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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV							
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	1.613	-	1.613	1.652	1.700	1.746	1.782	Continuing	Continuing
RA7: RQ-11 Raven (MIP)	-	0.000	0.000	1.613	-	1.613	1.652	1.700	1.746	1.782	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Small Unmanned Aircraft System (SUAS) provides the battalion and below ground maneuver elements critical situational awareness and enhance force protection. The system provides the small unit commander an organic and responsive tactical Reconnaissance, Surveillance, and Target Acquisition capability through the ability to view real-time Full Motion Video and sensor data via the system ground control stations. Other compatible receivers, such as the One System Remote Video Terminal and appropriately equipped manned platforms may also receive the SUAS products.

A SUAS includes three hand-launched aircraft that do not require an improved launch/recovery location. In addition to the aircraft, the system contains ground control equipment, which includes an interoperable hand controller. The equipment is fully transportable in or on rucksack type packs that are organic to the unit. SUAS is transitioning to a Capabilities Production Document (CPD) that will utilize existing RQ-11 and RQ-20 in a system of systems fielding concept, with a Short Range Micro (SRM) to be included later.

Justification: Fiscal Year (FY) 2017 Research, Development, Test, and Evaluation (RDTE) Base funding of \$1.613 million will be utilized for Program Management Engineering support and to meet CPD Increment II Block II related requirements. Specifically, the development of Tactical Open Government Architecture (TOGA) functionality to support new capabilities for mobile operations (embedded radio) and interface/control features including Interface Control Document (ICD) needed for SRM control and also perform developmental testing requirements as TOGA software is updated.

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	1.613	-	1.613
Total Adjustments	0.000	0.000	1.613	-	1.613
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	1.613	-	1.613

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV				Project (Number/Name) RA7 / RQ-11 Raven (MIP)			
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
RA7: RQ-11 Raven (MIP)	-	0.000	0.000	1.613	-	1.613	1.652	1.700	1.746	1.782	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

	FY 2015	FY 2016	FY 2017
Title: Program Management Support Description: Program Management Support FY 2017 Plans: Program Management Support	-	-	0.581
Title: Developmental Engineering Description: Developmental Engineering FY 2017 Plans: Integration of the TOGA controller with an embedded mini Digital Datalink (DDL) radio to allow for mobile operations in support of employment of the SRM. Identify and update the interface control requirements for the TOGA controller as needed for SRM control.	-	-	0.927
Title: System Test and Evaluation	-	-	0.105

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV	Project (Number/Name) RA7 / RQ-11 Raven (MIP)
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
Description: System Test and Evaluation			
FY 2017 Plans: Developmental Testing of the software changes in the TOGA Controller			
Accomplishments/Planned Programs Subtotals	-	-	1.613

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RQ-11 (RAVEN) - A00010: RQ-11 (RAVEN) - A00010	3.964	-	-	-	-	6.929	7.069	7.208	6.986	Continuing	Continuing

Remarks

D. Acquisition Strategy
 SUAS Product Office executed a single award best value Indefinite Delivery Indefinite-Quantity (IDIQ) contract utilizing full and open competition. This contract provides affordable access for a fully staffed Technical, Management, Training, and Logistics organization, over a five-year period of performance (three year base period and two, single year options). The Government will make contract award based upon competitive source selection criteria.

E. Performance Metrics
 N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0305232A / RQ-11 UAV				RA7 / RQ-11 Raven (MIP)							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Program Management Personnel	RO	AMRDEC, Redstone Arsenal, AL : AMRDEC, Redstone Arsenal, AL	1.109	-		-		0.581	Nov 2016	-		0.581	0	1.690	0
Subtotal			1.109	-		-		0.581		-		0.581	0.000	1.690	0.000
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Developmental Engineering	C/IDIQ	Aberdeen Proving Grounds, Natick Contracting Division, Orlando, FL : Aberdeen Proving Grounds, Natick Contracting Divis	8.897	-		-		0.927	Dec 2016	-		0.927	0	9.824	0
Developmental Engineering	C/IDIQ	AMRDEC, Redstone Arsenal, Redstone, Al : AMRDEC, Redstone Arsenal, Redstone, Al	1.935	-		-		-		-		-	0	1.935	0
Subtotal			10.832	-		-		0.927		-		0.927	0.000	11.759	0.000
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
Other Government Agencies	MIPR	Various : Various	0.000	-		-		-		-		-	0.000	0	0.000
Subtotal			0.000	-		-		-		-		-	0.000	0.000	0.000

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army **Date:** February 2016

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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
TOGA Developmental Engineering									TOGA																			
TOGA Test Event 1																	TTE 1											

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV	Project (Number/Name) RA7 / RQ-11 Raven (MIP)
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
TOGA Developmental Engineering	1	2017	4	2017
TOGA Test Event 1	4	2017	4	2017

Note
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