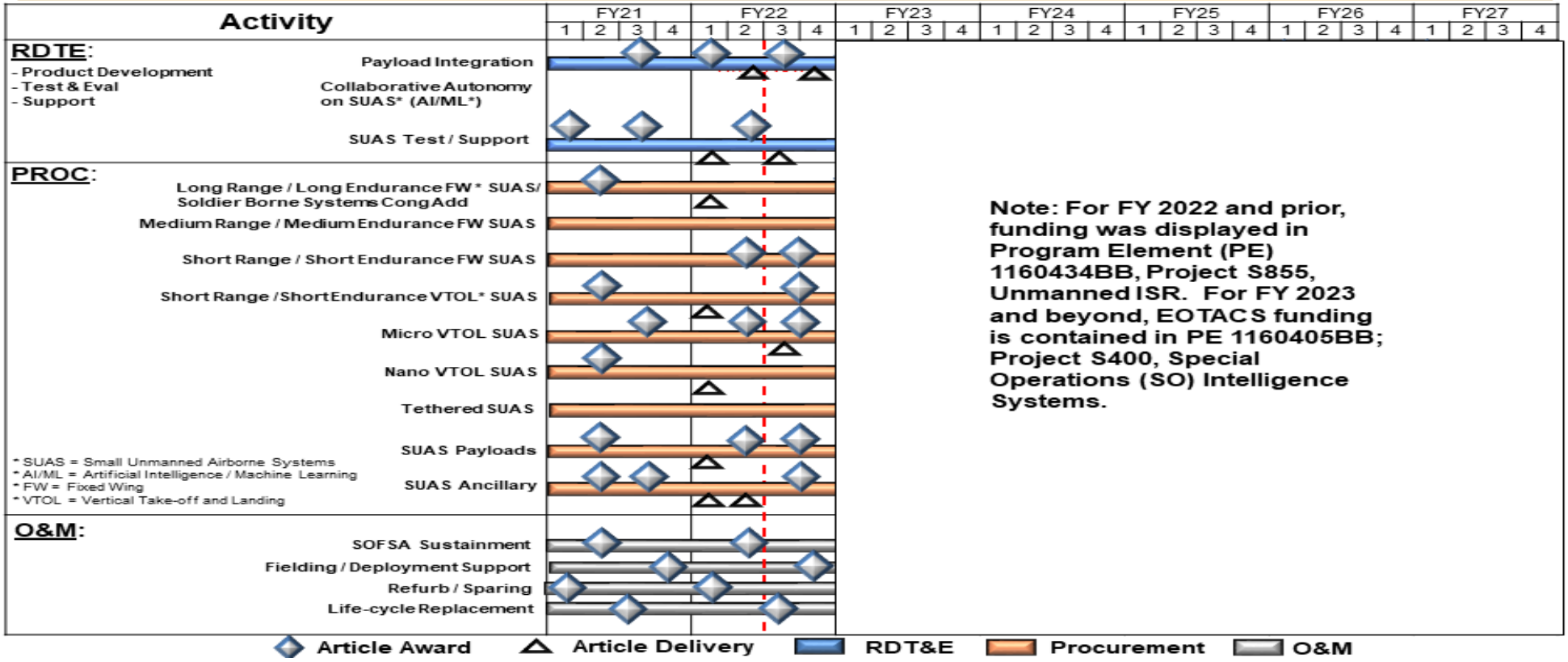

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Multi-Mission Tactical Unmanned Aerial Systems (MTUAS) Schedule

