	EXHIBIT R-2,	RDT&E Budget Item	Justification				DATE:	
R-1 ITEM NOMENCLATURE			Februa	ry 2006				
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENO	LATURE	
REASEARCH DEVELOPMENT TEST & EVALUATION, NAVY	/		BA 5			0604261N, ACOUS	TIC SEARCH SENS	ORS
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Total PE Cost	14.418	33.569	36.764	45.043	38.000	54.916	54.906	
0480 ASW SENSORS & PROC	11.731	17.057	8.426	8.590	23.969	41.019	41.041	
4017 ARPDD	2.687	12.012	28.338	36.453	14.031	13.897	13.865	
9999 Congressional Adds		4.500						

FY2005 budget reflects a \$1.400 million Congressional add for Littoral Airborne Acoustic ASW Enhancements, which has been reduced by \$.056 million for Congressional Undistributed Reductions. (U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) (0480) - The ASW Sensors and Processing project provides the tools and methods necessary to maintain maritime superiority by preventing hostile submarines from disrupting the US Nawy's ability to control the sea lines of communication and carry out their missions. This project encompasses the System Development and Demonstration (SDD) of sensor systems to improve the mission effectiveness of airborne Anti-Submarine Warfare (ASW) cueing, search, localization, and track. Smaller and quieter threat submarines drive the requirement for continued advancement in ASW sensor capabilities for both blue water and littoral environments. The littoral regions of the world create an additional ASW challenge to defeat the increase in background clutter caused by the shallow water depth, high volume of shipping, and commercial radio frequency interference. Project 0480 provides funding for the engineering development of solutions that acquire, confirm, and track threat submarines. Efforts being funded during the period identified are the Extended Echo Ranging (EER) family of multi-static active sensor systems and the Advanced Processing Build (APB) programs. Multi-static ASW (MSA) sensor systems provide improved threat target detection capabilities for shallow water littoral environments. The development efforts funded during the period identified include the Improved Extended Echo Ranging (IEER) multi-static search receiver environments and could eliminate current impulsive source safety, training and Rules of Engagement restrictions; and Advanced Processing Builds which provide signal processing improvements to achieve increased target detection and classification capabilities. A technology adjunct to these programs include Sonobuoy Precise Positioning.

(U) (4017) - The Automatic Radar Periscope Detection and Discrimination (ARPDD) Project provides a fully automated periscope detection, classification, and tracking capability to reliably detect periscopes and masts, and reliably discriminate periscopes from clutter and confusion targets. This capability is suitable for air and surface platforms. This project funds only the airborne application.

(L	J)	(9999) -	Congressional	Adds
----	----	---	------	-----	---------------	------

	EXHIBIT	R-2a, RDT&E	Project Justific	ation				DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /		PROGRAM EL 0604261N, AC	_				PROJECT NU 0480, ASW SE	İAME
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
0480 ASW SENSORS & PROC	11.731	17.057	8.426	8.590	23.969	41.019	41.041	
RDT&E Articles Qty					300	300	300]

FY2005 budget reflects a \$1.400 million Congressional add for Littoral Airborne Acoustic ASW Enhancements, which has been reduced by \$.056 million for Congressional Undistributed Reductions.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The ASW Sensors and Processing project provides the tools and methods necessary to maintain superiority by preventing hostile submarines from disrupting the US Nawy's ability to control the sea lines of communication and carry out their missions. This project encompasses the System Development and Demonstration (SDD) of sensor systems to improve the mission effectiveness of airborne Anti-Submarine Warfare (ADW) cueing, search, localization, and track. Smaller and quieter threat submarines drive the requirement for continued advancement in ASW sensor capabilities for both blue water and littoral environments. The littoral regions of the world create an additional ASW challenge to defeat the increase in background clutter caused by the shallow water depth, high volume of shipping, and commercial radio frequency interference. Project 0480 provides funding for the engineering development of solutions that acquire, confirm, and track threat submarines. Efforts being funded during the period identified are the Extended Echo Ranging (EER) family of shallow water littoral environments. The development efforts funded during the period identified include the Improved Extended Echo Ranging (IEER) multi-static search receiver sensor for active large area ASW search; the Advanced Extended Echo Ranging (AEER) active coherent (electronic) sound source, a new start in FY09, which provides a search and localization capability in all water environments and could eliminate current impulsive source safety, training and Rules of Engagement restrictions; and Advanced Processing Builds which provide signal processing improvements to achieve increased target detection and classification capabilities. The 900 sonobuoy test articles will support software and hardware integration flight tests

