

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy	Date: March 2019
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Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms											
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	485.264	17.624	38.661	31.174	-	31.174	30.062	27.321	25.072	24.391	Continuing	Continuing
1083: Shore To Ship Com System	215.174	16.558	28.559	22.165	-	22.165	20.998	21.390	20.127	20.520	Continuing	Continuing
2959: Survivable Airborne Strategic Communications	0.000	0.000	0.000	5.000	-	5.000	5.300	2.150	1.150	0.000	0.000	13.600
3002: Navy Strategic Comm Project	270.090	1.066	10.102	4.009	-	4.009	3.764	3.781	3.795	3.871	Continuing	Continuing

A. Mission Description and Budget Item Justification

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

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	18.221	39.313	24.334	-	24.334
Current President's Budget	17.624	38.661	31.174	-	31.174
Total Adjustments	-0.597	-0.652	6.840	-	6.840
• Congressional General Reductions	-	-0.027			
• Congressional Directed Reductions	-	-0.625			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.055	0.000			
• SBIR/STTR Transfer	-0.511	0.000			
• Program Adjustments	0.000	0.000	6.900	-	6.900
• Rate/Misc Adjustments	-0.001	0.000	-0.060	-	-0.060
• Congressional General Reductions	-0.030	-	-	-	-
Adjustments					

Change Summary Explanation

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-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
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 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
1083: Shore To Ship Com System	215.174	16.558	28.559	22.165	-	22.165	20.998	21.390	20.127	20.520	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Low Band Universal Communication System (LBUCS) Articles:								4.302	7.437	8.761	0.000	8.761
								-	-	-	-	-
FY 2019 Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.												
FY 2020 Base Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.												
FY 2020 OCO Plans: N/A												
FY 2019 to FY 2020 Increase/Decrease Statement: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.												
Title: Strategic Communications Assessment Program (SCAP)/Continuing Evaluation Program (CEP) Articles:								4.373	6.790	6.640	0.000	6.640
								-	-	-	-	-
FY 2019 Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.												
FY 2020 Base Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019		
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		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.						
Title: High Voltage Improvement Program (HVIP) Articles:		1.538 -	1.374 -	1.331 -	0.000 -	1.331 -
FY 2019 Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books. FY 2020 Base Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books. FY 2020 OCO Plans: N/A FY 2019 to FY 2020 Increase/Decrease Statement: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.						
Title: Navy Modernized Hybrid Solution (NMHS) Articles:		3.346 -	4.869 -	2.376 -	0.000 -	2.376 -
FY 2019 Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books. FY 2020 Base Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books. FY 2020 OCO Plans:						

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019				
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				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
N/A								
FY 2019 to FY 2020 Increase/Decrease Statement: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.								
Title: Broadcast Control Authority (BCA)				2.999	3.089	3.057	0.000	3.057
Articles:				-	-	-	-	-
FY 2019 Plans: The details of program element 0101402N Project 1083 are classified Secret//NOFORN and are submitted to Congress in the classified budget justification books.								
FY 2020 Base Plans: The details of program element 0101402N Project 1083 are classified Secret//NOFORN and are submitted to Congress in the classified budget justification books.								
FY 2020 OCO Plans: N/A								
FY 2019 to FY 2020 Increase/Decrease Statement: The details of program element 0101402N Project 1083 are classified Secret//NOFORN and are submitted to Congress in the classified budget justification books.								
Title: Take Charge and Move Out (TACAMO)				0.000	5.000	0.000	0.000	0.000
Articles:				-	-	-	-	-
FY 2019 Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.								
FY 2020 Base Plans: The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.								
FY 2020 OCO Plans: N/A								
FY 2019 to FY 2020 Increase/Decrease Statement:								

