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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0603251N / <i>Aircraft Systems</i>							
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	21.200	0.790	1.473	0.418	-	0.418	0.423	0.383	0.000	0.000	0.000	24.687
3331: <i>C-2 System Development</i>	21.200	0.790	1.473	0.418	-	0.418	0.423	0.383	0.000	0.000	0.000	24.687

A. Mission Description and Budget Item Justification

This program element supports the study, evaluation, optimization and enhancements of fielded aircraft systems not supported by a system specific Research, Development, Test and Evaluation, Navy program element. The supported efforts will provide a basis to recommend options for improved efficiency, minimization of life cycle cost, and other affordable options. As naval aircraft systems age, and analysis of the programmatic and /or reliability enhancements options allows the Department of the Navy to more effectively understand and manage system lifecycle costs and implications in future airborne platforms.

This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it includes all efforts necessary to evaluate integrated technologies, representative models or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	0.793	1.473	1.522	-	1.522
Current President's Budget	0.790	1.473	0.418	-	0.418
Total Adjustments	-0.003	0.000	-1.104	-	-1.104
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.003	0.000			
• Program Adjustments	0.000	0.000	-0.989	-	-0.989
• Rate/Misc Adjustments	0.000	0.000	-0.115	-	-0.115

Change Summary Explanation

Technical: The FY2021 funding request was reduced by \$0.189 million to account for the availability of prior year execution balances.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603251N / <i>Aircraft Systems</i>				Project (Number/Name) 3331 / <i>C-2 System Development</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
3331: <i>C-2 System Development</i>	21.200	0.790	1.473	0.418	-	0.418	0.423	0.383	0.000	0.000	0.000	24.687
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The C-2A Greyhound is a high wing monoplane, twin engine turbo-prop aircraft capable of operating from both a shore base and all operational United States Navy aircraft carrier classes. The mission of the C-2A is to provide rapid response Carrier Onboard Delivery of fleet essential supplies, repair parts, and personnel to sustain at sea operations of deployed battle groups. In addition, the C-2A provides airdrop delivery and mobilization support for special operations forces from land bases and carriers, Search and Rescue, and Humanitarian Relief.

This project will fund required development and obsolescence analysis of other subsystems required to operate the C-2A to the end of its service life.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Combat Readiness	0.790	1.473	0.418	0.000	0.418
Articles:	-	-	-	-	-
Description: C-2 Combat Readiness establishes an enduring capacity to address obsolescence, safety, and readiness degrader issues for the C-2A(R) aircraft until the end of its service life.					
FY 2020 Plans: Continue developing prototype for Chassis Assembly (Qty 3). C-2A subsystem studies and analysis for obsolescence analysis for emergency transformer rectifier. Prototype and assisted test & evaluation of the Advanced Arresting Gear (AAG) and braking system.					
FY 2021 Base Plans: Provide C-2A studies and analysis for Secure Voice and Data Over the Horizon communication. Begin prototype for the Secure Voice and Data communication.					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: Funding decrease from FY20 to FY21 due to current program plan.					
Accomplishments/Planned Programs Subtotals	0.790	1.473	0.418	0.000	0.418

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> <u>Base</u>	<u>FY 2021</u> <u>OCO</u>	<u>FY 2021</u> <u>Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APN/0556: C-2A Series	8.261	13.747	9.525	-	9.525	4.627	0.000	0.000	0.000	0.000	537.488

Remarks

D. Acquisition Strategy

The C-2A Operational Ground Controllability strategy will be exercised under an Engineering Change Proposal.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603251N / Aircraft Systems	Project (Number/Name) 3331 / C-2 System Development
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Prior year Prod Dev no longer funded in the FYDP	Various	Various : Various	11.151	0.000		0.000		0.000		-		0.000	0.000	11.151	11.151
Subtotal			11.151	0.000		0.000		0.000		-		0.000	0.000	11.151	N/A

Remarks
Totals may not add due to rounding.

