CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			
									Febru	uary 2003	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NO	MENCLATURE					
RESEARCH DEVELOPMENT TEST & EVALU	ATION, NAVY /	1	BA-5			PE 0604721N	SHIPBOARD	INFORMATIO	N WARFARE	EXPLOIT SYSTEM	
	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	29.982	9.310	17.077	16.942	18.078	18.799	16.102	16.407	16.715	Continuing	Continuing
X2134/SHIPBOARD IW EXPLOIT	29.982	9.310	13.752	16.942	18.078	18.799	16.102	16.407	16.715	Continuing	Continuing
X9242/COBLU DIGITAL UPGRADE	0.000	0.000	3.325	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.325
											0.000
											0.000
											0.000
											0.00
Quantity of RDT&E Articles											0

Note: Project X2135 has been incorporated into Project X2134 beginning in FY 02. Received Congressional Plus Up in FY02 of \$2,478K for the CDL-N program. Received Congressional Plus Up in FY03 of \$3,325K for the COBLU program.

U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Shipboard Information Warfare line includes the following programs: Ships Signal Exploitation Equipment (SSEE), the Program of Record that executes the Maritime Cryptologic Systems for the 21st Century (MCS 21) and Common Data Link – Navy (CDL-N) the Program of Record that implements the DoD mandated use of the Common Data Link waveform to downlink un-processed SIGINT/COMINT and imagery. FY 03 Congressional Plus-up supports the Cooperative Outboard Logistics Update (COBLU), the Program of Record provides Comprehensive Surface Tactical (CESM) capability. These systems provide the Battle Group with real time Indications and Warnings (I&W) by acquisition and localization of signals of interest (SOI). This program's funding is required to incorporate new commercial off-the-shelf (COTS) based technologies and software into the existing systems. The funding will focus on merging the current IW sensor systems into a scalable sensor package that can be tailored to different ship types and be compliant with the Maritime Cryptologic Architecture.

(U) JUSTIFICATION FOR BUDGET ACTIVITY:

This program is funded under BA-5, ENGINEERING & MANUFACTURING DEVELOPMENT because it encompasses engineering and manufacturing development of new end-items prior to production approval decision.

R-1 SHOPPING LIST - Item No. 129

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	ıary 2003	
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME					AME						
RDT&E, N / BA-5	0604721N/ SH	0604721N/ SHIPBOARD IW EXPLOIT SYSTEM X2134 / SHIPBOARD IW EX			PLOIT						
	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	29.982	9.310	13.752	16.942	18.078	18.799	16.102	16.407	16.715	Continuing	Continuing
RDT&E Articles Qty											0

Note: Received Congressional Plus Up in FY02 of \$2,478K for the CDL-N program. Project X2135 has been incorporated into Project X2134 beginning in FY 02.

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

The Shipboard Information Warfare line includes the following programs: Ships Signal Exploitation Equipment (SSEE), the Program of Record that executes the Maritime Cryptologic Systems for the 21st Century (MCS 21) and Common Data Link – Navy (CDL-N) the Program of Record that implements the DoD mandated use of the Common Data Link waveform to downlink un-processed SIGINT/COMINT and imagery. FY 03 Congressional Plus-up supports the Cooperative Outboard Logistics Update (COBLU), the Program of Record provides Comprehensive Surface Tactical (CESM) capability. These systems provide the Battle Group with real time Indications and Warnings (I & W) by acquisition and localization of signals of interest (SOI). This program's funding is required to incorporate new commercial off-the-shelf (COTS) based technologies and software into the existing systems. The funding will focus on merging the current IW sensor systems into a scalable sensor package that can be tailored to different ship types and be compliant with the Maritime Cryptologic Architecture.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	1		DATE:	
			ı	February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	NAME	
RDT&E, N /BA 5	0604721N / SHIPBOARD IW EXPLOIT SYSTEM	X2134 / SHIPBOARD IW EX	XPLOIT	

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	3.609	2.472	4.000	4.000
RDT&E Articles Quantity				

Common Data Link- Navy (CDL-N)

- FY02 Initiated design and development of CDL-N integrated operator station and Intelligence, Surveillance and Reconnaissance (ISR) processing systems. Continued CDL-N development efforts for interoperability and integration with emerging Navy sensor systems such as VTUAV, F/A-18 SHARP and EP-3E Multi-int systems. Initiated development of the advance technology CDL modem.
- FY03 Continue development and integration of advanced technology CDL modem, design and development of CDL-N Block 1 integrated operator station and development efforts for interoperability and integration with emerging Navy sensor systems such as VTUAV, F/A-18 SHARP and EP-3E Multi-int systems.
- FY04 Integrate advanced technology CDL modem. Continue design and development of CDL-N Block 1 integrated operator station, development efforts for interoperability and integration with emerging Navy sensor systems such as BAMS, F/A-18 SHARP and EP-3E Multi-int systems.
- FY05 Integrate and Test Cooperative Antenna Program EDM Panels. Design and development of CDL-N Block 2 Advanced Technology Insertion and development efforts for interoperability and integration with emerging Navy sensor systems such as BAMS, F/A-18 SHARP and EP-3E Multi-int systems.

R-1 SHOPPING LIST - Item No.

129

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:	
			February 2003	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	NAME	
RDT&E, N / BA 5	0604721N / SHIPBOARD IW EXPLOIT SYSTEM	X2134 / SHIPBOARD IW EX	EXPLOIT	
	•	•		

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.569	0.500	1.500	2.500
RDT&E Articles Quantity				

Cryptologic On-Line Trainer (COLT)

FY02 - COLT supported Combat DF (CDF), Ships Signals Exploitation Equipment (SSEE), and Cooperative Outboard, Logistic Update (COBLU). Modified COLT server for Shipboard IW programs to include expansion of Signals of Interest (SOI), simulations and support for Wide Area Network (WAN) training. Integrated with latest release/update of CUB software.

FY03 - Continue to expand and modify the COLT server for Shipboard IW programs and integration with CUB 4.X software releases. Upgrade COLT client application functionality (SSEE Inc E, COBLU Phase 1, and CDF) to include additional SOI's and other emergent requirements.

