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**Exhibit R-2, RDT&E Budget Item Justification:** FY 2018 United States Special Operations Command **Date:** May 2017

<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development	<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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	41.910	21.388	17.804	37.863	-	37.863	14.259	14.528	14.819	15.115	Continuing	Continuing
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	41.910	21.388	17.804	37.863	-	37.863	14.259	14.528	14.819	15.115	Continuing	Continuing

## A. Mission Description and Budget Item Justification

This program element identifies, develops, integrates, and tests Special Operations Forces (SOF)-unique mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, ground control stations, and training systems as a component of the Medium Altitude Long Endurance Tactical program. USSOCOM is designated as the DOD lead for planning, synchronizing, and as directed, executing Overseas Contingency Operations (OCO) 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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Previous President's Budget	22.151	17.804	17.863	-	17.863
Current President's Budget	21.388	17.804	37.863	-	37.863
Total Adjustments	-0.763	0.000	20.000	-	20.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.763	-			
• Other	-	-	20.000	-	20.000

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

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

Congressional Add: MQ-9 UAV

Congressional Add Subtotals for Project: S851

Congressional Add Totals for all Projects

FY 2016	FY 2017
4.000	-
4.000	-
4.000	-

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<u>Change Summary Explanation</u> Funding:  FY 2016: Decrease of -\$0.763 million is due to a transfer of funds to Small Business Innovative Research/Small Business Technology Transfer programs.  FY 2017: None.  FY 2018: Increase of \$20.000 million is to support MQ-9 capability enhancements for mission kits, mission payloads, weapons, and modifications.  Schedule: None.  Technical: None.		

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Exhibit R-2A, RDT&E Project Justification: FY 2018 United States Special Operations Command										Date: May 2017			
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
S851: MQ-9 Unmanned Aerial Vehicle (UAV)	41.910	21.388	17.804	37.863	-	37.863	14.259	14.528	14.819	15.115	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			
A. Mission Description and Budget Item Justification													
This project identifies, develops, integrates, and tests Special Operations Forces (SOF) - unique mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, ground control stations, and training systems. As the supported combatant command in Overseas Contingency Operations (OCO), 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. This project received congressional add in FY 2016.													
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
Title: MQ-9 UAV								17.388	17.804	37.863	-	37.863	
FY 2016 Accomplishments: Developed, tested, and integrated SOF-unique mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, ground control stations, and training systems.													
FY 2017 Plans: Develop, test, and integrate SOF-unique emerging technology mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, ground control stations, and training systems.													
FY 2018 Base Plans: Develops, tests, and integrates SOF-unique emerging technology mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, ground control stations, and training systems.													
Accomplishments/Planned Programs Subtotals								17.388	17.804	37.863	-	37.863	
								FY 2016	FY 2017				
Congressional Add: MQ-9 UAV								4.000	-				
FY 2016 Accomplishments: Developed, tested, and integrated SOF-unique mission kits, mission payloads, weapons and modifications on MQ-9 UAVs, ground control stations, and training systems.													
Congressional Adds Subtotals								4.000	-				

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Exhibit R-2A, RDT&E Project Justification: FY 2018 United States Special Operations Command										Date: May 2017	
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 2018</u>	<u>FY 2018</u>	<u>FY 2018</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Complete</u>	<u>Total Cost</u>
• PROC/1108MQ9: MQ-9 Unmanned Aerial Vehicle	17.226	54.033	21.660	19.780	41.440	24.835	5.411	5.519	5.629	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
MQ-9 UAV is an evolutionary acquisition program that identifies, develops, tests and integrates SOF-unique mission kits, mission payloads, weapons, and modifications on MQ-9 UAVs, ground control stations, and training systems to increase the Intelligence, Surveillance, Reconnaissance, and Targeting acquisition and strike capabilities of SOF. Proprietary issues with operational flight program software, sensor operating software, and aircraft modification considerations dictate sole source contracts.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 United States Special Operations Command												Date: May 2017			
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)					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	16.033	10.350	Jun 2016	10.954	Jun 2017	30.669	Jun 2018	-		30.669	Continuing	Continuing	-
MQ-9 UAVs, Ground Control Stations, and Training Systems	SS/ Various	Raytheon : McKinney, TX	2.500	2.500	Jul 2016	2.500	Jul 2017	2.500	Jul 2018	-		2.500	Continuing	Continuing	-
MQ-9 UAVs, Ground Control Stations, and Training Systems (Congressional Add)	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	-	3.000	Jun 2016	-		-		-		-	0.000	3.000	-
Prior Years Completed Projects	Various	Various : Various	12.900	-		-		-		-		-	0.000	12.900	-
Subtotal			31.433	15.850		13.454		33.169		-		33.169	-	-	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	6.177	4.538	Jun 2016	4.350	Jun 2017	4.694	Jun 2018	-		4.694	Continuing	Continuing	-
MQ-9 UAVs, Ground Control Stations, and Training Systems Overseas Contingency Operations (OCO)	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	4.300	-		-		-		-		-	0.000	4.300	-
MQ-9 UAVs, Ground Control Stations, and Training Systems (Congressional Add)	SS/ Various	General Atomics Aeronautical Services : San Diego, CA	-	1.000	Jun 2016	-		-		-		-	0.000	1.000	-
Subtotal			10.477	5.538		4.350		4.694		-		4.694	-	-	-

