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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 United States Special Operations Command **Date:** February 2016

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>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	22.117	-	22.117	24.766	25.060	25.492	28.964	Continuing	Continuing
S855: <i>Unmanned ISR</i>	-	0.000	0.000	22.117	-	22.117	24.766	25.060	25.492	28.964	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 on the related ground control stations. SAFC develops and integrates UAS payloads to advance ISR capabilities to address dynamic and emergent operational needs of the SOF user. Efforts include improving imagery/signals 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.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	22.117	-	22.117
Total Adjustments	0.000	0.000	22.117	-	22.117
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	22.117	-	22.117

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Change Summary Explanation

Funding:

FY 2015: None.

FY 2016: None.

FY 2017: The net increase of \$22.117 million is due to the FY 2017 approved consolidation of the Unmanned ISR program element (PE) which includes Special Applications for Contingencies PE 0304210BB (\$18.037 million); MQ-1 Unmanned Aerial Vehicle (UAV), PE 0305219BB; MQ-8 PE 0305231BB; RQ-11 UAV PE 1105232BB (\$4.384 million); and RQ-7 UAV, PE 1105233BB, a reduction by the Department to account for prior year execution balances (-\$0.142 million), and a Departmental economic assumption decrease (-\$0.162 million).

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 United States Special Operations Command										Date: February 2016		
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
S855: <i>Unmanned ISR</i>	-	0.000	0.000	22.117	-	22.117	24.766	25.060	25.492	28.964	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/signals 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 Special Operations Forces (SOF) unique mission kits. The FY 2017 funding was reduced by \$0.142 million to account for the availability of prior year execution balances.

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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: SAFC	-	-	17.875	-	17.875
FY 2017 Base Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
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.					
Title: Group 1 UAS (Previously justified as Small Unmanned Aerial System)	-	-	0.124	-	0.124
FY 2017 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.					
Title: Group 2 UAS (Previously justified as Multi-mission Tactical Unmanned Aerial System)	-	-	4.118	-	4.118
FY 2017 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.					
Accomplishments/Planned Programs Subtotals	-	-	22.117	-	22.117

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC/0201UMISR: <i>Unmanned ISR</i>	-	-	21.190	11.880	33.070	12.555	6.877	6.980	7.443	Continuing	Continuing
• PROC/0809RQ11: <i>RQ-11 Unmanned Aerial Vehicle</i>	6.397	15.587	-	-	-	-	-	-	-	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>	1.500	1.514	-	-	-	-	-	-	-	0.000	3.014

Remarks

D. Acquisition Strategy
SAFC acquisition strategy utilizes existing competed contract vehicles for minor development and integration and modification of Government Off The Shelf/Contractor Off The Shelf (GOTS/COTS) equipment. It utilizes limited/full and open competition contracts for major developments.

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
0400 / 7	PE 1160434BB / <i>Unmanned ISR</i>	S855 / <i>Unmanned ISR</i>

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: PB 2017 United States Special Operations Command **Date:** February 2016

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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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
SAFC Platform/Payload Development and Integration	MIPR	Various : Various	-	-		-		8.911	Mar 2017	-		8.911	Continuing	Continuing	-
Group 1 Unmanned Aerial System (UAS) Payloads	C/DIQ	Various : Various	-	-		-		0.124	Mar 2017	-		0.124	Continuing	Continuing	-
Group 2 UAS Platform/Payloads Development	C/TBD	Various : Various	-	-		-		2.059	Mar 2017	-		2.059	-	-	-
Subtotal			-	-		-		11.094		-		11.094	-	-	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
SAFC Platform/Payload Integration	MIPR	Various : Various	-	-		-		0.600	Jan 2017	-		0.600	-	-	-
Group 2 UAS Platform/Payload Support	C/TBD	Various : Various	-	-		-		0.617	Mar 2017	-		0.617	-	-	-
Subtotal			-	-		-		1.217		-		1.217	-	-	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
SAFC Sensor Testing, Evaluation and Demonstration	MIPR	Various : Various	-	-		-		7.291	Mar 2017	-		7.291	-	-	-
Group 2 UAS Platform/Payload Test and Evaluation	C/TBD	Various : Various	-	-		-		0.825	Mar 2017	-		0.825	-	-	-
Subtotal			-	-		-		8.116		-		8.116	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 United States Special Operations Command **Date:** February 2016

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SAFC Schedule

Activity	FY15				FY16				FY17				FY18				FY19				FY20				FY21							
	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 Unmanned Aerial System	3				3				3				3				3				3				2							
O&M																																
Flight Support/Program Management																																

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 United States Special Operations Command **Date:** February 2016

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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Group 1 Unmanned ISR Schedule

(Previously referred to as SUAS)

Activity	FY15				FY16				FY17				FY18				FY19				FY20				FY21			
	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 - Group 1 System Delivery	11				10				13				5				5				5				5			
Silent Echo 10.6 Integration/Fielding	Various																											
O&M - Sustainment	Life Cycle Sustainment of Group 1 and Payloads																											

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 United States Special Operations Command **Date:** February 2016

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Group 2 Unmanned Aerial System Schedule

(Previously referred to as MTUAS)

Activity	FY15				FY16				FY17				FY18				FY19				FY20				FY21							
	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																																
Operational Test/Operational Assessment (OT/OA)					v1.0				v2.0 OT/OA								v3.0 OT/OA															
Payload Integration					<div style="background-color: yellow; width: 100%; height: 15px;"></div>				Integrate SOF-Unique Mission Payloads																							
Procurement																																
Standardized Baseline Procurement					★				★				Initial Operational Capability (IOC)								★ FOC											
Full Operational Capability (FOC) Upgrade Modifications					v1.0				v2.0								v3.0															
Future Upgrade Modifications																																
O&M																																
Sustainment	Life Cycle Sustainment of MTUAS and Payloads																															

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 United States Special Operations Command **Date:** February 2016

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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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
SAFC				
Platform/Payload Development and Integration	1	2015	4	2021
Sensor Testing, Evaluation and Demonstration	1	2015	4	2021
Group 1 Unmanned Aerial System (UAS)				
Payload Integration, and Test	2	2015	4	2021
Group 2 UAS				
Operational Test/Operational Assessment (OT/OA)	2	2016	4	2021
Payload Integration	2	2017	4	2021

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