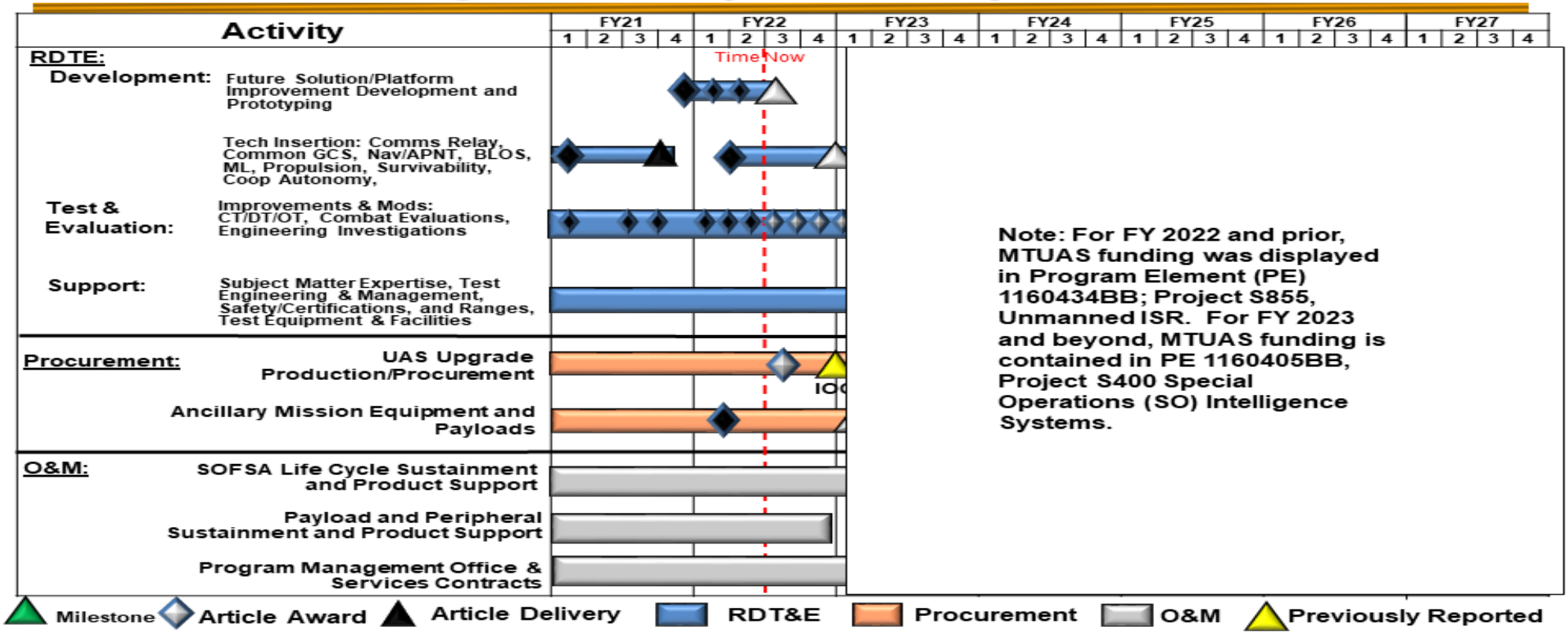

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Group 3 Unmanned Aerial Systems (UAS) Schedule

