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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy	Date: February 2015
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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	47.125	11.122	8.192	6.435	-	6.435	9.608	9.393	8.853	9.035	Continuing	Continuing
2298: <i>SMALL (LEVEL 0) TACTICAL UAS (STUALO)</i>	47.125	11.122	8.192	6.435	-	6.435	9.608	9.393	8.853	9.035	Continuing	Continuing

A. Mission Description and Budget Item Justification

The RQ-21A program will provide persistent maritime and land-based tactical Reconnaissance, Surveillance and Target Acquisition (RSTA) data collection and dissemination capability to the war fighter. For the United States Marine Corps (USMC), RQ-21A will provide the Marine Expeditionary Force and subordinate commands (divisions and regiments) with a dedicated, organic Intelligence, Surveillance, and Reconnaissance (ISR) capability delivering intelligence products directly to the tactical commander in real time. For the United States Navy (USN) RQ-21A will provide persistent RSTA support for tactical maneuver decisions and unit-level force defense/force protection for Navy Ships, Marine Corps land forces, Navy Expeditionary Combat Command forces, and Navy Special Warfare Units. This is a combined development program between Navy and Marine Corps. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE 0305234N RQ-21A BLACKJACK (formerly known as (STUAS)).

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	11.122	8.192	8.376	-	8.376
Current President's Budget	11.122	8.192	6.435	-	6.435
Total Adjustments	-	-	-1.941	-	-1.941
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	-1.941	-	-1.941

Change Summary Explanation

The FY 2016 funding request was reduced by \$1.848M to account for the availability of prior year execution balances. Schedule: Due to ship availability, IOT&E extends through 4QFY14 thereby extending the correction of deficiencies and shifting the IOT&E final report into 1QFY15.

The decrease in funding from FY14 to FY15 is due to completion of major test periods. The decrease in funding from FY15 to FY16 reflects the re-phasing of funding to better align with revised program development schedule.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A				Project (Number/Name) 2298 / SMALL (LEVEL 0) TACTICAL UAS (STUAL0)			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0)	47.125	11.122	8.192	6.435	-	6.435	9.608	9.393	8.853	9.035	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The RQ-21A program will provide persistent maritime and land-based tactical Reconnaissance, Surveillance and Target Acquisition (RSTA) data collection and dissemination capability to the Warfighter. For the United States Marine Corps (USMC), RQ-21A will provide the Marine Expeditionary Force and subordinate commands (divisions and regiments) with a dedicated, organic Intelligence, Surveillance, and Reconnaissance (ISR) capability delivering intelligence products directly to the tactical commander in real time. For the United States Navy (USN) RQ-21A will provide persistent RSTA support for tactical maneuver decisions and unit-level force defense/force protection for Navy Ships, Marine Corps land forces, Navy Expeditionary Combat Command forces, and Navy Special Warfare Units. This is a combined development program between Navy and Marine Corps. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE 0305234N RQ-21A BLACKJACK (formerly known as (Small Tactical Unmanned Aircraft System (STUAS)).

The RQ-21A system will continue to evolve addressing capability shortfalls, new requirements, obsolescence equipment, reliability, maintainability, and safety issues. Additional capabilities and/or system upgrades may include Navy Command and Control integration, Weapons Integration, Heavy Fuel Engine, Laser Designator, Frequency Agile Communications Relay, Digital Common Data link, and cyclic refresh of the Electro-optical/Infrared (EO/IR) camera. The decrease in funding from FY14 to FY15 is due to completion of major test periods. The decrease in funding from FY15 to FY16 reflects the re-phasing of funding to better align with ongoing program development.

