

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7					R-1 ITEM NOMENCLATURE 0101402N Navy Strategic Communications			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	4.556	20.902	27.357	32.691	35.028	29.322	1.521	0.162
H0793 E-6 Service Life Assessment		2.829	3.128	0.979				
H3002 Navy Strategic Communications Block 1	4.556	18.073	24.229	31.712	35.028	29.322	1.521	0.162
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
<p>(H0793) A Service Life Assessment of selected critical components will be performed on the E-6B. The original service life of this airframe was 27,000 hours based on a prescribed weight and expected operational usage. Current weight and operational usage exceed those original values and lessen, by some unknown value, the original 27,000 hour airframe service life. The contractor will analyze fleet aircraft and review onboard recorder data in order to generate an updated loads spectrum. The contractor will update the external/internal loads analysis associated with the updated loads spectrum and operational usage data. Utilizing the data from the first two steps, the contractor will update the existing E-6 Durability and Damage Tolerance Assessments. This data will then allow the contractor to update the Reliability-Centered Maintenance (RCM) analysis, individual aircraft tracking, and optimize the E-6 Maintenance Plans. The contractor will perform preliminary high level trade studies of potential modifications to increase the service life.</p>								
<p>(H3002) The Block I project corrects FOT&E deficiencies. It consists of the design, development, integration and testing of the replacements for the existing Digital Airborne Intercommunications Switching System (DAISS), Very Low Frequency (VLF) transmit terminal, Mission Computer System (MCS) and Ultra-High Frequency Command, Control and Communications (UHF C3) system. The Block 1 project also incorporates an Open Systems Architecture (OSA) into the E-6 aircraft, fixes ground power and cooling capabilities for austere operations, and adds automatic retransmit of voice messages and improved workstations in the battle staff area.</p>								

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 Exhibit R-2, RDTEN Budget Item Justification
 (Exhibit R-2, page 1 of 17)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications				PROJECT NUMBER AND NAME H0793 E-6 Service Life Assessment			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		2.829	3.128	0.979				
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(H0793) A Service Life Assessment of selected critical components will be performed on the E-6B. The original service life of this airframe was 27,000 hrs based on a prescribed weight and expected operational usage. Current weight and operational usage exceed those original values and lessen, by some unknown value, the original 27,000 hr airframe service life. The contractor will analyze fleet aircraft and review onboard recorder data in order to generate an updated loads spectrum. The contractor will update the external/internal loads analysis associated with the updated loads spectrum and operational usage data. Utilizing the data from the first two steps, the contractor will update the existing E-6 Durability and Damage Tolerance Assessments. This data will then allow the contractor to update the Reliability-Centered Maintenance (RCM) analysis, individual aircraft tracking, and optimize the E-6 Maintenance Plans. The contractor will perform preliminary high level trade studies of potential modifications to increase the service life.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications	PROJECT NUMBER AND NAME H0793 E-6 Service Life Assessment		
B. Accomplishments/Planned Program				
	FY 02	FY 03	FY 04	FY 05
Engineering and Technical Support / \$6.936		2.829	3.128	0.979
RDT&E Articles Quantity N/A				
<p>Funding supports the E-6 Service Life Assessment Program, which includes the following efforts: Assemble and deliver GFI; review and correct CDRLs; assist contractor in developing critical location selection criteria; perform RCM Analysis; assess scheduled maintenance impacts; perform supportability analysis; attend technical review meetings; determine the load-to-strain/stress relationships for each critical location; generate a service spectra and calculate critical location fatigue lives that 90 percent of the fleet should exceed; perform damage tolerance analysis to determine critical location inspection techniques and intervals; evaluate life enhancement potential for life-critical locations; modify the LOOPIN fatigue damage algorithms to accept available individual aircraft data (3M, NAVAIR form 13920/1, Structural Data Recording Set (SDRS), and structural configuration) to calculate individual aircraft fatigue life expended (FLE) values for all critical locations; baseline individual aircraft FLE values; develop damage tolerance algorithms to accept available individual aircraft data (3M, NAVAIR form 13920/1, Structural Data Recording Set (SDRS), and structural configuration) to calculate individual aircraft crack size (growth) values for all critical locations.</p>				

