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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 United States Special Operations Command	Date: May 2017
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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 1160434BB / <i>Unmanned ISR</i>											
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	0.000	0.000	22.117	31.766	3.000	34.766	28.060	28.552	28.964	29.534	Continuing	Continuing
S855: <i>Unmanned ISR</i>	0.000	0.000	22.117	31.766	3.000	34.766	28.060	28.552	28.964	29.534	Continuing	Continuing

A. Mission Description and Budget Item Justification

NOTE: Beginning in FY 2017 Unmanned ISR represents the approved consolidation of Special Applications for Contingencies Program Element (PE) 0304210BB; MQ-1 Unmanned Aerial Vehicle (UAV), PE 0305219BB; MQ-8, PE 0305231BB; RQ-11, UAV PE 1105232BB; and RQ-7 UAV, PE 1105233BB.

This program element is part of the Military Intelligence Program (MIP). Develops and deploys special capabilities to perform Intelligence, Surveillance, and Reconnaissance (ISR) for deployed Special Operations Forces (SOF) using non-traditional means. USSOCOM has been designated as the DOD lead for planning, synchronizing, and as directed, executing global operations against terrorist networks and targets. 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 Intelligence, Surveillance, Reconnaissance, and Targeting (ISR&T) capabilities for SOF.

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. 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 provides a mechanism for SOF user combat evaluation of emerging sensor technologies.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	22.117	24.766	0.000	24.766
Current President's Budget	0.000	22.117	31.766	3.000	34.766
Total Adjustments	0.000	0.000	7.000	3.000	10.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other	-	-	7.000	3.000	10.000

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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	
<p><u>Change Summary Explanation</u></p> <p>Funding:</p> <p>FY 2016: None.</p> <p>FY 2017: None.</p> <p>FY 2018: Increase of \$10.000 million is for SOF user combat evaluation of emerging sensor technologies (\$4.000 million), sensor testing and evaluation (\$3.000 million), and an increase for Overseas Contingency Operations for SOF Peculiar Payloads (\$3.000 million).</p> <p>Schedule: None.</p> <p>Technical: None.</p>		

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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 1160434BB / <i>Unmanned ISR</i>				Project (Number/Name) S855 / <i>Unmanned ISR</i>			
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
S855: <i>Unmanned ISR</i>	0.000	0.000	22.117	31.766	3.000	34.766	28.060	28.552	28.964	29.534	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

NOTE: Beginning in FY 2017, Unmanned ISR represents the approved consolidation of Special Applications for Contingencies Program Element (PE) 0304210BB; MQ-1 Unmanned Aerial Vehicle (UAV), PE 0305219BB; MQ-8 PE 0305231BB; RQ-11 UAV PE 1105232BB; and RQ-7 UAV, PE 1105233BB.

This project is part of the Military Intelligence Program (MIP). Develops and deploys special capabilities to perform intelligence, surveillance, and reconnaissance (ISR) for deployed Special Operations Forces (SOF) using non-traditional means.

Special Applications for Contingencies (SAFC). Provides for efforts to develop and integrate Unmanned Aerial Systems (UAS) payloads to advance ISR capabilities to 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. It provides a mechanism for SOF user combat evaluation of emerging sensor technologies. 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.

Group 1 UAS. Group 1 UAS are small tactical systems, less than 20 pounds in weight. Provides for development efforts to identify, develop, integrate, and test SOF-unique mission kits.

Group 2 UAS. Group 2 UAS are medium tactical systems, between 21 pounds and 55 pounds in weight. Provides for development efforts to identify, develop, integrate, and test SOF-unique mission kits.

Group 3 UAS. Group 3 UAS are large tactical systems that weigh less than 1,320 pounds and fly less than flight level 180.

Group 4 UAS. 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.

