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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305234M: (U)RQ-21A (STUASL0)
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	26.076	-	-	-	-	-	-	-	-	0.000	26.076
2298: <i>SMALL (LEVEL 0) TACTICAL UAS (STUAL0)</i>	26.076	-	-	-	-	-	-	-	-	0.000	26.076

Note

The Tier II program is in PE 0305234M, Project C2272 in FY10. The Tier II program is in PE 0305234M, Project C2298 in FY11. The Tier II program was realigned to PE 0305239M, Project C2298 in FY12 and out. The Navy PE is 0305234N.

A. Mission Description and Budget Item Justification

TIER II - This is a combined Navy (PE 0305204N-TCS) and Marine Corps (PE 0305234M) budget submission. The Tier II/UAS will provide persistent, Intelligence, Surveillance, and Reconnaissance (ISR) support for tactical level maneuver decisions and unit level force defense/force protection for Navy ships and Marine Corps land forces. This system will fill the ISR capability shortfalls identified by the Navy Small Tactical Unmanned Aircraft System (STUAS) and Marine Corps Tier II UAS efforts. Consisting of five air vehicles, two ground control stations, multiple payloads, and associated launch, recovery and support equipment, this system will support the Navy missions including building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and support of Navy units operating from sea/shore and the Marine Corps close range (<50 nautical miles (nm)) UAS enabling enhanced decision-making and improved integration with ground schemes of maneuver. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE 0305204N.

B. Program Change Summary (\$ in Millions)

	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	26.209	-	-	-	-
Current President's Budget	26.076	-	-	-	-
Total Adjustments	-0.133	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Congressional General Reductions Adjustments	-0.133	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy **DATE:** February 2012

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2298: <i>SMALL (LEVEL 0) TACTICAL UAS (STUAL0)</i>	26.076	-	-	-	-	-	-	-	-	0.000	26.076
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

This project moved from PE 0305234M to 0305239M starting in FY12.

A. Mission Description and Budget Item Justification

The Small Tactical Unmanned Aircraft System (STUAS) is a combined Navy and Marine Corps program that provides persistent Intelligence, Surveillance, and Reconnaissance/Target Acquisition support for tactical level maneuver decisions and unit level force defense/force protection for Naval amphibious assault ships (multi-ship classes) and Navy and Marine land forces. This system will support Naval Missions such as building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and provide support for Naval Units operating from sea/shore in Overseas Contingency Operations.

A STUAS system (Land-based or Ship-based) consists of five (5) air vehicles (AV), Ground Control Station(s) (GCS), Launch and Recovery equipment, and associated support equipment.

The STUAS system will continue to evolve and upgrade capabilities to satisfy capabilities shortfalls, new requirements, and reliability, maintainability, and safety issues. Upgraded capabilities may include Navy Command and Control integration, Signals Intelligence and Synthetic Aperture Radar payloads, weapons integration, Heavy Fuel Engine, Laser Designator and Digital Common Data Link.

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

	FY 2011	FY 2012	FY 2013
<p>Title: Tier II UAS: Engineering and Technical Servies</p> <p align="right">Articles:</p>	17.467 0	-	-
<p>FY 2011 Accomplishments: Continued support for Government Engineering Technical Support, Logistics Support, Test and Evaluation, Contractor Support Services, Program Management Support and program related travel. Continued support of Systems Engineering Technical Review (SETR) events and successfully completed Systems Requirements Review, and Operational Assessment (OT-B1).</p>			
<p>Title: *Tier II UAS: Navy Program Management Support</p> <p align="right">Articles:</p>	8.609 0	-	-
<p>FY 2011 Accomplishments:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Continued the Engineering and Manufacturing Development efforts for the STUAS Unmanned Aircraft System (UAS) program. Successfully completed Systems Requirements Review and Operational Assessment (OT-B1).			
Accomplishments/Planned Programs Subtotals	26.076	-	-