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

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Product Development	6.200	4.640	2.699	-	2.699
Articles:	-	-	-	-	-
FY 2014 Accomplishments: -Completed developmental land and sea based testing. -Completed land based IOT&E. -Initiated correction of deficiencies from IOT&E. -Continued software engineering and development for software block updates.					
FY 2015 Plans: -Complete ship based IOT&E. -Continue correction of deficiencies from IOT&E. -Continue software engineering and development for software block updates.					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
-Initiate advanced heavy fuel engine development. FY 2016 Base Plans: -Continue correction of deficiencies from IOT&E. -Continue software engineering and development for software block updates. -Continue advanced heavy fuel engine development. -Initiate cyclic technology refresh for EO/IR camera, Communications Relay Package, and Automated Identification System. FY 2016 OCO Plans: N/A					
Title: Engineering and Technical Services Articles: FY 2014 Accomplishments: -Continued Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support efforts, and program related travel via NAWCAD Pax River in support of IOT&E. FY 2015 Plans: -Continue Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support efforts, and program related travel via NAWC Pax River in support of IOT&E, upgrades, correction of deficiencies, and advanced engine development efforts. FY 2016 Base Plans: -Continue Government Engineering Technical Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support efforts, and program related travel via NAWCAD Pax River in support of upgrades and technology refresh. FY 2016 OCO Plans: N/A	4.922	3.552	3.736	-	3.736
	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	11.122	8.192	6.435	-	6.435

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C. Other Program Funding Summary (\$ in Millions)											
			FY 2016	FY 2016	FY 2016					Cost To	
Line Item	FY 2014	FY 2015	Base	OCO	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
• RDTEN/0305234N: <i>USN RQ-21A Blackjack</i>	5.033	4.813	4.647	-	4.647	5.276	5.266	5.258	5.365	Continuing	Continuing
• PMC/4737: <i>STUAS/RQ-21A</i>	66.007	69.315	84.916	-	84.916	84.034	78.779	76.675	83.332	Continuing	Continuing
• PMC/7000: <i>STUAS/RQ-21A</i>	4.950	5.093	4.111	-	4.111	5.869	5.760	5.454	5.567	Continuing	Continuing
<i>Spares and Repair Parts</i>											
• APN/0444: <i>USN</i> <i>RQ-21A Blackjack</i>	-	55.000	3.450	55.000	58.450	-	-	-	-	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The program office utilized a competitive acquisition approach to award the Engineering and Manufacturing Development effort to field a capability that meets threshold requirements. The Low Rate Initial Production test article was utilized to successfully complete Initial Operational Test and Evaluation and achieve Initial Operational Capability (IOC) in the fourth quarter of FY2014. Future upgrades and development shall be competitively sourced or procured via Government Laboratories with Insitu, the prime contractor, performing integration efforts as required.											
E. Performance Metrics											
Attainment of Full Rate Production (FRP), correction of Deficiencies from the IOT&E Report, and attainment of USMC Full Operational Capability (FOC) in accordance with the approved schedule.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy													Date: February 2015		
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A				Project (Number/Name) 2298 / SMALL (LEVEL 0) TACTICAL UAS (STUALO)					

Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development/ Upgrades	C/BOA	Insitu, Inc : Bingen, WA	0.000	6.200	Jan 2014	4.640	Dec 2014	2.699	Jan 2016	-		2.699	Continuing	Continuing	Continuing
Prior Years Cumulative Total	C/FPIF	Insitu, Inc : Bingen, WA	28.492	-		-		-		-		-	-	28.492	28.492
Subtotal			28.492	6.200		4.640		2.699		-		2.699	-	-	-

Remarks
Product development corresponds to R-2A Product Development.

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	-		1.118	Dec 2014	1.118	Dec 2015	-		1.118	Continuing	Continuing	Continuing
Government Engineering Support	WR	NAWCAD : Patuxent River, MD	0.000	-		1.312	Dec 2014	1.496	Dec 2015	-		1.496	Continuing	Continuing	Continuing
Subtotal			0.000	-		2.430		2.614		-		2.614	-	-	-

Remarks
Support corresponds to R-2A Engineering and Technical Services.

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	MIPR	NAWCAD : Patuxent River, MD	0.000	-		0.650	Dec 2014	0.650	Dec 2015	-		0.650	Continuing	Continuing	Continuing
Subtotal			0.000	-		0.650		0.650		-		0.650	-	-	-

Remarks
Test and Evaluation corresponds to R-2A Engineering and Technical Services.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015		
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Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FOT&E planned in FY16 and out to provide test periods for product updates and cyclic technology refresh.															

Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
STUAS	Various	NAWCAD : Patuxent River, MD	18.633	4.922	Dec 2013	-		-		-		-	Continuing	Continuing	Continuing
Contractor Engineering Support	MIPR	DTIC : Ft. Belvoir, VA	0.000	-		0.236	Mar 2015	0.236	Mar 2016	-		0.236	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	Bowhead : Patuxent River, MD	0.000	-		0.236	Jan 2015	0.236	Jan 2016	-		0.236	Continuing	Continuing	Continuing
Subtotal			18.633	4.922		0.472		0.472		-		0.472	-	-	-

Remarks Management Services corresponds to R-2A Engineering and Technical Services.															
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			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			47.125	11.122		8.192		6.435		-		6.435	-	-	-

Remarks															
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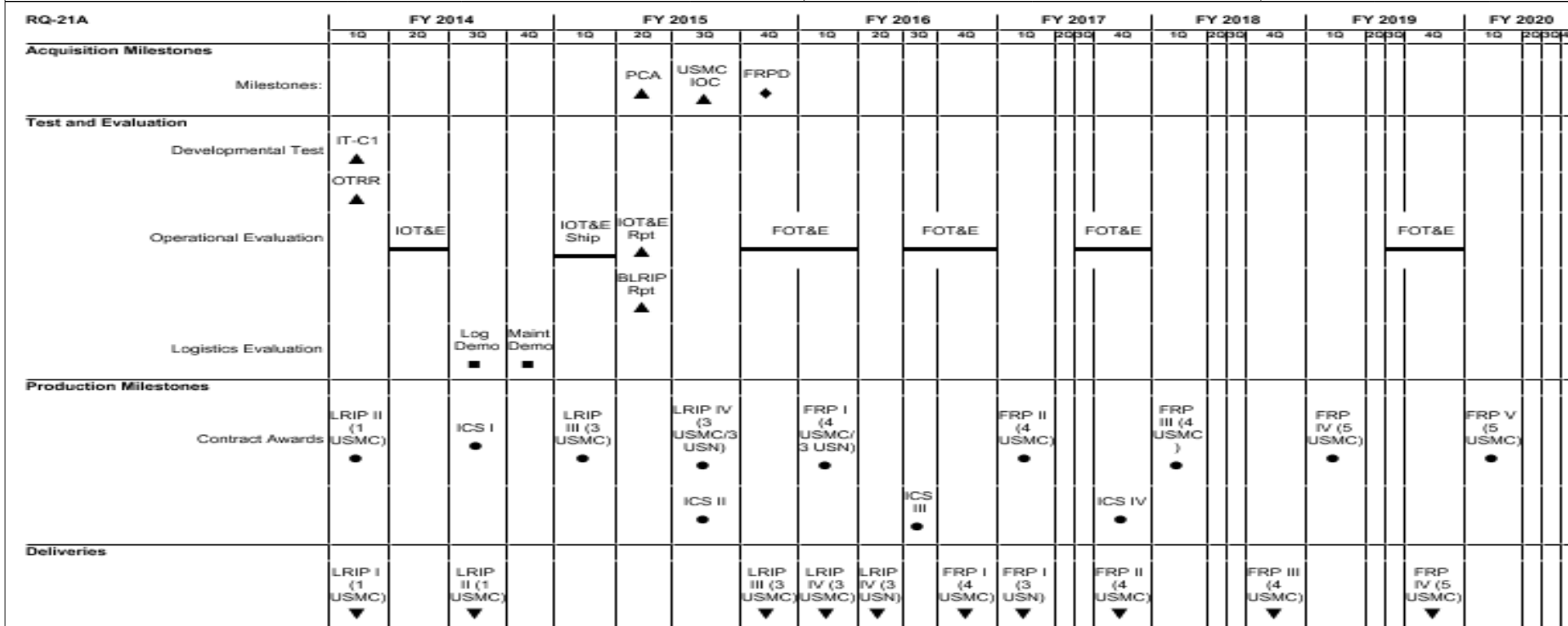
Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity
1319 / 7

