

UNCLASSIFIED

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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0101402N / <i>Navy Strategic Comms</i>
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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	505.500	37.184	28.674	42.277	-	42.277	48.591	56.249	80.783	226.582	Continuing	Continuing
1083: <i>Shore To Ship Com System</i>	234.344	27.415	22.165	28.205	-	28.205	32.957	26.301	26.906	22.626	Continuing	Continuing
2959: <i>Survivable Airborne Strategic Communications</i>	0.000	0.000	2.500	10.306	-	10.306	11.851	26.151	50.003	200.004	Continuing	Continuing
3002: <i>Navy Strategic Comm Project</i>	271.156	9.769	4.009	3.766	-	3.766	3.783	3.797	3.874	3.952	Continuing	Continuing

A. Mission Description and Budget Item Justification

The details of program element 0101402N Project 1083 are classified UNCLASSIFIED//FOUO and are submitted to Congress in the classified budget justification books. Special Handling Statement: This exhibit contains NC3-N Controlled Unclassified Information (CUI). UNCLASSIFIED//FOUO material within shall be developed, stored, and transmitted on classified networks in accordance with SPAWAR ltr 5510 Ser 00/245 19 April 2018.

Project 2959: The E-6B Recapitalization program provides the complete replacement aircraft and mission systems for the aging E-6 aircraft. The program is intended to provide Survivable Airborne Strategic Communications in support of the President, Secretary of Defense and United States strategic and non-strategic forces. In order to provide survivable, enduring and reliable Command, Control, and Communications capability, continued effort is needed to perform technical evaluations, modeling and simulation, requirements derivation and contract development to support acquisition of E-6B replacement aircraft. Funding is for determining suitable aircraft, developing requirements and contract vehicles to award a development program that leads to the acquisition of the E-6B replacement aircraft.

Project 3002: The E-6 is a manned airborne platform that provides survivable, enduring and reliable Command, Control and Communications capability in support of the President, Secretary of Defense and United States strategic and non-strategic forces. In order to respond effectively to emerging capability requirements, continued effort is needed to perform technical evaluations, modeling and simulation, investigative ground and flight testing, enhanced software modifications and development of configuration modifications. Funding is for operational mission analysis and hardware/software engineering required to optimize E-6 systems for cyber security and interoperability in a strategic environment.

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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0101402N / <i>Navy Strategic Comms</i>
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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	38.661	31.174	30.062	-	30.062
Current President's Budget	37.184	28.674	42.277	-	42.277
Total Adjustments	-1.477	-2.500	12.215	-	12.215
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-2.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.302	0.000			
• SBIR/STTR Transfer	-1.175	0.000			
• Program Adjustments	0.000	0.000	12.002	-	12.002
• Rate/Misc Adjustments	0.000	0.000	0.213	-	0.213

Change Summary Explanation

The details of program element 0101402N Project 1083 are classified and are submitted to Congress in the classified budget justification books.

Technical:

2959: Not Applicable

3002: Not Applicable

Schedule:

2959: E-6 Recapitalization Analysis of Alternatives (AOA) changed from 1Q FY 2020 - 4Q FY 2020 to 1Q FY2019 - 2Q FY 2020.

3002: Studies and Analysis end date changed from 3Q FY 2020 to 4Q FY 2021.

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

Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms				Project (Number/Name) 1083 / Shore To Ship Com System			
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
1083: Shore To Ship Com System	234.344	27.415	22.165	28.205	-	28.205	32.957	26.301	26.906	22.626	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The details of program element 0101402N Project 1083 are classified and are submitted to Congress in the classified budget justification books.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Shore To Ship Com System	27.415	22.165	28.205	0.000	28.205
Articles:	-	-	-	-	-
FY 2020 Plans: N/A					
FY 2021 Base Plans: N/A					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: The details of program element 0101402N Project 1083 are classified and are submitted to Congress in the classified budget justification books.					
Accomplishments/Planned Programs Subtotals	27.415	22.165	28.205	0.000	28.205

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

Line Item	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
• OPN/3107: Submarine Broadcast Support	25.752	50.833	31.133	-	31.133	42.289	28.583	27.485	35.469	0.000	366.022

Remarks

D. Acquisition Strategy

The details of program element 0101402N Project 1083 are classified and are submitted to Congress in the classified budget justification books.

