CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification				EXHIBIT R-2, RDT&E Budget Item Justification										
						Februai	ry 2005							
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE									
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /		BA 5			0604230N	Naval Suppo	rt System							
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011						
Total PE Cost	1.927	5.152	2.275	2.285	2.438	1.444	1.484	1.519						
4011 Naval Coastal Warfare	0.000	5.152	2.275	2.285	2.438	1.444	1.484	1.519						
9370 Deployable Autonomous Distribution Systems	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
9371 Integrated Condition Assessment System	0.967	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
Quantity of RDT&E Articles														

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

The Naval Coastal Warfare (NCW) community consists of 22 Mobile Inshore Undersea Warfare (MIUW) units and 8 Harbor Defense Command (HDC) units operating Mobile Ashore Support Terminal IIIs (MAST IIIs). NCW also includes 14 Inshore Boat Units (IBU) comprised of 6 small craft (boats) each on which are installed C4I systems.

The Mobile Inshore Undersea Warfare - System Upgrade (MIUW-SU), the primary system used by the NCW MIUW Units, is the only land-based and rapidly deployable mobile Navy system with the ability to conduct surface and subsurface surveillance in coastal and littoral areas. The system provides detailed contact information via various C4I systems to the tactical area commander based on radar, visual, thermal, electronic, and underwater acoustic sensor information. Missions supported with the MIUW-SU's are: OCONUS and INCONUS Force Protection, protecting port areas, high value assets, and surveilling the near shore areas. The MAST III is the C4ISR hub for the NCW Commander. MAST IIIs deploy to support Force Protection/Force Security Officer for Commander, Amphibious Group in its Harbor Defense and Coastal Sea Control missions.

In the aftermath of the attack on USS COLE and particularly post 11 SEP, the role, structure, and utilization for the NCW program has changed appreciably and continues to evolve in the face of developing world events. However, the core competencies resident in expeditionary NCW forces to conduct surveillance, C4I and patrol/interdiction have not changed. NCW remains a specialized force constituted to accomplish specific tasks under specific conditions, but also agile enough to fill emergent and non-traditional roles. Post 11 SEP, NCW Groups and Units have been mobilized to perform force protection missions at different levels in all CinC area of responsibility (AOR)'s and within the continental United States in support of Maritime Homeland Security.

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification		DATE:
		February 2005
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
RDT&E, N / BA 5	0604230N Naval Support S	ystem

This RDT&E exhibit supports the future direction of Naval Coastal Warfare as it is being determined externally by world events and internally by the progress of DoD initiatives to replace Cold War forces and capabilities with 21st century "transformational" forces and capabilities. NCW forces currently field legacy systems designed to counter more traditional military threats in a two Major Theater War scenario. Future NCW forces will develop into a highly effective, relatively low cost transformational force capable of operating anywhere in the world to perform a spectrum of force protection missions ranging from full scale port security/harbor defense operations during wartime to short duration point defense of high value units or facilities in operations other than war. This transformational force will be agile, tailorable, and scalable and will use applied technology to quickly detect, deter or interdict potential threats to DoN assets in the littoral environment. Next generation surface and subsurface surveillance systems, as well as enhanced C4I capabilities, are required to meet these operational objectives. These capabilities must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

FY04 included two \$1M Congressional Add:

- Deployable Autonomous Distribution Systems (DADS) This effort tested the DADS sensors and technologies for Naval Coastal Warfare applicability, in particular, harbor mouth tripwire against the mini-sub threat. As part of this evaluation, the contractor will develop 2 to 3 sensor prototypes for operational evaluation. If laboratory and field testing prove successful, these prototypes could be used as the pre-production engineering models for follow-on production and fielding in Naval Coastal Warfare.
- Integrated Condition Assessment System (ICAS) This effort provides for "data mining" of ICAS data. Data mining is the processing of raw data into useful information to determine system anomalies. The funds will be used for development and testing data mining tools to extract meaningful data, develop rules for diagnostics and prognostics then present this information and results to the user in an easy to understand format using the existing ICAS system and development and testing advanced diagnostics and prognostics tools for ICAS equipped ship's machinery faults by exploiting existing data from the Navy's Maintenance Engineering Library Server (MELS). These tools will enable the reduction of maintenance requirements on auxiliary machinery and alert the crew to impending failures.
- (U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEMS DEVELOPMENT AND DEMONSTRATION because it encompasses development and demonstration of new end-items prior to production approval decision .

