### **CLASSIFICATION:**

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:		
							FEBRUA	RY 2003	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMEN	CLATURE			
RESEARCH DEVELOPMENT TEST & EVALUATION	ION, NAVY /	BA-4			0603581N - Littora	l Combat Ship (LC	S)		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Total PE Cost	0.000	33.099	158.071	180.587	303.293	293.286	146.296	175.597	
33096-LCS Development	0.000	33.099	158.071	72.909	195.489	293.286	146.296	175.597	
34018- Littoral Combat Ship Construction	0.000	0.000	0.000	107.678	107.804	0.000	0.000	0.000	

Defense Emergency Response Funds (DERF) Funds: N/A

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This Program Element (PE) provides funds for development integration and testing of the Littoral Combat Ship (LCS). Also included in the PE is detail design and construction of the first ship (Flight 0). The LCS is to be a fast, agile, and stealthy surface combatant capable of operating in support of anti-access missions against asymmetric threats in the littorals. Primary access-focused missions include prosecution of small boats, mine counter-measures, littoral anti-submarine warfare (ASW). Secondary missions include: intelligence, surveillance and reconnaissance, homeland defense, Special Operating Forces (SOF) support and logistic support for movement of personnel and supplies.

R-1 SHOPPING LIST - Item No.

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							FEBRUA	RY 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-4	0603581N - Littora	Combat Ship (LCS	S)		33096 - Littoral Co	mbat Ship Develop	ment	
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	0.000	33.099	158.071	72.909	195.489	293.285	146.296	175.597
RDT&E Articles Qty								

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The LCS is to be a fast, agile, and stealthy surface combatant capable of operating in support of anti-access missions against asymmetric threats in the littorals. Primary access-focused missions include: prosecution of small boats, mine counter-measures, littoral anti-submarine warfare (ASW). Secondary missions include intelligence, surveillance and reconnaissance, homeland defense, SOF support and logistic support for movement of personnel and supplies. This project provides funds for the total ship system engineering, integration, program execution, platform development, and mission systems development. Mission systems development includes architectures, interfaces and development of mission systems. Platform development includes platform experimentation and platform and ship system design.

R-1 SHOPPING LIST - Item No.

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			FEBRUARY 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	ÎAME
RDT&E, N / BA-4	0603581N - Littoral Combat Ship (LCS)	33096 - Littoral Combat Ship	Development Development

### **B. Accomplishments/Planned Program**

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	24.000	107.000	29.000
RDT&E Articles Quantity				

Begin LCS System Development which includes a top level LCS concept, a Performance Specification, integrated master schedule, preliminary interface specification, software development plan and mission system interface data. This will include technology development and demonstration activities to prove maturity of new system and subsystems concepts for application on LCS platform. Begin and continue mission system zone and module development and integration. Begin to fund Navy participation in Joint Advanced Concept Technology Demonstration (ACTD) (SPARTAN) mission module packages. Exercise option to industry for final system design.

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	4.900	41.800	18.700
RDT&E Articles Quantity				

Implementation of LCS Technical Team responsible for the participation, oversight and monitoring of the industry concepts. The team consists of Government warfare centers, laboratories, universities and selected technical support contractors. This team will provide the engineering expertise to evaluate/support the industry-developed concepts and technology demonstrations of new system concepts and mission systems in order to reduce risk on components and subsystems. Begin and continue development of test and evaluation master plan (TEMP).

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	4.199	9.271	7.209
RDT&E Articles Quantity				

Conduct Analysis of Alternatives (AOA). Develop operational context in which LCS will operate. This will include development of Operational Requirements Document (ORD), Concept of Operations (CONOPS), and Design Reference Mission.

R-1 SHOPPING LIST - Item No.