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019							
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							
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total						
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.											
Accomplishments/Planned Programs Subtotals											
	16.558	28.559	22.165	0.000	22.165						
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPN/3107: Submarine Broadcast	42.640	25.883	50.833	-	50.833	60.033	59.368	39.312	41.176	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The details of program element 0101402N Project 1083 are classified SECRET//NOFORN and are submitted to Congress in the classified budget justification books.											
E. Performance Metrics											
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 2020 Navy												Date: March 2019			
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					
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
Classified	TBD	Not Specified : Not Specified	113.430	4.766	Dec 2017	10.985	Dec 2018	8.330	Dec 2019	-		8.330	Continuing	Continuing	Continuing
Subtotal			113.430	4.766		10.985		8.330		-		8.330	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 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
Classified	TBD	Not Specified : Not Specified	30.366	3.716	Nov 2017	6.758	Nov 2018	4.518	Nov 2019	-		4.518	Continuing	Continuing	Continuing
Subtotal			30.366	3.716		6.758		4.518		-		4.518	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 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
Classified	TBD	Not Specified : Not Specified	56.319	7.790	Jan 2018	9.508	Jan 2019	8.595	Jan 2020	-		8.595	Continuing	Continuing	Continuing
Subtotal			56.319	7.790		9.508		8.595		-		8.595	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 2020 Navy												Date: March 2019			
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					
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
Classified	TBD	Not Specified : Not Specified	15.059	0.286	Dec 2017	1.308	Dec 2018	0.722	Nov 2019	-		0.722	Continuing	Continuing	Continuing
Subtotal			15.059	0.286		1.308		0.722		-		0.722	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 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			215.174	16.558		28.559		22.165		-		22.165	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-4, RDT&E Schedule Profile: PB 2020 Navy		Date: March 2019
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

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Proj 1083																												
Schedule Detail- Place Holder																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy		Date: March 2019
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

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1083				
Schedule Detail- Place Holder	1	2018	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
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 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
2959: Survivable Airborne Strategic Communications	0.000	0.000	0.000	5.000	-	5.000	5.300	2.150	1.150	0.000	0.000	13.600
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.

E-6B Recapitalization Analysis of Alternative (AoA) funds United States Navy participation in a Joint AoA with United States Air Force to recapitalize the large capacity Executive Airlift and National Military Command System airborne fixed-wing layer fleets, which includes E-6B.

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

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Operational System Development, Studies and Demonstrations	0.000	0.000	5.000	0.000	5.000
Articles:	-	-	-	-	-
FY 2019 Plans: N/A					
FY 2020 Base Plans: Complete E-6 AoA begun in FY19 with Project Unit 3002 funding (\$6.100M 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.					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement: Increase of \$5.000M from FY19 to FY20 is attributable to realignment of E-6B Recapitalization AoA funding from Project Unit 3002 to Project Unit 2959 beginning in FY20.					

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019	
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms		Project (Number/Name) 2959 / Survivable Airborne Strategic Communications	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Overall decrease in E-6B Recapitalization AoA funding by \$1.100M (\$6.100M in FY19 of Project Unit 3002 to \$5.000M in FY20 of Project Unit 2959) from FY19 to FY20 is attributable to the ramp down and completion of the E-6B Recapitalization AoA in FY20.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	5.000	0.000	5.000