FY04 - Modify COLT server in support of integration with CUB 5.X software releases. Upgrade COLT client application functionality (SSEE Inc E, COBLU Phase 1, and CDF) to include additional SOI's and other emergent requirements. Begin COLT integration with Battle Force Tactical Training (BFTT) system.

FY05 - Continue modifications and improvements to COLT server in support of CUB 5.X integration. Upgrade existing COLT client applications (SSEE Inc E, COBLU Phase 1, and CDF). Begin development of COLT SSEE Inc F and P3I requirements. Continue COLT BFTT integration development. Begin COLT automated performance monitoring/assessment functionality development.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	3.925	1.750	1.000	1.000
RDT&E Articles Quantity				

Cryptologic Unified Build (CUB)

FY02 - Initiated development of CUB software to incorporate latest Defense Information Infrastructure Common Operating Environment, DII COE, release for interoperability of Shipboard IW programs. CUB software is utilized on all Shipboard IW programs. This development effort targets the DII COE 4.X baseline. Integrated Defense Messaging System, DMS, software/upgrades into CUB baseline and tested.

FY03 - Continue development of CUB software to incorporate latest DII COE releases/updates for interoperability of Shipboard IW programs. CUB software is utilized on all Shipboard IW programs and is the DII COE 4.X baseline effort. Continue development of CUB on-line tutorial software, CUBOLT, software. Initiate development of Blue Forces IW database.

FY04 - Initiate development of CUB software to incorporate latest DII COE. CUB ensures interoperability between Sensor Systems and C4I systems. This development effort targets the DII COE 5.X baseline.

FY05 - Continue development and integration of CUB software to incorporate DII COE 5.X baseline. This development effort completes the DII COE 5.X baseline. Continue development of CUB On-Line Tutorial, CUBOLT, software.

R-1 SHOPPING LIST - Item No.

129

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 5	0604721N / SHIPBOARD IW EXPLOIT SYSTEM	X2134 / SHIPBOARD IW EX	(PLOIT

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.000	5.000	4.100
RDT&E Articles Quantity				

Multi-Mission Payload (MMP)

FY04 - Initiate System Development Phase of the remotely controlled platform independent MMP, intended for use as a pod on ship based aircraft. Award contracts for research and development of Engineering Development Models, EDMs. Conduct design review and perform end-to-end system engineering analysis. Perform aircraft data analysis and perform integration planning to develop the appropriate engineering design of the payload and its mechanical, electrical and environmental interface components. Determine design and interfaces of the data link equipment, which will be part of or co-located with the MMP to carry the command, control, and data exchange signals.

FY05 - Complete development of the EDMs pod and conduct laboratory acceptance tests. Develop Test Plan. Perform planning for, and make arrangements for, flight certification tests and evaluations. Plan for and obtain the Office of Naval Intelligence, ONI, certification and accreditation for Interim Authority To Operate, IATO. Perform the testing of EDM MMP pods on the aircraft, including flight certifications tests, after aircraft integration.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.662	5.050	2.000	2.500
RDT&E Articles Quantity				

Ship Signal Exploitation Equipment, Increment E

FY02 - Initiated development of SSEE Increment E Engineering Development Model, EDM, which included development and operational testing. This effort is focused on developing state-of-the-art Electronic Support Measures/Signal Intelligence, ESM/SIGINT, attributes into surface Shipboard IW programs.

FY03 - Initiate P3I development and testing of SSEE Increment E upgrades. Upgrade includes incorporation of latest CUB release and expansion of Signal of Interest, SOI, database. Initiate special/modern signal collection and processing development.

FY04 - Initiate P3I development of Command and Control software portion of the Hostile force Integrated Targeting Sub-system, HITS, and Time/Frequency Difference of Arrival functions into SSEE Incr E.

FY05 - Continue with effort to improve Command and Control software portion of the HITS in SSEE Incre E. Continue to expand SOI processing capability to priority signal sets. Fully test improved software.

R-1 SHOPPING LIST - Item No.

129

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justificat	ion		DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAM	1E
RDT&E, N / BA 5	0604721N / SHIPBOARD IW EXPLOIT SYSTEM	X2134/SHIPBOARD IW EXPLO	DIT

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	1.980	1.792	1.618
RDT&E Articles Quantity				

Specific Emitter Identification (SEI)

FY03 - Initiate development of improved Specific Emitter Identification, SEI, software by independent test and evaluation, and begin retooling existing prototypes into a single platform. Conduct testing with SEI collection hardware and software. Initiate expansion of Navy's SEI data dissemination and management architecture. Facilitate the tactical employment of Navy SEI by addressing various operational issues. Continue development, testing, and documentation of SEI software enhancements in GCCS-M (CORRUS), GALE-LITE (SEI-GALE), and other fielded systems.

FY04 - Conduct independent test and evaluation and compatibility testing of SEI software and begin retooling existing prototypes into a single platform, Phase II. Formalize Navy SEI data standards for improved collection and dissemination. Begin integration of SEI capabilities into the Naval single platform distributed surface EW system. Continue to expand SEI database access, dissemination, and integration within the Theater Correlation Functions, TCFs, and tactical users. Continue to address SEI software operational issues to facilitate SEI tactical employment. Continue SEI software enhancements in GCCS-M (CORRUS), GALE-LITE, and other fielded systems.

FY05 - Continue to improve SEI software Phase III to support additional tactical installations, surface combatants, and airborne platforms. Enhance the exchange of Navy SEI data. Begin incorporation of future SEI algorithms corresponding to the next generation of multi-mission combatants and changing target sets. Continue incorporation of SEI into the overall Navy EW architecture for enhanced correlation and integration into Navy single platform distributed EW systems, to include surface, subsurface, and airborne.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.545	2.000	1.650	2.360
RDT&E Articles Quantity				

Antenna & RF Distribution

FY02 - Initiated development of capturing Non-Line-of-Sight High Frequency, HF, signals.

FY03 - Complete development of the High Frequency Non-Line-of-Sight capability. Initiate development of low signature Direction Finding, DF, and Acquisition antenna sub-system. Initiate development of improved Radio Frequency, RF, distribution sub-system. Both antenna and distribution systems will support existing and future ship classes for Shipboard IW programs, handle modern Signals of Interest, SOI, and increase both shipboard and operational environment interference.