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 3 of 17)

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications	PROJECT NUMBER AND NAME H0793 E-6 Service Life Assessment		

C. PROGRAM CHANGE SUMMARY:

	FY 2002	FY 2003	FY 2004	FY 2005
Funding:				
Previous President's Budget:	0.000	2.899	3.200	1.000
Current BES/President's Budget	0.000	2.829	3.128	0.979
Total Adjustments	0.000	-0.070	-0.072	-0.021
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.017		
Congressional rescissions				
SBIR/STTR Transfer				
Economic Assumptions		-0.053	-0.072	-0.021
Reprogrammings				
Other Navy/OSD Adjustments				
Congressional increases				
Subtotal	0.000	-0.070	-0.072	-0.021

Schedule:

Schedule change regarding report deliveries is due to update of the requirements since the FY-03 President's Budget.

Technical:

Not Applicable

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications			PROJECT NUMBER AND NAME H0793 E-6 Service Life Assessment			

D. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Complete</u>	<u>Total Cost</u>
056400 E-6A/B Series	74.986	55.787	48.517	22.083	15.775	47.245	81.206	73.729	175.626	594.954

E. ACQUISITION STRATEGY:

SLAP will be a sole source program due to the proprietary nature of the data needed to complete required studies and analyses. This will be a Cost Reimbursable Contract. Contract Award is expected in 2nd quarter FY03. SLAP analysis is the precursor to an effective SLEP program, needed to keep this aircraft a viable Strategic Asset.

F. MAJOR PERFORMERS:

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0101402N Navy Strategic Communications			H0793 E-6 Service Life Assessment						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Studies & Analyses	SS/CPIF	Boeing Seattle, WA		2.278	03/03	2.383	10/03	0.979	10/04		5.640	5.640
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			0.000	2.278		2.383		0.979		0.000	5.640	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-7			PROGRAM ELEMENT 0101402N Navy Strategic Communications			PROJECT NUMBER AND NAME H0793 E-6 Service Life Assessment						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Government Engineering Support	WX	NAWCAD PAX RIVER, MD		0.491	10/02	0.439	10/03				0.930	
Government Engineering Support	WX	NADEP JAX, FL				0.286	10/03				0.286	
Travel				0.060	Various	0.020	Various				0.080	
											0.000	
											0.000	
											0.000	
Subtotal Management			0.000	0.551		0.745		0.000		0.000	1.296	
Remarks:												
Total Cost			0.000	2.829		3.128		0.979		0.000	6.936	
Remarks: There is no Product Development related to this program.												

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EXHIBIT R4, Schedule Profile																								DATE:				February 2003				
APPROPRIATION/BUDGET ACTIVITY									PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME											
RDT&E, N / BA-7									0101402N Navy Strategic Communications												H0793 E-6 Service Life Assessment											
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009			
	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	1	2	3	4
Acquisition Milestones																																
Contract Award																																

* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 9 of 17)