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

Line Item	FY 2011	FY 2012	FY 2013	FY 2013	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	Cost To	
			Base	OCO	Total					Complete	Total Cost
• APN/0444: NAVY STUAS/RQ-21A	28.200	0.000	9.593	0.000	9.593	9.685	9.840	0.000	0.000	Continuing	Continuing
• APN/0605: NAVY STUAS/RQ-21A Spares and Repair Parts	0.000	0.925	0.896	0.000	0.896	0.912	0.078	0.079	0.080	Continuing	Continuing
• PMC/4737: STUAS/RQ-21A	0.000	0.000	27.619	0.000	27.619	71.670	76.686	79.950	81.550	Continuing	Continuing
• PMC/4757: STUAS/RQ-21A	10.165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.165
• RDTEN/0305234N: NAVY STUAS/RQ-21A	12.645	21.387	9.734	0.000	9.734	5.044	5.139	5.211	5.322	Continuing	Continuing
• RDTEN/0305239M: STUAS/RQ-21A	0.000	24.201	22.343	0.000	22.343	11.158	9.289	9.478	9.649	Continuing	Continuing

D. Acquisition Strategy

The program office expects to utilize a competitive acquisition approach to quickly field a capability with limited development. Spiral development will be utilized to field a system fully compliant with documented requirements.

E. Performance Metrics

Down select to final solution.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy								DATE: February 2012					
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305234M: (U)RQ-21A (STUASL0)				PROJECT 2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0)					

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
Tier II	Various	NAVAIR:PMA-263	17.600	-		-		-		-	0.000	17.600	
Subtotal			17.600	-		-		-		-	0.000	17.600	

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
Tier II	Various	Navy:PMA-263	8.476	-		-		-		-	0.000	8.476	
Subtotal			8.476	-		-		-		-	0.000	8.476	

			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			26.076	-		-		-		-	0.000	26.076	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305234M: (U)RQ-21A (STUASL0)	PROJECT 2298: <i>SMALL (LEVEL 0) TACTICAL UAS</i> (STUAL0)

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2298				
Acquisition Milestones: Milestone C	2	2013	2	2013
Acquisition Milestones: Marine Corps IOC	2	2014	2	2014
Acquisition Milestones: USN IOC Landing Ship, Dock	2	2014	2	2014
Acquisition Milestones: Full Rate Production Decision Review	2	2014	2	2014
System Development: EMD	1	2011	1	2013
System Development: Demo System	1	2011	1	2011
System Development: EDM 1	4	2012	4	2012
System Development: EDM 2	1	2013	1	2013
System Development: System Requirements Review	1	2011	1	2011
System Development: CDR	1	2012	1	2012
Test and Evaluation: IT-B2	4	2011	4	2012
Test and Evaluation: IT-B1	1	2011	4	2011
Test and Evaluation: OTRR OA-1	1	2011	1	2011
Test and Evaluation: OTRR OA-2	1	2013	1	2013
Test and Evaluation: IOT&E	4	2013	1	2014
Test and Evaluation: IOT&E Report	1	2014	1	2014
Test and Evaluation: FOTE	4	2014	4	2017
Production: LRIP CA APN-4	2	2013	2	2013
Production: FRP Contract Award	3	2014	3	2014
Deliveries: EOC Delivery APN-4	3	2012	3	2012
Deliveries: EOC Delivery APN-4 (2)	4	2012	4	2012

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Deliveries: LRIP Delivery APN-4	4	2013	4	2013
Deliveries: FRP Delivery 1	2	2015	2	2015
Deliveries: FRP Delivery 2	2	2016	2	2016
Deliveries: USMC RDTE LRIP Delivery	3	2013	3	2013
Deliveries: USMC PMC LRIP Delivery	3	2013	3	2013
Deliveries: USMC PMC FRP Delivery 1	4	2014	4	2014
Deliveries: USMC PMC FRP Delivery 2	4	2015	4	2015
Deliveries: USMC PMC FRP Delivery 3	4	2016	4	2016
Deliveries: USMC PMC FRP Delivery 4	4	2017	4	2017