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

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	151.255	20.489	63.065	14.000	-	14.000	29.688	34.851	29.427	39.340	Continuing	Continuing
S851: <i>MQ-9 Unmanned Aerial Vehicle (UAV)</i>	151.255	20.489	63.065	14.000	-	14.000	29.688	34.851	29.427	39.340	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	21.265	19.065	0.000	-	0.000
Current President's Budget	20.489	63.065	14.000	-	14.000
Total Adjustments	-0.776	44.000	14.000	-	14.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	44.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.776	-			
• Adjustments to Budget Year	-	-	14.000	-	14.000

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

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

Congressional Add: *Speed Loader Agile Pod*

Congressional Add: *Self-Protection Pods*

Congressional Add Subtotals for Project: S851

	FY 2021	FY 2022
	-	10.000
	-	34.000
	-	44.000

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Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2021	FY 2022
Congressional Add Totals for all Projects	-	44.000

Change Summary Explanation

Funding:

FY 2021: Net decrease of -\$0.776 million is due to a reprogramming of funds to the congressionally mandated Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) programs.

FY 2022: Net increase of \$44.000 million is due a to Congressional Add for speed loader agile pod (\$10.000 million) and a Congressional Add for self-protection pods (\$34.000 million).

FY 2023: Funding increase of \$14.000 million reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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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 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	Project (Number/Name) S851 / MQ-9 Unmanned Aerial Vehicle (UAV)
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	151.255	20.489	63.065	14.000	-	14.000	29.688	34.851	29.427	39.340	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 (SOF) peculiar 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 National Defense Strategy (NDS).

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

	FY 2021	FY 2022	FY 2023
Title: MQ-9 Unmanned Aerial Vehicles (UAVs)	20.489	19.065	14.000
Description: Identifies, develops, integrates, and tests SOF-peculiar mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, GCSs, and training systems.			
FY 2022 Plans: Develop, test, and integrate SOF-peculiar emerging technology mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, GCSs, and training systems.			
FY 2023 Plans: Develops, tests, and integrates SOF-peculiar emerging technology mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, GCSs, and training systems.			
FY 2022 to FY 2023 Increase/Decrease Statement: Decrease of \$5.065 million supports a deliberate approach to reinvest in modernization and advance the transition of special operations capabilities to support integrated deterrence and implement the joint warfighting concept.			
Accomplishments/Planned Programs Subtotals	20.489	19.065	14.000

	FY 2021	FY 2022
Congressional Add: Speed Loader Agile Pod	-	10.000

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	FY 2021	FY 2022
FY 2022 Plans: The Speed Loader Agile Pod (SLAP) will provide increased weapons carrying capability within the Common Launch Tube (CLT) family of systems. The SLAP will allow the MQ-9 to carry four weapons per pylon. Funds allow for the integration and testing of the SLAP capability on the SOF MQ-9 weapon system.		
Congressional Add: Self-Protection Pods FY 2022 Plans: Provide a self-protection capability on the MQ-9. This capability facilitates access and operation in denied or non-permissive airspace. Funds provide 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.	-	34.000
Congressional Adds Subtotals	-	44.000

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/1108MQ9: MQ-9 Unmanned Aerial Vehicle	6.746	8.020	9.000	-	9.000	17.684	19.603	19.211	27.360	-	-

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 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.

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

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-9 Unmanned Aerial Vehicles (UAVs), Ground Control Stations (GCS), and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	94.159	16.992	Feb 2021	15.176	Feb 2022	12.000	Feb 2023	-		12.000	Continuing	Continuing	-
MQ-9 UAVs, GCS, and Training Systems	SS/ Various	Raytheon : McKinney, TX	12.693	1.496	Feb 2021	1.361	Feb 2022	1.000	Feb 2023	-		1.000	Continuing	Continuing	-
Speed Loader Agile Pod (Congressional Add)	SS/TBD	Air Force Research Lab (AFRL) : Huntsville, AL	-	-		4.250	Jul 2022	-		-		-	Continuing	Continuing	-
Self Protection Pods (Congressional Add)	SS/CPFF	General Atomics : Poway, CA	-	-		29.000	Jul 2022	-		-		-	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	15.891	-		-		-		-		-	0.000	15.891	-
Subtotal			122.743	18.488		49.787		13.000		-		13.000	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

