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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy **Date:** February 2018

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 / (U)AIRCRAFT SYSTEMS
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COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	18.988	1.519	0.695	0.793	-	0.793	1.508	1.522	1.549	1.581	Continuing	Continuing
3331: <i>C-2 System Development</i>	18.988	1.519	0.695	0.793	-	0.793	1.508	1.522	1.549	1.581	Continuing	Continuing

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	1.519	0.695	0.815	-	0.815
Current President's Budget	1.519	0.695	0.793	-	0.793
Total Adjustments	0.000	0.000	-0.022	-	-0.022
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	-0.022	-	-0.022

Change Summary Explanation

Technical: Not applicable.
Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
3331: C-2 System Development	18.988	1.519	0.695	0.793	-	0.793	1.508	1.522	1.549	1.581	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, analysis, and testing of ARC-210 upgrade and 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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Combat Readiness	1.519	0.695	0.793	0.000	0.793
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 2018 Plans: Continuation of C-2A subsystems studies and analysis.					
FY 2019 Base Plans: Continuation of C-2A subsystems studies and analysis.					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: FY19 funding increased of \$0.098 based on original program plan.					
Accomplishments/Planned Programs Subtotals	1.519	0.695	0.793	0.000	0.793

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

Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
• APN/0556: C-2A Series	18.971	18.673	10.327	-	10.327	20.826	17.538	0.000	0.000	8.399	558.965

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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 2017</u>	<u>FY 2018</u>	<u>FY 2019</u> <u>Base</u>	<u>FY 2019</u> <u>OCO</u>	<u>FY 2019</u> <u>Total</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

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

E. Performance Metrics

Test and Evaluation 3Q FY17. C-2A Hydraulic Systems studies and analysis final report 4Q FY17.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy **Date:** February 2018

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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Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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			
Primary Hardware Development	SS/CPFF	NGC : Bethpage, NY	10.370	0.000		0.000		0.000		-		0.000	0.000	10.370	10.370
Primary Hardware Development	SS/FFP	Rockwell Collins Inc. : Cedar Rapids, IA	0.156	0.000		0.000		0.000		-		0.000	0.000	0.156	0.156
System Engineering	SS/CPFF	NGC : Melbourne, FL	0.603	0.000		0.000		0.000		-		0.000	0.000	0.603	0.603
Prior year Prod Dev no longer funded in the FYDP	Various	Various : Various	0.022	0.000		0.000		0.000		-		0.000	0.000	0.022	0.022
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 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	NAWCAD : Pax River, MD	4.143	0.000		0.000		0.000		-		0.000	0.000	4.143	-
Government Engineering Support	WR	North Island : North Island, CA	1.285	0.000		0.000		0.000		-		0.000	0.000	1.285	-
Development Support	WR	North Island : North Island, CA	0.440	0.409	Dec 2016	0.685	Nov 2017	0.793	Nov 2018	-		0.793	Continuing	Continuing	Continuing
ILS Support	WR	North Island : North Island, CA	0.045	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Prior year Support no longer funded in the FYDP	Various	Various : Various	0.100	0.000		0.000		0.000		-		0.000	0.000	0.100	-
Subtotal			6.013	0.409		0.685		0.793		-		0.793	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 2019 Navy **Date:** February 2018

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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Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	1.808	1.100	Dec 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			1.808	1.100		0.000		0.000		-		0.000	Continuing	Continuing	N/A

Remarks

Totals may not add due to rounding.

Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	0.016	0.010	Oct 2016	0.010	Oct 2017	0.000		-		0.000	Continuing	Continuing	Continuing
Subtotal			0.016	0.010		0.010		0.000		-		0.000	Continuing	Continuing	N/A

Remarks

Totals may not add due to rounding.

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	18.988	1.519	0.695	0.793	-	0.793	Continuing	Continuing	N/A

Remarks

Totals may not add due to rounding.

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy **Date:** February 2018

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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	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023								
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q					
Combat Readiness																																	
Systems Development																																	
Development Support	Development and Design																																
	Studies																																
Test & Evaluation																																	
Technical Evaluation			Developmental Test																														

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy **Date:** February 2018

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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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Combat Readiness				
Systems Development: Development Support: Development Support	1	2017	3	2017
Systems Development: Development Support: Studies	1	2017	4	2023
Test & Evaluation: Technical Evaluation: Developmental Test	3	2017	4	2017