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Exhibit R-2, RDT&E Budget Item 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 0305239M: (U)RQ-21A							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	0.000	24.201	22.343	11.122	-	11.122	9.274	9.448	9.662	9.821	Continuing	Continuing
2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0)	0.000	24.201	22.343	11.122	-	11.122	9.274	9.448	9.662	9.821	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												
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 0305239M) 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)				FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total				
Previous President's Budget				24.201	22.343	11.158	-	11.158				
Current President's Budget				24.201	22.343	11.122	-	11.122				
Total Adjustments				0.000	0.000	-0.036	-	-0.036				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-	-							
• SBIR/STTR Transfer				-	-							
• Rate/Misc Adjustments				0.000	0.000	-0.036	-	-0.036				

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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 0305239M: (U)RQ-21A				PROJECT 2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0)	0.000	24.201	22.343	11.122	-	11.122	9.274	9.448	9.662	9.821	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												
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. Costs are shared between the two services. 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 2012	FY 2013	FY 2014	
Title: STUAS: Product Development									11.400	11.801	6.200	
									0	0	0	
FY 2012 Accomplishments:												
Continued the Engineering and Manufacturing Development efforts for the STUAS UAS program. Efforts include continued Technical and Operational Evaluation. Continued support for Government Engineering Technical Support, Logistics Support, Test and Evaluation, Contractor Support Services, Program Management Support and program related travel.												
FY 2013 Plans:												

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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 0305239M: (U)RQ-21A			PROJECT 2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0)				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014
Complete the Engineering and Manufacturing Development efforts for the STUAS UAS program. Procurement of two (2) Production Representative Models.											
FY 2014 Plans: Prime System Contractor will be responsible for system Upgrades/Payload Integration efforts as well as systems engineering, integrated logistics support, and associated management activities.											
Title: STUAS: Program Management									12.801	10.542	4.922
Articles:									0	0	0
FY 2012 Accomplishments: Provided for the Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support, and program related travel via NAWC Pax River.											
FY 2013 Plans: Continue support for Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support, and program related travel via NAWC Pax River.											
FY 2014 Plans: Provides for the Government Engineering Technical Support, Logistics Support, Test and Evaluation, Contractor Support Services, Program Management Support and program related travel via NAWC Pax River.											
Accomplishments/Planned Programs Subtotals									24.201	22.343	11.122
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/0444: NAVY STUAS/RQ-21A	0.000	9.593	0.000		0.000	0.000	0.000	0.000	0.000	0.000	37.793
• APN/0605: NAVY STUAS/RQ-21A Spares and Repair Parts	0.000	0.896	0.327		0.327	0.000	0.000	0.000	0.000	0.000	1.223
• PMC/4737: STUAS/RQ-21A	0.000	27.619	66.612		66.612	70.651	73.182	74.265	75.401	Continuing	Continuing
• RDTEN/0305234N: NAVY STUAS/RQ-21A	20.287	9.734	5.013		5.013	5.114	5.181	5.311	5.399	Continuing	Continuing
• PMC/7000: STUAS/RQ-21A Spares and Repair Parts	0.000	0.000	5.000		5.000	5.100	5.200	5.310	5.400	Continuing	Continuing

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2014 Navy							<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0305239M: (U)RQ-21A			<b>PROJECT</b> 2298: <i>SMALL (LEVEL 0) TACTICAL UAS (STUAL0)</i>		

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

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
<b>Remarks</b>											

**D. Acquisition Strategy**

The program office has utilized a competitive acquisition approach for award of the Engineering and Manufacturing Development effort to field a capability which meets threshold requirements. Utilize LRIP test articles to successfully complete IOT&E and achieve Initial Operational Capability (IOC) and Full Rate Production.

