## CLASSIFICATION:

# **UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
-							Februa	ry 2003
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMEN		•	
RESEARCH DEVELOPMENT TEST & EVALUATION	ON, NAVY /	BA-4			0603564N/Ship Pr	eliminary Design a	nd Feasibility Stud	es
COST (\$ in Millions)	COST (\$ in Millions) FY 2002 FY 2003 FY 2004 FY 2005 FY 2006 FY 2007							
Total PE Cost	12.478	6.840	0.000	0.000	0.000	0.000	0.000	0.000
33096/Littoral Combat Ship	0.000	3.934	0.000	0.000	0.000	0.000	0.000	0.000
S0408/Ship Development (Adv)	12.478	2.906	0.000	0.000	0.000	0.000	0.000	0.000

Defense Emergency Response Funds (DERF) Funds: None

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

A. (U) Mission Description and Budget Item Justification. Ship concepts, identified in PE 0603563N (Ship Concept Advanced Design) are transitioned to and further developed by this project after an approved Mission Needs Statement (MNS) and usually after an approved Milestone A (MS A) decision. This project performs the Ship Feasibility Studies required to address a specific Mission Needs Statement (MNS) and supports the Analysis of Alternatives (AOA) for new surface ships in the Navy Shipbuilding Plan. Under Acquisition Reform for new ships, traditional distinct phasing of the design process has been replaced with a continuous concurrent engineering process. This project performs impact studies of warfare, hull, mechanical and electrical subsystems on advanced ship designs; enhances ship/ship system design methodologies that support feasibility studies; develops and upgrades the engineering tools, especially ship synthesis models, used to support AOA studies and other engineering efforts accomplished during the feasibility study phase; evaluates advanced and alternative technologies and develops total ship concepts with these technologies to assess their suitability; develops the initial documentation and design methodology required by the government for the design of surface ships in the Shipbuilding Program in accordance with the requirements of the new DoD 5000.2 Instruction; supports the development of the Operational Requirements Document (ORD) and other documentation required at Program Initiation and accomplishes other efforts for future ship acquisitions in support of a Program Initiation. Ship Feasibility Study products include a description of the alternative ships' principal characteristics and mission critical subsystems, weight estimates, general arrangement sketches, technical risk assessments, and Life Cycle Cost estimate (LCCE) The objective of this project is to provide the decision makers with feasible, affordable alternatives to be selected for further development during the Contract Design p

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**UNCLASSIFIED** 

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 1 of 16)

### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	ER AND NAME		
RDT&E, N / BA-4	0603564N/Ship Pre	eliminary Design ar	nd Feasibility Studie	es	S0408/Ship Develo	opment (Adv)		
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	12.478	2.906	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								

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

A. (U) Mission Description and Budget Item Justification. Ship concepts, identified in PE 0603563N (Ship Concept Advanced Design) are transitioned to and further developed by this project after an approved Mission Needs Statement (MNS) and usually after an approved Milestone A (MS A) decision. This project performs the Ship Feasibility Studies required to address a specific Mission Needs Statement (MNS) and supports the Analysis of Alternatives (AOA) for new surface ships in the Navy Shipbuilding Plan. Under Acquisition Reform for new ships, traditional distinct phasing of the design process has been replaced with a continuous concurrent engineering process. This project performs impact studies of warfare, hull, mechanical and electrical subsystems on advanced ship designs; enhances ship/ship system design methodologies that support feasibility studies; develops and upgrades the engineering tools, especially ship synthesis models, used to support AOA studies and other engineering efforts accomplished during the feasibility study phase; evaluates advanced and alternative technologies and develops total ship concepts with these technologies to assess their suitability; develops the initial documentation and design methodology required by the government for the design of surface ships in the Shipbuilding Program in accordance with the requirements of the new DoD 5000.2 Instruction; supports the development of the Operational Requirements Document (ORD) and other documentation required at Program Initiation and accomplishes other efforts for future ship acquisitions in support of a Program Initiation. Ship Feasibility Study products include a description of the alternative ships' principal characteristics and mission critical subsystems, weight estimates, general arrangement sketches, technical risk assessments, and Life Cycle Cost estimate (LCCE). These studies may also include operational measurements and trials on experimental ships, such as the High Speed Vessel (HSV), to insure ship technologies are applicable

