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Exhibit R-2, RDT&E Budget Item Justification: 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 0305234N: <i>Small (LEVEL 0) Tactical UAS (STUASL0)</i>
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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	29.985	20.287	9.734	5.013	-	5.013	5.114	5.181	5.311	5.399	Continuing	Continuing
3192: STUAS	29.985	20.287	9.734	5.013	-	5.013	5.114	5.181	5.311	5.399	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

Small Tactical Unmanned Aircraft System (STUAS) is a non-lethal joint tactical Unmanned Aerial Vehicle systems for DoD to provide Persistent Intelligence, Surveillance and Reconnaissance (ISR)/Target Acquisition which will fill the capability gap in ISR services available to Fleet and Marine forces.

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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	21.387	9.734	5.044	-	5.044
Current President's Budget	20.287	9.734	5.013	-	5.013
Total Adjustments	-1.100	0.000	-0.031	-	-0.031
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.100	0.000			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-0.019	-	-0.019
• Rate/Misc Adjustments	0.000	0.000	-0.012	-	-0.012

Change Summary Explanation

Schedule:

STUAS - Updated delivery schedule for production systems to match procurement budget exhibit.

Updated schedule to reflect a delay in Engineering and Maintenance Development phase.

Technical:

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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 0305234N: Small (LEVEL 0) Tactical UAS (STUASL0)				PROJECT 3192: STUAS			
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
3192: STUAS	29.985	20.287	9.734	5.013	-	5.013	5.114	5.181	5.311	5.399	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												
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. Costs are shared between the two services.												
A STUAS system (Land-based or Ship-based) consists of five (5) air vehicles, Ground Control Station, 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: Engineering and Manufacturing Development Articles: Description: Prime System Contractor will be responsible for overall system development and performance as well as systems engineering, integrated logistics support, and associated management activities. FY 2012 Accomplishments: Continued the Engineering and Manufacturing Development efforts for the STUAS UAS program.									11.000 0	0.000	0.000	
Title: Engineering and Technical Services Articles:									9.287 0	9.734 0	3.513 0	

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305234N: Small (LEVEL 0) Tactical UAS (STUASLO)				PROJECT 3192: STUAS			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014
Description: Provides for the Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support, Program related travel; in support of the upgrades/payloads efforts.											
FY 2012 Accomplishments: 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: 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.											
FY 2014 Plans: Provide for the Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support, Program related travel; in support of the upgrades/payloads efforts.											
Title: Upgrades / Payloads Integration									0.000	0.000	1.500
Articles:											0
Description: Provide Upgrades / Payloads Integration											
FY 2014 Plans: Prime System Contractor will be responsible for upgrades/payload integration as well as systems engineering, integrated logistics support, and associated management activities.											
Accomplishments/Planned Programs Subtotals									20.287	9.734	5.013
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-4/044400: STUASLO (Tier II)	0.000	9.593	0.000		0.000	0.000	0.000	0.000	0.000	0.000	37.793
• APN-6/060510: STUASLO (Tier II)	0.000	0.896	0.327		0.327	0.000	0.000	0.000	0.000	0.000	1.223
• PMC-473700: STUAS/RQ-21A	0.000	27.619	66.612		66.612	70.651	73.182	74.265	75.401	Continuing	Continuing
• RDT&E,MC/0305239M: RQ-21A	24.201	22.343	11.122		11.122	9.274	9.448	9.662	9.821	Continuing	Continuing
• PMC/7000: STUAS/RQ-21A	0.000	0.000	5.000		5.000	5.100	5.200	5.310	5.400	Continuing	Continuing
Spares and Repair Parts											

