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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305234N / <i>Small (Level 0) Tactical UAS (STUASL0)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	107.315	1.772	3.761	2.999	-	2.999	0.000	0.000	0.000	0.000	0.000	115.847
3192: <i>RQ-21 BLACKJACK</i>	107.315	1.772	3.761	2.999	-	2.999	0.000	0.000	0.000	0.000	0.000	115.847

A. Mission Description and Budget Item Justification

The RQ-21A BLACKJACK (formerly known as The Small Tactical Unmanned Aircraft System (STUAS)) is a United States Navy (USN) program that provides persistent maritime and land-based tactical 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 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. The RQ-21A BLACKJACK United States Marine Corps program (PE 0305239M) began divesting in FY21 in support of Marine Corps Force Design 2030. Per Deputy Commandant, Combat, Development and Integration (CD&I) directed divestment of RQ-21A via letter dated February 22, 2021 and will complete divestiture in FY23. Office of the Chief of Naval Operations (OPNAV), Naval Special Warfare Branch (N951), directed the United States Navy (USN) divestment of RQ-21A via letter dated 23 January 2023. USN divestment will complete at the conclusion of FY25.

The RQ-21A BLACKJACK will continue to correct safety related deficiencies to maintain current operations without loss of capability. Corrections of deficiencies may include Command and Control, Frequency Agile Communications Relay, Airborne Precision Engagement and Targeting, Digital Common Data Link, Launch and Recovery, and periodic refresh of the Electro-Optical/Infrared camera.

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 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	1.772	3.761	6.913	-	6.913
Current President's Budget	1.772	3.761	2.999	-	2.999
Total Adjustments	0.000	0.000	-3.914	-	-3.914
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-3.913	-	-3.913
• Rate/Misc Adjustments	0.000	0.000	-0.001	-	-0.001

UNCLASSIFIED

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<p><u>Change Summary Explanation</u> Schedule: Revised to reflect the program's latest procurement funding profile.</p> <p>FY 2024 funding request was reduced by \$3.914M since the previous President's Budget submission to account for Marine Corps divestment and thus solely support NSW requirements.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305234N / <i>Small (Level 0) Tactical UAS (STUASLO)</i>	Project (Number/Name) 3192 / RQ-21 BLACKJACK
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3192: RQ-21 BLACKJACK	107.315	1.772	3.761	2.999	-	2.999	0.000	0.000	0.000	0.000	0.000	115.847
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The RQ-21A BLACKJACK (formerly known as The Small Tactical Unmanned Aircraft System (STUAS)) is a United States Navy (USN) program that provides persistent maritime and land-based tactical 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. 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. The RQ-21A BLACKJACK United States Marine Corps program (PE 0305239M) began divesting in FY21 in support of Marine Corps Force Design 2030. Per Deputy Commandant, Combat, Development and Integration (CD&I) directed divestment of RQ-21A via letter dated February 22, 2021. Office of the Chief of Naval Operations (OPNAV), Naval Special Warfare Branch (N951), directed the United States Navy (USN) divestment of RQ-21A via letter dated 23 January 2023. USN divestment will complete at the conclusion of FY25.

The RQ-21A BLACKJACK will continue to correct safety related deficiencies to maintain current operations without loss of capability. Corrections of deficiencies may include Command and Control, Frequency Agile Communications Relay, Airborne Precision Engagement and Targeting, Digital Common Data Link, Launch and Recovery, and periodic refresh of the Electro-Optical/Infrared camera.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Product Development/Upgrade Efforts	1.000	2.766	2.000	0.000	2.000
Articles:	-	-	-	-	-
FY 2023 Plans:					
The program will perform investigations, studies, and continue prototype efforts for an Airborne Precision Engagement and Targeting capability, and Weapons integration capability for RQ-21A platform. The program will improve the ability of the RQ-21A air vehicle to recover in a GPS denied environment and continue upgrades to command and control, reduce recovery damage, increase Propulsion Module Unit (PMU) performance and reliability, improved turret optics and target acquisition capability, and decreasing the system's expeditionary footprint. The program will perform software development and trade studies to correct deficiencies identified from test as well as enable additional capabilities such as Command and Control.					
FY 2024 Base Plans:					

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
The program will perform software development and trade studies to correct safety deficiencies identified from tests. FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Decrease from FY2023 to FY2024 of \$0.766M is due to the completion of Alticam 14.					
Title: Engineering Support FY 2023 Plans: The program will perform investigations, studies, and continue prototype efforts for an Airborne Precision Engagement and Targeting capability, and Weapons integration capability for RQ-21A platform. The program will improve the ability of the RQ-21A air vehicle to recover in a GPS denied environment and continue upgrades to command and control, reduce recovery damage, increase Propulsion Module Unit (PMU) performance and reliability, improved turret optics and target acquisition capability, and decreasing the system's expeditionary footprint. The program will perform software development and trade studies to correct deficiencies from test as well as enable additional capabilities such as Extended Range and enable a block upgrade of multiple system components at a time. FY 2024 Base Plans: The program will perform software development and trade studies to correct deficiencies from tests. FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Increase from FY2023 to FY2024 of \$0.004K is due to the increase in cost of engineering support.	0.772	0.995	0.999	0.000	0.999
Articles:	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	1.772	3.761	2.999	0.000	2.999