FY04 - Implement design goals and objectives for existing antenna and future antenna efforts via requirements analysis. Complete development of existing antenna upgrades for enhanced capability. Initiate prototype demonstration effort for future antenna design for low signature DF and acquisition/enhanced capability and initiation of shipboard EDM plans.

FY05 - Update requirements analysis to maintain growing Signals of Interest, SOI, threat capability support via system RFD unit and future antenna upgrades. Complete development of future antenna for low signature DF and acquisition/enhanced performance.

R-1 SHOPPING LIST - Item No.

129

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:	
							February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	EMENT NUMBER	AND NAME		PROJECT NUMBER	AND NAME	
RDT&E, N / BA-5	0604721N / SH	IPBOARD IW EXF	LOIT SYSTEM		X2134 / SHIPBOARD	O IW EXPLOIT	
(U) C. PROGRAM CHANGE SUMMARY:							
(U) Funding:		FY 2002	FY 2003	FY 2004	FY 2005		
President's Budget:		8.130	14.070				
Current BES/President's Budget		9.310	17.077	16.942	18.078		
Total Adjustments		1.180	3.007	0.000	0.000		
Summary of Adjustments							
Miscellaneous Navy Adjustments		-1.129	-0.185				
Section 8123: Management Reforn	n Initiative	-0.085	0.000				
Congressional Increase		2.500	3.400				
SBIR/STTR Transfer		-0.058	0.000				
Sec. 313, PL 107-206: Revised Econor	nic Assumption	-0.022	0.000				
Economic Assumptions (SEC 8135)	·	-0.026	-0.098				
Business Process Reform (SEC. 8100)		0.000	-0.070				
IT Cost Growth		0.000	-0.032				
FY03 FFRDC reduction Sec. 8029, P.L	. 107-248	0.000	-0.008				
Subtotal		1.180	3.007	0.000	0.000		
(U) Schedule:							
Not Applicable							
(U) Technical:							
Not Applicable							
11 111							
		5 / 01/055					

R-1 SHOPPING LIST - Item No. 129

CLASSIFICATION:

	on							DATE:	Fohru	ary 2003
PROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUME	BER AND NAM	1E	PROJECT NU	MBER AND N	L AME	1 CDI G	ary 2005
T&E, N / BA-5		0604721N / SI				X2134 / SHIPE				
(U) D. OTHER PROGRAM FUNDING SUM	MMARY:								То	Total
<u>Line Item No. & Name</u> OPN Line 2360 DERF line 2360	<u>FY 2002</u> 54.325 3.480	FY 2003 85.235	FY 2004 123.267	FY 2005 69.106	FY 2006 72.538	FY 2007 76.743	FY 2008 78.164	<u>FY 2009</u> 79.608	Complete Continuing	Cost Continuing
Related RDT&E, PE 0305885G (U) E. ACQUISITION STRATEGY:										
Acquisition, management and contracting contractors, with management oversight be		ort engineering	and manufact	uring developn	nent by provid	ing funds to SS	C-Charleston,	SSC-San Dieg	o and miscellan	eous

R-1 SHOPPING LIST - Item No. 129

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pa	ige 1)										February 200)3	
APPROPRIATION/BUDGET ACTI			PROGRAM E	LEMENT			PROJECT NU	JMBER AND	NAME				
RDT&E, N / BA-5			0604721N / S	HIPBOARD IW	EXPLOIT SYS	STEM	X2134 / SHIP	BOARD IW E	XPLOIT				
Cost Categories	Contract	Performing		Total		FY 03		FY 04		FY 05			
	Method	Activity &		PY s	FY 03	Award	FY 04	Award	FY 05	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Primary Hardware Development	Various	Various		35.739	1.912	12/02	2.356	12/03	2.514	12/04	Continuing	Continuing	Continuing
Ancillary Hardware Development												0.000	
Aircraft Integration												0.000	
Ship Integration												0.000	
Ship Suitability												0.000	
Systems Engineering	Various	Various			2.988		3.681		3.927		Continuing	Continuing	Continuing
Training Development	Various	Various			0.075		0.093		0.100		Continuing	Continuing	
Licenses												0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal Product Development				35.739	4.975		6.130		6.541		Continuing	Continuing	Continuing

Remarks:

Development Support								0.000	
Software Development	Various	Various		4.879	6.010	6.413	Continuing	Continuing	Continuing
Integrated Logistics Support	Various	Various	0.254	0.104	0.127	0.136	Continuing	Continuing	
Configuration Management	Various	Various		0.089	0.110	0.117	Continuing	Continuing	
Technical Data								0.000	
Studies & Analyses								0.000	
GFE								0.000	
Award Fees								0.000	
Subtotal Support			0.254	5.072	6.247	6.666	Continuing	Continuing	Continuing

Remarks:

^{1. &}quot;Total PYs Cost" is shown as Primary Hardware Development was taken from the previous budget submit which combined Hardware, Software development and integration into one number.

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pag	e 2)										February 200	3	
APPROPRIATION/BUDGET ACTIVI	TY		PROGRAM E	LEMENT			PROJECT NU	JMBER AND I	NAME				
RDT&E, N / BA-5			0604721N / S	HIPBOARD IV	/ EXPLOIT SY	'STEM	X2134 / SHIP		XPLOIT				
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	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Various		2.354			0.868		0.927	12/04	Continuing	Continuing	
Operational Test & Evaluation	Various	Various		2.00	0.32		0.395		0.421	12/04	Continuing	Continuing	
Live Fire Test & Evaluation		7 4110 410			0.02		0.000		0			0.000	
Test Assets	Various	Various			0.33	4	0.412		0.439		Continuing	Continuing	
Tooling											3	0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal T&E				2.354	1.36	0	1.675		1.787		Continuing	Continuing	
Contractor Engineering Support												0.000	
Government Engineering Support												0.000	
Program Management Support	Various	Various		0.945	2.23	0	2.748		2.932		Continuing	Continuing	Continuing
Travel	Various	Various			0.11	5	0.142		0.152		Continuing	Continuing	Continuing
Transportation												0.000	
SBIR Assessment												0.000	
Subtotal Management				0.945	2.34	5	2.890		3.084		Continuing	Continuing	
Remarks:													
Total Cost				39.292	13.75	2	16.942		18.078		Continuing	Continuing	
Remarks:													

CLASSIFICATION:

EXHIBIT R4, Schedule																										DATE		F	ebrua	ary 20	03		
APPROPRIATION/BUDGE RDT&E, N /	T ACTI\ <u>BA-5</u>									PROC	SRAM				R AND			OIT SYS	STEM			PROJ X2134						OMMO				′ (CDL	L-N)
Fiscal Year		2	2002				20	03			20	04			20	05			20	006			200	07			20	008			200	09	
i iscai i cai	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				¢D	L MS	D											В	lk 1 MS	SD	FC	oc 												
ECP Block 1 Specification Vritten			1	1																													
Award Block 1 Contract						Awa	ırd																										
Test & Evaluation Milestones Development Test												Block	1 DT-0	\vdash	5	4.04	0																
Operational Test Interoperability Testing								SH	ARP						Block	T OA-	0																
Production Milestones FRP FY03																																	
FRP FY04										\																							
Deliveries					6	3				7								em No															

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

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																									DATE	:	F	ebrua	ry 20	03		
APPROPRIATION/BUDGET ACTIVI	TY								PROG	RAM I	ELEME	ENT N	UMBE	R AND	NAM	E					PROJ								ON-LI		AINEI	D
RDT&E, N /	BA-5	5			•				06047	21N/ S	SHIPBO	DARD	IW EX	PLOIT	SYST	ЕМ					(COLT		DOAR	D IVV L	-XI LO	/11/OIX	11 101	-0010	OIN-LI	INC III	MINL	11
Fiscal Year		20	02			200	03			200	04			20	05			20	06			20	07			20	08			200	09	
1 10001 1 001	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	'		J		·		J				<u> </u>					7	-		J		i i		3		•			-			0	
COLT Server Software					Щ																											
.1.7 SW Development					┍┸╜																											
3.1.7 SDT&E				_		_																										
3.1.7 System Documentation																																
3.1.7 Software Delivery						$\stackrel{\checkmark}{\sim}$	_																									
4.0 SW Development																																
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5.0 SW Development														L			Ц .															
5.0 SDT&E																	5															
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6.0 SW Development																											_					
6.0 SDT&E																																
6.0 System Documentation																																
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6x SW Development																												<u> </u>				Ч
6x SDT&E																																5
6x System Documentation																																Γ_{5}
6x Software Delivery																																2
Production Milestones								1																								
FY03 FY04							- 1	١																								1
FY04 FY05							ľ									ا ا																
FY06												Т				,				1												1
FY07																							l									
FY08																																Ц
FY09				↓				\downarrow				\downarrow								\downarrow				\forall				Ц_		- 1		┦
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Deliveries represents s	ites			3				8				3				3				5				2				2				

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

CLASSIFICATION: UNCLASSIFIED

EXHIBIT R4, Schedule I	Profile																								DATE	:	F	ohrus	ry 20	ın3		
APPROPRIATION/BUDGET	ACTIV	ITY							PROG	RAM	ELEMI	ENT N	UMBE	R AND	NAM	IE					PROJ	ECT N	IUMBE	R AN	D NAN	ΛE		coi uc	y 20			
RDT&E, N /	BA-5	5							06047	21N/ S	SHIPBO	DARD	IW EX	PLOIT	SYST	EM					X2134	SHIP	BOAR	D IW E	EXPLC	IT/CR	YPTO	LOGIC	UNIFI	ED BL	JILD (C	UB)
Fiscal Year		200	02			20	03			20	04			200)5			20	06			200	07			20	08			200	09	
	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
Software																																
3.1.7 SW Development						L,																										
3.1.7 SDT&E						_																										
3.1.7 System Documentation					1	_																										
3.1.7 Software Delivery						\mathcal{M}																										
1.0 SW Development							L																									
1.0 SDT&E							┙╽																									
1.0 System Documentation																																
1.0 Software Delivery							\mathcal{M}																									
3x SW Development																																
3x SDT&E																																
3x System Documentation																																
Bx Software Delivery								$\frac{1}{2}$	_																L	L						
1x SW Development																																
1x SDT&E																																
1x System Documentation													\square_{\wedge}																			
1x Software Delivery										\mathbb{Z}			\sum	7																		
5.0 SW Development															1																	
5.0 SDT&E																																
5.0 System Documentation																	ا ہرا															
5.0 Software Delivery																	57															
5x SW Development																																
5x SDT&E																																
5x System Documentation																				$\overline{}$, г			h								
5x Software Delivery																				$\overline{\lambda}$	7 '			7	7							
6.0 SW Development																																
3.0 SDT&E																												ነ				
6.0 System Documentation																								Γ				5, ∣				
6.0 Software Delivery																												\Box				
Sx SW Development																													- I	- I		
Sx SDT&E																													۲			
Sx System Documentation																													۲		Т	$\dashv_{\scriptscriptstyle{\lambda}}$
6x Software Delivery																															I	7,7