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:	
								Februa	ry 2005
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	MBER AND NA	ME					
RDT&E, N / BA 5	0604230N N	aval Support Sy	Coastal Warfare	•					
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		0.000	5.152	2.275	2.285	2.438	1.444	1.484	1.519
RDT&E Articles Qty									

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

The Naval Coastal Warfare (NCW) community consists of 22 Mobile Inshore Undersea Warfare (MIUW) units and 8 Harbor Defense Command (HDC) units operating Mobile Ashore Support Terminal IIIs (MAST iiis). NCW also includes 14 Inshore Boat Units (IBU) comprised of 6 small craft (boats) each on which are installed C4I systems.

The Mobile Inshore Undersea Warfare - System Upgrade (MIUW-SU), the primary system used by the NCW MIUW Units, is the only land-based and rapidly deployable mobile Navy system with the ability to conduct surface and subsurface surveillance in coastal and littoral areas. The system provides detailed contact information via various C4I systems to the tactical area commander based on radar, visual, thermal, electronic, and underwater acoustic sensor information. Missions supported with the MIUW-SU's are: OCONUS and INCONUS Force Protection, protecting port areas, high value assets, and surveilling the near shore areas. The MAST III is the C4ISR hub for the NCW Commander. MAST IIIs deploy to support Force Protection/Force Security Officer for Commander, Amphibious Group in its Harbor Defense and Coastal Sea Control missions.

In the aftermath of the attack on USS COLE and particularly post 11 SEP, the role, structure, and utilization for the NCW program has changed appreciably and continues to evolve in the face of developing world events. However, the core competencies resident in expeditionary NCW forces to conduct surveillance, C4I and patrol/interdiction have not changed. NCW remains a specialized force constituted to accomplish specific tasks under specific conditions, but also agile enough to fill emergent and non-traditional roles. Post 11 SEP, NCW Groups and Units have been mobilized to perform force protection missions at different levels in all CinC AOR's and within the continental United States in support of Maritime Homeland Security.

This RDT&E exhibit supports the future direction of Naval Coastal Warfare as it is being determined externally by world events and internally by the progress of DoD initiatives to replace Cold War forces and capabilities with 21st century "transformational" forces and capabilities. NCW forces currently field legacy systems designed to counter more traditional military threats in a two Major Theater War scenario. Future NCW forces will develop into a highly effective, relatively low cost transformational force capable of operating anywhere in the world to perform a spectrum of force protection missions ranging from full scale port security/harbor defense operations during wartime to short duration point defense of high value units or facilities in operations other than war. This transformational force will be agile, tailorable, and scalable and will use applied technology to quickly detect, deter or interdict potential threats to DoN assets in the littoral environment. Next generation surface and subsurface surveillance systems, as well as enhanced C4I capabilities, are required to meet these operational objectives. These capabilities must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.

R-1 SHOPPING LIST - Item No.

90

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N / BA 5	0604230N Naval Support System	4011 Naval Coastal Warfare	
(U) B. Accomplishments/Planned Program			

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.640	0.000	0.000
RDT&E Articles Quantity				

FY05: Perform systems engineering analysis and integration activities associated with development of an Integrated Anti-Diver System (IADS) for Expeditionary Harbor Defense Operations.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	4.042	2.065	2.075
RDT&E Articles Quantity				

FY05: Begin IADS analysis, architectural design, and design review processes. Conduct requirements tractability analysis to ensure operational requirements are adequately captured in performance and design specifications. Develop IADS acquisition strategy based on requirements. Conduct Preliminary Design Review (PDR) on hardware and software components. Test a prototype IADS against operational NCW scenarios and threats. Beginning in FY05 and continuing thru FY07, NCW will seek to leverage ongoing Home Land Security (HLS)/US Coast Guard, and Navy Shipboard Protection System (SPS) efforts in diver defense, to develop an integrated anti-diver system or IADS, tailored to the expeditionary NCW harbor defense mission.