## **CLASSIFICATION:**

PROGRAM ELEMENT NUMB 0603581N - Littoral Combat S		PROJECT NUMBER AND N 33096 - Littoral Combat Ship		
0603581N - Littoral Combat S	Ship (LCS)	22006 Littoral Combat Shir	<b>D</b>	
<u> </u>		33090 - Lillorai Combat Sili	Development	
FY 02	FY 03	FY 04	FY 05	
0.000	0.000	0.000	18.000	
FY 02	FY 03	FY 04	FY 05	
0.000	0.000	0.000	0.000	
FY 02	FY 03	FY 04	FY 05	
0.000	0.000	0.000	0.000	
	ships by awarding contracts to up to 6  FY 02 0.000  FY 02	0.000   0.000	0.000	0.000

### **CLASSIFICATION:**

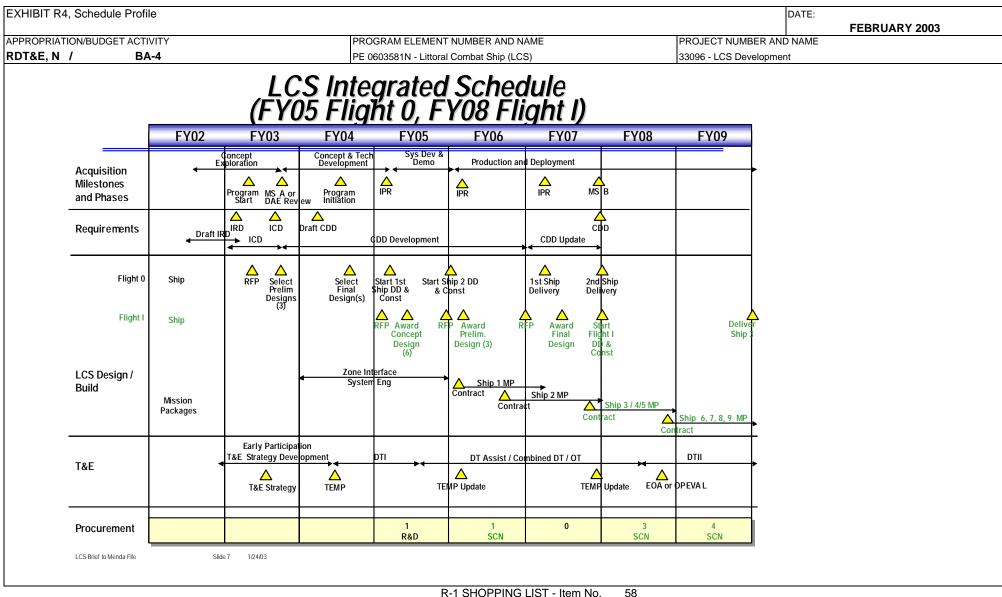
EXHIBIT R-2a, RDT&E Project Justification					DATE:	EEDDUADY 0000
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AN	D NAME	FEBRUARY 2003
		AND NAME				
RDT&E, N / BA-4	0603581N - Littoral Combat Ship			33096 - LCS Developme	nt	
C. PROGRAM CHANGE SUMMARY:						
Funding:	FY 2002	FY 2003	FY 2004	FY 2005		
FY2003 Previous President's Budget:	0.000	0.000	0.000	0.000		
FY2004 President's Budget:	0.000	33.099	158.071	72.909		
Total Adjustments	0.000	33.099	158.071	72.909		
Summary of Adjustments						
Congressional program increase		30.000				
Congressional undistributed reductions	5	-0.541				
SBIR/STTR Transfer						
Economic Assumptions						
Reprogrammings		3.999				
New Start Program		-0.359	158.071	72.909		
Subtotal	0.000	33.099	158.071	72.909		
Schedule:						
See individual projects						
Gee marvidual projects						
Technical: TBD						
	5 4 64 65					

### **CLASSIFICATION:**

IBIT R-2a, RDT&E	Project Justification								DATE:		
										FEBRUA	RY 2003
ROPRIATION/BUDGE			PROGRAM ELE			Ē	PROJECT NUM	IBER AND N	AME		
&E, N /	BA-4		PE 0603581N-	Littoral Comba	t Ship (LCS)		33096 - LCS De	evelopment			
D. OTHER PROGRA	AM FUNDING SUMMARY:									То	Total
Line Item No. & Na BLI 160000 (OP BLI 212700 (SC	N)	FY 2002 0.000 0.000	FY 2003 0.000 0.000	FY 2004 0.000 0.000	FY 2005 0.000 0.000	FY 2006 0.000 214.656		FY 2008 351.201 623.264	FY 2009 808.948 856.220	Complete CONT	Cost CONT
E. ACQUISITION STR (U) The LCS ac Deployment, Ph	ATEGY: quisition strategy encompass nase IV - Operations and Su	ses four phases: oport	Phase I – Con	cept and Tech	nology Develop	oment. Phase	e II - System De	velopment an	d Demonstratio	n. Phase III - Pr	oduction and
F. MAJOR PERFORM	ERS:										
TBD.											