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 1083 / Shore To Ship Com System
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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			
Classified	Various	Not Specified : Not Specified	118.196	10.795	Nov 2018	9.029	Nov 2019	12.259	Nov 2020	-		12.259	Continuing	Continuing	Continuing
Subtotal			118.196	10.795		9.029		12.259		-		12.259	Continuing	Continuing	N/A

Remarks
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.

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			
Classified	Various	Not Specified : Not Specified	34.188	6.596	Nov 2018	4.574	Nov 2019	4.997	Nov 2020	-		4.997	Continuing	Continuing	Continuing
Subtotal			34.188	6.596		4.574		4.997		-		4.997	Continuing	Continuing	N/A

Remarks
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.

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			
Classified	Various	Not Specified : Not Specified	66.621	8.208	Nov 2018	7.290	Nov 2019	9.720	Nov 2020	-		9.720	Continuing	Continuing	Continuing
Subtotal			66.621	8.208		7.290		9.720		-		9.720	Continuing	Continuing	N/A

Remarks
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 1083 / Shore To Ship Com System
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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			
Classified	Various	Not Specified : Not Specified	15.339	1.816	Nov 2018	1.272	Nov 2019	1.229	Nov 2020	-		1.229	Continuing	Continuing	Continuing
Subtotal			15.339	1.816		1.272		1.229		-		1.229	Continuing	Continuing	N/A

Remarks
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.

	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	234.344	27.415	22.165	28.205	-	28.205	Continuing	Continuing	N/A

Remarks

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 1083 / Shore To Ship Com System
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Proj 1083	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Classified																												
Empty grid for data entry																												

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / <i>Navy Strategic Comms</i>	Project (Number/Name) 1083 / <i>Shore To Ship Com System</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1083				
Classified	1	2019	4	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms				Project (Number/Name) 2959 / Survivable Airborne Strategic Communications			
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
2959: <i>Survivable Airborne Strategic Communications</i>	0.000	0.000	2.500	10.306	-	10.306	11.851	26.151	50.003	200.004	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The E-6B Recapitalization program provides the complete replacement aircraft and mission systems for the aging E-6 aircraft. The program is intended to provide Survivable Airborne Strategic Communications in support of the President, Secretary of Defense and United States strategic and non-strategic forces. In order to provide survivable, enduring and reliable Command, Control, and Communications capability, continued effort is needed to perform technical evaluations, modeling and simulation, requirements derivation and contract development to support acquisition of E-6B replacement aircraft. Funding is for determining suitable aircraft, developing requirements and contract vehicles to award a development program that leads to the acquisition of the E-6B replacement aircraft.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Operational System Development, Studies and Demonstrations	0.000	2.500	10.306	0.000	10.306
Articles:	-	-	-	-	-
FY 2020 Plans: Complete E-6B Recapitalization Analysis of Alternatives (AoA) begun in FY19 with Project Unit 3002 funding (\$5.937 million in FY19). Prepare and document initial program requirements resulting from AoA. Prepare acquisition planning documentation in support of and initiate initial risk reduction and trade study activities for aircraft and mission systems.					
FY 2021 Base Plans: Prepare and document program requirements to support acquisition program initiation. Create initial acquisition strategy and develop all documentation will lead to prime contract award. Continue with risk reduction activities that influence the system design requirements.					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: FY20 to FY21 increase by \$7.806 million to fund technology maturation and risk reduction for program initiation decision to recapitalize E-6B.					
Accomplishments/Planned Programs Subtotals	0.000	2.500	10.306	0.000	10.306

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 2959 / Survivable Airborne Strategic Communications

