

EXHIBIT R-2, RDT&E Budget Item Justification	DATE: May 2009
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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7	R-1 ITEM NOMENCLATURE 0101402N, NAVY STRATEGIC COMMUNICATIONS
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COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Total PE Cost	35.636	43.296	43.982					
3002 NAVY STRATEGIC COMMUNICATIONS BLOCK I	35.636	43.296	43.982					

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(3002) The E-6B Block I modification program corrects Airborne National Command Post program Follow-On Operational Test and Evaluation operational suitability deficiencies and addresses legacy system obsolescence issues. Without the Block I program, legacy system obsolescence will result in several unsupportable mission systems by 2010. Block I designs, develops, integrates, and tests a Multi-level Security system, Open Systems Architecture; replaces the intercommunications and Mission Computer Set; modifies the cooling, electrical, and Ultra-High Frequency Command, Control and Communications system; and addresses Internet Protocol Bandwidth Expansion impacts to pre-Block I baseline aircraft. Block I adds operator workstations throughout the aircraft to reduce workload and improve system interoperability, and provides a foundation for evolutionary upgrades. Other modifications (BLOCK 1A) include: an additional Auxiliary Power Unit to enhance power and cooling capabilities supporting the additional systems in the Multi-level Security system, Open Systems Architecture, a Very Low Frequency Transmitter obsolescence replacement, and a High Power Transmit Set subsystem refurbishment.

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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7		R-1 ITEM NOMENCLATURE 0101402N, NAVY STRATEGIC COMMUNICATIONS
B. PROGRAM CHANGE SUMMARY:		
Funding:		
Previous President's Budget:	FY08	FY09
Current President's Budget:	35.777	47.495
Total Adjustments	35.636	43.296
	-0.141	-4.199
	-0.612	-0.612
Summary of Adjustments		
Congressional Rescissions		
Congressional Adjustments		-4.081
SBIR/STTR/FTT Assessments	-0.141	
Program Adjustments		-0.601
Rate/Misc Adjustments		-0.118
Subtotal	-0.141	-4.199
	-0.612	-0.612
Schedule:		
Block IA Request for Proposal, Contract Award, Systems Integration Lab (SIL) installation and Prototype Aircraft installation slipped to the right due to FY08 team staffing shortfalls and the requirement to update and staff the Acquisition Plan to accompany the Justification and Approval.		
Block I Aircraft Contractor / Developmental Testing (CT / DT) extended into the 2Q of FY10 to address aircraft hardware-software integration issues and reduce system defects prior to the start of Government Development Testing. Aircraft Developmental Testing is planned to start in May 2009. Milestone C, Low Rate Initial Production (LRIP) contract award, and the LRIP phase have been delayed into 4Q FY10 commensurately.		
Technical:		
Not Applicable		

EXHIBIT R-2a, RDT&E Project Justification							DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0101402N, NAVY STRATEGIC COMMUNICATIONS			PROJECT NUMBER AND NAME 3002, NAVY STRATEGIC COMMUNICATIONS BLOCK I			
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010				
Project Cost		35.636	43.296	43.982				
RDT&E Articles Qty		1		2				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The E-6B Block I modification program corrects Airborne National Command Post program Follow-On Operational Test and Evaluation operational suitability deficiencies and addresses legacy system obsolescence issues. Without the Block I program, legacy system obsolescence will result in several unsupportable mission systems by 2010. Block I designs, develops, integrates, and tests a Multi-level Security (MLS) system, Open Systems Architecture (OSA); replaces the intercommunications and Mission Computer Set; modifies the cooling, electrical, and Ultra-High Frequency Command, Control and Communications system; and addresses Internet Protocol Bandwidth Expansion impacts to pre-Block I baseline aircraft. Block I adds operator workstations throughout the aircraft to reduce workload and improve system interoperability, and provides a foundation for evolutionary upgrades. Other modifications (BLOCK 1A) include: an additional Auxiliary Power Unit to enhance power and cooling capabilities supporting the additional systems in the Multi-level Security system, Open Systems Architecture, a Very Low Frequency Transmitter obsolescence replacement, and a High Power Transmit Set subsystem refurbishment.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA7	PROGRAM ELEMENT NUMBER AND NAME 0101402N, NAVY STRATEGIC COMMUNICATIONS	PROJECT NUMBER AND NAME 3002, NAVY STRATEGIC COMMUNICATIONS BLOCK I
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B. Accomplishments/Planned Program