**E. Performance Metrics**

Attainment of STUAS IOC in accordance with approved schedule.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Navy</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0305239M: (U)RQ-21A						<b>PROJECT</b> 2298: <i>SMALL (LEVEL 0) TACTICAL UAS (STUAL0)</i>			
<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All 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>
STUAS	C/FPIF	Insitu, Inc:Bingen, WA	0.000	11.400	Nov 2011	11.801	May 2013	0.000		-		0.000	0.000	23.201	
Upgrades/Payloads	C/BOA	Insitu, Inc:Bingen, WA	0.000	0.000		0.000		6.200	Jan 2014	-		6.200	0.000	6.200	
<b>Subtotal</b>			0.000	11.400		11.801		6.200		0.000		6.200	0.000	29.401	
<b>Remarks</b> FY13 funding procures two (2) LRIP systems. FY14 funding for Upgrades/Payload Integration.															
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All 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>
STUAS	Various	NAWCAD:Patuxent River, MD	0.000	12.801	Dec 2011	10.542	Dec 2012	4.922	Dec 2013	-		4.922	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	12.801		10.542		4.922		0.000		4.922			
<b>Remarks</b> Funding will be provided to NAWCAD for management support.															
			<b>All Prior Years</b>	<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			0.000	24.201		22.343		11.122		0.000		11.122			
<b>Remarks</b>															

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Navy

R-1 Line #219

[illegible]

1319: *Research, Development, Test & Evaluation, Navy*

BA 7: Operational Systems Development

## R-1 ITEM NOMENCLATURE

PE 0305239M: (U)RQ-21A

PROJECT	
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2298: SMALL (LEVEL 0) TACTICAL UAS  
(STUAL0)

STUAS		FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Acquisition Milestones								MSC ▲	USMC IOC ▲	FRP ▲																			
Milestones																													
System Development		EMD																											
Hardware and Software Development																													
Upgrades/Payloads			EDM 1 ▼	EDM 2 ▼																									
Reviews		CDR ■																											
Test & Evaluation																													
Technical Evaluation			IT-B2																										
Operational Evaluation					OA-2				IOT&E																				
									IOT&E Report ▼																				
Production Milestones																													
Contract Awards								LRIP CA APN-4 ●		FRP CA ●																			
Deliveries:																													
								LRIP APN-4 1 qty 1 ▼																					
								USMC 10 qty	USMC 10 qty				USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty	USMC 25 qty				

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0305239M: (U)RQ-21A	<b>PROJECT</b> 2298: <i>SMALL (LEVEL 0) TACTICAL UAS (STUAL0)</i>	

**Schedule Details**

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>STUAS</b>				
Acquisition Milestones: Milestones: Milestone C	3	2013	3	2013
Acquisition Milestones: Milestones: Marine Corps IOC	4	2013	4	2013
Acquisition Milestones: Milestones: Full Rate Production Decision Review	1	2014	1	2014
System Development: Hardware and Software Development: Engineering and Manufacturing Development	1	2012	1	2013
System Development: Hardware and Software Development: Engineering Design Model (EDM) 1	3	2012	3	2012
System Development: Hardware and Software Development: EDM 2	4	2012	4	2012
System Development: Upgrades/Payloads: Upgrades/Payloads Integration	1	2014	4	2018
System Development: Reviews: Critical Design Review	1	2012	1	2012
Test & Evaluation: Technical Evaluation: IT-B2	3	2012	3	2012
Test & Evaluation: Operational Evaluation: OTRR OA-2	1	2013	1	2013
Test & Evaluation: Operational Evaluation: Initial Operational Test & Evaluation (IOT&E)	4	2013	1	2014
Test & Evaluation: Operational Evaluation: IOT&E Report	1	2014	1	2014
Test & Evaluation: Operational Evaluation: Follow On Test and Evaluation	4	2014	4	2018
Production Milestones: Contract Awards: Low Rate Initial Production (LRIP) CA APN-4	3	2013	3	2013
Production Milestones: Contract Awards: Full Rate Production (FRP) Contract Award	2	2014	2	2014
Deliveries:: LRIP Delivery APN-4	4	2013	4	2013
Deliveries:: USMC RDT&E LRIP Delivery	4	2013	4	2013
Deliveries:: USMC PMC LRIP Delivery	1	2014	1	2014
Deliveries:: USMC PMC FRP Delivery 1	4	2014	1	2015



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013	
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		<b>Start</b>		<b>End</b>
<b>Events by Sub Project</b>		<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>
Deliveries:: USMC PMC FRP Delivery 2		4	2015	1
Deliveries:: USMC PMC FRP Delivery 3		4	2016	1
Deliveries:: USMC PMC FRP Delivery 4		4	2017	1
Deliveries:: USMC PMC FRP Delivery 5		4	2018	4