ROGRAM ELEMENT E 0603581N - Littoral Com Total PY s Cost  0.000 0.000	FY 03 Award Cost Date 0 21.000 4QFY0 0.000 N/A	FY 04 A Cost D	evelopment FY 04 Award	FY 05 Cost 0.000	FY 05 Award Date N/A	Cost to Complete	Total Cost	
E 0603581N - Littoral Com Total PY s Cost 0.000 0.000	FY 03 Award Cost Date 0 21.000 4QFY0 0.000 N/A	33096 - LCS De FY 04 A Cost D 59.000 51.000	evelopment FY 04 Award Date 3QFY04	FY 05 Cost 0.000	Award Date	Complete		
Total PY's Cost  0.000 0.000	FY 03 Award Cost Date 0 21.000 4QFY0 0.000 N/A	FY 04 A Cost D 3 59.000 51.000	Award Date 3QFY04	FY 05 Cost 0.000	Award Date	Complete		<del>-</del>
PY s Cost 0.000	FY 03 Award Cost Date 0 21.000 4QFY0 0 0.000 N/A	FY 04 A Cost D 3 59.000 51.000	Award Date 3QFY04	FY 05 Cost 0.000	Award Date	Complete		ļ
Cost 0.000	Cost Date 0 21.000 4QFY0 0 0.000 N/A	Cost D 3 59.000 51.000	Oate 3QFY04	Cost 0.000	Date	Complete		
0.000	21.000 4QFY0 0 0.000 N/A	59.000 51.000	3QFY04	0.000				Target Value of Contract
0.000	0.000 N/A	51.000				CONT	CONT	OI COIIII act
			various	29.000	Various	CONT	CONT	
5.00	0.000 1477		N/A	18.000	3QFY05	CONT	CONT	
			14/71	10.000	001100	00111	0.000	
							0.000	
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0.00	0 21.000	110.000		47.000		CONT	CONT	
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0.00	0.000	0.000		0.000		0.000	0.000	
	0.00	0.000	0.000 0.000	0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000 0.000	

Fullibit D. O. Coot Analysis (no	0)									DATE:		EEDDIIADV 0	000	
Exhibit R-3 Cost Analysis (pa			PROGRAM E	LEMENIT				PROJECT NU	IMPED AND	NAME		FEBRUARY 2	003	
RDT&E, N / BA-4	VIII		PE 0603581N		nhat Shin			33096 - LCS		INAIVIE				
Cost Categories	Contract	Performing	F L 00033611	Total	IIDAL SHIP		FY 03	33090 - EC3	FY 04		FY 05			
out outogones	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
Developmental Test & Evaluation	WX	NSWC/CD Be	ethesda, MD	0.00	10	0.000	2QFY03	3.000	1QFY04	1.000	1QFY05	CONT	CONT	
Developmental Test & Evaluation	WX	NSWC/DD, Da	ahlgren, VA	0.00	10	0.000	2QFY03	2.000	1QFY04	1.000	1QFY05	CONT	CONT	-
Developmental Test & Evaluation	Various	Various		0.00	10	0.000	N/A	2.000	1QFY04	1.000	1QFY05	CONT	CONT	-
Test Assets														
Tooling														
GFE														
Award Fees														
Subtotal T&E				0.00	00	0.000		7.000	)	3.000	)	0.000	CONT	-
Contractor Facility of the Contract	004	ANTEON Adia	\/A	0.00	l	2.000	205/02	4.000	105/04	2.700	405705	CONT	CONT	-1
Contractor Engineering Support	GSA	ANTEON, Arling	gton, VA	0.00		3.090		4.900		2.709		CONT	1	
	GSA	Various		0.00		0.000	+	4.271		2.700		CONT	CONT	
Government Engineering Support	WX	NSWC/CD, Bet		0.00		2.059		6.800		2.800		CONT	CONT	
	WX	NSWC/DD, Dah		0.00		1.900		8.800		4.800		CONT		
	WX	NSWC/PC, Pan		0.00		0.000		2.100		0.900		CONT	CONT	
	Various	Government Ac		0.00		0.900	+	3.600		2.800		CONT	CONT	
	WX	NUWC, Newpor		0.00		3.000		1.600		0.800		CONT		
Program Management Support	WR	SPAWAR, San Various	Diego, CA	0.00		0.200	1	2.900 4.900		0.800		CONT		
Program Management Support	Various	various		0.00	10	0.700	2QF103	4.900	IQFT04	2.800	IQF105	CONT	CONT	+
Labor (Research Personnel)	CPFF	APL/JHU Laure	J MD	0.00	10	0.250	N/A	1.200	1QFY04	1.800	1QFY05	CONT	CONT	-
SBIR Assessment	0111	711 E/0110 Eddio	N WID	0.00	,,,	0.200	14/7	1.200	191101	1.000	191100	00111	0.000	
Subtotal Management				0.00	00	12.099		41.071		22.909		0.000		
Remarks:				0.00	00	33.099		158.071	ı	72 906	ı	0.000	СОИТ	-1
Total Cost		1		0.00	10	33.099	1	158.07		72.909	1	0.000	U CONT	.1
Remarks:														