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

Line Item	FY 2019	FY 2020	FY 2021	FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Cost To	
			Base	OCO	Total					Complete	Total Cost
• RDTE/ 0101402N/3002: <i>Navy Strategic Comm Project</i>	9.769	4.009	3.766	-	3.766	3.783	3.797	3.874	3.952	Continuing	Continuing

Remarks

D. Acquisition Strategy

Research, Development, Test & Evaluation, Navy (RDT&E N) Project Unit 2959 funds E-6B Recapitalization Analysis of Alternatives (AoA), requirement analyses and risk reduction studies that will occur in FY20-FY24. AoA results will be used to define mission concept of operations, system capability requirements, and a preferred material solution. These will form the foundation for an initial acquisition strategy and program life cycle cost estimate in support of program milestone decision review. Trade studies and risk reduction activities will be used to refine the material solution, and derive program and system performance requirements in preparation for development contracts. The performance requirements will support the contracting efforts to award a developmental effort in FY25 to begin the non-recurring engineering to develop mission systems and integrate them in the appropriate airframe.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 7				PE 0101402N / Navy Strategic Comms				2959 / Survivable Airborne Strategic Communications							
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
E-6B Recapitalization Analysis of Alternatives	Various	Various : Various	0.000	0.000		2.500	Jan 2020	0.000		-		0.000	0.000	2.500	-
Requirements Derivation	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		2.700	Nov 2020	-		2.700	Continuing	Continuing	Continuing
Requirements Derivation	Various	Various : Various	0.000	0.000		0.000		1.772	Jan 2021	-		1.772	Continuing	Continuing	Continuing
Risk Reduction - Studies	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		1.800	Nov 2020	-		1.800	Continuing	Continuing	Continuing
Risk Reduction - Studies	Various	TBD : TBD	0.000	0.000		0.000		1.174	Nov 2020	-		1.174	Continuing	Continuing	Continuing
EMD Contract Development	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		2.536	Nov 2020	-		2.536	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		2.500		9.982		-		9.982	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	0.000	0.000		0.000		0.100	Oct 2020	-		0.100	Continuing	Continuing	Continuing
Management Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.224	Nov 2020	-		0.224	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		0.324		-		0.324	Continuing	Continuing	N/A
Project Cost Totals			0.000	0.000		2.500		10.306		-		10.306	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 2959 / Survivable Airborne Strategic Communications



E-6B Mercury

PB-21 RDTE PU: 2959 Program Schedule

Fiscal Year	FY20				FY21				FY22				FY23				FY24				FY25							
Fiscal Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Program Milestones		A/F Class Select				Draft PDs		Staff Surge						SRF 1		SFR		Gov PDR		RFP				MSB			Award	
Risk Reduction		Risk Reduction Planning & Contracting								System of Systems Integration Risk Reduction				Government Architecture Model Risk Reduction				VLF Transmitter Risk Reduction										
EMD Contract			CDD Development						Requirements Derivation								EMD SOW/RFP		Contractor		Source							

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 2959 / Survivable Airborne Strategic Communications

