

CLASSIFICATION:							
EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /				R-1 ITEM NOMENCLATURE PE 0204574N Cryptologic Direct Support			
				BA 7			
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	1.420	1.434	1.441	1.630	1.644	1.697	2.059
3091 / Advanced Cryptologic Systems Engineering	1.420	1.434	1.441	1.630	1.644	1.697	2.059
Quantity of RDT&E Articles							
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>The Advanced Cryptologic Systems Engineering program develops state-of-the-art signal acquisition software in response to Combatant Command requirements for a quick-reaction surface, subsurface and airborne cryptologic carry-on capability. There are approximately 100 cryptologic capable surface ships in the current Navy inventory. Each of these ships is a potential user of this carry-on equipment, depending on deployment schedules and the tempo of operations. In addition, there are numerous subsurface and air platforms that are also potential users. This funding line will provide the resources to enable rapid transition of available Commercial Off The Shelf (COTS) and Government Off The Shelf (GOTS) technologies that apply to Fleet requirements for carry-on system functionalities. These technologies typically require various levels of integration to leverage on-board systems that provide system and mission management, product reporting and data analysis. COTS/GOTS system documentation and training materials usually require some level of adaptation or modification to meet fleet operator requirements, or entirely new training materials may need to be developed. Before deployment for operational use, systems must be systematically tested to ensure suitable and reliable operation, tested for network vulnerabilities if connected to shipboard LANs, and tested relative to interoperability requirements. This RDT&E will provide resources to address rapid deployment of enhancements or improvements to the common hardware and/or software baseline of all other carry-on subsystems to meet emergent requirements.</p>							

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 7	PROGRAM ELEMENT NUMBER AND NAME PE 0204574N Cryptologic Direct Support	PROJECT NUMBER AND NAME 3091 / Advanced Cryptologic Systems Engineering	
(U) B. Accomplishments/Planned Program			
Cryptologic Carry-On Equipment	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.420	1.434	1.441
RDT&E Articles Quantity			
<p>FY07 - Continued to integrate, test, and document identified Commercial and Government off-the-shelf technologies and subsystems that meet emergent and on-going Fleet requirements as specified in the FY07 Signals of Interest and Target Threat list. Continued with developing upgrades to existing systems and subsystems according to Fleet requirements.</p> <p>FY 08 - Continue to integrate, test, and document identified Commercial and Government off-the-shelf technologies and subsystems that meet emergent and on-going Fleet requirements as specified in the FY08 Signals of Interest and Target Threat list. Continue with developing upgrades to existing systems and subsystems according to Fleet requirements.</p> <p>FY 09 - Continue to integrate, test, and document identified Commercial and Government off-the-shelf technologies and subsystems that meet emergent and on-going Fleet requirements as specified in the FY09 Signals of Interest and Target Threat list. Continue with developing upgrades to existing systems and subsystems according to Fleet requirements.</p>			

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<p>(U) 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 2007</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> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2011</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2012</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2013</u></th> </tr> </thead> <tbody> <tr> <td>OPN Line 3501, Cryptologic Equipment</td> <td style="text-align: right;">21.655</td> <td style="text-align: right;">15.958</td> <td style="text-align: right;">16.716</td> <td style="text-align: right;">17.608</td> <td style="text-align: right;">18.928</td> <td style="text-align: right;">18.651</td> <td style="text-align: right;">19.241</td> </tr> </tbody> </table> <p>(U) D. ACQUISITION STRATEGY:</p> <p>Acquisition, management and contracting strategies are to support engineering and manufacturing development by providing funds to Space and Naval Warfare (SPAWAR) Systems Centers (SSCs) Charleston and San Diego, and miscellaneous contractors, with management oversight by SPAWAR.</p> <p>(U) E. MAJOR PERFORMERS: N/A</p> <p>(U) F. METRICS: Earned Value Management (EVM) is used for metrics reporting and risk management.</p>								<u>Line Item No. & Name</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	OPN Line 3501, Cryptologic Equipment	21.655	15.958	16.716	17.608	18.928	18.651	19.241
<u>Line Item No. & Name</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>																
OPN Line 3501, Cryptologic Equipment	21.655	15.958	16.716	17.608	18.928	18.651	19.241																

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Exhibit R-3 Cost Analysis (page 1)									DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 7			PROGRAM ELEMENT PE 0204574N Cryptologic Direct Support			PROJECT NUMBER AND NAME 3091 / Advanced Cryptologic Systems Engineering						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development												
Ancillary Hardware Development												
Systems Engineering	Various	Various	1.380	0.164	12/06	0.167	12/07	0.172	12/08	Continuing	Continuing	Continuing
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development			1.380	0.164		0.167		0.172		Continuing	Continuing	Continuing
Remarks:												
Development Support												
Software Development	Various	Various	2.986	1.002	12/06	1.006	12/07	1.009	12/08	Continuing	Continuing	Continuing
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support			2.986	1.002		1.006		1.009		Continuing	Continuing	Continuing
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N / BA 7			PE 0204574N Cryptologic Direct Support				3091 / Advanced Cryptologic Systems Engineering					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation			0.156	0.055	12/06	0.056	12/07	0.056	12/08	Continuing	Continuing	Continuing
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Subtotal T&E			0.156	0.055		0.056		0.056		Continuing	Continuing	Continuing
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support			0.457	0.155		0.161		0.160		Continuing	Continuing	Continuing
Travel			0.129	0.044		0.044		0.044		Continuing	Continuing	Continuing
Subtotal Management			0.586	0.199		0.205		0.204		Continuing	Continuing	Continuing
Remarks:												
Total Cost			5.108	1.420		1.434	Various	1.441	Various	Continuing	Continuing	Continuing
Remarks:												

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EXHIBIT R4, Schedule Profile																			DATE: February 2008																	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 7								PROGRAM ELEMENT NUMBER AND NAME PE 0204574N Cryptologic Direct Support								PROJECT NUMBER AND NAME 3091 / Advanced Cryptologic Systems Engineering																				
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013							
	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																																				
Prototype Phase	■				■				□				□				□				□				□											
System Development (e.g., Radar System dev.)	▲ SDR				▲ SDR				△ SDR				△ SDR				△ SDR				△ SDR				△ SDR				△ SDR							
Equipment Delivery (e.g., EDM Radar Delivery)			▲				▲				△				△				△				△				△				△					
Test & Evaluation Milestones																																				
Operational Assessment			OA ▲				OA ▲				OA △				OA △				OA △				OA △				OA △				OA △					
Production Milestones																																				
LRIP I																																				
LRIP II																																				
FRP																																				
Deliveries																																				

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Exhibit R-4a, Schedule Detail						DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 7	PROGRAM ELEMENT PE 0204574N Cryptologic Direct Support				PROJECT NUMBER AND NAME 3091/ Advanced Cryptologic Systems Engineering			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Prototype Phase	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
System Design Review (SDR)	2Q	2Q	2Q	2Q	2Q	2Q	2Q	2Q
Operational Assessment (OA)	3Q	3Q	3Q	3Q	3Q	3Q	3Q	3Q
HW/SW Delivery	3Q/4Q	3Q/4Q	3Q/4Q	3Q/4Q	3Q/4Q	3Q/4Q	3Q/4Q	3Q/4Q