	EXHIBI*	T R-2a, RDT&I	E Project Justification			DATE:
		,	,			February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5		LEMENT NUMBER A		PROJECT NUMBER AND N 0480, ASW SENSORS & P	
B. ACCOMPLISHMENTS / PLANNED PROGRAM:	-				1 22, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	FY 2005	FY 2006	FY 2007			
Accomplishments / Effort / Sub-total Cost	1.344	l				
RDT&E Articles Qty						
	FY 2005	FY 2006	FY 2007			
Accomplishments / Effort / Sub-total Cost	10.387					
RDT&E Articles Qty						
Software development, integration, and test for Multi-Superpose system efficiency and decreased fleet operary				n integration of multi-stat	tic technology improvements allowing increa	sed

	EXHIBIT	R-2a, RDT&E I	Project Justifica	ation				DATE:	Tahmuam / 2000
PROPRIATION/BUDGET ACTIVITY		PROGRAM EL	FMFNT NUMB	FR AND NAM	F		PROJECT NUMBER		February 2006
T&E, N /		0604261N, AC					0480, ASW SENSO		
PROGRAM CHANGE SUMMARY		·							
Funding:	FY 2005	FY 2006	FY 2007						
Previous President's Buget:	11.781		8.207						
Current BES / President's Budget:	11.731	17.057	8.426						
Total Adjustments	-0.050		0.219						
Summary of Adjustments									
Congressional Reductions									
Congressional Rescissions									
Congressional Undistributed Reductions	-0.177	-0.187							
Congressional Increases	0.177	0.107							
Economic Assumptions		-0.079							
Miscellaneous Adjustments	0.127	0.07.0	0.219						
Subtota		-0.266	0.219						
Technical: N/A									
OTHER PROGRAM FUNDING SUMMARY: OPN (404800) SSQ -110B	FY 2005 1.1	FY 2006 5.1	FY 2007 4.0	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
			-						
P.E. 0603254N (ASW Systems Dev)									
E. ACQUISITION STRATEGY: The integration of Multi-Salternatives of MSA implementation are also being invest					be achieved	as an option u	under the current MS	A contracts. Various	