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• APN/0444: STUASLO	13.151	2.703	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	342.280
• APN/0598: RQ-21 Series	14.069	6.576	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	106.164

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

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 that meets threshold requirements. Low Rate Initial Production (LRIP) test article was utilized to successfully complete Initial Operational Test and Evaluation (IOT&E). The program is in operations and sustainment.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305234N / <i>Small (Level 0) Tactical UAS (STUASLO)</i>	Project (Number/Name) 3192 / <i>RQ-21 BLACKJACK</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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	21.517	1.000	Mar 2022	2.766	Mar 2023	2.000	Mar 2024	-		2.000	0.000	27.283	27.283
Prior year Prod Devt no longer funded in the FYDP	Various	Various : Various	29.125	0.000		0.000		0.000		-		0.000	0.000	29.125	-
Subtotal			50.642	1.000		2.766		2.000		-		2.000	0.000	56.408	N/A

Remarks
Product development corresponds to R-2A Upgrade Efforts. Decrease from FY2023 to FY2024 of \$0.766M is due to the completion of Alticam 14.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Software Engineering Support	WR	NAWC-WD : China Lake, CA	17.330	0.293	Dec 2021	0.330	Dec 2022	0.336	Dec 2023	-		0.336	0.000	18.289	-
Government Engineering Support	WR	Various : Various	16.048	0.061	Dec 2021	0.086	Dec 2022	0.087	Dec 2023	-		0.087	0.000	16.282	-
Prior year Support no longer funded in the FYDP	Various	Various : Various	8.482	0.000		0.000		0.000		-		0.000	0.000	8.482	-
Subtotal			41.860	0.354		0.416		0.423		-		0.423	0.000	43.053	N/A

Remarks
Support is included within R-2A Engineering Support.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Developmental Test & Evaluation (DT&E)	WR	Various : Various	4.524	0.131	Jul 2022	0.155	Jul 2023	0.154	Jul 2024	-		0.154	0.000	4.964	-
Operational Test & Evaluation (OT&E)	WR	Various : Various	0.434	0.022	Dec 2021	0.039	Dec 2022	0.037	Dec 2023	-		0.037	0.000	0.532	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Subtotal			4.958	0.153		0.194		0.191		-		0.191	0.000	5.496	N/A

Remarks
Test and Evaluation is included within R-2A Engineering Support.

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Contractor Engineering Support	MIPR	Various : Various	3.847	0.100	Mar 2022	0.180	Mar 2023	0.183	Mar 2024	-		0.183	0.000	4.310	4.310
Program Management Support	C/CPFF	Bowhead : Patuxent River, MD	3.057	0.125	Jan 2022	0.152	Jan 2023	0.151	Jan 2024	-		0.151	0.000	3.485	3.485
Travel	WR	Various : Various	0.602	0.040	Oct 2021	0.053	Oct 2022	0.051	Oct 2023	-		0.051	0.000	0.746	-
Prior Year Mgmt Svcs no longer funded in the FYDP	Various	Various : Various	2.349	0.000		0.000		0.000		-		0.000	0.000	2.349	-
Subtotal			9.855	0.265		0.385		0.385		-		0.385	0.000	10.890	N/A

Remarks
Management Services is included within R-2A Engineering Support.

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	107.315	1.772	3.761	2.999	-	2.999	0.000	115.847	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
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Fiscal Year		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				
Acquisition Milestones		Marine Corps RQ-21A Divestment ★								NSW RQ-21A Divestment ★																							
Contracts	IDIQ (0033)	-----																															
	Follow on IDIQ	-----																															
Integrated and Operational Test						Correction of Deficiencies / Safety / Cyber																											
Capability & Sustainment		IFF Transponder w/mode 5 AIMS Cert. ██████████ EO/IR w/LD (AC14) Integration ██████████ Extended Rails ██████████																															
System Deliveries		Windows 10 OS ██████████ EO/IR EOL SW ██████████ Transport Cases (PHS&T) ██████████ Split Aces SW ██████████ AIS ██████████ C2 Extended Range (SOREL) ██████████ LD Turret (AC14) ██████████ Extended Rails ██████████ EO950 Turret ██████████																															
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 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305234N / <i>Small (Level 0) Tactical UAS (STUASLO)</i>	Project (Number/Name) 3192 / RQ-21 BLACKJACK

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RQ-21A				
Integrated and Operational Test: Integrated and Operational Test - Payloads (Correction of Deficiencies, Safety, Cybersecurity)	1	2022	4	2025
Capability Development & Sustainment: IFF Transponder w/mode 5 AIMS Cert	1	2022	4	2023
Capability Development & Sustainment: EO/IR w/LD (AC14) Intergration	1	2022	2	2023
Capability Development & Sustainment: Extended Rails	1	2022	2	2023
Systems Deliveries: Windows 10 OS	2	2023	4	2023
Systems Deliveries: EO/IR EOL SW	2	2023	4	2023
Systems Deliveries: PHS&T (Transport Cases)	1	2023	1	2024
Systems Deliveries: Split Aces SW	4	2022	2	2023
Systems Deliveries: AIS	2	2023	2	2023
Systems Deliveries: C2 Extended Range (SOREL)	2	2023	2	2023
Systems Deliveries: LD Turrett (AC14)	3	2023	3	2023
Systems Deliveries: Extended Rails	3	2023	3	2023
Systems Deliveries: EO950 Turret	2	2023	3	2023