## **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail							EBRUARY 2	003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&BA-4	PE 0603581N	- Littoral Comb	oat Ship		33096 - LCS [	Development		
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Initial System Design (Flight 0)		4Q	1Q-4Q					
Preliminary Design (Flight 0)			3Q-4Q	1Q				
Detail Design and Construction (Flight 0)				3Q-4Q	1Q-4Q	1Q		
Mission System Development & Platform Exp			1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q		
Initial System Design (Flight 1)				3Q-4Q	1Q-4Q	1Q-4Q		
Detail Design and Construction (Flight 1)				00 10	10,10	10,10	1Q-4Q	1Q-4Q
		40						
Milestone A		4Q			1	4Q		
Milestone B					+	4Q		
First Ship Delivery (Flight 0)						2Q		
Ship 2 Delivery (Flight 0)							1Q	
Ship 2 Delivery (Flight 0)							10	
Lead Ship Delivery (Flight 1)								4Q
NOTE:								
Developmental Testing - TBD								
Operational Testing - TBD								
Engineering Events - TBD								
					1			
					1			

### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							FEBRUA	RY 2003
APPROPRIATION/BUDGET ACTIVITY	R AND NAME							
RDT&E, N / BA-4	PE 0603581N - Litt	oral Combat Ship	mbat Ship Construc	onstruction				
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	0.000	0.000	0.000	107.678	107.804	0.000	0.000	0.000
RDT&E Articles Qty								

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project funds the detail design and construction of the first LCS ship.

R-1 SHOPPING LIST - Item No.