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 Support	WR	North Island : North Island, CA	1.153	0.400	Jan 2019	0.000		0.000		-		0.000	0.000	1.553	Continuing
Development Support	WR	Department of Energy : Kansas City, MO	0.389	0.390	Jan 2019	0.573	Jan 2020	0.137	Jan 2021	-		0.137	0.267	1.756	Continuing
Prior year Support no longer funded in the FYDP	Various	Various : Various	5.573	0.000		0.000		0.000		-		0.000	0.000	5.573	-
Subtotal			7.115	0.790		0.573		0.137		-		0.137	0.267	8.882	N/A

Remarks
Totals may not add due to rounding.

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	WR	NAWCAD : Pax River, MD	2.908	0.000		0.900	Nov 2019	0.281	Nov 2020	-		0.281	0.539	4.628	Continuing
Subtotal			2.908	0.000		0.900		0.281		-		0.281	0.539	4.628	N/A

Remarks
Totals may not add due to rounding.

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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Travel	Various	Various : Various	0.026	0.000		0.000		0.000		-		0.000	0.000	0.026	0.026
Subtotal			0.026	0.000		0.000		0.000		-		0.000	0.000	0.026	N/A

Remarks
Totals may not add due to rounding.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	21.200	0.790	1.473	0.418	-	0.418	0.806	24.687	N/A

Remarks
Totals may not add due to rounding.

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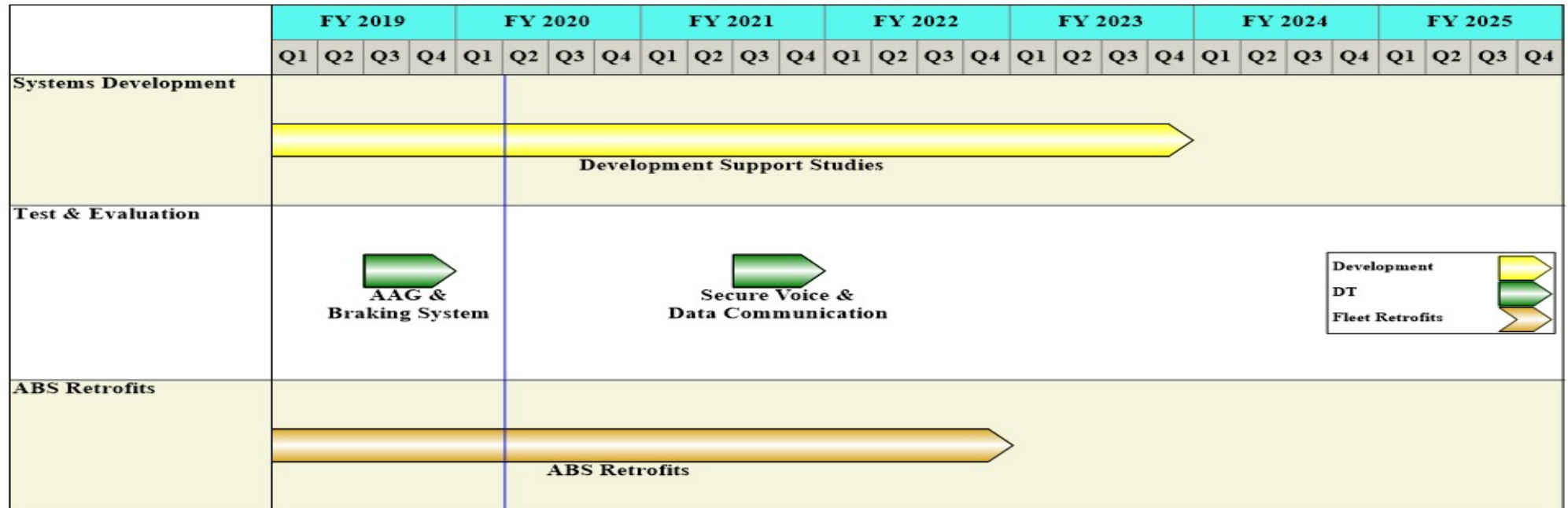
Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy Date: February 2020

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DON 21 RDT&E Report

C-2 System Development



Snapshot Date: 1/6/2020

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Combat Readiness				
Systems Development: Development Support: Studies	1	2019	4	2023
Test & Evaluation: Technical Evaluation: Developmental Test - AAG & Braking System	3	2020	4	2020
Test & Evaluation: Technical Evaluation: Developmental Test - Secure Voice & Data Communication	3	2021	4	2021