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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305233N: RQ-7 UAV							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	0.000	0.982	0.934	6.900	7.834	0.928	0.928	0.931	0.932	Continuing	Continuing
9156: Wide Focal Plane Array Camera (WFPAC)	0.000	0.000	0.000	6.900	6.900	0.000	0.000	0.000	0.000	0.000	6.900
9C84: MCTUAS	0.000	0.982	0.934	0.000	0.934	0.928	0.928	0.931	0.932	Continuing	Continuing
A. Mission Description and Budget Item Justification											
This program element supports additional capability development for the RQ-7 Shadow non-lethal joint tactical UAV system for DoD to provide the warfighter with the capability for day/night aerial Reconnaissance, Surveillance and Target Acquisition (RSTA); intelligence; battle damage assessment and force protection.											
FY 2011 request includes \$6.9M in OCO funds for Wide Focal Plane Array Camera (WFPAC) in support of OEF-Afghanistan.											
B. Program Change Summary (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Previous President's Budget	0.000	0.986	0.000	0.000	0.000						
Current President's Budget	0.000	0.982	0.934	6.900	7.834						
Total Adjustments	0.000	-0.004	0.934	6.900	7.834						
• Congressional General Reductions		-0.004									
• Congressional Directed Reductions		0.000									
• Congressional Rescissions	0.000	0.000									
• Congressional Adds		0.000									
• Congressional Directed Transfers		0.000									
• Reprogrammings	0.000	0.000									
• SBIR/STTR Transfer	0.000	0.000									
• Program Adjustments	0.000	0.000	0.934	0.000	0.934						
• Rate/Misc Adjustments	0.000	0.000	0.000	6.900	6.900						
Change Summary Explanation											
Technical: Not applicable.											

UNCLASSIFIED

R-1 Line Item #213

Page 1 of 9

UNCLASSIFIED

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<p>Schedule: Not applicable.</p> <p>FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.</p>		

UNCLASSIFIED

R-1 Line Item #213

Page 2 of 9

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0305233N: <i>RQ-7 UAV</i>				PROJECT 9156: <i>Wide Focal Plane Array Camera (WFPAC)</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9156: <i>Wide Focal Plane Array Camera (WFPAC)</i>	0.000	0.000	0.000	6.900	6.900	0.000	0.000	0.000	0.000	0.000	6.900
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note This is a new start OCO request for \$6.9M in FY 2011.											
A. Mission Description and Budget Item Justification Program completes development, testing, integration and initial procurement of a Wide Focal Plane Array Camera (WFPAC) sensor for the RQ-7 Shadow UAS in support of OEF-Afghanistan. The Office of Naval Research is leading the development and funding the low rate initial procurement. These funds will support the test and integration efforts for the Marine Corps Shadow systems. The WFPAC sensor enhancement will address the Marine Expeditionary Brigade's near-term organic persistent Intelligence, Surveillance and Reconnaissance (ISR) requirement in Afghanistan as well as provide an enduring capability in a reduced form factor tactical UAS sensor.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Wide Focal Plane Array Camera Sensor						0.000	0.000	0.000	6.900	6.900	
<i>FY 2011 Base Plans:</i> N/A											
<i>FY 2011 OCO Plans:</i> Funding will support integration and testing of the Wide Focal Plane Array Camera (WFPAC) Sensor on the RQ-7 Shadow UAS.											
Accomplishments/Planned Programs Subtotals						0.000	0.000	0.000	6.900	6.900	

UNCLASSIFIED

R-1 Line Item #213

Page 3 of 9

UNCLASSIFIED

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<p><u>C. Other Program Funding Summary (\$ in Millions)</u> N/A</p> <p><u>D. Acquisition Strategy</u> TBD.</p> <p><u>E. Performance Metrics</u> TBD.</p>		

UNCLASSIFIED

R-1 Line Item #213

Page 4 of 9

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0305233N: <i>RQ-7 UAV</i>				PROJECT 9156: <i>Wide Focal Plane Array Camera (WFPAC)</i>					
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integration and Testing	WR	NAWCAD Pax River, MD	0.000	0.000		0.000		6.900		6.900	0.000	6.900	Continuing
Subtotal			0.000	0.000		0.000		6.900		6.900	0.000	6.900	
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		0.000		6.900		6.900	0.000	6.900	
Remarks													

UNCLASSIFIED

R-1 Line Item #213

Page 5 of 9

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy																								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development												R-1 ITEM NOMENCLATURE PE 0305233N: RQ-7 UAV												PROJECT 9156: Wide Focal Plane Array Camera (WFPAC)			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305233N: <i>RQ-7 UAV</i>	PROJECT 9156: <i>Wide Focal Plane Array Camera (WFPAC)</i>		

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Integration and Testing	2	2011	4	2011

UNCLASSIFIED

R-1 Line Item #213

Page 7 of 9

UNCLASSIFIED

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9C84: <i>MCTUAS</i>	0.000	0.982	0.934	0.000	0.934	0.928	0.928	0.931	0.932	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification <p>This Marine Corps Tactical Unmanned Aircraft System (MCTUAS) Project supports the fielded RQ-7 system by conducting research, development, test, and evaluation for improvement of the RQ-7 capabilities in Reconnaissance, Surveillance and Target Acquisition, Intelligence, Battle Damage Assessment and Force Protection. The RQ-7 provides critical battlefield intelligence and targeting information in the rapid cycle time required for success at the tactical level.</p> <p>RQ-7B MCTUAS systems are acquired through the Army's UAS Program Office to fulfill Marine Corps UAS requirements. In order to optimize Marine Corps and Army's interoperability, maintenance, and capability with minimal cost, the two services plan to develop additional capability for the common system. These funds will provide the Marine Corps share of the combined development cost.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
MCTUAS Development Support						0.000	0.982	0.934	0.000	0.934	
Joint development efforts with US Army RQ-7 Shadow Program and associated government engineering support for block upgrades required for continued improvement and interoperability.											
FY 2010 Plans: The RQ-7 MCTUAS program will benefit and share in cost for the following upgrades: Common Systems Integration is required to ensure interoperability with other weapon systems, manned and unmanned. Included in this category is Universal Ground Control Station (UGCS), Trainer upgrades and One System Remote Video Transceiver (OSRVT) and Advance Payloads. Small Sense and Avoid System (SSAASy) is required to meet the requirement for a traffic alert and collision avoidance system and to allow for operations in the National Airspace (NAS). Rolling Take Off and Launch and											

UNCLASSIFIED

R-1 Line Item #213

Page 8 of 9

UNCLASSIFIED

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Land Heavier Air Vehicle (LALHAV) is required to improve reliability and provides redundant take off capability for the system. FY10 funds the Marine Corps share of the combined development cost. Also funding for Government Engineering Support. <i>FY 2011 Base Plans:</i> FY11 funding continues development efforts and Government Engineering Support begun in FY10.											
Accomplishments/Planned Programs Subtotals						0.000	0.982	0.934	0.000	0.934	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• WPN/422700: <i>MCTUAS</i>	20.471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	20.471
• APN/044100: <i>RQ-7 UAV</i>	0.000	51.372	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.372
• APN/058900: <i>RQ-7 UAV</i>	0.000	0.000	18.121	8.000	26.121	11.585	11.702	11.964	8.525	Continuing	Continuing
D. Acquisition Strategy Sole source engineering development services contract with AAI through Army PM UAS.											
E. Performance Metrics Attainment of targeted development effort improvement upgrades improving operational capability of the RQ-7 UAV (MCTUAS).											

UNCLASSIFIED