MANAGEMENT AND OVERSIGHT	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	3.676	8.242	5.715
RDT&E Articles Quantity			

Funding supports Government acquisition planning, acquisition strategy adjustment, requirements analysis, industry conferences, Department of Defense (DoD) 5000 Series document development and revision, program management, technical reviews, oversight, SIL and aircraft modification and test, contract management; design, test readiness, and Contract Data Requirements List (CDRL) reviews; functional and physical configuration audits; technical interchange and program management meetings; development and operational test planning, execution, and reporting in support of Government review and design approval of Block I and IA modifications. Development of design changes to accommodate Internet Protocol Bandwidth Expansion (IPBE) impacts and the Block IA increment began in FY08.

ACQUISITION DEVELOPMENT & SUPPORT	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	1.653	3.464	1.135
RDT&E Articles Quantity			

Funding will be used to buy contract support services to perform engineering, management, trade studies, and analysis to develop acquisition documents; plan logistics and training; develop and monitor schedules and revisions to DoD 5000 series documents; attend industry conferences; perform engineering and architectural studies and analyses; modify and test the SIL and aircraft; conduct functional and physical configuration audits; and review CDRL for Block I and IA modifications. Development of design changes to accommodate IPBE impacts and the Block IA increment started in FY08.

PROTOTYPE AIRCRAFT INDUCTION	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	30.307	30.068	34.879
RDT&E Articles Quantity	1		2

Funding supports tasks allotted to the prime contract including; program initiation, engineering research, design development, integration and test of Block I and IA systems; preparation and presentation of the Block I and IA designs and test readiness reviews; SIL and aircraft modification, functional and physical configuration audits; contractor developmental test planning, leading to Low Rate Initial Production approval and award. Development of design changes to accommodate IPBE impacts and the Block IA increment began in FY08.

EXHIBIT R-2a, RDT&E Project Justification		DATE: May 2009
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA7	PROGRAM ELEMENT NUMBER AND NAME 0101402N, NAVY STRATEGIC COMMUNICATIONS	PROJECT NUMBER AND NAME 3002, NAVY STRATEGIC COMMUNICATIONS BLOCK I

B. Accomplishments/Planned Program (Cont.)

DEVELOPMENTAL/OPERATIONAL TESTING	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost		1.522	2.253
RDT&E Articles Quantity			

Funding supports Developmental Testing and Operational Testing.

EXHIBIT R-2a, RDT&E Project Justification			DATE: May 2009									
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0101402N, Navy Strategic Communications		PROJECT NUMBER AND NAME 3002, Navy Strategic Communications Block I								
<p>C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Line Item No. & Name</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2008</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2009</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2010</u></th> </tr> </thead> <tbody> <tr> <td style="padding-top: 10px;">056400 E-6 A/B SERIES (P1#-45)</td> <td style="text-align: right; padding-top: 10px;">84.589</td> <td style="text-align: right; padding-top: 10px;">88.632</td> <td style="text-align: right; padding-top: 10px;">102.646</td> </tr> </tbody> </table> <p>D. ACQUISITION STRATEGY:</p> <p>Competitively awarded Cost Plus Award Fee (CPAF) development contract and Cost Plus Incentive Fee (CPIF) Low Rate Initial Production (LRIP) option with sole source follow-on Firm Fixed Price (FFP) Full Rate Production (FRP) contract. The current contract was modified on 13 April 2007 to a CPIF contract.</p>					<u>Line Item No. & Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	056400 E-6 A/B SERIES (P1#-45)	84.589	88.632	102.646
<u>Line Item No. & Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>									
056400 E-6 A/B SERIES (P1#-45)	84.589	88.632	102.646									