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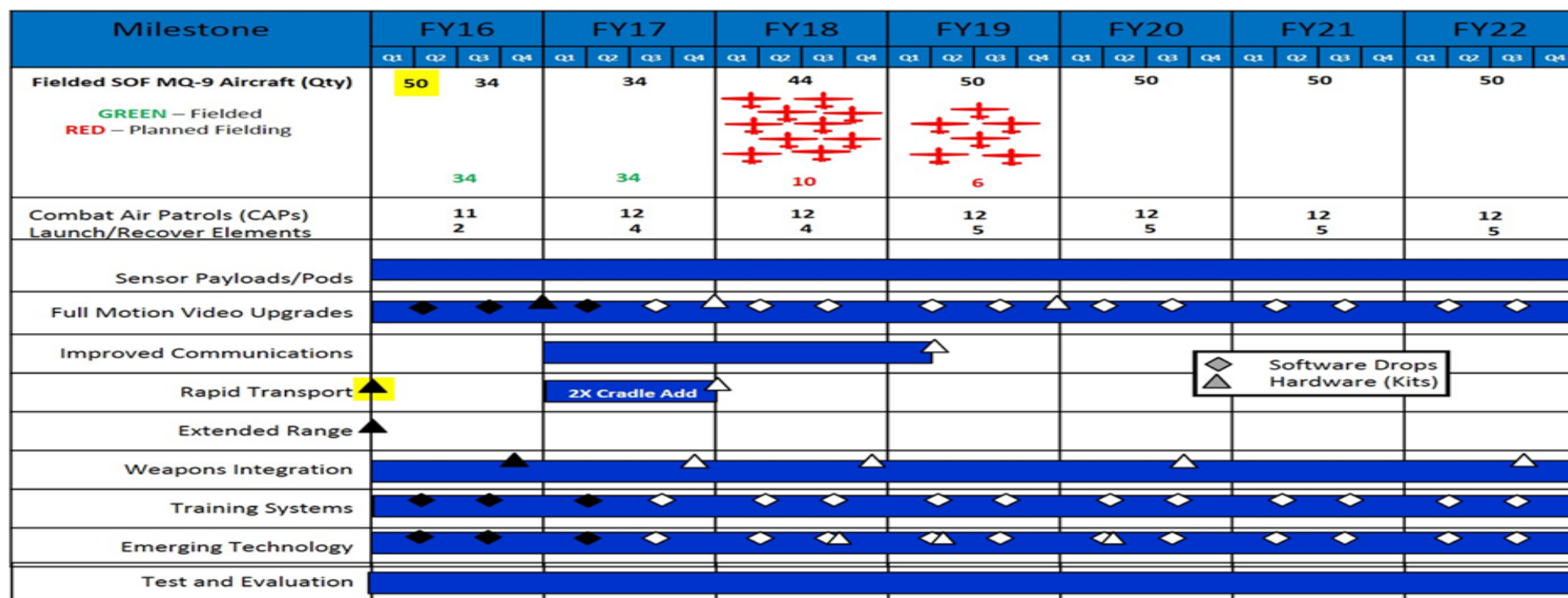
Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 United States Special Operations Command											Date: May 2017				
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1105219BB / MQ-9 Unmanned Aerial Vehicle (UAV)					Project (Number/Name) S851 / MQ-9 Unmanned Aerial Vehicle (UAV)					
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			41.910	21.388		17.804		37.863		-		37.863	-	-	-

Remarks

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: FY 2018 United States Special Operations Command</b>						<b>Date: May 2017</b>	
<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)	

## MALET MQ-9 Schedule



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> FY 2018 United States Special Operations Command			<b>Date:</b> May 2017
<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><i>MQ-9 UAVs, Ground Control Stations, and Training Systems</i></b>				
Sensor Payloads/Pods	1	2016	4	2022
Full Motion Video Upgrades	1	2016	4	2022
Improved Communications	1	2017	2	2019
Rapid Transport	1	2016	2	2018
Extended Range	1	2016	4	2016
Weapons Integration	1	2016	4	2022
Training Systems	1	2016	4	2022
Emerging Technology	1	2016	4	2022
Test and Evaluation	1	2016	4	2022