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

	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: SAFC	-	17.875	26.499	3.000	29.499
FY 2017 Plans:					

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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 1160434BB / Unmanned ISR		Project (Number/Name) S855 / Unmanned ISR		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Continue development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short-notice requirements. Continue to evaluate unique sensor technologies, persistent stare and quick reaction systems. FY 2018 Base Plans: Continues development and combat evaluation of selected sensor delivery platforms and mounted or deliverable ISR capabilities for global contingencies including short-notice requirements. Continues to evaluate unique sensor technologies, persistent stare and quick reaction systems. FY 2018 OCO Plans: Develops various advanced payloads to support ISR payload requirements in deployed OCO theaters and in support of counterterrorism execution order missions. Service payloads insufficient for precision application of SOF mission sets.						
Title: Group 1 UAS (Previously justified as Small Unmanned Aerial System) FY 2017 Plans: Continue to integrate, and test 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 2018 Base Plans: Continues to integrate, and test 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.		-	0.124	0.355	-	0.355
Title: Group 2 UAS (Previously justified as Multi-mission Tactical Unmanned Aerial System) FY 2017 Plans: Continue to integrate, and test SOF-unique mission capabilities to the medium tactical UAS, to include but not limited to: signals intelligence gathering, full motion video, and geo-location. FY 2018 Base Plans: Continues to integrate, and test SOF-unique mission capabilities to the medium tactical UAS, to include but not limited to: signals intelligence gathering, full motion video, and geo-location.		-	4.118	4.912	-	4.912
Accomplishments/Planned Programs Subtotals		-	22.117	31.766	3.000	34.766

UNCLASSIFIED

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 1160434BB / <i>Unmanned ISR</i>	Project (Number/Name) S855 / <i>Unmanned ISR</i>
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C. Other Program Funding Summary (\$ in Millions)

Line Item	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
• PROC/0201UMNISR: <i>Unmanned ISR</i>	-	80.820	13.295	38.933	52.228	6.103	5.343	10.940	11.163	Continuing	Continuing
• PROC/0809RQ11: <i>RQ-11 Unmanned Aerial Vehicle</i>	21.298	-	-	-	-	-	-	-	-	0.000	21.984
• PROC/1108MQ1: <i>MQ-1 Unmanned Aerial Vehicle</i>	1.934	-	-	-	-	-	-	-	-	0.000	1.934
• PROC/1108STU: <i>Small Tactical Unmanned Aerial System</i>	1.392	-	-	-	-	-	-	-	-	0.000	3.014

Remarks

D. Acquisition Strategy

SAFC acquisition strategy is evolutionary and spiral-based for technology insertion and low volume procurement. Utilizes existing competed contract vehicles for minor development and integration and modification of Government-Off-The-Shelf/Commercial-Off-The-Shelf equipment. It utilizes limited/full and open competition contracts for major developments.

The Group 1 UAS are evolutionary acquisition programs that deliver, integrate, and qualify SOF-unique mission kits, mission payloads, weapons, air vehicle enhancements, and ground control station upgrades. 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).

Group 2 UAS are evolutionary acquisition programs that deliver, integrate, and qualify SOF-unique mission kits, mission payloads, weapons, air vehicle enhancements, and ground control station upgrades. 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 OEM.

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 1160434BB / <i>Unmanned ISR</i>						Project (Number/Name) S855 / <i>Unmanned ISR</i>			
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
SAFC Platform/Payload Development and Integration	MIPR	Various : Various	-	-		8.911	Mar 2017	10.790	Mar 2018	3.000	Mar 2018	13.790	Continuing	Continuing	-
Group 1 Unmanned Aerial System (UAS) Payloads	C/IDIQ	Various : Various	-	-		0.124	Mar 2017	0.355	Mar 2018	-		0.355	Continuing	Continuing	-
Group 2 UAS Platform/ Payloads Development	C/TBD	Various : Various	-	-		2.059	Mar 2017	2.456	Mar 2018	-		2.456	Continuing	Continuing	-
Subtotal			-	-		11.094		13.601		3.000		16.601	-	-	-
Support (\$ 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
SAFC Platform/Payload Integration	MIPR	Various : Various	-	-		0.600	Jan 2017	0.682	Jan 2018	-		0.682	-	-	-
Group 2 UAS Platform/ Payload Support	C/TBD	Various : Various	-	-		0.617	Mar 2017	0.736	Mar 2018	-		0.736	-	-	-
Subtotal			-	-		1.217		1.418		-		1.418	-	-	-
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
SAFC Sensor Testing, Evaluation and Demonstration	MIPR	Various : Various	-	-		7.291	Mar 2017	12.978	Mar 2018	-		12.978	-	-	-
Group 2 UAS Platform/ Payload Test and Evaluation	C/TBD	Various : Various	-	-		0.825	Mar 2017	0.984	Mar 2018	-		0.984	-	-	-
Subtotal			-	-		8.116		13.962		-		13.962	-	-	-

