

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2016 Army	<b>Date:</b> February 2015
---	----------------------------

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	<b>R-1 Program Element (Number/Name)</b> PE 0305232A / RQ-11 UAV
--	---

COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	5.984	-	-	-	-	-	-	-	-	-	5.984
RA7: RQ-11 Raven (MIP)	-	5.984	-	-	-	-	-	-	-	-	-	5.984

**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.

The SUAS RDT&E budget line included funding for development of the Tactical Open Government Architecture (TOGA) hand controller. The September 2014 submission of \$2,320k was increased by a below threshold reprogramming of \$464k and an above threshold reprogramming of \$3,200k for a total of \$5,984k. TOGA enhancements will mitigate capability gaps by creating compatibility with current and future SUAS platforms and integration into tactical networks as required. These enhancements will decrease weight (tablet technology for an efficient form factor), efficient graphical interface, decrease cognitive load and support Windows 7 migration to meet Warfighter needs.

Justification: No program funding in FY2016.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
Previous President's Budget	2.320	-	-	-	-
Current President's Budget	5.984	-	-	-	-
Total Adjustments	3.664	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	3.664	-			
• SBIR/STTR Transfer	-	-			

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
RA7: RQ-11 Raven (MIP)	-	5.984	-	-	-	-	-	-	-	-	-	5.984
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**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.

The SUAS RDT&E budget line included funding for development of the Tactical Open Government Architecture (TOGA) hand controller. The September 2014 submission of \$2,320k was increased by a below threshold reprogramming of \$464k and an above threshold reprogramming of \$3,200k for a total of \$5,984k. TOGA enhancements will mitigate capability gaps by creating compatibility with current and future SUAS platforms and integration into tactical networks as required. These enhancements will decrease weight (tablet technology for an efficient form factor), efficient graphical interface, decrease cognitive load and support Windows 7 migration to meet Warfighter needs.

Justification: No program funding in FY2016.

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

	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<b>Title:</b> Base: Program Management Support	0.119	-	-
<b>Description:</b> Program Management Support			
<b>FY 2014 Accomplishments:</b> Program Management Support			
<b>Title:</b> Base: Product Improvement Studies and Development	5.099	-	-
<b>Description:</b> Base: Product Improvement Studies and Development			
<b>FY 2014 Accomplishments:</b> Base: Product Improvement Studies and Development			
<b>Title:</b> System Test and Evaluation	0.766	-	-

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Army							<b>Date:</b> February 2015				
<b>Appropriation/Budget Activity</b> 2040 / 7			<b>R-1 Program Element (Number/Name)</b> PE 0305232A / RQ-11 UAV			<b>Project (Number/Name)</b> RA7 / RQ-11 Raven (MIP)					
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>							<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>		
<b>Description:</b> System Test and Evaluation											
<b>FY 2014 Accomplishments:</b> System Test and Evaluation											
<b>Accomplishments/Planned Programs Subtotals</b>							5.984	-	-		
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RQ-11 (RAVEN) - A00010: RQ-11 (RAVEN) - A00010	10.372	3.964	-	-	-	-	-	-	-	0.015	14.351
<b>Remarks</b>											
<b>D. Acquisition Strategy</b> SUAS Product Office executed a single award best value 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.											
<b>E. Performance Metrics</b> N/A											

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV				Project (Number/Name) RA7 / RQ-11 Raven (MIP)					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	PM UAS : PM UAS	0.990	0.119	Mar 2014	-		-		-		-	-	1.109	-
Subtotal			0.990	0.119		-		-		-		-	-	1.109	-
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Product Improvements Studies and Development	C/IDIQ	AMRDEC, Redstone Arsenal, AL : AMRDEC, Redstone Arsenal, AL	5.733	3.164	Jun 2014	-		-		-		-	-	8.897	-
Product Improvement Studies and Development	C/IDIQ	TBD : TBD	0.000	1.935	Dec 2014	-		-		-		-	-	1.935	-
Subtotal			5.733	5.099		-		-		-		-	-	10.832	-
Remarks															
FY2014 funds will support the Competitive IDIQ Engineering Services Contract. Contractor, to be determined.															
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	-		-		-		-		-	-	-	-
Subtotal			0.000	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Test and Evaluation 1	MIPR	Various : Various	0.475	0.466	Oct 2014	-		-		-		-	-	0.941	-

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2016 Army</b>												<b>Date:</b> February 2015			
<b>Appropriation/Budget Activity</b> 2040 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0305232A / RQ-11 UAV				<b>Project (Number/Name)</b> RA7 / RQ-11 Raven (MIP)					

  

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Test and Evaluation 2	MIPR	Varies : Varies	0.000	0.300	May 2015	-		-		-		-	-	0.300	-
<b>Subtotal</b>			0.475	0.766		-		-		-		-	-	1.241	-

  

	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	7.198	5.984	-	-	-	-	-	13.182	-

**Remarks**

**UNCLASSIFIED**

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																		Date: February 2015																			
Appropriation/Budget Activity 2040 / 7										R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV								Project (Number/Name) RA7 / RQ-11 Raven (MIP)																			
Event Name										FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
										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
(1) TOGA Development										<div><div></div><div>1</div><div>TOGA</div></div>																											

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0305232A / RQ-11 UAV	Project (Number/Name) RA7 / RQ-11 Raven (MIP)

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
TOGA Development	2	2014	4	2014