### **CLASSIFICATION:**

		DATE: FEBRUARY 2003						
B. Accomplishments/Planned Program    FY 02	PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	MBER AND NAME					
Accomplishments/Effort/Subtotal Cost	OT&E, N / BA 4	PE 0603581N - Littoral Con	nbat Ship (LCS)	34018 - Littoral Combat Shi	p Construction			
Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000 107.678  RDT&E Articles Quantity 1000 0.000 107.678  Begin first ship detail design and construction. Begin detailed production planning for LCS to include: development of purchase specifications/drawings for all the significant equipm begin initial competition and selection of components, issue contracts and begin production of components. Begin initial material procurement of long lead equipment. Begin logistic support analysis and develop crew training. Design fixtures and jigs to facilitate construction. Begin production design for early work packages to include work instructions, schedul locations, material list, tooling, facilities and manpower requirements. Continue Mission System zone and module architecture development and integration of existing systems into design. This effort continues into FY 06.  FY 02 FY 03 FY 04 FY 05  Accomplishments/Effort/Subtotal Cost  RDT&E Articles Quantity FY 05  FY 02 FY 03 FY 04 FY 05  FY 05  FY 05  FY 06 FY 07  FY 07  FY 08 FY 09  FY 09  FY 09  FY 09	Accomplishments/Planned Program							
Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000 107.678  RDT&E Articles Quantity 1000 0.000 107.678  Begin first ship detail design and construction. Begin detailed production planning for LCS to include: development of purchase specifications/drawings for all the significant equipm begin initial competition and selection of components, issue contracts and begin production of components. Begin initial material procurement of long lead equipment. Begin logistic support analysis and develop crew training. Design fixtures and igns to facilitate construction. Begin production design for early work packages to include work instructions, schedul locations, material list, tooling, facilities and manpower requirements. Continue Mission System zone and module architecture development and integration of existing systems into design. This effort continues into FY 06.  FY 02 FY 03 FY 04 FY 05  Accomplishments/Effort/Subtotal Cost  RDT&E Articles Quantity FY 05  FY 02 FY 03 FY 04 FY 05  FY 05  FY 05  FY 06 FY 07  FY 07  FY 08 FY 09  FY 09  FY 09		FY 02	FY 03	FY 04	FY 05			
Begin first ship detail design and construction. Begin detailed production planning for LCS to include: development of purchase specifications/drawings for all the significant equipm begin initial competition and selection of components, issue contracts and begin production of components. Begin initial material procurement of long lead equipment. Begin logistic support analysis and develop crew training. Design fixtures and jigs to facilitate construction. Begin production design for early work packages to include work instructions, schedule locations, material list, tooling, facilities and manpower requirements. Continue Mission System zone and module architecture development and integration of existing systems into design. This effort continues into FY 06.    FY 02	Accomplishments/Effort/Subtotal Cost		0.000					
begin initial competition and selection of components, issue contracts and begin production of components. Begin initial material procurement of long lead equipment. Begin logistic support analysis and develop crew training. Design fixtures and jigs to facilitate construction. Begin production design for early work packages to include work instructions, schedule locations, material list, tooling, facilities and manpower requirements. Continue Mission System zone and module architecture development and integration of existing systems into design. This effort continues into FY 06.    FY 02								
Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity  FY 02  FY 03  FY 04  FY 05	design. This effort continues into FY 06.							
RDT&E Articles Quantity  FY 02 FY 03 FY 04 FY 05		FY 02	FY 03	FY 04	FY 05			
FY 02 FY 03 FY 04 FY 05								
	RDT&E Articles Quantity							
DDT 9 E Articles Quentity		FY 02	FY 03	FY 04	FY 05			
RDT&E Articles Quantity								

R-1 SHOPPING LIST - Item No.

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AN	D NAME	FEBRUARY 2003
RDT&E, N / BA-4	0603581N - Littoral Combat Ship	(LCS)		34018 - Littoral Combat S	Ship Construction	
C. PROGRAM CHANGE SUMMARY:						
Funding:	FY 2002	FY 2003	FY 2004	FY 2005		
FY2003 President's Budget:	0.000	0.000	0.000	0.000		
FY2004 President's Budget:	0.000	0.000	0.000	107.678		
Total Adjustments	0.000	0.000	0.000	107.678		
Summary of Adjustments Congressional undistributed reductions SBIR/STTR Transfer Economic Assumptions Reprogrammings New Start Program Subtotal	0.000	0.000	0.000	107.678 107.678		
Schedule:						
Not Applicable						
Technical:						
Not Applicable						