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

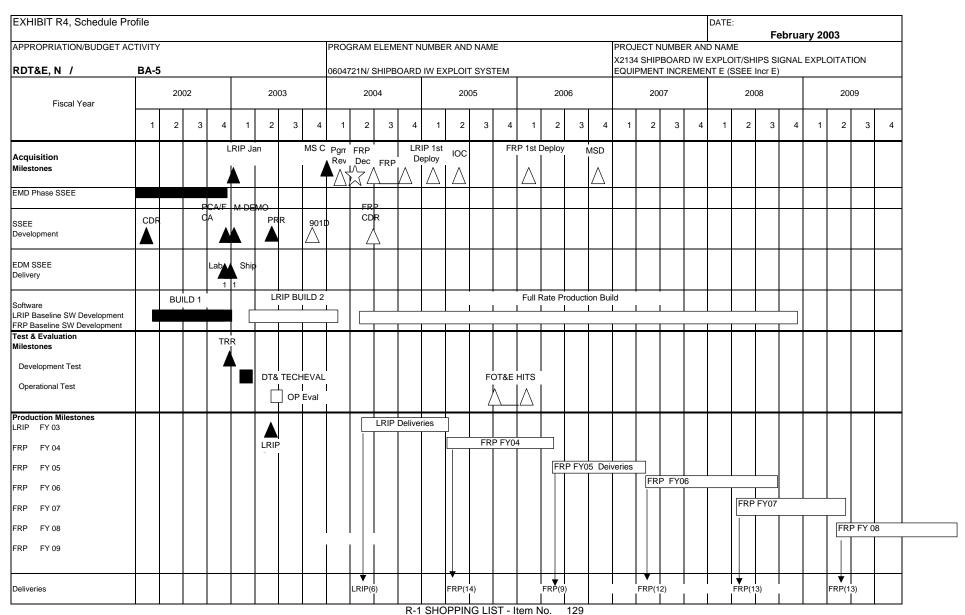
UNCLASSIFIED FOR OFFICIAL USE ONLY

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile													M	ulti_Mi	esion	Payloa	ad (MM	/IP\						DATE	:	F	ebrua	rv 20	03		
APPROPRIATION/BUDGE	T ACTIVI	TY							PROG	RAM	ELEM	ENT N	UMBE				ayıoa	au (IVIIV	··· <i>)</i>		PROJ	ECT N	IUMBE	R ANI	D NAM	1E		JDI UC	y 20			
RDT&E, N /	BA-5	j			1				06047	21N /	SHIPE	OARE	IW E	XPLOI	T SYS	ТЕМ					X2134	SHIP	BOARI	D IW E	XPLO	IT/MUI	_TI-MI	SSION	PAYL	OAD (MMP)	
Fiscal Year		20	002			20	03			200	04			200	05			20	06			200	07			200	08			200	9	
	1	EDM FRP Dec															3	4	1	2	3	4	1	2	3	4						
Acquisition Milestones		EDM Award Bik 1																														
System Development									Aı	S.E. nalysis	5	DR _																				
											A/C alysis	A/C I	ntegra	tion Pla	anning IA	то 																
EDM Delivery															EDM eliverie	s																
Test & Evaluation Milestones Development Test Operational Test														Plan Flight erts	Lab Tests Flig End	ht Tes	Tech Eval dts		Op Evai													
			1	1	1			1	1		I	R-1	SHC	PPIN	G LIS	T - It	em No	0.	129	I				1		ı						

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

CLASSIFICATION:



 $^{^{\}ast}$ Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION:

EXHIBIT R4, Schedule	Profile)																							DATE	<u>:</u>	F	ebrua	ary 20	03		
APPROPRIATION/BUDGE	Γ ACTIV	ITY							PROC	SRAM	ELEN	IENT I	NUMBE	ER ANI	D NAM	E									ID NAN		PECIFIC				FICAT	ION
RDT&E, N /	BA-5	5			1				06047	721N/ S	SHIPE	BOARE) IW EX	XPLOI	T SYST	ГЕМ	ı				(SEI)		DO7 (1)		T	711701	201110	<i>-</i> - - - - - - - - - -			10711	1011
Fiscal Year		2	002			2	003		2004 2005 2006 4 1 2 3 4 1 2 3 4 1 2													20	007			2	800			20	09	
	Contr	a 2	2 2Q	4	ļ.	1	2 3														1	2	3	4	1	2	2 3	4	1	2	3	4
Software Version 1 SW Development Version 1 SDT&E Version 1 Software Delivery												→																				
Version 2 SW Development Version 2 Software Delivery Version 3 SW Development Version 3 Software Delivery															$\stackrel{\wedge}{\searrow}$								☆									
Test & Evaluation Milestones Compatibility Testing Operational Test									Compa	atibility	Testino		ational T	est - Ve	ersion 1		Operati	ional Te	est - Ve	ersion 2				Opera	ational T	est - V	ersion 3					
Production Milestones FY03 FY04 FY05											Ę																					
FY06 FY07																																
FY08												,															<u> </u>					
Deliveries											10				12				14				16									

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

CLASSIFICATION:

EXHIBIT R4, Schedule	e Profile	9																								DATE	<u>:</u>						
																												F	ebru	ary 2	003		
APPROPRIATION/BUDGE	T ACTIV	/ITY							PROC	GRAM	ELEM	ENT N	IUMBE	R AND	NAM C	ΙE					PR	OJE	CT N	UMBE	R ANI	D NAN	ΛE						
RDT&E, N /									06047	721N/ S	SHIPB	OARD	IW EX	(PLOIT	r sys	TEM					X2	134	SHIPE	BOAR	D IW E	EXPLO	OIT/AN	ITENN	A RF [DISTR	IBUTIC	N (AR	FD)
Fiscal Year		2	2002			20	03			20	04			20	05			20	006				200	7			20	800			20	09	
	Contr	ra 2	2 2Q	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	;	3 4	1	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones				Awa	ard tract			Awar				Award Contra																					
Prototype Phase																																	
System Development																																	
EDM Delivery							EDM	\triangle			ED	М																					
Software 1XXSW Delivery 2XXSW Delivery																																	
Test & Evaluation Milestones																																	
Development Test Operational Test																																	
Production Milestones																		Pr SS	oduc SEE	tion Ro	lled i												
Deliveries																																	

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

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						F	ebruary 200	3
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NUME		•	
RDT&BA-5	0604721N/ SH	HIPBOARD IW	EXPLOIT SYS	TEM	X2134 SHIPBOARI	O IW EXPLOIT/COM	MON DATA LINK-NA	VY (CDL-N)
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Prototype Phase								
System Design Review (SDR)								
Milestone II (MSII)								
Contract Award		Q2						
Software Specification Review (SSR)								
Preliminary Design Review (PDR)								
System Development								
Critical Design Review (CDR)								
Quality Design and Build								
Test Readiness Review (TRR)								
Developmental Testing (DT)			Q3-Q4					
Operational Analysis				Q2-Q3				
Interoperability Testing		Q3-Q4	Q2-Q3		Q1-Q2			
Eng Dev Model (EDM)								
Software Delivery 1XXSW								
Preproduction Readiness Review (PRR)								
EDM Radar Delivery - Flt Related								
Milestone C (MS C)								
Operational Testing (OT-IIA)								
Start Low-Rate Initial Production I (LRIP I)								
Software Delivery 2XXSW								
Developmental Testing (DT-IIB1)								
Developmental Testing (DT-IIB2)								
Start Low-Rate Initial Production II								
Operational Testing (OT-IIB)								
Developmental Testing (DT-IIC)								
Functional Configuration Audit (FCA)								
Low-Rate Initial Production I Delivery								
Technical Evaluation (TECHEVAL)								
Physical Configuration Audit								
Operational Evaluation (OT-IIC) (OPEVAL)								
Low-Rate Initail Production II Delivery								
IOC								
Full Rate Production (FRP) Decision								
Full Rate Production Start								
First Deployment								
FOC					Q4			

