

**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 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)
---	---

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>	<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	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

**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 I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)
---	---

<b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b>	<b>FY 2022</b>	<b>FY 2023</b>
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.

**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 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)				<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)			
<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>
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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<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

**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 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)

	FY 2022	FY 2023
<b>Congressional Add:</b> Speed Loader Agile Pod <b>FY 2022 Accomplishments:</b> 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 <b>FY 2022 Accomplishments:</b> 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 <b>FY 2023 Plans:</b> 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)**

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/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.

**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 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)
--	---	---

<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	-

**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 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	<b>Project (Number/Name)</b> S851 / MQ-9 Unmanned Aerial Vehicle (UAV)
--	---	---

<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 (T&E)		Services : San Diego, CA													
MQ-9 UAVs, GCS, and Training Systems Live Fire T&E	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	-	-		-		1.500	Feb 2024	-		1.500	Continuing	Continuing	-
Speed Loader Pod Developmental T&E (Congressional Add)	SS/TBD	General Atomics : Poway, CA	-	5.385	Jul 2022	-		-		-		-	Continuing	Continuing	-
Self Protection Pods Developmental T&E (Congressional Add)	SS/CPFF	General Atomics : Poway, CA	-	5.000	Jul 2022	-		-		-		-	Continuing	Continuing	-
Lightweight Open Architecture Pod Developmental T&E (Congressional Add)	SS/TBD	General Atomics : Poway, CA	-	-		3.000	Jul 2023	-		-		-	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	5.300	-		-		-		-		-	0.000	5.300	-
<b>Subtotal</b>			30.513	12.913		4.000		3.000		-		3.000	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>		171.524	60.763	27.340	37.188	-		37.188	Continuing	Continuing	N/A

**Remarks**

**UNCLASSIFIED**

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

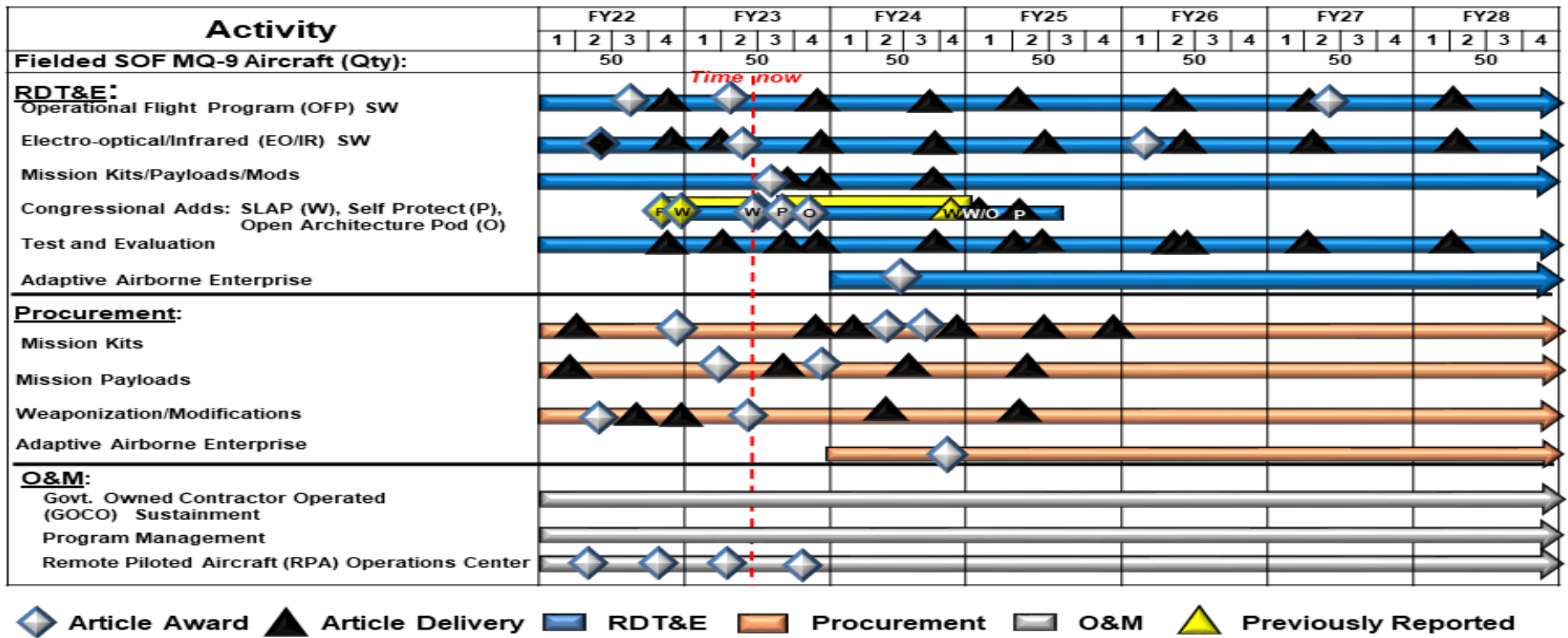
Date: March 2023

Appropriation/Budget Activity  
0400 / 7

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

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

# MALET – MQ9 Schedule



**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 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