FY06: Perform systems engineering analysis and integration activities to integrate IADS into the NCW C4ISR architecture. Research and develop next generation NCW surveillance and C4I systems capabilities, to include new or improved Tactical Command and Control system, Electronic Systems Management, Anti-Submarine Warfare, Data Fusion, Autonomous Sensors, Small Craft Situational Awareness/Combat ID, improved IR cameras, auto detect and track software, and improved data recording technologies. Conduct advanced concept technology demonstrations for Sea Eagle.

FY07: Provide system engineering and software/system integration activities with next generation C4ISR systems and sensors with an emphasis on Undersea Warfare capabilities.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.470	0.210	0.210
RDT&E Articles Quantity				

FY05: Perform initial development testing of hardware and software components.

FY06/07: Development testing of hardware and software components, with emphasis on integration of new NCW technologies into Navy and Ashore AT/FP C4ISR architecture.

CLASSIFICATION:

XHIBIT R-2a, RDT&E Project Justification					DATE:	February 2005
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	BER AND NAME		PROJECT NUMBER A	ND NAME	rebluary 2005
DT&E, N / BA 5	0604230N Naval Support Sy	rstem		4011 Naval Coastal W	arfare	
(U) C. PROGRAM CHANGE SUMMARY:						
(U) Funding:	FY 200	04 FY 2005	FY 2006	FY 2007		
FY05 President's Budget	0.00	00 5.201	4.279	3.272		
FY06 President's Budget	0.00	00 5.152	2.275	2.285		
Total Adjustments	0.00		-2.004			
Summary of Adjustments						
Other Program Adjustments	0.0		-2.004	-0.987		
Section 8122: Assumed Management Improvements		-0.016				
Section 8131: Non-Statutory Funding Set Asides		-0.030				
Subtotal	0.0	-0.049	-2.004	-0.987		
(U) Schedule:						
Not Applicable						
(U) Technical:						
Not Applicable						

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
								February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT NUM	BER AND NAM	ΊE	PROJECT NU			
RDT&E, N / BA 5	0604230N Na	aval Support S	ystem)				
(U) D. OTHER PROGRAM FUNDING SUMMARY:								
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
OPN 8120 Naval Coastal Warfare	32.591	26.977	30.876	13.187	12.975	12.766	13.039	13.313
Related RDT&E:								
PE 604230N/9370 Deployable Autonomous Distribution Systems	0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(U) E. ACQUISITION STRATEGY:

Not Applicable

(U) F. Major Performers:

SSC San Diego and SSC Charleston are the major performers. These activities perform systems engineering analysis and integration activities associated with next generation surveillance and C4I systems with focus on integration of existing joint, service, and non – DoD systems. SSC San Diego is the primary integrator for software and COTS/GOTS equipment.