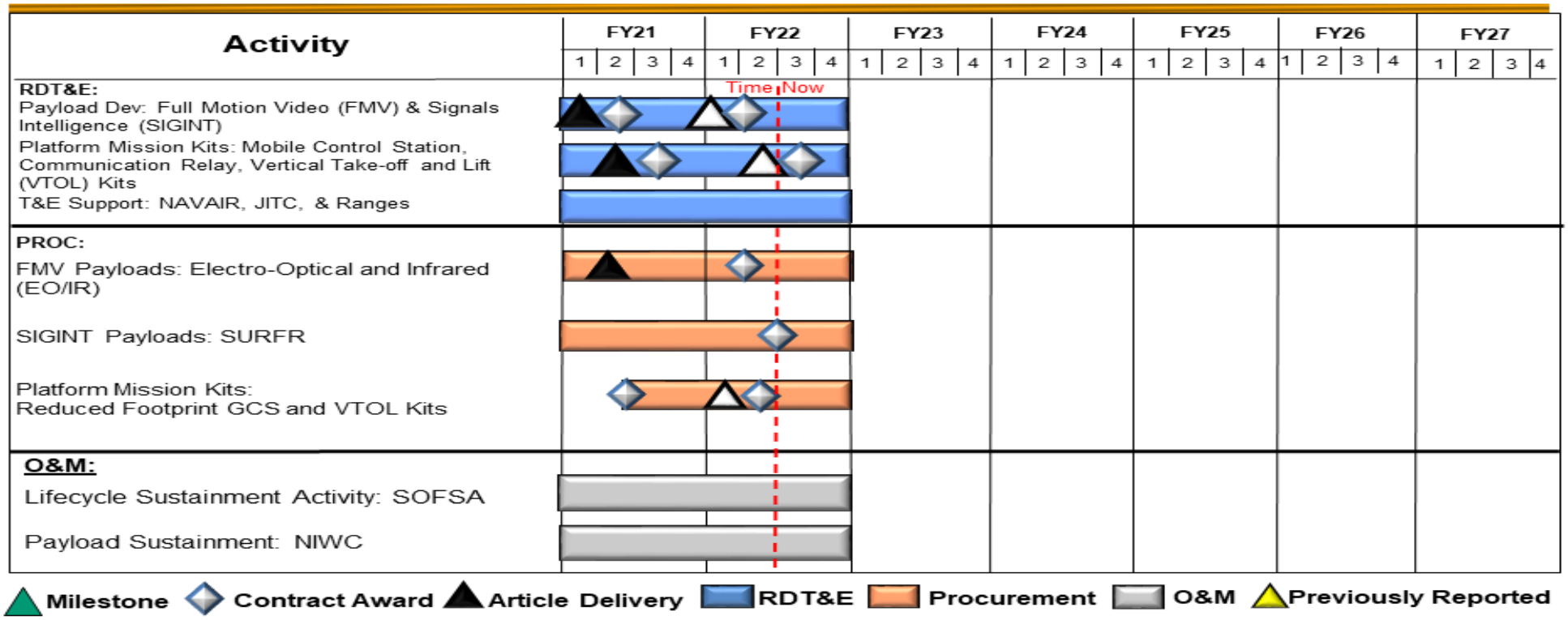

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Group 4 UAS: MQ-1C Schedule

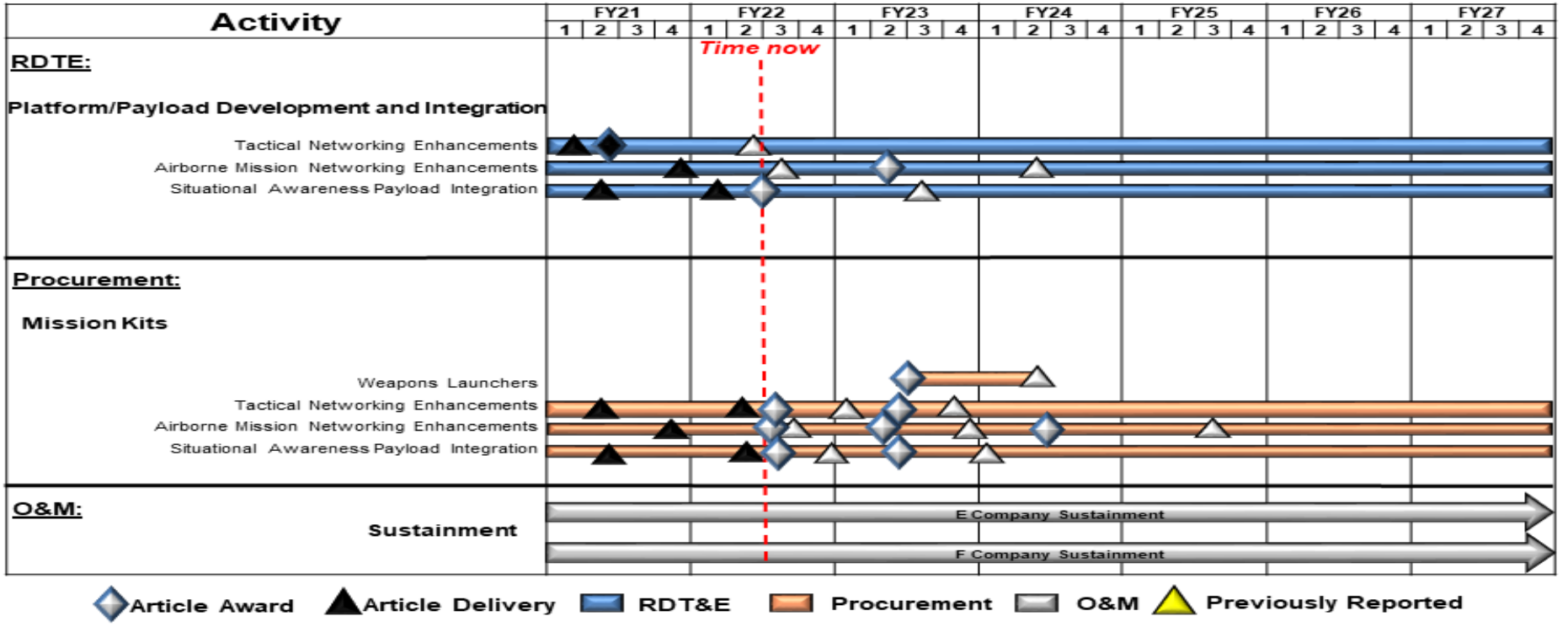

Exhibit R-4, RDT&E Schedule Profile: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Group 4 UAS: LEA Schedule