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:				
,						ı	February 20	03		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND NA				
							LOIT/CRYPTO	OGIC ON-		
RDT&E, N / BA 5	0604721N/ SH	HIPBOARD IW	EXPLOIT SYS	TFM	LINE TRAINER (COLT)					
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
COLT Server Software	F1 2002	F1 2003	F1 2004	F1 2003	F1 2000	F1 2007	F1 2006	F1 2009		
3.1.7 SW Development	Q4	Q1			_					
3.1.7 SVV Development 3.1.7 SDT&E	Q4	Q1-Q2			_					
	04									
3.1.7 System Documentation	Q4	Q1-Q2								
3.1.7 Software Delivery	0.1	Q2								
4.0 SW Development	Q4	Q1-Q2								
4.0 SDT&E	0.1	Q1-Q2								
4.0 System Documentation	Q4	Q1-Q2								
4.0 Software Delivery		Q3								
3x SW Development		Q2-Q3								
3x SDT&E		Q2-Q3								
3x System Documentation		Q3-Q4								
3x Software Delivery		Q4								
4x SW Development		Q4	Q1-Q4							
4x SDT&E		Q3-Q4	Q1-Q4	Q1						
4x System Documentation		Q3-Q4	Q1-Q4	Q1						
4x Software Delivery		Q2		Q1						
5.0 SW Development				Q2-Q4						
5.0 SDT&E				Q3-Q4	Q1					
5.0 System Documentation				Q2-Q4	Q1					
5.0 Software Delivery					Q1					
5x SW Development				Q4	Q1-Q2	Q1-Q3				
5x SDT&E					Q2-Q4	Q2-Q4				
5x System Documentation				Q4	Q1-Q4	Q1-Q4				
5x Software Delivery					Q4	Q4				
6.0 SW Development						Q4	Q1-Q3			
6.0 SDT&E						~ .	Q1-Q4			
6.0 System Documentation						Q4	Q1-Q4			
6.0 Software Delivery		†			†	~ .	Q4			
6x SW Development					+		Q4	Q1-Q3		
6x SDT&E		 			+		<u> </u>	Q1-Q4		
6x System Documentation		1			+			Q1-Q4		
6x Software Delivery								Q4		

R-1 SHOPPING LIST - Item No.

129

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	F.L 00	00
	1						February 20	03
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU			0010
RDT&BA-5	0604721N/ SH	HIPBOARD IW	EXPLOIT SYS	TEM	UNIFIED BUIL		PLOIT/CRYTOL	.OGIC
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 200
Software Development v 3.1.7	Q4	Q1						
System Developmental Test & Eval v 3.1.7		Q1-Q2						
System Documentation v 3.1.7	Q4	Q1-Q2						
Software Delivery v 3.1.7		Q2						
Software Development v 4.0	Q4	Q1-Q2						
System Developmental Test & Eval v 4.0		Q1-Q3						
System Documentation v 4.0	Q4	Q1-Q3						
Software Delivery v 4.0		Q3						
Software Development v 3x		Q3						
System Developmental Test & Eval v 3x		Q3-Q4						
System Documentation v 3x		Q3-Q4						
Software Delivery v 3x		Q4						
Software Development v 4x		Q4	Q1-Q4	Q1				
System Developmental Test & Eval v 4x		Q4	Q1-Q4	Q1				
System Documentation v 4x		Q4	Q1-Q4	Q1				
Software Delivery v 4x			Q2	Q1				
Software Development v 5.0				Q2-Q4				
System Developmental Test & Eval v 5.0				Q2-Q4	Q1			
System Documentation v 5.0				Q1-Q4	Q1			
Software Delivery v 5.0					Q1			
Software Development v 5x				Q4	Q1-Q3	Q1-Q3		
System Developmental Test & Eval v 5x					Q2-Q4	Q2-Q4		
System Documentation v 5x				Q4	Q1-Q4	Q2-Q4		
Software Delivery v 5x					Q4	Q4		
Software Development v 6.0						Q4	Q1-Q3	
System Developmental Test & Eval v 6.0							Q1-Q4	
System Documentation v 6.0						Q4	Q1-Q4	
Software Delivery v 6.0							Q4	
Software Development v 6x							Q4	Q1-Q3
System Developmental Test & Eval v 6x								Q1-Q4
System Documentation v 6x								Q1-Q4
Software Delivery v 6x								Q4

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	February 2003			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT				PROJECT NUMBER AND NAME X2134 SHIPBOARD IW EXPLOIT/MULTI-MISSION				
RDT&E, N / BA 5	0604721N/ SH	IIPBOARD IW	EXPLOIT SYS	(MMP)						
Schedule Profile	FY 2002	FY 2003	FY 2007	FY 2008	FY 2009					
EDM Award			FY 2004 Q1	FY 2005	FY 2006					
System Engineering Analysis			Q2							
Aircraft Data Analysis			Q3							
Design Review (DR)			Q4							
Aircraft Integration Planning				Q1-Q2						
Develop Test Plan				Q1-Q2						
Arrange/Plan for Flight Certifications				Q1-Q2						
Laboratory Acceptance Tests				Q3						
Eng Dev Model (EDM) Deliveries - Lab				Q3						
Plan & Obtain Interim Authority to Operate (IATO)				Q4						
Flight Certification Tests				Q4						
TECHEVAL					Q1					
OPEVAL					Q3					
Full Rate Production (FRP) Decision Block One						Q1				

R-1 SHOPPING LIST - Item No.