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# **CLASSIFICATION:**

ROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	DED AND NAME	PROJECT NUMBER AND N	February 2003	_
	PROGRAM ELEMENT NOM	BEK AND NAME	PROJECT NUMBER AND I	IAME	
T&E, N / BA4	0603564N/Ship Preliminary I	Design and Feasibility Stu	ıdie S0408/Ship Developemnt (A	adv)	
A compatible was to /Diame and Decouper					
Accomplishments/Planned Program					
	FY 02	FY 03	FY 04	FY 05	
Accomplishments/Effort/Subtotal Cost	7.865	0.000	0.000	0.000	
			İ		
RDT&E Articles Quantity					200
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili			t platform definition. Funded lim	ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity			t platform definition. Funded lim	Il ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili			t platform definition. Funded lim	ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili			t platform definition. Funded lim	ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili			l platform definition. Funded lim	ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili			l platform definition. Funded lim	ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili	on required for a Program Initiation d	ecision.			C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili development process. Prepared documentation		ecision.	t platform definition. Funded lim	ited industry participation in JC	C(X) requirements
RDT&E Articles Quantity  (U) Continued and completed JCC(X) Feasibili	on required for a Program Initiation d	ecision.	FY 04	FY 05	C(X) requirements

FY 03

2.906

FY 04

0.000

/1 1	Payment for		4 110	
17111	Payment tor	IDACD M	or the HSV	tact chin

Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity

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FY 02

0.000

FY 05

0.000

# **CLASSIFICATION:**

	FY 05 0.000  odification of HSV to insure the correct produ
Accomplishments/Effort/Subtotal Cost   FY 02   FY 03   FY 04   Accomplishments/Effort/Subtotal Cost   0.000   0.000   0.000   RDT&E Articles Quantity	FY 05 0.000  odification of HSV to insure the correct produ
Accomplishments/Effort/Subtotal Cost   FY 02   FY 03   FY 04   Accomplishments/Effort/Subtotal Cost   0.000   0.000   0.000   RDT&E Articles Quantity	FY 05 0.000  odification of HSV to insure the correct produ
FY 02   FY 03   FY 04	0.000  odification of HSV to insure the correct produ
Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000 0.000  RDT&E Articles Quantity  (U) Conduct and perform engineering support for design review, technical evaluation and source selection, constuction, delivery and m delivered and to assess technology applications to other current and future ship acquisitions. Conduct classification society rule review this ship, as well as other current and future ship acquisitions.  FY 02 FY 03 FY 04  Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000  RDT&E Articles Quantity  FY 02 FY 03 FY 04  Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000  FY 04 Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000	0.000  odification of HSV to insure the correct produ
RDT&E Articles Quantity  (U) Conduct and perform engineering support for design review, technical evaluation and source selection, constuction, delivery and m delivered and to assess technology applications to other current and future ship acquisitions. Conduct classification society rule review this ship, as well as other current and future ship acquisitions.    FY 02	odification of HSV to insure the correct produ
(U) Conduct and perform engineering support for design review, technical evaluation and source selection, constuction, delivery and m delivered and to assess technology applications to other current and future ship acquisitions. Conduct classification society rule review this ship, as well as other current and future ship acquisitions.    FY 02	
delivered and to assess technology applications to other current and future ship acquisitions. Conduct classification society rule review this ship, as well as other current and future ship acquisitions.    FY 02	
delivered and to assess technology applications to other current and future ship acquisitions. Conduct classification society rule review this ship, as well as other current and future ship acquisitions.    FY 02	
this ship, as well as other current and future ship acquisitions.    FY 02	and validation to increase confidence in the
Accomplishments/Effort/Subtotal Cost   0.000   0.000   0.000	
Accomplishments/Effort/Subtotal Cost   0.000   0.000   0.000	FY 05
FY 02   FY 03   FY 04	0.000
Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000	
Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000	<u> </u>
Accomplishments/Effort/Subtotal Cost 0.000 0.000 0.000	
	FY 05
RDT&E Articles Quantity	0.000
•	

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# CLASSIFICATION:

XHIBIT R-2a, RDT&E Project Justification						DATE:	F-1
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELE	MENT NI IMBED	AND NAME		PROJECT NUMBER	AND NAME	February 2003
DT&E, N / BA-4	0603564N/Ship F	Preliminary Desig	n and Feasibilit	ty Studies	S0408/Ship Developn	nent (Adv)	
C. PROGRAM CHANGE SUMMARY:							
Funding:		FY 2002	FY 2003	FY 2004	FY 2005		
Previous President's Budget (FY 03 Pres Contro	ols):	14.748	2.983	4.975	10.921		
Current BES/President's Budget: (FY04 Preside		12.478	2.906	0.000	0.000		
Total Adjustments	,	-2.270	-0.077	-4.975			
Summary of Adjustments							
Reprogrammings		-1.500		15.700	11.000		
FY2002 SBIR (dtd 5-15-02)		-0.336					
FY 02 Actuals (30-Sept)		-0.363					
Minor Adjustments		-0.071	-0.077				
Realign HSV Lease Funding				-20.675	-21.921		
Subtotal		-2.270	-0.077	-4.975	-10.921		
Schedule:							
Not Applicable.							
Technical:							
INot Applicable.							

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# CLASSIFICATION:

EXHIBIT R-2a, RDT&E Pr	oject Justification								DATE:		
										Februa	ry 2003
APPROPRIATION/BUDGET AC	CTIVITY		PROGRAM EI	LEMENT NUM	BER AND NAM	1E	PROJECT NU	MBER AND NA	AME		
RDT&E, N /	BA-4		0603564N/Shi	p Preliminary I	Design and Fea	sibility Studies	S0408/Ship D	evelopment (Ad	dv)		
D. OTHER PROGRAM I	FUNDING SUMMARY:									_	T
Line Item No. & Name		FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To <u>Complete</u>	Total <u>Cost</u>
	Ship Concept Advanced De Ship Contract Design/Live F										
E. ACQUISITION STRATE This is a non acquis	GY: * ition program that supports	pre-milestone	e 1 efforts for p	otential ship a	cquisition progi	ams.					
F. MAJOR PERFORMERS Naval Surface War	::** fare Center at Carderock, <b>f</b>	Maryland - Pe	rform engineei	ing review ser	vices, operation	nal monitoring	and trials, class	sification societ	y rules review	and validation -	October 2002
* Not required for Budg ** Required for DON and	get Activities 1,2,3, and 6 OSD submit only.										

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# CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (p	age 1)									February 200	03	
APPROPRIATION/BUDGET ACT	TVITY	PROGRAM	ELEMENT			PROJECT N	JMBER AND	NAME				
RDT&E, N / BA-4			hip Preliminary I	Design and Fea		S0408/Ship D		(Adv)				
Cost Categories	Contract		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 0.000	of Contract
Systems Engineering	WR	NSWC Dahlgren, VA	12.072	,							12.072	
Systems Engineering	WR	NSWC Danigren, VA	8.703								9.539	
	WR	NSWC Carderock, MD	1.300		1						1.300	
	WR	NAVAIR	1.100					+				
			_								1.100	1
	PD	SPAWAR	10.351								10.351	
	WR/Reqr C/CPFF		11.588								11.588	
		Nichols Adv Marine, VA	15.380	1							15.380	
	Comp	J.J. McMullen, VA	6.184				1				6.184	
	Various	Other Contractor	32.469				1				32.469	
			_								0.000	
Subtotal Product Development			99.147	0.836	i	0.000	)	0.00	0	0.000	99.983	
Development Support											0.000	
Software Development											0.000	
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	)
Technical Data											0.000	)
GFE											0.000	)
Award Fees											0.000	)
Subtotal Support			0.000	0.000	)	0.000	)	0.00	0	0.000	0.000	)
	•	•	•	-			•	•	•	•	•	
Remarks:												
			R-1 SHOP	PPING LIST	- Item No. 54	4 - 7 of 54 - 1	16					

# CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (pag	je 2)									February 200	3	
APPROPRIATION/BUDGET ACTIV	ITY	PROGRAM	ELEMENT			PROJECT I	NUMBER AND	NAME		•		
RDT&E, N / BA-4		0603564N/S	Ship Preliminary [	Design and Fea		lies S0408/Ship		(Adv)				
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		Total Cost	Target Value of Contract
Developmental Test & Evaluation											0.000	
Operational Test & Evaluation	WR	NSWC Carderock, MD	0.000	2.070							2.070	
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	2.070	)	0.0	100	0.0	000	0.000	2.070	
Contractor Engineering Support	1			T					<u> </u>		0.000	
Government Engineering Support											0.000	
Program Management Support											0.000	
Travel			0.025								0.025	
Labor (Research Personnel)											0.000	
SBIR Assessment											0.000	
Subtotal Management			0.025	0.000	)	0.0	000	0.0	000	0.000	0.025	
Remarks:												
Total Cost			99.172	2.906	;	0.0	000	0.0	000	0.000	102.078	
Remarks:												

R-1 SHOPPING LIST - Item No. 54 - 8 of 54 - 16

# CLASSIFICATION:

EXHIBIT R4, Schedule																									DATE		F	ebrua	ary 20	03		
APPROPRIATION/BUDGET RDT&E, N /	ACTIVI <b>BA-4</b>								PROG 06035								٠ا!	_			PROJ											
KDI&E, N /	DA-4								06035			emmina	iry Des			ibility .	Studies				S0408			prnen	II (Adv							
Fiscal Year		20	002	1		20	03			200	04	ı		200	05			200	06	I		20	07	1		20	08			200	)9	T
	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
Milestones		HS\	Contr	act Av	vard	HS	V Deliv	rery																								
Engineering Support																																
Test & Evaluation																																
Operational Test						[																										
Production Milestones																																

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 $<sup>^{\</sup>star}$  Not required for Budget Activities 1, 2, 3, and 6

# **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail					DATE:		
					F	ebruary 20	03
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT		PROJECT NU	MBER AND NA	AME	
RDT&BA-??			esign and Fea	S0408/Ship D			
Schedule Profile	FY 2002	FY 2003	FY 2004			FY 2008	FY 2009
HSV Contract Award Milestone	= 55=	1Q		 			
HSV Delivery Milestone		3Q					
HSV Engineering Support		1Q-4Q					
HSV Operational Testing		2Q-4Q					
				1			

R-1 SHOPPING LIST - Item No. 54 - 10 of 54 - 16

### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEM	ENT NUMBER AND	NAME		PROJECT NUMBE	ER AND NAME		
RDT&E, N / BA-4	0603564N/Ship Pre	eliminary Design ar	nd Feasibility Studie	es .	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	3.934	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								

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

This project performs studies and analysis to address requirements for a future Navy focus mission, high speed ship. Included in this project is Analysis of Alternatives (AOA) studies and other engineering efforts to perform impact studies of warfare, hull, mechnical and electrical subsystems on advanced high speed ship designs. Also included is evaluation of advanced and alternative technologies and high speed ship concepts to assess their suitability in littoral environment. Products include initial requirements documentation and design methodology required by the government for the design of surface ships in the Shipbuilding Program in accordance with the requirements of the new DOD 5000.2 Instruction; including Operational Requirements Document (ORD) and other documentation required at Program Initiation.

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#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2003
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	İAME
RDT&E, N / BA-4	0603564N/Preliminary Design and Feasibility Studies	33096 - Littoral Combat Ship	Development

# B. Accomplishments/Planned Program

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	2.656	0.000	0.000
RDT&E Articles Quantity				

Begin implementation of Technical Team responsible for providing expertise to evaluate/support high spped studies in the area of combat systems, HM&E, C4ISR, and test and evaluation. 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 development of test and evaluation master plan (TEMP).

