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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	16.914	10.853	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	27.767
3192: <i>RQ-21 BLACKJACK</i>	16.914	10.853	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	27.767

A. Mission Description and Budget Item Justification

The RQ-21A program provides 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 provides 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 provides 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 through FY21. In support of Marine Corps Force Design 2030, Deputy Commandant, Combat, Development and Integration (CD&I) directed divestment of RQ-21A via letter dated February 22, 2021. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission under PE 0305234N RQ-21A Blackjack.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	10.853	0.000	0.000	-	0.000
Current President's Budget	10.853	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Funding:

N/A

Schedule:

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A				Project (Number/Name) 3192 / RQ-21 BLACKJACK			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
3192: RQ-21 BLACKJACK	16.914	10.853	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	27.767
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Prior to FY 2019, this effort was funded under PU 2298: SMALL (LEVEL 0) TACTICAL UAS (STUAL0).

A. Mission Description and Budget Item Justification

The RQ-21A program provides 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 provides 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 provides 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 through FY21. In support of Marine Corps Force Design 2030, Deputy Commandant, Combat, Development and Integration (CD&I) directed divestment of RQ-21A via letter dated February 22, 2021. This submission is the Marine Corps portion of the program and has been coordinated with the Navy budget submission PE 0305234N RQ-21A Blackjack.

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, Extended Range, Weapons Integration, Heavy Fuel Engine, Short Wave Infrared, Laser Designator, Frequency Agile Communications Relay, Digital Common Data link, and cyclic refresh of the Electro-optical/Infrared (EO/IR) camera.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: Product Development/Upgrades	8.064	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2022 Plans: N/A					
FY 2023 Base Plans: N/A					
FY 2023 OCO Plans: N/A					
Title: Engineering Support	0.626	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy **Date:** April 2022

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A	Project (Number/Name) 3192 / RQ-21 BLACKJACK
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
FY 2022 Plans: N/A					
FY 2023 Base Plans: N/A					
FY 2023 OCO Plans: N/A					
Title: Test and Evaluation	2.163	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2022 Plans: N/A					
FY 2023 Base Plans: N/A					
FY 2023 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	10.853	0.000	0.000	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0444: STUASLO	30.121	13.151	2.703	-	2.703	2.778	2.832	0.000	0.000	0.000	347.890
• RDTE/0305234N: (U)Small (Level 0) Tactical UAS (STUASLO)	8.773	1.772	3.761	-	3.761	6.913	6.050	6.124	6.233	Continuing	Continuing
• APN/0598: RQ-21 Series	7.794	14.123	6.576	-	6.576	6.554	6.638	0.000	0.000	0.000	119.410

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. Full rate production decision was successfully achieved in 4Q FY 2016. Attrition Air Vehicles procurement from FY 2019 on will be done via sole source contracts with Insitu, the prime contractor. Future payload upgrades and development shall be competitively sourced or procured via Government Laboratories with Insitu performing integration efforts as required.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A	Project (Number/Name) 3192 / RQ-21 BLACKJACK
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Upgrade Efforts/Correction of Deficiencies	C/BOA	Insitu, Inc : Bingen, WA	9.597	5.005	Apr 2021	0.000		0.000		-		0.000	0.000	14.602	14.602
Alternative recovery and landing	WR	NAWC-AD : Patuxent River, MD	3.012	3.059	Apr 2021	0.000		0.000		-		0.000	0.000	6.071	-
Subtotal			12.609	8.064		0.000		0.000		-		0.000	0.000	20.673	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Engineering Support	WR	NAWC-AD : Patuxent River, MD	1.308	0.626	Dec 2020	0.000		0.000		-		0.000	0.000	1.934	-
Software Engineering Support	WR	NAWC-WD : China Lake, Ca	0.222	0.000		0.000		0.000		-		0.000	0.000	0.222	-
Subtotal			1.530	0.626		0.000		0.000		-		0.000	0.000	2.156	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development Test & Evaluation	TBD	OPTEVFOR : Norfolk, VA	0.626	0.404	Jul 2021	0.000		0.000		-		0.000	0.000	1.030	-
Operational Test & Evaluation	WR	OPTEVFOR : Norfolk, VA	0.399	0.000		0.000		0.000		-		0.000	0.000	0.399	-
Development Test & Evaluation	WR	NAWC_AD : Patuxent River, MD	1.200	1.206	Jul 2021	0.000		0.000		-		0.000	0.000	2.406	-
Operational Test & Evaluation	C/BA	VMX-1 : Yuma, AZ	0.550	0.553	Jul 2021	0.000		0.000		-		0.000	0.000	1.103	-
Subtotal			2.775	2.163		0.000		0.000		-		0.000	0.000	4.938	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy

Date: April 2022

Appropriation/Budget Activity
1319 / 7

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

Project (Number/Name)
3192 / RQ-21 BLACKJACK

Fiscal Year	FY21				FY22				FY23				FY24				FY25				FY26				FY27				FY28			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones	☆ Marine Corps RQ-21A Divestment ☆																															
Contracts	IDIQ (0033)																															
	Follow on IDIQ																															
Integrated and Operational Test	Payloads/PMU/Cyber				Correction of Deficiencies / Safety / Cyber																											
Capability & Sustainment	Anti-Jamming GPS antenna (MAGNA-I)																															
	IFF Transponder w/mode 5																															
	EO/IR w/LD (AC14) Integration																															
	Extended Rails																															
	Communication Relay																															
	C2 Extended Range (SOREL)																															
	EO950 Integration																															
	EO/IR EOL SW																															
	PMU V3 / 7.8.0 SW																															
	Transport Cases (PHS&T)																															
	Split Aces SW																															
	SURFR 3B																															
	Hydraulic Power Unit																															
Windows 10 Operating System																																
Lighting																																
System Deliveries	MAGNA-I																															
	IFF w/Mode 5																															
	LD Turret (AC14)																															
	Extended Rails																															
	EO950 Turret																															
	EO/IR EOL SW																															
	7.8.0 SW (V3)																															
	Transport Cases (PHS&T)																															
	SURFR 3A																															
	SURFR 3B																															
	Split Aces HW																															
	Split Aces SW																															
	Hydraulic Power Unit																															
Windows 10 OS																																
Lighting																																
DoN 22	USN (25)																															
Procure System Qty USN																																
DoN 22	USMC (32)																															
Procure System Qty USMC																																
Marine Corps/Naval Special Warfare																																
				Marine Corps				Naval Special Warfare																								

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305239M / (U)RQ-21A	Project (Number/Name) 3192 / RQ-21 BLACKJACK

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RQ-21A				
Acquisition Milestones: Marine Corps RQ-21A Divestment	2	2021	2	2021
Integrated and Operational Test: Integrated and Operational Test - Payloads (Correction of Deficiencies, Safety, Cybersecurity)	1	2021	4	2022