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MQ-9 UAVs, GCS, and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	23.212	2.001	Feb 2021	2.528	Feb 2022	1.000	Feb 2023	-		1.000	Continuing	Continuing	-
Speed Loader Pod (Congressional Add)	SS/TBD	General Atomics : Poway, CA	-	-		5.750	Jul 2022	-		-		-	Continuing	Continuing	-
Self Protection Pods (Congressional Add)	SS/CPFF	General Atomics : Poway, CA	-	-		5.000	Jul 2022	-		-		-	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	5.300	-		-		-		-		-	0.000	5.300	-
Subtotal			28.512	2.001		13.278		1.000		-		1.000	Continuing	Continuing	N/A

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

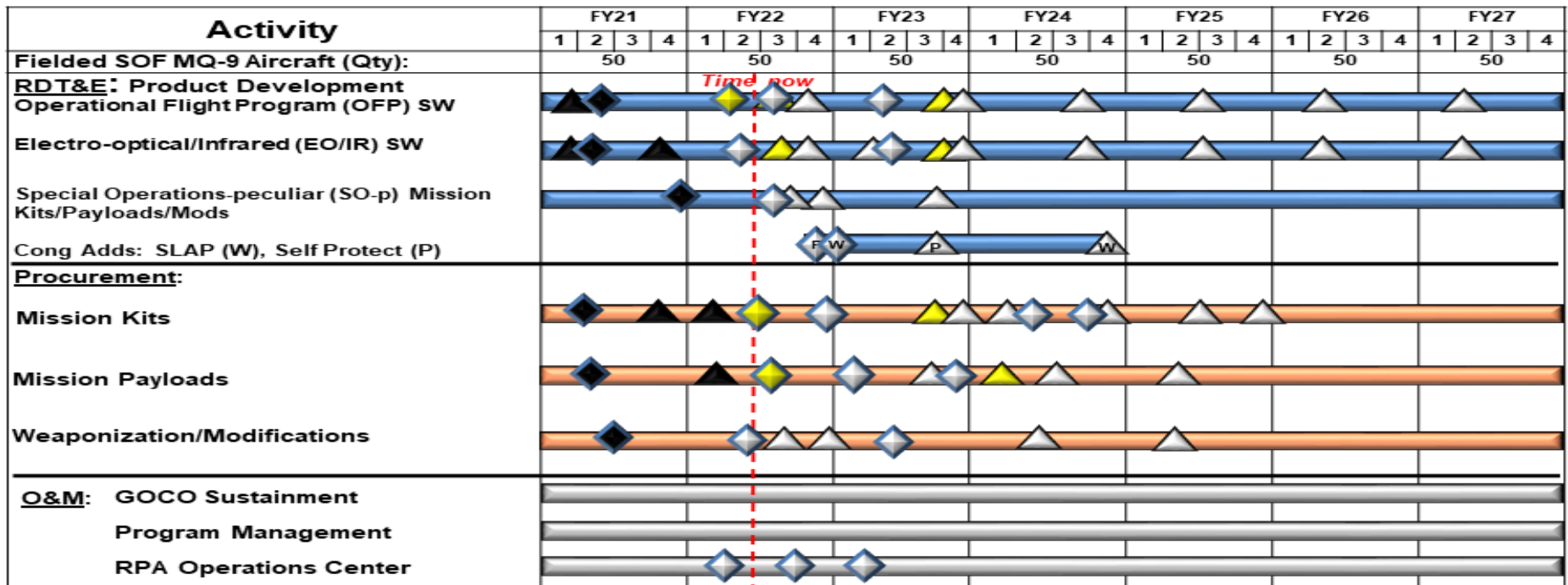
Date: April 2022

Appropriation/Budget Activity
0400 / 7

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

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

MALET – MQ9 Schedule



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

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MQ-9 Unmanned Aerial Vehicles (UAVs), Ground Control Stations (GCSs), and Training Systems Product Development</i>				
Operational Flight Program (OFP) Software (SW)	1	2021	4	2027
Electro-optical/Infrared (EO/IR) SW	1	2021	4	2027
Special Operations Forces-peculiar (SOF-p) Mission Kits/Payloads/Mods	1	2021	4	2027
Speed Loader Agile Pod and Self Protection Pods (Congressional Adds)	4	2022	4	2024