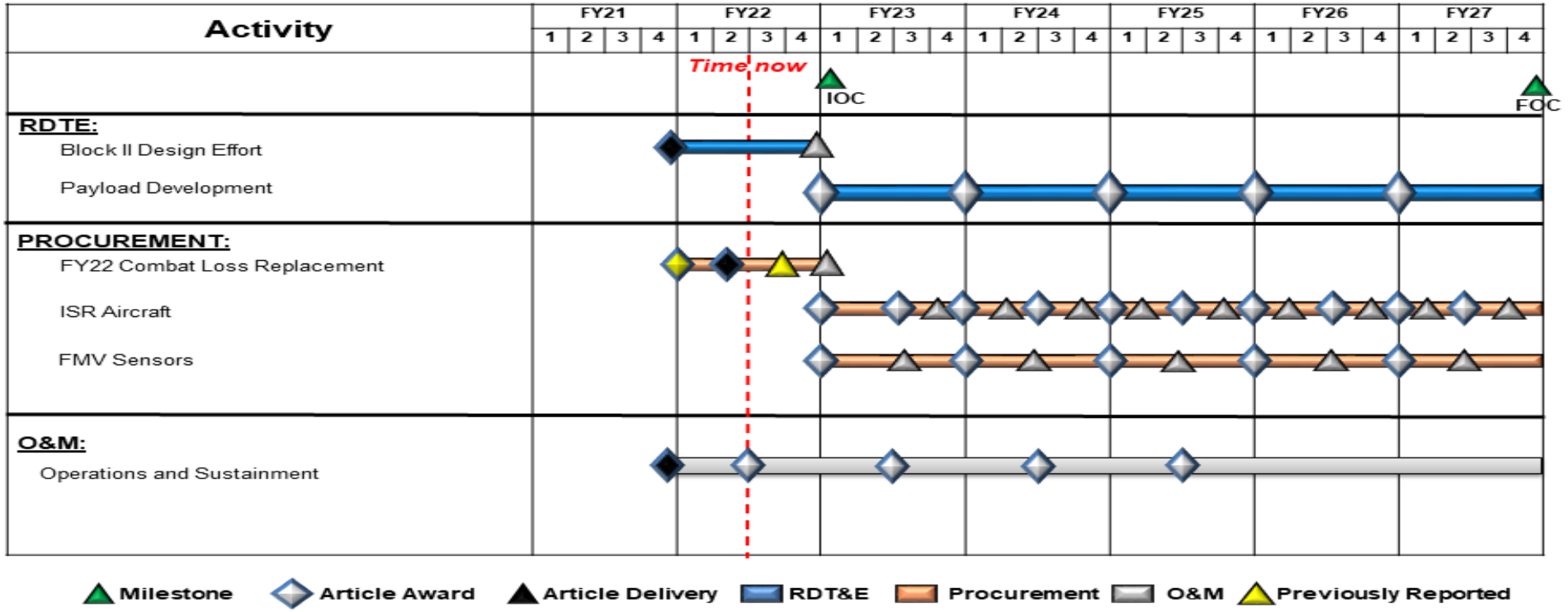

Exhibit R-4A, RDT&E Schedule Details: PB 2023 United States Special Operations Command		Date: April 2022
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1160434BB / *Unmanned ISR*	**Project (Number/Name)** S855 / *Unmanned ISR*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Special Application for Contingencies (SAFC)				
Platform and Payload Product Development, Support, and Management	1	2021	4	2022
Anti-Icing Development on TigerShark (Congressional Add)	1	2021	4	2021
Sensor Testing, Evaluation, and Demonstration	1	2021	4	2022
Group 1 Unmanned Aerial System (UAS)/Expeditionary Organic Tactical Airborne ISR Capability Set (EOTACS)				
Payload Integration; Test Range Support	1	2021	4	2022
Group 2 Multi-Mission Tactical Unmanned Aerial System (MTUAS)				
Platform/Payload Development and Integration	1	2021	4	2022
Platform/Payload Test & Evaluation	1	2021	4	2022
Group 3 UAS				
Payload Developmment	1	2021	4	2022
Platform/Mission Kits Development and Integration	1	2021	4	2022
Platform/Payload Test & Evaluation	1	2021	4	2022
Group 4 UAS				
Tactical Networking Enhancements	1	2021	4	2027
Airborne Mission Networking Enhancements	1	2021	4	2027
Situational Awareness Sensor Integration	1	2021	4	2027
Long Endurance Aircraft Block II Design Effort	4	2021	4	2022
Long Endurance Aircraft Payload Development	1	2023	4	2027