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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 United States Special Operations Command **Date:** March 2019

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	80.453	33.106	18.403	20.697	-	20.697	21.265	19.446	19.847	20.310	Continuing	Continuing
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	80.453	33.106	18.403	20.697	-	20.697	21.265	19.446	19.847	20.310	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. USSOCOM is designated as the DOD lead for planning, synchronizing, and as directed, executing global operations against terrorist networks. 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 (ISR&T) Acquisition, and Strike.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	37.863	18.403	20.793	-	20.793
Current President's Budget	33.106	18.403	20.697	-	20.697
Total Adjustments	-4.757	0.000	-0.096	-	-0.096
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-3.500	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.257	-			
• Other Adjustments	-	-	-0.096	-	-0.096

Change Summary Explanation

Funding:

FY 2018: Decrease of -\$4.757 million is due to a transfer of -\$1.257 million to Small Business Innovative Research/Small Business Technology Transfer programs and -\$3.500 million for congressional directed reduction.

FY 2019: None.

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development	PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)	
FY 2020: Decrease of -\$0.096 million for minor programmatic adjustments.		
Schedule: None.		
Technical: None.		

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Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command										Date: March 2019		
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)			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	80.453	33.106	18.403	20.697	-	20.697	21.265	19.446	19.847	20.310	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
As the supported combatant command in global operations, 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 (ISR&T) Acquisition and Strike.												
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: MQ-9 UAV								33.106	18.403	20.697	-	20.697
Description: Identifies, develops, integrates, and tests Special Operations Forces (SOF)-peculiar mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, Ground Control Stations (GCSs), and training systems.												
FY 2019 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 2020 Base 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 2019 to FY 2020 Increase/Decrease Statement: Increase of \$2.294 million due to accelerating aircraft software releases from every 10-12 months to every 6-8 months.												
Accomplishments/Planned Programs Subtotals								33.106	18.403	20.697	-	20.697

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Exhibit R-2A, RDT&E Project Justification: PB 2020 United States Special Operations Command										Date: March 2019	
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)			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• PROC/1108MQ9: MQ-9 Unmanned Aerial Vehicle	41.440	24.621	5.338	1.900	7.238	7.346	7.116	7.126	11.150	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 Operational Flight Program (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 considerations dictate sole source contracts. MQ-9 UAV leverages service common Contractor Logistics Support (CLS) contracts for aircraft and ancillary equipment sustainment.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 United States Special Operations Command												Date: March 2019			
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Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	36.804	27.514	Jun 2018	14.698	Jun 2019	16.538	Apr 2020	-		16.538	Continuing	Continuing	-
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	Raytheon : McKinney, TX	7.445	2.500	Jul 2018	1.292	Jul 2019	1.456	Apr 2020	-		1.456	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	15.900	-		-		-		-		-	0.000	15.900	-
Subtotal			60.149	30.014		15.990		17.994		-		17.994	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	15.004	3.092	Jun 2018	2.413	Jun 2019	2.703	Apr 2020	-		2.703	Continuing	Continuing	-
Prior Years Completed Projects	Various	Various : Various	5.300	-		-		-		-		-	0.000	5.300	-
Subtotal			20.304	3.092		2.413		2.703		-		2.703	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			80.453	33.106		18.403		20.697		-		20.697	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 United States Special Operations Command

Date: March 2019

Appropriation/Budget Activity

0400 / 7

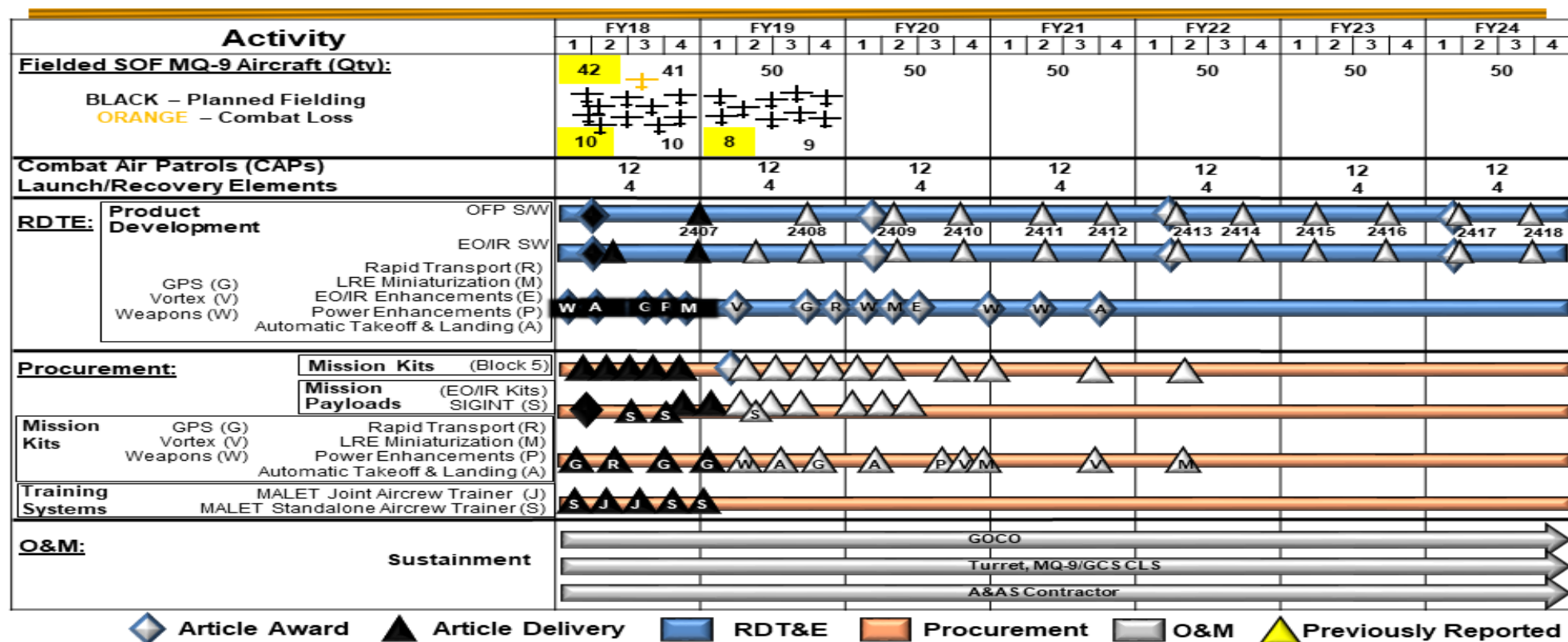
R-1 Program Element (Number/Name)

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

Project (Number/Name)

S851 / MQ-9 Unmanned Aerial Vehicle (UAV)

MALET MQ-9 Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2020 United States Special Operations Command			Date: March 2019
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)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MQ-9 UAVs, Ground Control Stations (GCSs), and Training Systems Product Development</i>				
Operational Flight Program Software (SW)	1	2018	4	2024
Electro-optical/Infrared (EO/IR) Software (SW)	1	2018	4	2024
Weapons (W)	1	2018	2	2022
Global Positioning System (G)	3	2018	4	2020
Automated Takeoff and Landing (A)	1	2018	4	2022
Vortex Integration (V)	2	2019	3	2020
Long Range Endurance Miniaturization (M)	4	2018	2	2021
Power Enhancements (P)	3	2018	3	2019
EO/IR Enhancements (E)	2	2020	2	2021
Rapid Transport (R)	4	2019	4	2020