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2959				
Airframe Recommendation: Airframe Classification Select: 2nd Qtr FY20	2	2020	2	2020
Risk Reduction: Planning and Contracting Risk Reduction	1	2020	4	2021
Risk Reduction: System of Systems Integration Risk Reduction	1	2022	3	2024
Risk Reduction: Government Architecture Model Risk Reduction	1	2022	3	2024
Risk Reduction: VLF Trasmmitter Risk Reduction	1	2022	3	2024
EMD Contract: CDD Development	3	2020	3	2021
EMD Contract: Requirment Derivation	4	2021	3	2023
EMD Contract: SOW/RFP Development	4	2023	3	2024
EMD Contract: Contractor BID	3	2024	1	2025
EMD Contract: Source Selection	1	2025	3	2025
Milestone B: Milestone B 3rd Qtr FY25	3	2025	3	2025
Contract Awards: EMD Contract Award 3rd Qtr FY25	3	2025	3	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms				Project (Number/Name) 3002 / Navy Strategic Comm Project			
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
3002: Navy Strategic Comm Project	271.156	9.769	4.009	3.766	-	3.766	3.783	3.797	3.874	3.952	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The E-6 is a manned airborne platform that provides survivable, enduring and reliable Command, Control and Communications capability in support of the President, Secretary of Defense and United States strategic and non-strategic forces. In order to respond effectively to emerging capability requirements, continued effort is needed to perform technical evaluations, modeling and simulation, investigative ground and flight testing, enhanced software modifications and development of configuration modifications. Funding is for operational mission analysis and hardware/software engineering required to optimize E-6 systems for cyber security and interoperability in a strategic environment.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Operational System Development, Studies and Demonstrations	9.769	4.009	3.766	0.000	3.766
Articles:	-	-	-	-	-
FY 2020 Plans: Perform operational mission analyses and conduct advanced simulations, prototyping, integrations, and demonstrations using the E-6B Systems Integration Laboratory and contractor assets to address system obsolescence and potential upgrades to ensure cyber security software improvements and interoperability of the E-6B platform.					
FY 2021 Base Plans: Perform operational mission analyses and conduct advanced simulations, prototyping, integrations, and demonstrations using the E-6B Systems Integration Laboratory and contractor assets to address system obsolescence and potential upgrades to ensure cyber security software improvements and interoperability of the E-6B platform.					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: FY 2020 to FY 2021 decrease by \$243 thousand is due to reduction in level of production development efforts.					
Accomplishments/Planned Programs Subtotals	9.769	4.009	3.766	0.000	3.766

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy	Date: February 2020
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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 3002 / Navy Strategic Comm Project
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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/0564: E-6 Series	164.511	153.573	197.206	-	197.206	167.046	138.212	129.864	132.281	67.697	2,819.911
• RDTE/0101402N/2959: Survivable Airborne Strategic Communications	0.000	2.500	10.306	-	10.306	11.851	26.151	50.003	200.004	Continuing	Continuing

Remarks

D. Acquisition Strategy

Research, Development, Test & Evaluation, Navy (RDT&E,N) Project Unit 3002 funds continuing efforts to perform technical evaluations, modeling & simulation and investigative ground and flight testing. Aircraft Procurement, Navy, Modification of Aircraft (APN-5) funds integration, procurement and installation of aircraft modifications.

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 3002 / Navy Strategic Comm Project
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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 Production Development no longer funded in the FYDP	Various	Various : Various	195.224	0.000		0.000		0.000		-		0.000	0.000	195.224	-
Production Development Support	Various	Various : Various	0.000	0.000		0.961	Nov 2019	0.655	Nov 2020	-		0.655	0.000	1.616	-
Subtotal			195.224	0.000		0.961		0.655		-		0.655	0.000	196.840	N/A

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			
Studies & Analyses	Various	Various : Various	7.012	3.360	Jan 2019	2.033	Nov 2019	0.180	Nov 2020	-		0.180	Continuing	Continuing	Continuing
E-6B Recapitalization Analysis of Alternatives	Various	Various : Various	0.000	5.937	Apr 2019	0.000		0.000		-		0.000	0.000	5.937	-
Studies & Analyses	C/CPFF	John Hopkins Universtiy (JHU) : Laurel, Maryland	0.000	0.000		0.000		1.900	Nov 2020	-		1.900	Continuing	Continuing	Continuing
Subtotal			7.012	9.297		2.033		2.080		-		2.080	Continuing	Continuing	N/A

Remarks
 Note: E-6B AoA begun in FY19 with Project Unit 3002 funding (\$5.937M in FY19) and was realigned under Project Unit 2959 in FY20.