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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						R-1 Program Element (Number/Name)				Project (Number/Name)					
0400 / 7						PE 1160434BB / Unmanned ISR				S855 / Unmanned ISR					
Management Services (\$ 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
SAFC Sensor Testing, Evaluation and Demonstration Management	MIPR	Various : Various	-	-		1.073	Mar 2017	2.049	Mar 2018	-		2.049	-	-	-
Group 2 UAS Platform/ Payload Management	C/TBD	Various : Various	-	-		0.617	Mar 2017	0.736	Mar 2018	-		0.736	-	-	-
Subtotal			-	-		1.690		2.785		-		2.785	-	-	-
			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			-	-		22.117		31.766		3.000		34.766	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 United States Special Operations Command			Date: May 2017
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160434BB / <i>Unmanned ISR</i>	Project (Number/Name) S855 / <i>Unmanned ISR</i>	

SAFC Schedule

Activity	FY16				FY17				FY18				FY19				FY20				FY21				FY22			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
RDT&E																												
Payload Development/Integration																												
Sensor Testing, Evaluation and Demonstration																												
Procurement																												
Puma II UAS	3				0				2				3				3				3				3			
Scan Eagle UAS	0				2				0				0				0				0				0			
O&M																												
Flight Support/Program Management																												



Planned FY18 RD&TE Period of Performance Range

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 United States Special Operations Command

Date: May 2017

Appropriation/Budget Activity

0400 / 7





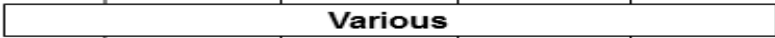
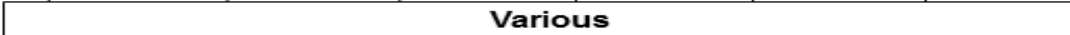
R-1 Program Element (Number/Name)

PE 1160434BB / Unmanned ISR

Project (Number/Name)

S855 / Unmanned ISR

Group 1 Unmanned ISR Schedule

Activity	FY16				FY17				FY18				FY19				FY20				FY21				FY22															
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
RDT&E – Group 1 identifies, integrates, and tests SOF – unique mission kits, mission payloads, air vehicle announcements and mods on the Group 1 UAS and related ground control stations.																																								
	Payload Integration																																							
PROC – Puma II System Delivery																																								
PROC – Group 1 UAS																																								
Silent Echo 10.6 Integration/Fielding																																								
O&M - Sustainment																																								
	Life Cycle Sustainment of Group 1 UAS and Payloads																																							

 Actual Period of Performance (POP) date passed
  Planned POP date
  Planned or funded purchase
  Delivered purchase

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 United States Special Operations Command						Date: May 2017
Appropriation/Budget Activity 0400 / 7			R-1 Program Element (Number/Name) PE 1160434BB / <i>Unmanned ISR</i>			Project (Number/Name) S855 / <i>Unmanned ISR</i>

Group 2 Unmanned ISR Schedule

Activity	FY16				FY17				FY18				FY19				FY20				FY21				FY22			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
RDT&E																												
MTUAS Operational Test/Operational Assessment (OT/OA)																												
Payloads																												
Procurement																												
MTUAS System Standup																												
• Standardized Baseline Procurement																												
• Full Operational Capability (FOC) Upgrade Modifications																												
• Future Upgrade Modifications																												
Stalker SOF-P Equipment																												
O&M																												
MTUAS Sustainment																												
Stalker SOF-P Sustainment																												

 Previously Reported

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 United States Special Operations Command			Date: May 2017
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160434BB / <i>Unmanned ISR</i>	Project (Number/Name) S855 / <i>Unmanned ISR</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
SAFC				
Platform/Payload Development and Integration	1	2016	4	2022
Sensor Testing, Evaluation and Demonstration	1	2016	4	2022
Group 1 Unmanned Aerial System (UAS)				
Payload Integration	2	2016	4	2022
Group 2 UAS				
Operational Test/Operational Assessment (OT/OA)	2	2016	2	2022
Payload Integration	1	2017	4	2022