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications				PROJECT NUMBER AND NAME H3002 Navy Stagic Communications Project Block 1			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	4.556	18.073	24.229	31.712	35.028	29.322	1.521	0.162
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(H3002) The Block I project corrects FOT&E deficiencies. It consists of the design, development, integration and testing of the replacements for the existing Digital Airborne Intercommunications Switching System (DAISS), Very Low Frequency (VLF) transmit terminal, Mission Computer System (MCS) and Ultra-High Frequency Command, Control and Communications (UHF C3) system. The Block 1 project also incorporates an Open Systems Architecture (OSA) into the E-6 aircraft, fixes ground power and cooling capabilities for austere operations, and adds automatic retransmit of voice messages and improved workstations in the battle staff area.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications	PROJECT NUMBER AND NAME H3002 Navy Strategic Communications Project Block 1																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%; text-align: center;">FY 02</td> <td style="width: 15%; text-align: center;">FY 03</td> <td style="width: 15%; text-align: center;">FY 04</td> <td style="width: 15%; text-align: center;">FY 05</td> </tr> <tr> <td>Acquisition Planning & Milestone Documentation /\$21.968M</td> <td style="text-align: center;">1.707</td> <td style="text-align: center;">9.808</td> <td style="text-align: center;">4.747</td> <td style="text-align: center;">5.706</td> </tr> <tr> <td>RDT&E Articles Quantity N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Funding supports acquisition planning initiation, aquisition strategy development & implementation, requirements and engineering specification development & refinement, industry day conferences, DoD 5000 series document development, program management, contract award activities, preliminary design reviews (PDRs), CDRL reviews, technical interchange meetings, and discussions and incremental design approval for the replacement of DAISS, VLF, MCS, UHF C3 System, incorporation of OSA, fixes in ground power and cooling capabilities for austere operations, and addition of automatic retransmit of voice messages and flat panel displays in the battle staff area. </div>						FY 02	FY 03	FY 04	FY 05	Acquisition Planning & Milestone Documentation /\$21.968M	1.707	9.808	4.747	5.706	RDT&E Articles Quantity N/A				
	FY 02	FY 03	FY 04	FY 05															
Acquisition Planning & Milestone Documentation /\$21.968M	1.707	9.808	4.747	5.706															
RDT&E Articles Quantity N/A																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%; text-align: center;">FY 02</td> <td style="width: 15%; text-align: center;">FY 03</td> <td style="width: 15%; text-align: center;">FY 04</td> <td style="width: 15%; text-align: center;">FY 05</td> </tr> <tr> <td>Engineering, Mgmt., Studies & Analysis / \$19.342M</td> <td style="text-align: center;">2.849</td> <td style="text-align: center;">8.265</td> <td style="text-align: center;">3.778</td> <td style="text-align: center;">4.450</td> </tr> <tr> <td>RDT&E Articles Quantity N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Funding supports engineering, management, and studies and analysis contract support services for acquisition planning and development of acquisition documents, schedule development and monitoring, industry day conferences, DoD 5000 series document development, Request for Proposal (RFP) development, baseline testing, engineering and C3 architectural studies and analysis, logistics planning, training planning and CDRL reviews for the replacement of DAISS, VLF, MCS, UHF C3 System, incorporation of OSA, fixes in ground power and cooling capabilities for austere operations, and addition of automatic retransmit of voice messages and flat panel displays in the battle staff area. </div>						FY 02	FY 03	FY 04	FY 05	Engineering, Mgmt., Studies & Analysis / \$19.342M	2.849	8.265	3.778	4.450	RDT&E Articles Quantity N/A				
	FY 02	FY 03	FY 04	FY 05															
Engineering, Mgmt., Studies & Analysis / \$19.342M	2.849	8.265	3.778	4.450															
RDT&E Articles Quantity N/A																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%; text-align: center;">FY 02</td> <td style="width: 15%; text-align: center;">FY 03</td> <td style="width: 15%; text-align: center;">FY 04</td> <td style="width: 15%; text-align: center;">FY 05</td> </tr> <tr> <td>Prime System Development / \$37.260M</td> <td></td> <td></td> <td style="text-align: center;">15.704</td> <td style="text-align: center;">21.556</td> </tr> <tr> <td>RDT&E Articles Quantity N/A</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Funding supports prime contract award for Block I program initiation, engineering research, design development for OSA, MCS, DAISS and other subsystems related to Block I, preparations (engineering, logistics, training) for PDRs, preparation for and presentation of the Block I design, LRIP approval and successive technical interchange meetings leading to Critical Design Review (CDR). </div>						FY 02	FY 03	FY 04	FY 05	Prime System Development / \$37.260M			15.704	21.556	RDT&E Articles Quantity N/A				
	FY 02	FY 03	FY 04	FY 05															
Prime System Development / \$37.260M			15.704	21.556															
RDT&E Articles Quantity N/A																			

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 11 of 17)

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications	PROJECT NUMBER AND NAME H3002 Navy Statagic Communications Project Block 1		