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (page 1)										February 200)5	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM	1 ELEMENT			PROJECT NU	IMBER AND N	AME		•		
RDT&E, N / BA 5		0604230N	Naval Support Sy	ystem		4011 Naval C	oastal Warfare)				
Cost Categories		Performing	Total		FY 05		FY 06		FY 07			
		Activity &	-	FY 05	Award		Award		Award		Total	Target Value
	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Product Development	WX	SSC CH/SSC SD		2.244	02/05	0.696	10/05	0.673	10/06	Continuing	Continuing	
Systems Engineering	WX	SSC CH/SSC SD		2.258	02/05	0.549	10/05	0.552	10/06	Continuing	Continuing	
Training Development	WX	SSC CH/SSC SD		0.200	02/05	0.220	10/05	0.240	10/06	Continuing	Continuing	
Subtotal Product Development			0.000	4.702		1.465		1.465		Continuing	Continuing	
Remarks:												
	hav	Secondarios Sp.		0.400	02/05	0.400	10/05	0.400	10/06	Continuin	Continuing	T
Technical Data	wx	SSC CH/SSC SD		0.100		0.100	10/05	0.100	10/06	Continuing	Continuing	
	wx	SSC CH/SSC SD	0.000			0.100 0.100		0.100	10/06	Continuing Continuing	Continuing Continuing	
echnical Data Subtotal Support	wx	SSC CH/SSC SD	0.000						10/06	, and a second		
echnical Data	wx	SSC CH/SSC SD	0.000						10/06	, and a second		
echnical Data Subtotal Support	wx	SSC CH/SSC SD	0.000						10/06	, and a second		
echnical Data Subtotal Support	wx	SSC CH/SSC SD	0.000						10/06	, and a second		
echnical Data Subtotal Support	wx	SSC CH/SSC SD	0.000						10/06	, and a second		
echnical Data Subtotal Support	wx	SSC CH/SSC SD	0.000						10/06	, and a second		

CLASSIFICATION:

								DATE:											
Exhibit R-3 Cost Analysis (pa	ige 2)									February 200	05								
APPROPRIATION/BUDGET ACTI		PROGRAM	ELEMENT			PROJECT NU	MBER AND N	NAME											
RDT&E, N / BA 5		0604230N	Naval Support S	ystem		4011 Naval C	oastal Warfar	fare											
Cost Categories	Method	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract							
Program Management Support	WX	SSC CH/SSC SD		0.300	02/05	0.310	10/05	0.320	10/06	Continuing	Continuing	3							
ravel	Various	Various		0.050	02/05	0.400	10/05	0.400	10/06	Continuing	Continuing	3							
Subtotal Management			0.000	0.350	o l	0.710		0.720		Continuing	Continuing	1							
Remarks:					_														
otal Cost			0.000	5.152	2	2.275		2.285	VARIOUS	Continuing	Continuing]							
Remarks:																			

CLASSIFICATION:

EXHIBIT R4, Schedul	e Profile																								DATE	:	_	obrus	.r., 20	NOE.		
APPROPRIATION/BUDGE	ET ACTIV	TY							PROC	SRAM	ELEM	ENT N	IUMBE	R AND	NAM	E					PROJ	ECT N	IUMBI	ER ANI	D NAM	IE		ebrua	ary 20	05		
RDT&E, N /	BA 5											Suppo	_											al Warf								
Fiscal Year		2004 2005							06			20	07			20	108			20	09		2010				2011					
	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																																
Engineering Milestones						A PDR		CDR	PDR			CDR	A PDR			CDR	PDR			CDR	PDR			CDR	A PDR			CDR	PDR			CDR
Prototype Phase																																
Development																																
Delivery																																
Test & Evaluation Milestones							▲ DT				▲ DT				D T				▲ DT				D T				DT				▲ DT	
Development Test Operational Test																																

CLASSIFICATION:

Exhibit R-4a, Schedule Detail			DATE:											
			February 2005											
APPROPRIATION/BUDGET ACTIVITY														
RDT&E, N / BA 5	C&E, N / BA 5 0604230N Naval Support System 4011 Nava													
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011						
Preliminary Design Review (PDR)		2Q	1Q	1Q	1Q	1Q	1Q	1Q						
Critical Design Review (CDR)		4Q	4Q	4Q	4Q	4Q	4Q	4Q						
Developmental Test and Evaluation		3Q	3Q	3Q	3Q	3Q	3Q	3Q						