129

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:	February 20	03
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	IENT				MBER AND N		
							PLOIT/SHIPS S	
RDT&E, N / BA 5	0604721N/ SHIPE	OARD IW EXP	LOIT SYSTEM		EXPLOITATION	ON EQUIPMEN	NT INCR E (SS	EE Incr E)
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Contract Award	Q2				Q1			
Software Specification Review (SSR)	Q1-Q4	Q1-Q4						
Preliminary Design Review (PDR)		Q4						
System Development	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4
Critical Design Review (CDR)	Q1		Q2					
Test Readiness Review (TRR)	Q4		Q2					
Developmental Testing		Q1	Q2					
Eng Dev Model (EDM) SSEE Delivery - Lab	Q4							
Software Delivery - System LRIP Config S/W		Q1						
Preproduction Readiness Review (PRR)		Q2						
EDM SSEE Delivery - Ship		Q1						
Operational Testing		Q2						
Milestone III (MS C)		Q1						
Start Low-Rate Initial Production (LRIP)		Q2						
Physical Configuration Audit	Q4							
Functional Configuration Audit (FCA)	Q4							
Low-Rate Initial Production Delivery			Q2					
Technical Evaluation (TECHEVAL)		Q1						
M-DEMO		Q1						
Operational Evaluation (OPEVAL)		Q2-Q3						
FOLLOW-ON Operational Evaluation (FOTE)				Q3-Q4				
IOC				Q1				
Full Rate Production (FRP) Decision			Q1					
Full Rate Production Start			Q2					
First Deployment FRP Config				Q1				
Pre-Planned Improvements (P3I)		Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4
Material Support Date					Q4			
		DPPING LIST						

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:				
Specific Emi	tter Identifica	tion (SEI)					ebruary 20)3		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N				
					X2134 SHIPB	X2134 SHIPBOARD IW EXPLOIT/SPECIFIC EMITTER				
RDT&E, N / BA 5	0604721N/ SH	HIPBOARD IW	EXPLOIT SYS		IFICATION (SEI)					
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
SPAWAR Pgm Development	Q3-Q4									
Additional Requirements						Q1				
Contract Award		Q2				Q1-Q4		 		
System Requirements		Q1						 		
Systems Requirements Review		Q2				Q1		 		
Technical Information Meeting		Q2				Q1		<u> </u>		
Architecture Definition		Q2				Q1		<u> </u>		
Foreign Comparison Test (FCT) Planning		Q1				Q2		<u> </u>		
FCT Test		Q3				Q2		<u> </u>		
FCT Test Analysis		Q4				Q3		I		
Preliminary Design Review		Q4				Q3		I		
Critical Design Review		Q4						I		
Development Lab Set-up		Q4								
Platform Independent Prototype Development		Q4								
Phase 1 - Software Development		Q4								
Phase 2 - Hardware requirements		Q4						1		
Phase 3 - software development/hardware requirement	ents	Q4								
Technical Information Meeting		Q4								
Software Delivery			Q1							
Hardware/software compatibility testing			Q1-Q2							
Test Readiness Review (TRR)			Q1-Q2		Q1-Q2	Q4	Q1-Q2			
Developmental Testing (DT-IIA)			Q1-Q2		Q1-Q2	Q4	Q1-Q2			
Logistics			Q2-Q4	Q1-Q4		Q1-Q4	Q1-Q2			
Phase 1/2/3 delivery			Q2-Q4	Q1-Q2	2Q	Q4	Q1-Q2			
Software only configuration Installation			Q2-Q4		Q1-Q2	Q4	Q1-Q2			
Hardware only configuration Installation			Q2-Q3	Q1-Q2	Q1-Q2		Q3			
Hardware/software configuration Installation			Q2-Q4		Q3		Q3	·		
Operational Testing (OT-IIA)			Q4		Q3					
Start Low-Rate Initial Production I (LRIP I)			Q3		Q3					
IOC			Q4				Q4	Q1		

R-1 SHOPPING LIST - Item No.

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129

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
	RF Distribution (Al						February 20	03
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5	PROGRAM EI 0604721N/ SH		EXPLOIT SYS	TEM			AME LOIT/ANTENN	A RF
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Award (HF Non-Line-of-Sight) Contract	10	1 1 2000	1 1 2004	1 1 2003	1 1 2000	1 1 2007	1 1 2000	1 1 2003
Computer Based Modeling	2Q							
Ship Demonstration	4Q							
Contract Award		2Q						
CDR Antenna Design		3Q						
HF Non-Line-of-Sight Developmental Testing		4Q			1			
Eng Dev Model (EDM) Delivery - Lab		4Q		1			1	
Award Contract			1Q					
System Design Review (SDR)			2Q					
Software Specification Review (SSR)			2Q					
Eng Dev Model (EDM) Delivery - Lab			4Q					
Contract Award			2Q					
System Design Review (SDR)			2Q					
Software Specification Review (SSR)			3Q					
Devlipment Testing			3Q-4Q					
Operational Testing				1Q-4Q				
Deliver capability to SSEE					1Q			

R-1 SHOPPING LIST - Item No. 129

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2003	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND N	AME			
RDT&E, N / BA-5	0604721N/SHI	721N/SHIPBOARD IW EXPLOIT SYSTEM X9242 / COOPERATIVE O						OUTBOARD LOGISTICS UPDATE (COBLU)			
	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	0.000	0.000	3.325	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.325
RDT&E Articles Qty											0

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

Cooperative Outboard Logistics Update, COBLU, is a cooperative program between the United States and the United Kingdom. The existing OUTBOARD system (AN/SSQ-108) has been updated to provide comprehensive surface tactical capability. The program maximizes use of already developed military and commercial signal exploitation equipment. The system architecture requires minimal effort to implement future technologies necessary to handle the evolving threat. This effort will develop, integrate and test an engineering prototype of Low Probability of Intercept (LPI) subsystem to detect recognize and process the most current threat signals. Once development effort is completed it will be included as a pre-planned product improvement for COBLU introduced through field change kits.

(U) JUSTIFICATION FOR BUDGET ACTIVITY:

This program is funded under BA-5, ENGINEERING & MANUFACTURING DEVELOPMENT because it encompasses engineering and manufacturing development of new end-items prior to production approval decision.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-5	0604721N/SHIPBOARD IW EXPLOIT SYSTEM	X9242 / COOPERATIVE OL	JTBOARD LOGISTICS UPDATE

(U) B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	
Accomplishments/Effort/Subtotal Cost	0.000	3.325	0.000	
RDT&E Articles Quantity				

Cooperative Outboard Logistics Update (COBLU)

FY03 - Develop, integrate and test an engineering prototype of a Low Probability of Intercept (LPI) subsystem.

R-1 SHOPPING LIST - Item No.

