CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:							
									Febru	uary 2003					
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NO	MENCLATURE	JRE							
RESEARCH DEVELOPMENT TEST & EVALUAT	ARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7 PE 0204574N Advan														
	Prior										Total				
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program				
Total PE Cost	0.000	0.000	0.000	1.466	1.468	1.470	1.469	1.469	1.469	Continuing	Continuing				
X3091 / Advanced Cryptologic Systems Engineering				1.466	1.468	1.470	1.469	1.469	1.469	Continuing	Continuing				
, , , , , , , , , , , , , , , , , , ,										3					
											0.000				
											0.000				
											0.000				
											0.000				
											0.000				
Quantity of RDT&E Articles											0				

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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 necessary and proper 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 requires 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 training materials may need to be developed. Before deployment for operational use, systems must be system at tested to interoperability requirements. Additionally, the future Maritime Cryptologic Carry-on Equipment (MCA) realized under Ships Signals Exploitation Equipment (SSEE) Increment E and subsequent increments will be procured under Cryptologic Carry-on Equipment as a future carry-on Advanced Cryptologic Carry-on Equipment (ACCES) system starting in FY04. This RDT&E will provide resources to address rapid deployment of enhancements or improvements to the common hardware and/or software baseline to meet emergent requirements.

(U) JUSTIFICATION FOR BUDGET ACTIVITY:

This program is funded under BA-7, OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing operational systems.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT NUM	BER AND NAM	ИΕ		PROJECT NU	IMBER AND N	AME			
RDT&E, N / BA-7	PE 0204574N	Advanced Cry	yptologic Syste	ms Engineering	I	X3091 / Adva	anced Cryptol	ogic Systems	Engineering		
	Prior										Total
COST (\$ in Millions)	Years Cost	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Cost to Complete	Program
Project Cost				1.466	1.468	1.470	1.469	1.469	1.469	Continuing	Continuing
RDT&E Articles Qty											0

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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 necessary and proper 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 requires 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. Additionally, the future Maritime Cryptologic Architecture (MCA) realized under Ships Signals Exploitation Equipment (SSEE) Increment E and subsequent increments will be procured under Cryptologic Carry-On Equipment as a future carry-on Advanced Cryptologic Carry-on Equipment (ACCES) system starting in FY04. This RDT&E will provide resources to address rapid deployment of enhancements or improvements to the common hardware and/or software baseline to meet emergent requirements.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N / BA-7	PE 0204574N Advanced Cryptologic Systems Engineering	X3091 / Advanced Cryptol	ogic Systems Engineering

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			1.466	1.468
RDT&E Articles Quantity				

Cryptologic Carry-On Equipment

FY04 - Integrate, test and document identified Commercial and Government off-the-shelf technologies and subsystems that meet emergent and on-going Fleet requirements. Develop and integrate software and/or hardware improvements to Advanced Carry-on Cryptologic System (ACCES) baseline.

FY05 - Continue to integrate, test and document identified Commercial and Government off-the-shelf technologies and subsystems that meet emergent and on-going Fleet requirements. Develop and integrate software and/or hardware improvements to Advanced Carry-on Cryptologic System (ACCES) baseline.

CLASSIFICATION:

				DATE:					
					February 2003				
PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER A	ND NAME					
PE 0204574N Advanced Cryptolo	ogic Systems E	ngineering	X3091 / Advanced C	yptologic Systems Engineering					
FY 2002	FY 2003	FY 2004	FY 2005						
	0.000	0.000	0.000						
			1.468						
0.000	0.000	0.000	0.000						
	0.000	0.000	0.000						
	PE 0204574N Advanced Cryptolo FY 2002	FY 2002 FY 2003 0.000 0.000 0.000 0.000 0.000 0.000 R ttions	PE 0204574N Advanced Cryptologic Systems Engineering FY 2002 FY 2003 FY 2004 0.000 0.000 0.000 0.000 0.000 1.466 0.000 0.000 0.000 R ttions	PE 0204574N Advanced Cryptologic Systems Engineering X3091 / Advanced C FY 2002 FY 2003 FY 2004 FY 2005 0.000 0.000 0.000 0.000 0.000 0.000 1.466 1.468 0.000 0.000 0.000 0.000 R tions	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME X3091 / Advanced Cryptologic System X3091 /				

CLASSIFICATION:

							February 2003							
PRIATION/BUDGET ACTIVITY		PROGRAM E	LEMENT NUM	BER AND NAM	ИE	PROJECT NU	JMBER AND N							
E, N / BA-7		PE 0204574N	Advanced Cr	yptologic Syste	ms Engineerin	X3091 / Adva	nced Cryptolog	jic Systems Er	ic Systems Engineering					
U) D. OTHER PROGRAM FUNDING S	SUMMARY													
									То	Total				
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Complete	Cost				
OPN Line 3501	14.707	20.287	18.678	20.277	19.917	21.387	21.867	21.766	Continuing	Continuing				
U) E. ACQUISITION STRATEGY:														
Acquisition, management and cont		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
Acquisition, management and cont contractors, with management ove		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				
		upport enginee	ering and manu	facturing devel	opment by pro	viding funds to	SSC-Charlest	on, SSC-San I	Diego and misce	ellaneous				

CLASSIFICATION:

									DATE:									
Exhibit R-3 Cost Analysis (p.	age 1)									February 2003								
APPROPRIATION/BUDGET ACT	IVITY		PROGRAM E	LEMENT			PROJECT NUMBER AND NAME											
RDT&E, N / BA-7			PE 0204574N	Advanced Cr	yptologic Syste	ems Engineerin	X3091 / Adva	nced Cryptolo	gic Systems En	gineering								
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	Various	Various		0031	0031	Date	0.296		0.293		Continuing	1	Continuing					
Ancillary Hardware Development	Various	Various					0.230	12/03	0.233	12/04	Continuing	0.000						
Aircraft Integration												0.000						
Ship Integration												0.000						
Ship Suitability												0.000						
Systems Engineering	Various	Various					0.200	12/03	0.200	12/04	Continuing	1						
Training Development	Various	Various					0.125	1	0.125		Continuing		Continuing					
Licenses	Various	Various					0.120	12/00	0.120	12/04	Continuing	0.000						
Tooling												0.000						
GFE												0.000						
Award Fees												0.000						
Subtotal Product Development				0.000	0.000)	0.621		0.618		Continuing							
Development Support												0.000)					
Software Development	Various	Various					0.620	12/03	0.625	12/04	Continuing	Continuing	Continuing					
Integrated Logistics Support											Continuing	Continuing						
Configuration Management											Continuing							
Technical Data												0.000						
Studies & Analyses												0.000						
GFE												0.000)					
Award Fees												0.000)					
Subtotal Support				0.000	0.000		0.620		0.625		Continuing	Continuing	Continuing					
Remarks:																		

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page	ge 2)										February 200	03	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E	LEMENT			PROJECT N	JMBER AND I	NAME		•		
RDT&E, N / BA-7			PE 0204574N	Advanced Cr	yptologic Syste	ms Engineer	ing X3091 / Adva	nced Cryptolo	gic Systems En	gineering			
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
Developmental Test & Evaluation							0.060	12/03	0.060	12/04	Continuing	Continuing	Continuing
Operational Test & Evaluation											_	0.000	
Live Fire Test & Evaluation												0.000	
Test Assets							0.040	12/03	0.040	12/04	Continuing	Continuing	Continuing
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal T&E				0.000	0.000		0.100	0	0.100		0.000	0.200	
Contractor Engineering Support												0.000	
Government Engineering Support												0.000	
Program Management Support							0.125	12/03	0.125	12/04	Continuing	Continuing	Continuing
Travel											Continuing	Continuing	Continuing
Transportation												0.000	
SBIR Assessment												0.000	
Subtotal Management				0.000	0.000)	0.125	5	0.125		0.000	0.250	
Remarks:													
Total Cost				0.000	0.000)	1.466	6	1.468		Continuing	Continuing	
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedu																										DATE		F	ebrua	ry 20	03		
APPROPRIATION/BUDG															R AND									IUMBEI									
RDT&E, N /	BA-	7								PE 02	04574	N Ad	vanced	l Crypt	ologic (System	ns Eng	ineerin	ıg			X3091	/ Adv	anced (Crypto	ologic S	Systen	ns Engi	neerin	g			
Fiscal Year		2	002	1			200)3			20	04			20	05			200	06			20	07			2008 2009					9	
	1	2	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											SDR				△ SDR				SDR				SDR				△ SDR				SDR		
HW/SW Delivery																	7			Δ	7			4	7								7
Software																																	
Test & Evaluation Milestones												DT				DT				DT				DT				DT				DT	
Development Test																\triangle				\triangle				\triangle				\triangle				\triangle	
Production Milestones																																	
Delivery																																	

R-1 SHOPPING LIST - Item No.

177

CLASSIFICATION:

February 20)03
ologic Systems En	gineering
7 FY 2008	FY 2009
1Q-4Q	1Q-4Q
2Q	2Q
3Q	3Q
3Q/4Q	3Q/4Q
	
	+
	+
	+
	+
	+
	+
	+