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE:								
							Februa	oruary 2005						
APPROPRIATION/BUDGET ACTIVITY		PROGRAM EL	EMENT NUME	BER AND NAM	E	PROJECT NU	MBER AND NA	AME						
RDT&E, N / BA 5	0604230N N	aval Support Sy	/stem			9370 Deploya	able Autonom	ous Distribution	on Systems					
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011					
Project Cost		0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000					
RDT&E Articles Qty														

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

Deployable Autonomous Distribution Systems (DADS) -	This effort tested the DADS sensors and technologies for Naval Coastal \	Narfare applicability, in particular, harbor mouth tripwire
against the mini-sub threat. As part of this evaluation,	the contractor developed a sensor prototype for operational evaluation.	If laboratory and field testing prove successful, these
prototypes could be used as the pre-production engineeri	g models for follow-on production and fielding in Naval Coastal Warfare.	

R-1 SHOPPING LIST - Item No.

90

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA 5	0604230N Naval Support System	9370 Deployable Autonomou	us Distribution Systems

(U) B. Accomplishments/Planned Program

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.119	0.000	0.000	0.000
RDT&E Articles Quantity				

FY04: Performed systems engineering analysis and integration activities associated with next generation surveillance and C4I systems with focus on integration of existing joint, service, and non – DoD systems. Refined configuration management baselines and acquistion strategy to ensure cost effective solutions are transitioned into production.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.771	0.000	0.000	0.000
RDT&E Articles Quantity				

FY04: Began analysis, architectural design, and design review processes. Conducted requirements traceability analysis to ensure operational requirements are adequately captured in performance and design specifications. Developed acquisition strategy based on requirements. Conducted Preliminary Design Review (PDR) on hardware and software components. Utilized analysis, architectural design, and design review processes to design, develop, document, and implement surface / surveillance sensors and C4I system upgrades. Conducted Critical Design Review (CDR) on hardware and software components.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.070	0.000	0.000	0.000
RDT&E Articles Quantity				

FY04: Performed initial development testing of hardware and software components.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER	AND NAME		PROJECT NUMBER AN	
RDT&E, N / BA 5	0604230N Naval Support System	1		9370 Deployable Autono	omous Distribution Systems
(U) C. PROGRAM CHANGE SUMMARY:					
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007	
FY05 President's Budget	0.988	0.000	0.000	0.000	
FY06 President's Budget	0.960	0.000	0.000	0.000	
Total Adjustments	-0.028	0.000	0.000	0.000	
Summary of Adjustments					
FY04 Non-pay Inflation Savings	-0.001				
FY04 SBIR	-0.027				
Subtotal	-0.028	0.000	0.000	0.000	
(U) Schedule:					
Not Applicable					
(U) Technical:					
Not Applicable					
	D 4 CHODD			00	

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:					
							Februar	y 2005				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUM	BER AND NAM	ИΕ	PROJECT NUMBER AND NAME							
RDT&E, N / BA 5	0604230N N	ole Autonomou	s Distribution Sy	ystems								
(U) D. OTHER PROGRAM FUNDING SUMMARY:												
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011				
OPN 8120 Naval Coastal Warfare	32.591	26.977	30.876	13.187	12.975	12.766	13.039	13.313				
Related RDT&E:												
PE 604230N/4011 Naval Coastal Warfare	0.000	5.152	2.275	2.285	2.438	1.444	1.484	1.519				

(U) E. ACQUISITION STRATEGY:

Not Applicable

(U) F. Major Performers:

SSC San Diego is the prime with USSI the subcontractor under this funding, and the award was made in 2Q of FY04, following receipt of funds in December 2003. Funds were provided via Congressional Add to provide for upgrade of Mobile Inshore Undersea Warfare units with Deployable Autonomous Distributed Systems.