	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	1.278	0.000	0.000
RDT&E Articles Quantity				

Begin Analysis of Alternatives (AOA). Develop operational context in which LCS will operate. This will include parametric studies, operational concept and missions, Threat Assessment, SHip Concept Alternatives, and Cost and Manning Analysis and development of Operational Requirements Document (ORD),

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

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# CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:	F-1
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AN	ID NAME	February 2003
RDT&E, N / BA-4	0603564N - Ship Preliminary Desi	gn and Feasibi	lity Studies	33096 - LCS Developme	ent	
C. PROGRAM CHANGE SUMMARY:						
Funding:	FY 2002	FY 2003	FY 2004	FY 2005		
Previous President's Budget (FY 03 Pres Controls):	0.000	0.000	0.000	0.000		
Current BES/President's Budget: (FY04 President C		3.934	0.000	0.000		
Total Adjustments	0.000	3.934	0.000	0.000		
Summary of Adjustments  Congressional program reductions Congressional undistributed reductions Congressional rescissions SBIR/STTR Transfer Economic Assumtions Reprogrammings		3.934				
Subtotal	0.000	3.934	0.000	0.000		
Schedule:						
See individual projects						
Technical: TBD						

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# CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:				
			February 2003				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME					
RDT&E, N / BA-4	603564N - Ship Preliminary Design and Feasibility Studie 33096 - LCS Development						

# D. OTHER PROGRAM FUNDING SUMMARY:

									То	Total
Line Item No. & Name	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	<u>Complete</u>	<u>Cost</u>
BLI 160000 (OPN)	0.000	0.000	0.000	0.000	0.000	0.000	360.000	830.000	CONT	CONT
BLI 212700 (SCN)	0.000	0.000	0.000	0.000	0.000	0.000	440.000	880.000		
0603561N	0.000	0.000	163.000	185.000	420.000	410.000	150.000	0.000		

# E. ACQUISITION STRATEGY:

(U)The LCS acquisition strategy encompasses four phases: Phase I – Concept and Technology Development. Phase II - System Development and Demonstration. Phase III - Production and Deployment, Phase IV - Operations and Support

## F. MAJOR PERFORMERS:

TBD.

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# CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page 1)						February 2003							
APPROPRIATION/BUDGET ACTIV	ITY T		PROGRAM EI	LEMENT			PROJECT N	PROJECT NUMBER AND NAME					
RDT&E, N / BA-4			PE 0603564N/Preliminary Design and Feasibility Studies					Developmen	nt				
Cost Categories	Contract	Performing		Total		FY 03		FY 04		FY 05			
	Method	Activity &			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
						-							
Subtotal Product Development													
Development Support												0.00	0
Software Development												0.00	0
Training Development												0.00	0
Integrated Logistics Support												0.00	0
Configuration Management												0.00	0
Technical Data												0.00	0
GFE												0.00	0
Award Fees												0.00	
Subtotal Support				0.000	0.000	D	0.00	00	0.0	000	0.000	0.00	0
Remarks:													
ivemarks.													
			D 4 0110D	DINIO LIOT	Itaaa Nia 🙃		10						

R-1 SHOPPING LIST - Item No. 54 - 15 of 54 - 16

# CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (page 2)						February 2003							
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E	LEMENT			PROJECT N	UMBER AND	NAME				
RDT&E, N / BA-4			0603564N/Sh	nip Preliminary	Design and Fea	asibility Studies	s 33096 - LCS	Development					
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
Developmental Test & Evaluation													
Developmental Test & Evaluation													
Developmental Test & Evaluation													
Test Assets													
Tooling													
GFE													
Award Fees													
Subtotal T&E													
				_	_	_		_					
Contractor Engineering Support	GSA	ANTEON, Arli	ngton, VA	0.000	0.978	1QFY03							
	GSA	Various		0.000	0.000	1QFY03							
Government Engineering Support	WR	NSWC/CD, Be	ethesda, MD	0.000	0.625								
	WR	NSWC/DD, Da	ahlgren, VA	0.000	1.592	2 N/A							
	WR	NSWC/PC, Pa	anama City, FL	0.000	0.000								
	Various	Government A		0.000	0.000	N/A							
	WR	NAVAIR, Pax	River, MD	0.000		5 N/A							
	WR	SPAWAR, Sa	•	0.000									
Program Management Support	Various	Various		0.000	1	1							
Travel				0.000									
Labor (Research Personnel)													
SBIR Assessment													
Subtotal Management				0.000	3.934	1							
Remarks:	T	1		0.000	3.934	4	0.00	0	0.0	000	0.00	00 CO	NT
				0.000	3.932	<u>'  </u>	0.00	<u> </u>	1 0.0	,00	0.00	<u>,,,                                  </u>	**1
Remarks:													