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020 Base</u>	<u>FY 2020 OCO</u>	<u>FY 2020 Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0564: E-6 Series	194.391	164.511	169.827	-	169.827	189.593	156.462	126.517	129.447	303.106	2,908.776
• RDTE/ 0101402N/3002:	1.066	10.102	4.009	-	4.009	3.764	3.781	3.795	3.871	Continuing	Continuing
<i>Navy Strategic Comm Project</i>											
Remarks											
D. Acquisition Strategy											
Research, Development, Test & Evaluation, Navy (RDT&E,N) Project Unit 2959 funds E-6B Recapitalization AoA, Requirement Analyses and Risk Reduction Studies that will occur in FY20-FY23. RDT&E,N Project Unit 3002 funds continuing efforts to perform technical evaluations, modeling & simulation and investigative ground and flight testing. Project Unit 3002 also funds E-6B Recapitalization AoA that will occur in FY19. Aircraft Procurement, Navy, Modification of Aircraft (APN-5) funds integration, procurement and installation of aircraft modifications.											
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, to be separately funded.											
E. Performance Metrics											
E-6B Recapitalization AoA 1st Qtr FY20 to 4th Qtr FY20; Requirement Analyses/Risk Reduction 1st Qtr FY20 to 4th Qtr FY23.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy													Date: March 2019		
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms				Project (Number/Name) 2959 / Survivable Airborne Strategic Communications					
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
E-6B Recapitalization Analysis of Alternatives	Various	Various : Various	0.000	0.000		0.000		5.000	Jan 2020	-		5.000	8.600	13.600	-
Subtotal			0.000	0.000		0.000		5.000		-		5.000	8.600	13.600	N/A
			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			0.000	0.000		0.000		5.000		-		5.000	8.600	13.600	N/A
Remarks															

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PE 0101402N: *Navy Strategic Comms*
Navy

R-1 Line #210

Project (Number/Name)
2959 / *Survivable Airborne Strategic Communications*

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / <i>Navy Strategic Comms</i>	Project (Number/Name) 2959 / <i>Survivable Airborne Strategic Communications</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2959</i>				
E-6 Recapitalization Analysis of Alternatives (AOA): E-6B Recapitalization Analysis of Alternatives	1	2020	4	2020
Requirement Analyses/Risk Reduction Activities: Requirement Analyses/Risk Reduction Activities	1	2020	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
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 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
3002: Navy Strategic Comm Project	270.090	1.066	10.102	4.009	-	4.009	3.764	3.781	3.795	3.871	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, endurable 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.												
E-6B Recapitalization Analysis of Alternatives (AoA) funds United States Navy participation in a Joint AoA with United States Air Force to recapitalize the large capacity Executive Airlift and National Military Command System airborne fixed-wing layer fleets, which includes E-6B.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Operational System Development, Studies and Demonstrations Articles:								1.066	10.102	4.009	0.000	4.009
								-	-	-	-	-
FY 2019 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.												
Conduct E-6 Recapitalization AoA assessing systems, emergent technologies, and industry Internal Research and Development (IRAD) activities / proposals that can be used across multiple mission areas to reduce risk, development time, and cost. Conduct threat assessments based on current and future scenarios and environments to inform performance requirements and relevant technology. \$6.100M of FY19 funding supports the E-6B Recapitalization AoA efforts.												
FY 2020 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												

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy				Date: March 2019							
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms		Project (Number/Name) 3002 / Navy Strategic Comm Project							
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total			
obsolescence and potential upgrades to ensure cyber security software improvements and interoperability of the E-6B platform.											
E-6 Recapitalization AoA and Risk Reduction Studies funding in the amount of \$5.000M in FY20 has been realigned under Project Unit 2959, Survivable Airborne Strategic Communications.											
FY 2020 OCO Plans: N/A											
FY 2019 to FY 2020 Increase/Decrease Statement: Decrease of \$6.093M from FY19 to FY20 is attributable to the movement of \$5.000M in FY20 to Project Unit 2959, Survivable Airborne Strategic Communications, to cover the E-6B Recapitalization AoA and Risk Reduction Studies. \$6.100M of the \$10.102M FY19 Project Unit 3002 funding will cover the commencement of the E-6B Recapitalization AoA.											
Accomplishments/Planned Programs Subtotals				1.066	10.102	4.009	0.000	4.009			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020 Base</u>	<u>FY 2020 OCO</u>	<u>FY 2020 Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0564: E-6 Series	194.391	164.511	169.827	-	169.827	189.593	156.462	126.517	129.447	303.106	2,908.776
• RDTE/0101402N/2959: <i>Survivable Airborne Strategic Communications</i>	0.000	0.000	5.000	-	5.000	5.300	2.150	1.150	0.000	0.000	13.600
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. RDT&E,N Project Unit 3002 also funds E-6B Recapitalization AoA that will occur in FY19. RDT&E,N Project Unit 2959 funds E-6B Recapitalization AoA, Requirement Analyses and Risk Reduction Studies that will occur in FY20-FY23. Aircraft Procurement, Navy, Modification of Aircraft (APN-5) funds integration, procurement and installation of aircraft modifications.											
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.											