CLASSIFICATION:

								DATE:				
Exhibit R-3 Cost Analysis (page 1)										February 2	005	
APPROPRIATION/BUDGET ACTIVITY			RAM ELEMENT			PROJECT N						
RDT&E, N / BA 5			30N Naval Support S	ystem	1	9370 Deploya		nous Distribution				
Cost Categories	Contract	Performing	Total PY s	FY 05	FY 05	FY 06	FY 06 Award	FY 07	FY 07	0	T	T()/-1
	Method & Type	Activity & Location		Cost	Award Date	Cost	Date	Cost	Award Date	Cost to Complete	Total Cost	Target Value of Contract
Product Development	Cost Plus		0.799		Date	Cost	Date	COST	Date	Complete		.799
Systems Engineering	WX	SSC SD	0.040									.040
Training Development		SSC SD	0.040									.010
Subtotal Product Development	VVA	330 30	0.849			0.00	0	0.00	10	0.0		0.849
Subtotal Floduct Development			0.049	0.000	<u> </u>	0.00	υĮ	0.00	10	0.0	00	0.049
Douglapment Support	lwy	esc sp	0.030	I	ı		1					030
Development Support	WX	SSC SD	0.030							_		.030
Software Development	wx	SSC SD	0.009								(.009
Software Development Configuration Management	WX WX	SSC SD SSC SD	0.009 0.020								(.009
Software Development Configuration Management Technical Data	wx	SSC SD	0.009 0.020 0.010			0.000		0.00	00		(.009 .020 .010
Software Development Configuration Management	WX WX	SSC SD SSC SD	0.009 0.020			0.000	0	0.00	00	0.0	(.009
Software Development Configuration Management Technical Data Subtotal Support	WX WX	SSC SD SSC SD	0.009 0.020 0.010			0.00	0	0.00	00	0.0	(.009 .020 .010
Software Development Configuration Management Technical Data	WX WX	SSC SD SSC SD	0.009 0.020 0.010			0.000	0	0.00	00	0.0	(.009 .020 .010
Software Development Configuration Management Technical Data Subtotal Support	WX WX	SSC SD SSC SD	0.009 0.020 0.010			0.000	0	0.00	00	0.0	(.009 .020 .010
Software Development Configuration Management Technical Data Subtotal Support	WX WX	SSC SD SSC SD	0.009 0.020 0.010			0.000	0	0.00	00	0.0	(.009 .020 .010
Software Development Configuration Management Technical Data Subtotal Support	WX WX	SSC SD SSC SD	0.009 0.020 0.010			0.000	0	0.00	00	0.0	(.009 .020 .010

CLASSIFICATION:

	_,									DATE:				
Exhibit R-3 Cost Analysis (pag								Tana and				February 200	05	
APPROPRIATION/BUDGET ACTIV	ITY		PROGRAM EL						IUMBER AND					
RDT&E, N / BA 5			0604230N Na		oport Sy	ystem		9370 Deploy		nous Distribution			•	
Cost Categories		Performing		Total			FY 05		FY 06		FY 07			
		Activity &		PY s		FY 05	Award	FY 06	Award	FY 07	Award	Cost to	Total	Target Value
	7.	Location		Cost		Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Developmental Test & Evaluation	WX	SSC SD			0.042									
Subtotal T&E					0.042	0.000)	0.00	00	0.000)	0.000	0.042	2
	Т	T	ı				T					T	T	
Total Cost					0.960	0.000)	0.00	00	0.000)	0.000	0.960)
Remarks:														
				D 4 1	CLIOD	PING LIST	Itama NI-	90						

CLASSIFICATION:

EXHIBIT R4, Schedule I	Profile																								DATE	:						
A DDD O DD A TION / DI ID O T	A O.T.) (IT) (<u> </u>		_					550					_	Fe	ebrua	ry 20	05		
APPROPRIATION/BUDGET															NAMI	=							UMBE				0					
RDT&E, N /	BA 5)							06042	230N	Navai	Suppoi	t Syst	em			<u> </u>				9370 Deployable Autono					Distribu	ition Sy	/stems				
Fiscal Year		20	04			20	05			20	06			20	07			20	80			200	09			20	10			20	11	
	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																																
Engineering Milestones			PDR			CDR																										
Prototype Phase																																
Development																																
Delivery																																
Test & Evaluation Milestones Development Test Operational Test						DT																										

CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:			
						ı	February 20	05	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	EMENT		PROJECT NU	IECT NUMBER AND NAME				
RDT&E, N / BA 5	0604230N Nav	al Support Syste	em		9370 Deployable Autonomous Distribution Systems				
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Preliminary Design Review (PDR)	3Q								
Critical Design Review (CDR)		2Q							
Developmental Test and Evaluation		2Q							

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:			
									Febru	uary 2005	
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND N.						AME					
RDT&E, N / BA 5	0604230N Na	0604230N Naval Support System 9371 Integrated Condition				Assessment	System				
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Project Cost		0.967	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
RDT&E Articles Qty			·		·						

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

Integrated Condition Assessment System (ICAS) \$1.0M Congressional Add provides for "data mining" of ICAS data. Data mining is the processing of raw data into useful information to determine system anomalies. The funds will be used for:

Development and testing data mining tools to extract meaningful data, develop rules for diagnostics and prognostics then present this information and results to the user in an easy to understand format using the existing ICAS system. Development and testing advanced diagnostics and prognostics tools for ICAS equipped ship's machinery faults by exploiting existing data from the Navy's Maintenance Engineering Library Server (MELS). These tools will enable the reduction of maintenance requirements on auxiliary machinery and alert the crew to impending failures.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project	DATE:					
	ROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND					
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMB	PROGRAM ELEMENT NUMBER AND NAME 0604230N - RDT&E,N Warfare Support System		NAME		
DT&E, N / BA-5	0604230N - RDT&E,N Warfar			9371 - RDT&E Integrated Condition Assessment System (ICA		
	·					
Accomplishments/Planned Program						
	FY 04	FY 05	FY 06	FY 07		
Accomplishments/Effort/Subtotal Cost	0.967	0.000	0.000	0.000		
RDT&E Articles Quantity						
The funds will be used for: Development and testing data mining tools to understand format using the existing ICAS sys		ced diagnostics and pro	gnostics tools for ICAS equipped	I ship's machinery faults by expl	oiting existing	
data from the Navy's Maintenance Engineering impending failures.	g Library Server (MELS). These tools	will enable the reduction	To maintenance requirements of			
		will enable the reduction	·			
	g Library Server (MELS). These tools FY 04 0.000		FY 06 0.000	FY 07 0.000		
impending failures.	FY 04	FY 05	FY 06	FY 07		
impending failures. Accomplishments/Effort/Subtotal Cost	FY 04	FY 05	FY 06	FY 07		

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2005			
PPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AN	PROJECT NUMBER AND						
RDT&E, N / BA 5	0604230N Naval Support System			9371 - RDT&E Integrated Condition Assessment System (ICAS)				
(U) C. PROGRAM CHANGE SUMMARY:	1							
(U) Funding:		FY 2005	FY 2006	FY 2007				
FY05 President's Budget	0.988	0.000	0.000	0.000				
FY06 President's Budget	0.967	0.000	0.000	0.000				
Total Adjustments	-0.021	0.000	0.000	0.000				
Summary of Adjustments								
FY04 Non-pay Inflation Savings	-0.001							
FY04 SBIR	-0.020							
Subtotal	-0.021	0.000	0.000	0.000				
(U) Schedule: Not Applicable								
(U) Technical: Not Applicable								
	D. A. CHODDINA			00				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:
								February 2005
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NU				
RDT&E, N / BA 5	0604230N Naval Support System				9371 - RDT&E	Integrated Co	ment System (ICAS)	
(U) D. OTHER PROGRAM FUNDING SUMMARY:								
Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
N/A								
Related RDT&E:								
N/A								
(U) E. ACQUISITION STRATEGY:								
Not Applicable								
(U) F. Major Performers:								
NSWC, Philadelphia								