R-1 Program Element (Number/Name)
PE 0305239M / (U)RQ-21A

Project (Number/Name)
2298 / SMALL (LEVEL 0) TACTICAL UAS
(STUALO)



2016PB - 0305239M - 2298

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A	Project (Number/Name) 2298 / SMALL (LEVEL 0) TACTICAL UAS (STUAL0)	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RQ-21A				
Acquisition Milestones: Milestones:: USMC Initial Operational Capability (IOC)	3	2015	3	2015
Acquisition Milestones: Milestones:: Full Rate Production Decision	4	2015	4	2015
Acquisition Milestones: Milestones:: Physical Configuration Audit	2	2015	2	2015
Test and Evaluation: Developmental Test: Initial Testing - C1	1	2014	1	2014
Test and Evaluation: Developmental Test: Operational Test Readiness Review (OTRR)	1	2014	1	2014
Test and Evaluation: Operational Evaluation: Initial Operational Test & Evaluation (IOT&E)	2	2014	2	2014
Test and Evaluation: Operational Evaluation: Initial Operational Test & Evaluation (IOT&E) Ship	1	2015	1	2015
Test and Evaluation: Operational Evaluation: Follow-On Test and Evaluation 1	4	2015	1	2016
Test and Evaluation: Operational Evaluation: Follow-On Test and Evaluation 2	3	2016	4	2016
Test and Evaluation: Operational Evaluation: Follow-On Test and Evaluation 3	3	2017	4	2017
Test and Evaluation: Operational Evaluation: Follow-On Test and Evaluation 4	3	2019	4	2019
Test and Evaluation: Operational Evaluation: IOT&E Report	2	2015	2	2015
Test and Evaluation: Operational Evaluation: Beyond LRIP Report (BLRIP)	2	2015	2	2015
Test and Evaluation: Logistics Evaluation: Logistics Demo LRIP 1	3	2014	3	2014
Test and Evaluation: Logistics Evaluation: Maintenance Demo	4	2014	4	2014
Production Milestones: Contract Awards: LRIP Lot 2	1	2014	1	2014
Production Milestones: Contract Awards: LRIP Lot 3	1	2015	1	2015
Production Milestones: Contract Awards: LRIP Lot 4	3	2015	3	2015
Production Milestones: Contract Awards: Full-Rate Production Contract Award 1	1	2016	1	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015		
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A		Project (Number/Name) 2298 / SMALL (LEVEL 0) TACTICAL UAS (STUAL0)	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: Full-Rate Production Contract Award 2		1	2017	1	2017
Production Milestones: Contract Awards: Full-Rate Production Contract Award 3		1	2018	1	2018
Production Milestones: Contract Awards: Full-Rated Production Contract Award 4		1	2019	1	2019
Production Milestones: Contract Awards: Full-Rate Production Contract Award 5		1	2020	1	2020
Production Milestones: Contract Awards: ICS Contract Award 1		3	2014	3	2014
Production Milestones: Contract Awards: ICS Contract Award 2		3	2015	3	2015
Production Milestones: Contract Awards: ICS Contract Award 3		3	2016	3	2016
Production Milestones: Contract Awards: ICS Contract Award 4		4	2017	4	2017
Deliveries: LRIP Lot 1		1	2014	1	2014
Deliveries: LRIP Lot 2		3	2014	3	2014
Deliveries: LRIP Lot 3		4	2015	4	2015
Deliveries: LRIP Lot 4 USMC		1	2016	1	2016
Deliveries: LRIP Lot 4 USN		2	2016	2	2016
Deliveries: FRP Lot 1 USMC		4	2016	4	2016
Deliveries: FRP Lot 1 USN		1	2017	1	2017
Deliveries: FRP Lot 2		4	2017	4	2017
Deliveries: FRP Lot 3		4	2018	4	2018
Deliveries: FRP Lot 4		4	2019	4	2019