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms	Project (Number/Name) 3002 / Navy Strategic Comm Project

E. Performance Metrics

E-6B Recapitalization AoA 3rd Qtr FY19 to 4th Qtr FY19. Technical Analysis 1st Qtr FY20, Design Analysis 2nd Qtr FY20, Systems Integration Lab (SIL) Test and Reporting 3rd Qtr FY20.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy **Date:** March 2019

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 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 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 2018	0.961	Nov 2019	-		0.961	0.000	1.922	-
Subtotal			195.224	0.000		0.961		0.961		-		0.961	0.000	197.146	N/A

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
Studies & Analyses	Various	Various : Various	6.252	0.760	Nov 2017	2.021	Nov 2018	2.033	Nov 2019	-		2.033	Continuing	Continuing	Continuing
E-6B Recapitalization Analysis of Alternatives	Various	Various : Various	0.000	0.000		6.100	Apr 2019	0.000		-		0.000	0.000	6.100	-
Subtotal			6.252	0.760		8.121		2.033		-		2.033	Continuing	Continuing	N/A

Remarks

E-6B Recapitalization Analysis of Alternatives needs to be a separate Budget Activity 4 and Program Element. Once the new Budget Activity 4 Program Element is created, PU 2959 will be realigned under the new Program Element.

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
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-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms				Project (Number/Name) 3002 / Navy Strategic Comm Project					
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
Contractor Engineering Support	Various	Various : various	13.996	0.085	Nov 2017	0.413	Nov 2018	0.407	Nov 2019	-		0.407	Continuing	Continuing	Continuing
Governmental Support	Various	Various : various	35.003	0.046	Nov 2017	0.432	Nov 2018	0.433	Nov 2019	-		0.433	Continuing	Continuing	Continuing
Travel	WR	NAVAIR HQ : Patuxent River, MD	2.556	0.175	Oct 2017	0.175	Oct 2018	0.175	Oct 2019	-		0.175	Continuing	Continuing	Continuing
Prior Year Management cost no longer funded in the FYDP	Various	Various : Various	10.598	0.000		0.000		0.000		-		0.000	0.000	10.598	-
Subtotal			62.153	0.306		1.020		1.015		-		1.015	Continuing	Continuing	N/A
			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			270.090	1.066		10.102		4.009		-		4.009	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy	Date: March 2019
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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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Proj 3002	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Advanced Development																												
Studies & Analysis																												
Technical & Design Analysis																												
Systems Integration Lab (SIL) Prototyping																												
Systems Integration Lab (SIL) Testing & Reporting																												
E-6 Recapitalization Analysis of Alternatives (AOA)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy			Date: March 2019
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	2018	3	2020
Advanced Development: Technical & Design Analysis: Technical & Design Analysis (FY18)	1	2018	2	2018
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: 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 2020 Navy			Date: March 2019		
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0101402N / Navy Strategic Comms		Project (Number/Name) 3002 / Navy Strategic Comm Project	
Events by Sub Project	Start		End		
	Quarter	Year	Quarter	Year	
	2	2024	2	2024	
	3	2018	4	2018	
	3	2019	4	2019	
	3	2020	4	2020	
	3	2021	4	2021	
	3	2022	4	2022	
	3	2023	4	2023	
	3	2024	4	2024	
Advanced Development: E-6 Recapitalization Analysis of Alternatives (AOA): E-6B Recapitalization Analysis of Alternatives		3	2019	4	2019