C. PROGRAM CHANGE SUMMARY:

	FY 2002	FY 2003	FY 2004	FY 2005
Funding:				
Previous President's Budget:	4.168	18.553	43.481	41.566
Current BES/President's Budget	4.556	18.073	24.229	31.712
Total Adjustments	0.388	-0.480	-19.252	-9.854
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.142		
Congressional rescissions	-0.009			
SBIR/STTR Transfer	-0.092			
Economic Assumptions	-0.012	-0.338	-0.603	-0.713
Reprogrammings	0.501			
Other Navy/OSD Adjustments			-18.649	-9.141
Congressional increases				
Subtotal	0.388	-0.480	-19.252	-9.854

Schedule:

Change in schedule is due to E-6 TOA realignment and going from a three phase program to a single phase program.

Technical:

Technical change is due to ancillary technical descriptions being slightly different as the Block 1 program becomes better defined. Primary modifications and corrections to FOT&E deficiencies remain the same. Also, technical requirements for HPTS were shifted to APN-5 for further definition.

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Exhibit R-2a, RDTEEN Project Justification
(Exhibit R-2a, page 12 of 17)

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EXHIBIT R-2a, RDT&E Project Justification								DATE: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT NUMBER AND NAME 0101402N Navy Strategic Communications			PROJECT NUMBER AND NAME H3002 Navy Strategic Communications Project Block 1			

D. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Complete</u>	<u>Total Cost</u>
056400 E-6A/B Series	74.986	55.787	48.517	22.083	15.775	47.245	81.206	73.729	175.626	594.954

E. ACQUISITION STRATEGY:

Competitively Award Cost Plus Development Contract with follow on FFP Production Contract.

F. MAJOR PERFORMERS:

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2003				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDTE, N / BA-7			0101402N Navy Strategic Communications			H3002 Navy Strategic Communications Project Block 1						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPAF	TBD				15.704	10/03	21.556	10/04	48.851	86.111	86.111
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			0.000	0.000		15.704		21.556		48.851	86.111	
Remarks:												
Studies & Analyses	RX	Various	0.571	2.351	10/02	0.795	10/03	0.953	10/04	1.543	6.213	6.213
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			0.571	2.351		0.795		0.953		1.543	6.213	
Remarks:												