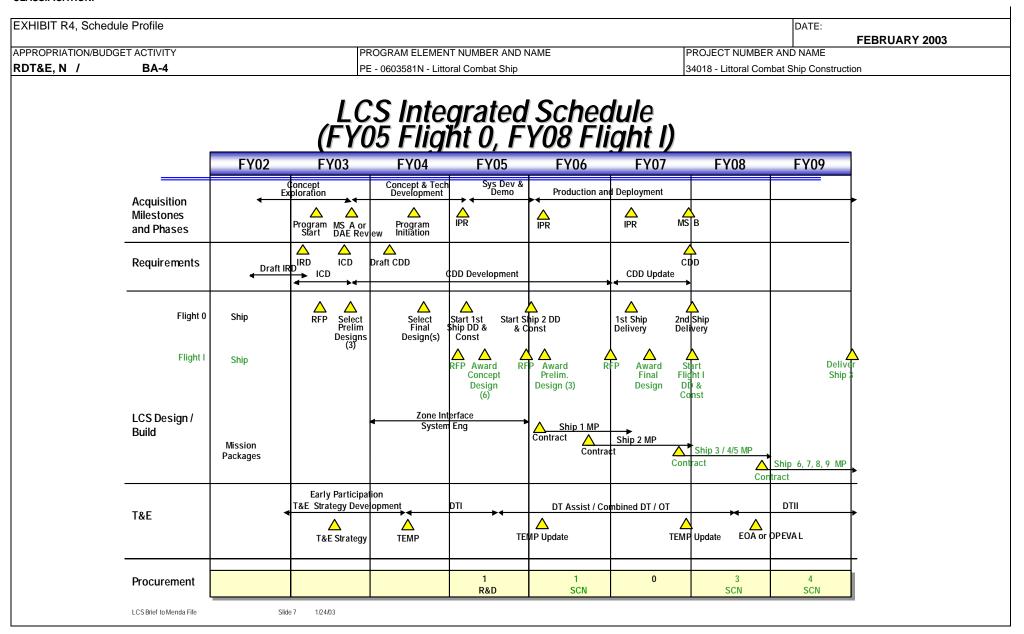
### **CLASSIFICATION:**

KHIBIT R-2a, RDT&E I	Project Justification								DATE:		
										FEBRUA	RY 2003
PROPRIATION/BUDGET		F	PROGRAM ELI	EMENT NUMB	ER AND NAME	<b>=</b>	PROJECT NUM	MBER AND NA	AME		
DT&E, N /	BA-4	F	PE 0603581N -	Littoral Comba	at Ship (LCS)		34018 - Littoral	Combat Ship	Construction		
D. OTHER PROGRAM	M FUNDING SUMMARY:									То	Total
Line Item No. & Nam BLI 160000 (OPN BLI 212700 (SCN)	)	FY 2002 0.000 0.000	FY 2003 0.000 0.000	FY 2004 0.000 0.000	FY 2005 0.000 0.000	FY 2006 0.000 214.656		FY 2008 351.201 623.264	FY 2009 808.948 856.220	Complete CONT	Cost CONT
	TEGY: uisition strategy encompasses to se IV - Operations and Support		Phase 1 - Cor	ncept and Tech	nology Develo <sub>l</sub>	oment, Phas	e II - System De	velopment an	d Demonstratio	n, Phase III - P	roduction and
F. MAJOR PERFORME	RS:										

						DATE:				
								<b>FEBRUARY 20</b>	003	
PROGRAM EL				PROJECT NU						
PE 0603581N		oat Ship (LCS)		34018 - Littora		p Construction				
	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
D	0.000			0.000		107.678		Continuing	Continuing	
								Ĭ		
									0.000	
									0.000	
									0.000	
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### CLASSIFICATION:

Eukikit D. 2 Coot Analysis (so	a. a. O.)								DATE:		FEDRUARY		
Exhibit R-3 Cost Analysis (pa	ge z)		PROGRAM E	LEMENT			IDDO IECT NI	UMBER AND I	LANGE		FEBRUARY 2	2003	
RDT&E, N / BA-4	/II Y				-+ Chi- (I CC)								
Cost Categories	0	Performing	PE 0603581N	- Littoral Comb Total	nat Snip (LCS)	FY 03	34018 - Littor	FY 04	p Construction	FY 05		1	
Cost Categories	Contract Method & Type	Activity & Location		PY s	FY 03 Cost	Award Date	FY 04 Cost	Award Date	FY 05 Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation													
Subtotal T&E													
Remarks:													
Government Engineering Support													
Government Engineering Support													
Program Management Support													
Travel													
Labor (Research Personnel)													
SBIR Assessment													
Subtotal Management													
Remarks:													
Total Cost				0.000	0.000		0.00	0	107.67	8	Continuin	g Continuin	g
Remarks:													



## **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail							EBRUARY 2	003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT	JMBER AND NAME					
RDT&BA-4	PE 0603581N	- Littoral Comb	oat Ship		33096 - Littora	al Combat Ship	Construction	
Schedule Profile	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Initial System Design (Flight 0)		4Q	1Q-4Q					
Final System Design (Flight 0)			3Q-4Q	1Q				
Detail Design and Construction (Flight 0)				3Q-4Q	1Q-4Q	1Q		
Mission System Development & Platform Exp			1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q		
Initial System Design (Flight 1)				3Q-4Q	1Q-4Q	1Q-4Q		
Detail Design and Construction (Flight 1)				5Q 1Q	14.4	14.14	1Q-4Q	1Q-4Q
Milestone A		4Q						
Milestone B		+0			†	4Q		
First Ship Delivery (Flight 0)						2Q		
Ship 2 Delivery (Flight 0)							1Q	
Lead Ship Delivery (Flight 1)								4Q
NOTE:								
Developmental Testing - TBD								
Operational Testing - TBD								
Engineering Events - TBD					1			
					†			
					1			
					+			