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Exhibit R-3 Cost Analysis (page 1)							DATE: May 2009						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME							
RDT&E, N / BA-7			0101402N, NAVY STRATEGIC COMMUNICATIONS			3002, NAVY STRATEGIC COMMUNICATIONS BLOCK I							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost							
Primary Hardware Development	C/CPiF	Rockwell Collins, Ced	113.400	18.349	01/09	9.534	01/10						
Award Fee	C/CPAF	Rockwell Collins, Ced	3.751										
Primary Hdw Development	C/CPiF	TBD		10.519	Various	25.345	Various						
Training Development WST	C/CPiF	TBD		1.200	06/09								
Subtotal Product Development			117.151	30.068		34.879							
<p>Remarks: The Rockwell Collins Primary Hardware contract was converted from a Competively Awarded/Cost plus Award Fee to a Competively Awarded/Cost plus Incentive beginning in FY07</p>													
Studies and Analyses	RX	VARIOUS	4.377	0.035	04/09								
Subtotal Support			4.377	0.035		0.000							

Exhibit R-3 Cost Analysis (page 2)							DATE: May 2009					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0101402N, Navy Strategic Communications			3002, Navy Strategic Communication Block I						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Developmental Test & Evaluation	WX	NAVAIR HQ, Pax River, MD		1.522	12/08	0.105	12/09					
Operational Test & Evaluation	WX	NAVAIR HQ, Pax River, MD				2.148	12/09					
Subtotal T&E			0.000	1.522		2.253						
Remarks:												
Contractor Engineering Support	RX	Various	10.065	2.054	12/08	0.768	12/09					
Government Engineering Support	WX	Various	27.166	7.942	12/08	5.566	12/09					
Program Management Support	RX	Various	8.962	1.375	12/08	0.216	12/09					
Travel	TO	NAVAIR HQ, Pax River, MD	0.989	0.300	Various	0.300	Various					
Subtotal Management			47.182	11.671		6.850						
Remarks:												
Total Cost			168.710	43.296		43.982						
Remarks:												

EXHIBIT R4, Schedule Profile													DATE: May 2009			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7					PROGRAM ELEMENT NUMBER AND NAME 0101402N, Navy Strategic Communications								PROJECT NUMBER AND NAME 3002, Navy Strategic Communications Block I			
Fiscal Year	2008				2009				2010							
	1	2	3	4	1	2	3	4	1	2	3	4				
Acquisition Milestones																
Source Selection																
Contract Award / Modifications																
Design Readiness Review																
Milestone C																
System Development																
System Integration Lab (SIL) Install																
Prototype Aircraft (A/C) Installation																
Test & Evaluation Milestones																
Contractor/Developmental																
Operational Test (OPEVAL)																
Production Milestones																
LRIP Phase																
Full Rate Production Decision/Start																
First Deployment																
Full Rate Production																
IOC																

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Exhibit R-4a, Schedule Detail			DATE: May 2009
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT 0101402N, Navy Strategic Communications	PROJECT NUMBER AND NAME 3002, Navy Strategic Communications Block I	
Schedule Profile	FY 2008	FY 2009	FY 2010
Systems Integration Lab (Blk I)	1Q-3Q		
Source Selection (Blk IA)	3Q-4Q	1Q-4Q	
SIL Contractor/Developmental Testing (CT/DT) (Blk I)	3Q-4Q	1Q-4Q	
Prototype Aircraft Installation (Blk I)	2Q-4Q	1Q	
Contract Award (Blk IA)		4Q	
A/C Contractor/Developmental Testing (CT/DT) (Blk I)		2Q-4Q	1Q-2Q
Milestone C (MS-C) (Blk I)			3Q
Contract Award Low Rate Initial Production (LRIP) (Blk I)			3Q
Operational Testing (OPEVAL) (Blk I)			2Q
Systems Integration Lab (Blk IA)			4Q
Prototype Aircraft Installation (Blk IA)			4Q
LRIP Phase			3Q-4Q
SIL Contractor/Developmental Testing (CT/DT) (Blk IA)			2Q-4Q
A/C Contractor/Developmental Testing (CT/DT) (Blk IA)			3Q-4Q
Full Rate Production (FRP) Decision/Start (Blk I)			
Full Rate Production (FRP) (Blk I)			
Operational Testing (OPEVAL) (Blk IA)			
First Deployment (Blk I)			
Full Rate Production (FRP) Decision/Start (Blk IA)			
Milestone C (MS-C) (Blk IA)			
Full Rate Production (FRP) Contract Award (Blk IA)			
Full Rate Production (FRP) (Blk IA)			
Initial Operational Capability (IOC) (Blk I)			
First Deployment (Blk IA)			
Initial Operational Capability (IOC) (Blk IA)			