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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy **Date:** February 2015

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0305233N / RQ-7 UAV
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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	20.979	0.710	0.851	0.688	-	0.688	0.858	0.849	0.812	0.830	Continuing	Continuing
9C84: MCTUAS	20.979	0.710	0.851	0.688	-	0.688	0.858	0.849	0.812	0.830	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element supports additional capability development, at both service specific and joint service levels, for the RQ-7 Shadow non-lethal joint tactical Unmanned Aerial Vehicle system for the Department of Defense to provide the warfighter with the capability for day/night aerial Reconnaissance, Surveillance, Target Acquisition, Intelligence, Battle Damage Assessment, and Force Protection.

This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it includes development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	0.710	0.851	0.834	-	0.834
Current President's Budget	0.710	0.851	0.688	-	0.688
Total Adjustments	-	-	-0.146	-	-0.146
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	-0.146	-	-0.146

Change Summary Explanation

The FY 2016 funding request was reduced by \$139 thousand to account for the availability of prior year execution balances."

Schedule: Not applicable.

Technical: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305233N / RQ-7 UAV				Project (Number/Name) 9C84 / MCTUAS			
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
9C84: MCTUAS	20.979	0.710	0.851	0.688	-	0.688	0.858	0.849	0.812	0.830	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Marine Corps Tactical Unmanned Aircraft System (MCTUAS) project supports the fielded RQ-7B Shadow Unmanned Aerial Vehicle (UAV) system by conducting research, development, test and evaluation for improvement of the RQ-7 UAV capabilities in Reconnaissance, Surveillance and Target Acquisition, Intelligence, Battle Damage Assessment, Laser Designation and Force Protection. The RQ-7B Shadow UAV system provides critical battlefield intelligence and targeting information in the rapid cycle time required for success at the tactical level.

RQ-7B Shadow UAV systems are acquired through the United States Army (US Army) Unmanned Aerial System (UAS) Program Office to fulfill United States Marine Corps (USMC) UAS requirements. In order to optimize interoperability, maintainability, and capability with minimal cost, the USMC and US Army plan to develop additional capabilities for the common RQ-7 system to include the fuselage, flight and mission electrical and electronic systems, propulsion system, communications system, and capability payloads. These funds represent the USMC share of the combined joint development cost through Program Management Office UAS and the RQ-7 USMC specific development efforts of the NAVAIR 5.1 UAV Test Directorate.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: MCTUAS Development Support	0.710	0.851	0.688	-	0.688
Articles:	-	-	-	-	-
Description: Joint development efforts with US Army RQ-7 Shadow Program, for common RQ-7 block upgrades, United States Marine Corps specific development efforts at the joint and Navy unique levels required for continued improvement and interoperability.					
FY 2014 Accomplishments: Block II upgrades (Common Operating Environment, Blue Force Tracker, and Problem/change report Correction), external payloads and Intelligence Surveillance Reconnaissance systems development.					
FY 2015 Plans: Funding continues development for ongoing initiatives and will initiate development efforts for improvements to Intelligence Surveillance Reconnaissance systems, external payloads and communications systems.					
FY 2016 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy				Date: February 2015	
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0305233N / RQ-7 UAV		Project (Number/Name) 9C84 / MCTUAS	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Funding continues development for ongoing initiatives and will initiate development efforts for improvements to Intelligence Surveillance Reconnaissance systems, external payloads, communications systems, digital interoperability initiative, and propulsion systems.					
FY 2016 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	0.710	0.851	0.688	-	0.688

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• APN/058900: RQ-7 UAV	20.417	2.542	3.815	-	3.815	3.828	-	-	-	-	103.721
Remarks											
D. Acquisition Strategy											
Sole source engineering development services contract with Textron Systems Unmanned System (formerly Aircraft Armament Incorporated) through United States Army Program Management Unmanned Aerial Systems and United States Marine Corps (USMC) unique capability development efforts of the Navy Unmanned Aerial Vehicle (UAV) Test Squadron.											
E. Performance Metrics											
Attainment of targeted development effort upgrades improving operational capability of the RQ-7 UAV USMC Tactical Unmanned Aircraft System.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy													Date: February 2015		
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
1319 / 7				PE 0305233N / RQ-7 UAV						9C84 / MCTUAS					
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
Prior year cost no longer funded in the FYDP	Various	Various : Various	14.650	-		-		-		-		-	-	14.650	-
Subtotal			14.650	-		-		-		-		-	-	14.650	-
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
Joint Development Efforts	Various	Various : Various	3.579	0.710	Jun 2014	0.851	Jun 2015	0.688	Jun 2016	-		0.688	Continuing	Continuing	Continuing
Prior year cost no longer funded in the FYDP	Various	Various : Various	0.715	-		-		-		-		-	-	0.715	-
Subtotal			4.294	0.710		0.851		0.688		-		0.688	-	-	-
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
Prior year cost no longer funded in the FYDP	Various	Various : Various	2.035	-		-		-		-		-	-	2.035	-
Subtotal			2.035	-		-		-		-		-	-	2.035	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			20.979	0.710		0.851		0.688		-		0.688	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy																							Date: February 2015					
Appropriation/Budget Activity 1319 / 7											R-1 Program Element (Number/Name) PE 0305233N / RQ-7 UAV								Project (Number/Name) 9C84 / MCTUAS									
RQ-7	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Product Development																												
	Joint Development Efforts																											
Test and Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy		Date: February 2015
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305233N / RQ-7 UAV	Project (Number/Name) 9C84 / MCTUAS

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RQ-7				
Product Development: Joint and USMC Unique Development Efforts	1	2014	4	2020