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C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
<u>Remarks</u>											
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. Successfully complete Initial Operational Test and Evaluation 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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Exhibit R-3, RDT&E Project Cost Analysis: 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 0305234N: Small (LEVEL 0) Tactical UAS (STUASLO)				PROJECT 3192: STUAS					
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
Upgrades/Payloads	C/BOA	Insitu, Inc:Bingen, WA	0.000	0.000		0.000		1.200	Jan 2014	-		1.200	0.000	1.200	1.200
Prior year cost no longer funded in the FYDP	Various	Various:Various	13.935	11.000	Nov 2011	0.000		0.000		-		0.000	0.000	24.935	
Subtotal			13.935	11.000		0.000		1.200		0.000		1.200	0.000	26.135	
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
Integrated Logistics Support	WR	NAWC-AD:Patuxent River, MD	1.972	1.602	Dec 2011	0.832	Dec 2012	0.312	Dec 2013	-		0.312	Continuing	Continuing	Continuing
Training Support	WR	TSD:Orlando, FL	1.299	0.963	Dec 2011	0.624	Dec 2012	0.491	Dec 2013	-		0.491	Continuing	Continuing	Continuing
Software Engineering Support	WR	NAWC-WD:China Lake, CA	2.121	2.093	Dec 2011	1.756	Dec 2012	1.200	Dec 2013	-		1.200	Continuing	Continuing	Continuing
Subtotal			5.392	4.658		3.212		2.003		0.000		2.003			
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
Developmental Test & Evaluation	C/CPFF	OPTEVFOR:Norfolk, VA	1.262	0.757	Jan 2012	2.200	Dec 2012	0.300	Feb 2014	-		0.300	0.000	4.519	4.519
Simulation and Modeling	MIPR	JTC/SIL:Redstone Arsenal, AL	1.136	0.500	Mar 2012	0.500	Mar 2013	0.500	Mar 2014	-		0.500	Continuing	Continuing	Continuing
Subtotal			2.398	1.257		2.700		0.800		0.000		0.800			

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Management Services (\$ 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
Contractor Engineering Support	MIPR	DTIC:FT. Belvoir, VA	1.306	0.588	Jan 2012	0.534	Jan 2013	0.236	Jan 2014	-		0.236	Continuing	Continuing	Continuing
Government Engineering Support	WR	NAWC-AD:Patuxent River, MD	5.499	2.095	Dec 2011	2.551	Dec 2012	0.423	Dec 2013	-		0.423	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	Ausley:Patuxent River, MD	1.380	0.654	Dec 2011	0.687	Dec 2012	0.301	Dec 2013	-		0.301	0.000	3.022	3.022
Travel	WR	Various:Various	0.075	0.035	Dec 2011	0.050	Nov 2012	0.050	Nov 2013	-		0.050	Continuing	Continuing	Continuing
Subtotal			8.260	3.372		3.822		1.010		0.000		1.010			

Remarks Travel contract type is TO.															
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	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	29.985	20.287		9.734		5.013		0.000		5.013			

Remarks															
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Exhibit R-4, RDT&E Schedule Profile: 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 0305234N: Small (LEVEL 0) Tactical
UAS (STUASL0)

PROJECT

3192: STUAS

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	1Q	2Q	3Q	4Q
Acquisition Milestones																												
Milestones					MSC ▲			USMC IOC ▲	FRPD ◆																			
System Development																												
Hardware and Software Development																												
Upgrades / Payloads																												
Reviews	CDR ■																											
Test & Evaluation																												
Technical Evaluation																												
Operational Evaluation																												
Production Milestones																												
Contract Awards																												
Deliveries																												

2014PB - 0305234N - 3192

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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 0305234N: <i>Small (LEVEL 0) Tactical UAS (STUASL0)</i>	PROJECT 3192: <i>STUAS</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
STUAS				
Acquisition Milestones: Milestones: Milestone C	1	2013	1	2013
Acquisition Milestones: Milestones: USMC Initial Operational Capability (IOC)	4	2013	4	2013
Acquisition Milestones: Milestones: Full Rate Production Decision	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	2	2013	2	2013
Production Milestones: Contract Awards: Full Rate Production (FRP) Contract Award	3	2014	3	2014
Deliveries: LRIP Delivery APN-4	4	2013	4	2013