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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy **Date:** March 2019

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603251N / (U)AIRCRAFT SYSTEMS							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	20.507	0.693	0.793	1.473	-	1.473	1.522	1.542	1.566	1.598	Continuing	Continuing
3331: C-2 System Development	20.507	0.693	0.793	1.473	-	1.473	1.522	1.542	1.566	1.598	Continuing	Continuing

Note

The FY 2020 funding request was reduced by \$0.016 million to account for the availability of prior year execution balances.

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.695	0.793	1.508	-	1.508
Current President's Budget	0.693	0.793	1.473	-	1.473
Total Adjustments	-0.002	0.000	-0.035	-	-0.035
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.002	0.000			
• Program Adjustments	0.000	0.000	-0.022	-	-0.022
• Rate/Misc Adjustments	0.000	0.000	-0.013	-	-0.013

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603251N / (U)AIRCRAFT SYSTEMS				Project (Number/Name) 3331 / C-2 System Development			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
3331: C-2 System Development	20.507	0.693	0.793	1.473	-	1.473	1.522	1.542	1.566	1.598	Continuing	Continuing
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Combat Readiness	0.693	0.793	1.473	0.000	1.473
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 2019 Plans: Continuation of C-2A subsystems studies and analysis for Circuit Card Assembly & Chassis Assembly. Begin prototype assembly of three (3) Chassis Assembly.					
FY 2020 Base Plans: Continue developing prototype for Chassis Assembly (Qty 3). C-2A subsystem studies and analysis for obsolescence analysis for emergency transformer rectifier.					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement: Funding increase from FY19 to FY20 due to revised program plan to include emergency transformer rectifier.					
Accomplishments/Planned Programs Subtotals	0.693	0.793	1.473	0.000	1.473

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy	Date: March 2019
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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603251N / (U)AIRCRAFT SYSTEMS	Project (Number/Name) 3331 / C-2 System Development
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u> <u>Base</u>	<u>FY 2020</u> <u>OCO</u>	<u>FY 2020</u> <u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APN/0556: C-2A Series	18.592	8.327	15.747	-	15.747	17.491	5.395	0.000	0.000	5.578	553.866

Remarks

D. Acquisition Strategy

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

E. Performance Metrics

C-2A emergency transformer rectifier studies and analysis final report is planned for 4QFY20

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019			
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0603251N / (U)AIRCRAFT SYSTEMS				Project (Number/Name) 3331 / C-2 System Development					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
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 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Development Support	WR	North Island : North Island, CA	0.849	0.304	Nov 2017	0.400	Jan 2019	0.723	Nov 2019	-		0.723	Continuing	Continuing	Continuing
Development Support	WR	Department of Energy : Kansas City, MO	0.000	0.389	Feb 2018	0.393	Jan 2019	0.750	Dec 2019	-		0.750	Continuing	Continuing	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			6.422	0.693		0.793		1.473		-		1.473	Continuing	Continuing	N/A
Remarks Totals may not add due to rounding.															
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Developmental Test & Evaluation	WR	NAWCAD : Pax River, MD	2.908	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			2.908	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A
Remarks Totals may not add due to rounding.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019			
Appropriation/Budget Activity 1319 / 4						R-1 Program Element (Number/Name) PE 0603251N / (U)AIRCRAFT SYSTEMS				Project (Number/Name) 3331 / C-2 System Development					
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Travel	Various	Various : Various	0.026	0.000	Oct 2017	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			0.026	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A
Remarks Totals may not add due to rounding.															
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			20.507	0.693		0.793		1.473		-		1.473	Continuing	Continuing	N/A
Remarks Totals may not add due to rounding.															

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PE 0603251N: (U)AIRCRAFT SYSTEMS
Navy

R-1 Line #30

Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
1319 / 4	PE 0603251N / (U)AIRCRAFT SYSTEMS	3331 / C-2 System Development

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603251N / (U)AIRCRAFT SYSTEMS	Project (Number/Name) 3331 / C-2 System Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Combat Readiness				
Systems Development: Development Support: Studies	1	2018	4	2024