129

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:
					February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AND N	NAME
RDT&E, N / BA-5	0604721N/SHIPBOARD IW EXPL	OIT SYSTEM		X9242 / COOPERATIVE O	JTBOARD LOGISTICS UPDATE
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding: Previous President's Budget: Current BES/President's Budget Total Adjustments	FY 2002 0.000 0.000 0.000	FY 2003 0.000 3.325 3.325	FY 2004 0.000 0.000 0.000		
Summary of Adjustments Cong. Add for COBLU update Business Process Reform (SEC. 8100 Economic Assumtions (SEC. 8135) IT Cost Growth (SEC. 8109) Inflation Savings)	3.400 -0.014 -0.019 -0.006 -0.036			
Subtotal	0.000	3.325	0.000		
(U) Schedule:					
Not Applicable					
(U) Technical:					
Not Applicable					

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EXHIBIT R-2a, RDT&E	Project Justification								DATE:			
										Februa	ary 2003	
APPROPRIATION/BUDGET			PROGRAM E	LEMENT NUM	BER AND NAM	ME	PROJECT NU	JMBER AND N	IAME			
RDT&E, N /	BA-5		0604721N/SH	IPBOARD IW	EXPLOIT SYS	TEM	X9242 / COO	PERATIVE OU	ITBOARD LOG	SISTICS UPDATE	=	
(U) D. OTHER PROG	GRAM FUNDING SUMMA	ARY:								T .	Tatal	
Line Item No. & Na	<u>me</u>	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To <u>Complete</u>	Total <u>Cost</u>	
If effort is succes	sful 9 field change kits wi	ill be procured with	n SCN.									
(U) E. ACQUISITION S	TRATEGY:											
Not Applicable												

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page	ge 1)										February 20	03	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E				PROJECT N						
RDT&E, N / BA-5			0604721N/SF		EXPLOIT SYS		X9242/COOF		JTBOARD LOG		ATE		
Cost Categories	Contract	Performing		Total	E) (00	FY 03	57.04	FY 04	E) / 05	FY 05		-	
	Method & Type	Activity & Location		PY s Cost	FY 03 Cost	Award Date	FY 04 Cost	Award Date	FY 05 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	а туре	Location		0031	0.250	1	Cost	Date	COST	Date	Complete	0.250	†
Ancillary Hardware Development					0.230	02/03						0.000	
Aircraft Integration												0.000	
Ship Integration												0.000	
Ship Suitability												0.000	
Systems Engineering												0.000	†
Training Development												0.000	
Licenses												0.000	
Tooling												0.000	
GFE												0.000	
Award Fees												0.000	
Subtotal Product Development				0.000	0.250)	0.000)	0.00	10	0.000		_
Development Support												0.000	
Software Development					3.075	02/03						3.075	
Integrated Logistics Support												0.000	1
Configuration Management												0.000	
Technical Data												0.000	
Studies & Analyses												0.000)
GFE												0.000	
Award Fees												0.000	
Subtotal Support				0.000	3.075	5	0.000	ס	0.00	0	0.000	3.075	
Remarks:													
				P-1 SHOE	DDING LIST	- Itom No	120						

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	je 2)									February 200)3	
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM ELEMENT			PROJECT	NUMBER ANI	D NAME		•		
RDT&E, N / BA-5			0604721N/SHIPBOARD	IW EXPLO				OUTBOARD LOG		ATE		
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date		FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	и турс	Location	0031	0031	Date	0031	Date	0031	Date	Complete	0.000	or contract
Operational Test & Evaluation											0.000	
Live Fire Test & Evaluation											0.000	
Test Assets											0.000	
Tooling											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal T&E			0	.000	0.000	0.	000	0.00	00	0.000	0.000	
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel											0.000	
Transportation											0.000	
SBIR Assessment											0.000	
Subtotal Management			0	.000	0.000	0.	000	0.00	00	0.000	0.000	
Remarks:												
Total Cost			0	.000	3.325	0.	000	0.00	00	0.000	3.325	
Remarks:												

CLASSIFICATION:

																									1							
EXHIBIT R4, Schedule P	rofile																								DATI	≣:	_			000		
APPROPRIATION/BUDGET A	CTIVITY	,							PRO	2PAM	FLEM	IENIT N	IIIMRE	D ANI	NAM	=					PR∩	IECT N	IIIMBI	ED AN	D NAI	ΛΕ		eprua	ary 20	JU3		
					i Koc	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER A X9242 SHIPBOARD IV														W EXPLOIT/SHIPS SIGNAL COOPERATIVE												
RDT&E, N /	BA-	5			1				0604721N/ SHIPBOARD IW EXPLOIT SYSTEM											OUTBOARD LOGISTICS UPDATE, COBLU												
Fiscal Year		20	002			20	03			20	004			20	05			20	06			20	07			20	800			20	09	
1133411341	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								0.00																								
LPI Subsystem Development						Award	PDF	CDF																								
HW development/selection]] [——																								
Software Development						[
System Integration																																
Test & Evaluation Milestones										٨																						
Capability Demonstration										\triangle	$ \wedge $																					
Regression Test Development Test												\triangle																				
Production Milestones																																
Note: Outyear Fielding of this sub-	system w	ill be ha	andled t	hrough	pre-pla	nned p	roduct	improve	ement a	and field	ded usi	ng field	change	kits. (Currentl	y nine ((9) kits	will be	procure	d with	SCN F	inding.										
Deliveries																																

129

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

CLASSIFICATION:

xhibit R-4a, Schedule Detail						DATE:						
•			February 2003									
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT		PROJECT NU	PROJECT NUMBER AND NAME							
RDT&E, N /BA 5	0604721N/ SHIPB		LOIT SYSTEM	COOPERATIVE OUTBOARD LOGISTICS UPDATE, COBLU								
chedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009				
Contract Award		Q2										
Preliminary Design Review (PDR)		Q3						1				
System Design Review (SDR)		Q2										
System Development		Q2 -Q4	Q1-Q3									
Critical Design Review (CDR)		Q4										
System Integration			Q1-Q4									
Eng Dev Model (EDM) Delivery - Lab			Q3									
Software Delivery -			Q3									
Test Readiness Review (TRR)			Q4									
Developmental Testing			Q4									
Capability Demo			Q4									
EDM Delivery -			Q4									
•												
								1				
								1				
								1				
								1				
								 				