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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305233N: RQ-7 UAV
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	19.316	0.872	8.463	0.710	-	0.710	0.974	0.957	0.906	0.922	Continuing	Continuing
9C84: MCTUAS	19.316	0.872	8.463	0.710	-	0.710	0.974	0.957	0.906	0.922	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This program element supports additional capability development for the RQ-7 Shadow non-lethal joint tactical Unmanned Aerial Vehicle system for Department of Defense to provide the warfighter with the capability for day/night aerial Reconnaissance, Surveillance and 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.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	0.872	0.863	0.874	-	0.874
Current President's Budget	0.872	8.463	0.710	-	0.710
Total Adjustments	0.000	7.600	-0.164	-	-0.164
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	7.600	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	-0.164	-	-0.164

Change Summary Explanation

Schedule: Not applicable.

Technical: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0305233N: RQ-7 UAV				PROJECT 9C84: MCTUAS			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
9C84: MCTUAS	19.316	0.872	8.463	0.710	-	0.710	0.974	0.957	0.906	0.922	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
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 Army's Unmanned Aerial System (UAS) Program Office to fulfill Marine Corps UAS requirements. In order to optimize interoperability, maintenance, and capability with minimal cost, the Marine Corps and Army plan to develop additional capabilities for the common RQ-7 system. These funds represent the Marine Corps share of the combined development cost and the RQ-7 specific efforts of the NAVAIR 5.1 UAV Test Squadron.												
Funds will provide for the integration of an in-production weapon on the RQ-7B Shadow UAV in response to an Urgent Universal Needs Statement that was initiated by operational units in the Operation Enduring Freedom - Afghanistan theater of operations. This covers all analysis and integration of the weapon to include the development of/modification to a Stores Management System and its integration onto the RQ-7B Shadow UAV. The integration/development effort is anticipated to be between 12 and 18 months in length leading to a Field User Assessment.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: MCTUAS Development Support									0.872	0.863	0.710	
									Articles: 0	0	0	
Description: Joint development efforts with US Army RQ-7 Shadow Program, associated government engineering support for common RQ-7 block upgrades, and test and evaluation support required for continued improvement and interoperability.												
FY 2012 Accomplishments: Continued with Marine Corps share of the costs of common RQ-7 development efforts and government engineering support for control systems, power plant, Intelligence Surveillance Reconnaissance (ISR) systems and weapons capabilities initiatives and continues support for efforts begun in FY11.												
FY 2013 Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2012	FY 2013	FY 2014		
Funding continues development of and government engineering support for ongoing initiatives and will initiate development efforts for improvements to ISR systems, external payloads, and communications systems. Funding will be used to continue RQ-7 Shadow test and evaluation efforts of the Navy Unmanned Aerial Vehicle Test Squadron.											
FY 2014 Plans: FY14 funding continues development of and government engineering support for ongoing initiatives and will continue development efforts for improvements to ISR systems, external payloads, and communications systems. Funding will be used to continue RQ-7 Shadow test and evaluation efforts of the Navy Unmanned Aerial Vehicle Test Squadron.											
Title: RQ-7 Weaponization							0.000	7.600	0.000		
Articles:								0			
Description: Integration of an in-production weapon on the RQ-7B Shadow Unmanned Aerial System in response to an Urgent Universal Needs Statement that was initiated by operational units in the Operation Enduring Freedom (OEF) - Afghanistan theater of operation.											
FY 2013 Plans: N/A											
FY13 OCO Plans: FY13 funding will complete the development and integration of a weapons capability into 2 USMC RQ-7 Shadow systems. Funding will provide for required test and evaluation of those systems to include a Field User Evaluation in theater.											
Accomplishments/Planned Programs Subtotals							0.872	8.463	0.710		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APN/058900: RQ-7 UAV	0.000	49.324	26.433		26.433	2.596	3.893	3.903	0.000	0.000	112.166
Remarks											
D. Acquisition Strategy Sole source engineering development services contract with Aircraft Armament Incorporated through Army Program Management Unmanned Aerial Systems.											

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<p>The program office is leveraging Army contracting by Unmanned Aerial System Program Manager to integrate weapons onto the RQ-7 Unmanned Aerial Vehicle (UAV). Government engineering support provided by Program Management Unmanned Aerial Systems (PM UAS), Naval Air Warfare Center-Weapons Division (NAWCWD), and Naval Air Warfare Center - Aircraft Division.</p> <p><u>E. Performance Metrics</u></p> <p>Attainment of targeted development effort upgrades improving operational capability of the RQ-7 UAV (Marine Corps Tactical Unmanned Aircraft System).</p> <p>Weapon successfully integrated onto RQ-7 UAV.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	0.000		0.000		0.000		-		0.000	0.000	14.650	14.650
Subtotal			14.650	0.000		0.000		0.000		0.000		0.000	0.000	14.650	14.650
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Engineering Support	WR	NAWCWD:China Lake, CA	0.000	0.000		1.700	Dec 2012	0.000		-		0.000	0.000	1.700	1.700
Engineering Support	WR	NAWCAD:Pax River, MD	0.715	0.000		0.715	Dec 2012	0.000		-		0.000	0.000	1.430	1.430
Joint Development Efforts	Various	Various:Various	1.916	0.872	Jan 2012	0.863	Jan 2013	0.710	Jun 2014	-		0.710	Continuing	Continuing	Continuing
Subtotal			2.631	0.872		3.278		0.710		0.000		0.710			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Flight Test Support	WR	NAWCWD:China Lake, CA	0.000	0.000		1.000	Dec 2012	0.000		-		0.000	0.000	1.000	1.000
Weapon Testing	MIPR	PM UAS:Huntsville, AL	2.035	0.000		4.185	Mar 2013	0.000		-		0.000	0.000	6.220	6.220
Subtotal			2.035	0.000		5.185		0.000		0.000		0.000	0.000	7.220	7.220
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			19.316	0.872		8.463		0.710		0.000		0.710			
Remarks															

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APPROPRIATION/BUDGET ACTIVITY
1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

PROJECT
9C84: *MCTUAS*

R-1 ITEM NOMENCLATURE
PE 0305233N: RQ-7 UAV

[illegible]

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305233N: RQ-7 UAV	PROJECT 9C84: MCTUAS	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RQ-7				
Product Development: Joint Development Efforts	1	2012	4	2018
Product Development: Weapon Integration	2	2012	1	2013
Test and Evaluation: Weapon Testing	3	2012	3	2013