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			
Prior Year Test & Evaluation cost no longer funded in the FYDP	Various	Various : Various	6.461	0.000		0.000		0.000		-		0.000	0.000	6.461	-
Subtotal			6.461	0.000		0.000		0.000		-		0.000	0.000	6.461	N/A

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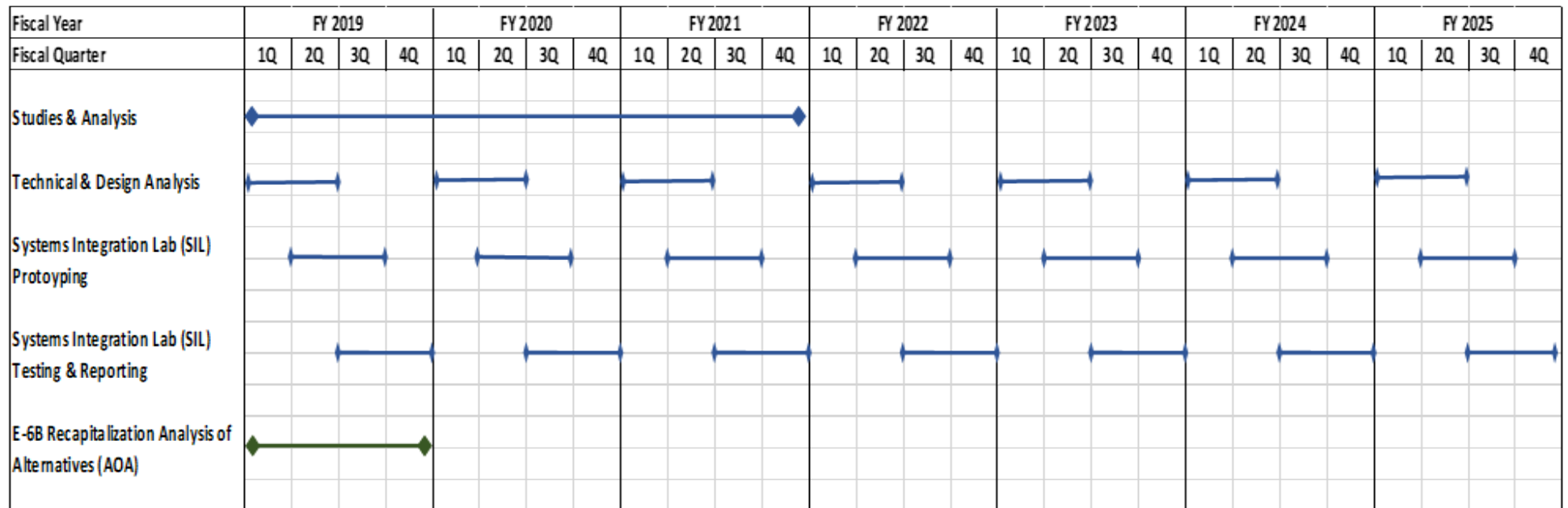
Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy Date: February 2020

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 3002 / Navy Strategic Comm Project
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E-6B Mercury

PB-21 RDTE PU: 3002 Program Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 3002 / Navy Strategic Comm Project

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3002				
Advanced Development: Studies & Analysis: Studies & Analysis	1	2019	4	2021
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY19)	1	2019	2	2019
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY20)	1	2020	2	2020
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY21)	1	2021	2	2021
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY22)	1	2022	2	2022
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY23)	1	2023	2	2023
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY24)	1	2024	2	2024
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY25)	1	2025	2	2025
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY19)	2	2019	3	2019
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY 20)	2	2020	3	2020
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY21)	2	2021	3	2021
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY22)	2	2022	3	2022
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY23)	2	2023	3	2023

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 3002 / Navy Strategic Comm Project
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY24)	2	2024	3	2024
Advanced Development: Systems Integration Lab (SIL) Prototyping: Systems Integration Lab (SIL) Prototyping (FY25)	2	2025	3	2025
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY19)	3	2019	4	2019
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY20)	3	2020	4	2020
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY21)	3	2021	4	2021
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY22)	3	2022	4	2022
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY23)	3	2023	4	2023
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY24)	3	2024	4	2024
Advanced Development: Systems Integration Lab (SIL) Testing & Reporting: SIL Testing & Reporting (FY25)	3	2025	4	2025
Advanced Development: E-6 Recapitalization Analysis of Alternatives (AOA): E-6B Recapitalization Analysis of Alternatives	1	2019	4	2019