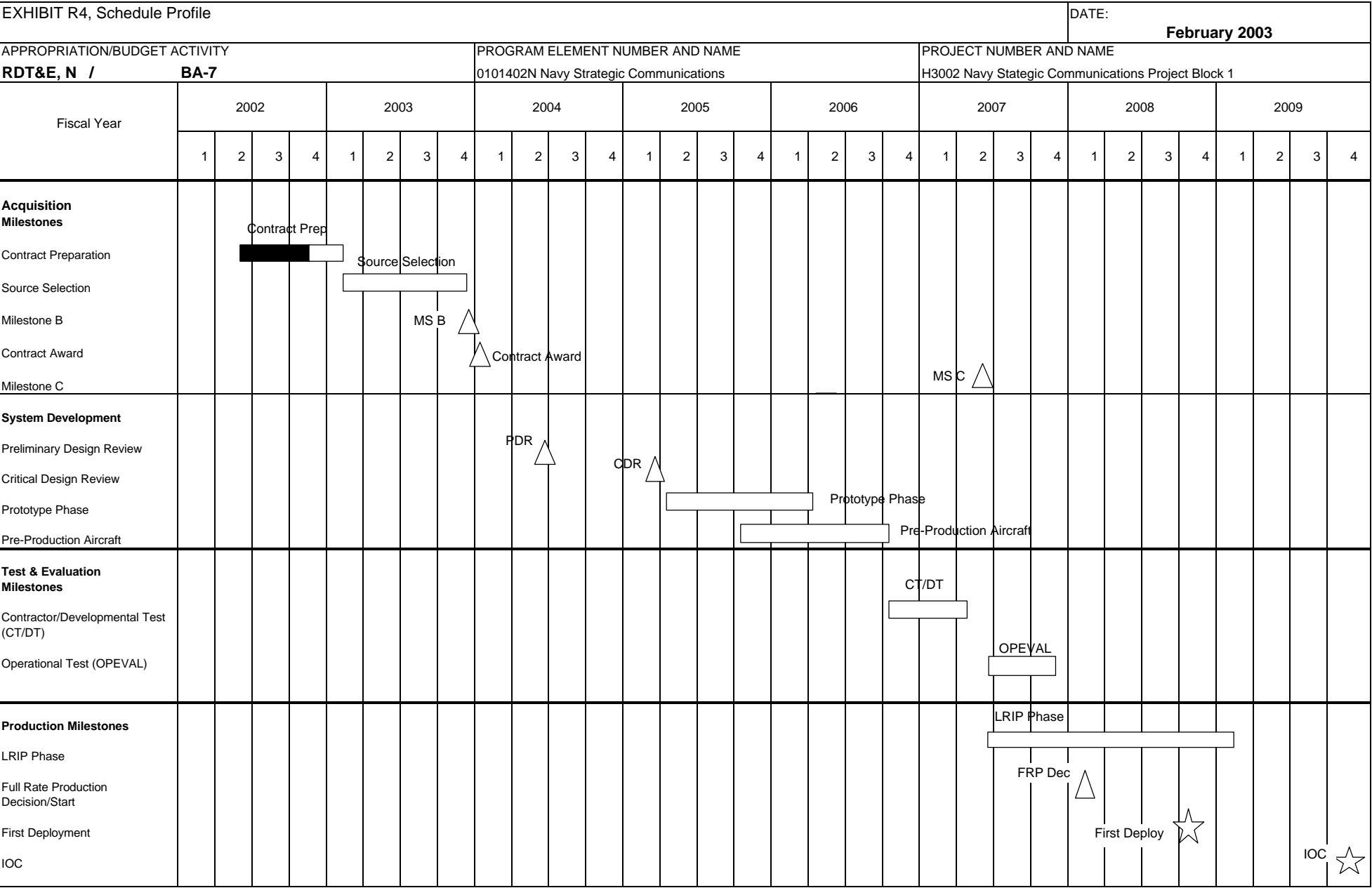
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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDTE, N / BA-7			0101402N Navy Strategic Communications			H3002 Navy Strategic Communications Project Block 1						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks:												
Program Management Support	RX	Various A&AS	1.105	2.796	10/02	1.065	10/03	1.310	10/04	1.665	7.941	
Government Engineering Support	WX	NAWCAD PAX RIVER, MD	1.475	9.234	10/02	4.139	10/03	5.095	10/04	8.859	28.802	
Contractor Engineering Support	RX	Various A&AS	1.173	3.118	10/02	1.918	10/03	2.187	10/04	3.859	12.255	
Government Engineering Support	WX	NADEP JAX, FL	0.102			0.108	10/03	0.111	10/04	0.201	0.522	
Travel			0.130	0.574	Various	0.500	Various	0.500	Various	1.055	2.759	
											0.000	
Subtotal Management			3.985	15.722		7.730		9.203		15.639	52.279	
Remarks:												
Total Cost			4.556	18.073		24.229		31.712		66.033	144.603	
Remarks:												

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* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-4a, Schedule Detail						DATE: February 2003		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT 0101402N Navy Strategic Communications				PROJECT NUMBER AND NAME H3002 Navy Statagic Communications Project Block 1			
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Contract Preparation	2Q-4Q	1Q						
Source Selection		1Q-4Q						
Milestone B (MS B)		4Q						
Contract Award			1Q					
Preliminary Design Review (PDR)			2Q					
Critical Design Review (CDR)				1Q				
Prototype Phase				2Q-4Q	1Q-2Q			
Pre-Production A/C				4Q	1Q-4Q			
Contractor/Developmental Testing (CT/DT)					4Q	1Q-2Q		
Milestone C (MS C)						2Q		
Operational Testing (OPEVAL)						2Q-4Q		
LRIP Phase						2Q-4Q	1Q-4Q	1Q
Full Rate Production (FRP) Decision/Start							1Q	
First Deployment							4Q	
IOC								4Q

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Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 17 of 17)