									DATE:			
Exhibit R-3 Cost Analysis (page 1)										Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT N	NUMBER AN	ID NAME			•	
RDT&E, N /	BA 5	0604261N, ACOUSTIC SEARCH SENSORS				0480, ASW	SENSORS 8	& PROC				
,	Contract	,										Target
1	Method &		Total PY s	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost to		Value of
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Award Date		Award Date	Cost	Award Date		Total Cost	Contract
PRODUCT DEVELOPMENT	Турс	l choming /tolivity & Location	0001	0031	/ Ward Date	0031	/ Wara Bate	0031	/wara bate	Complete	10101 0031	Contract
Primary Hardware Development	C-CPFF	TRD	1.000							26.000	27.000	27.00
SUBTOTAL PRODUCT DEVELOPMEN			1.000							26.000	27.000	21.00
SOBTOTALT RODGET BEVELOT MEN	<u>"</u>		1.000	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	20.000	27.000	
Remarks:												
romano.												
SUPPORT												
Software Development	C-CPFF	LOCKHEED MARTIN CORPORATION, MANASSAS, VA		.490	2/28/2005						.490	.49
Software Development (Phase II)	WX	NAWCAD, PATUXENT RIVER MD	1.000	.995	11/30/2004	2.600	10/31/2005	2.100	10/31/2006	43.284	49.979	
Software Development (Phase IIA)	WX	NAWCAD, PATUXENT RIVER MD		1.144	11/30/2004						1.144	
Studies & Analyses		LOCKHEED MARTIN CORPORATION, MANASSAS, VA			2/28/2005						.200	.20
Technical Data		NAWCAD, PATUXENT RIVER MD	4.382		10/31/2004		10/31/2005	.900	10/31/2006	9.400	17.629	
SUBTOTAL SUPPORT			5.382	4.146	10/01/2001	4.230		3.000		52.684	69.442	
	l.				l		l		l.			
TEST & EVALUATION												
Dev Test & Eval	WX	NAWCAD, PATUXENT RIVER MD	3.200	.400	10/31/2004	.750	11/30/2005	.750	11/30/2006	3.850	8.950	
SUBTOTAL TEST & EVALUATION		,	3.200	.400		.750		.750		3.850	8.950	
					ı		I.					
Remarks:												
1												
1												
MANAGEMENT												
Contractor Engineering Support	VARIOUS	VARIOUS	2.861	2.290	11/30/2004	3.993	10/31/2005	1.296	10/31/2006	11.502	21.942	21.94
Government Engineering Support	WX	NAWCAD, PATUXENT RIVER MD	54.872	4.347	10/31/2004	7.194	10/31/2005	2.480	10/31/2006	16.858	85.751	
Program Mgmt Support (Cont.)	C-FFP	VARIOUS	40.085	.398	12/31/2004	.700	11/30/2005	.700	11/30/2006	2.800	44.683	44.68
Program Mgmt Support (Gov.)	WX	NAWCAD, PATUXENT RIVER MD	7.023	.150	10/31/2004	.190	10/31/2005	.200	10/31/2006	.925	8.488	
SUBTOTAL MANAGEMENT		,	104.841	7.185		12.077		4.676		32.085	160.864	
			1				•		•			
Remarks:												
i Kemana.												
iterialis.												
Nemans.												
Total Cost			114.423	11.731		17.057		8.426		114.619	266.256	
			114.423	11.731		17.057		8.426		114.619	266.256	

UNCLASSIFIED

R-1 Shopping List Item No 94

Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 5)

EXHIBIT R4, Schedul Multi-Static Active	e Profile)																							DATE	:	F	ebrua	ary 20	06		
APPROPRIATION/BUDGE	T ACTIV	ITY							PROG	RAM	ELEM	ENT N	UMBE	R AND	NAM	=					PROJ	ECT N	IUMBE	R ANI	D NAM	1E		CD: ac	y			
RDT&E, N /	BA-	5							06042	261N, <i>i</i>	ACOU:	STIC S	EARC	H SEN	SORS	;					0480,	ASW	SENS	ORS &	PRO	0						
Fiscal Year		FY:	2005			FY 2	2006			FY:	2007			FY 2	1008			FY 2	2009			FY 2	2010			FY:	2011	•			ı	
	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													MSA Ir	ntegrati	on Con	tract																
Prototype Phase																																
System Development				MSA Ir	itegrat	ion CDF	2																									
EDM Delivery																																
Software Development/Integration						Start A	PB De	velopm İ	ent						APB (1) S/W r	elease						APB (2	2) S/W	release	 - 						
Test & Evaluation Milestones Development Test										MSA I	ntegrat		APB (1) SQT							APB (2	2) SQT										
Operational Test												MSA I	ntegrati	on OPE	VAL																	
Production Milestones																																
LRIP I FY 05																																ĺ
LRIPII FY 06																																
FRP FY 07																																
Deliveries																																

Exhibit R-4a, Schedule Detail Multi-Static Active						DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	EMENT			PROJECT NU	MBER AND N	AME
RDT&BA-5			RCH SENSORS	S	0480, ASW SE		
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Integration Contract				1Q			
Critical Design Review (CDR)	4Q						
Software Development		2Q					
Software Delivery 2XXSW				3Q		3Q	
Technical Evaluation (TECHEVAL)			2Q	10		10	
Software Qualification Test (SQT) Operational Evaluation (OT-IIC) (OPEVAL)			4Q	1Q	1	1Q	
Operational Evaluation (OT-110) (OT EVAL)			70				

EXHIBIT R4, Schedule																									DATE	:						
Advanced Extended	Echo Ra	ngin	g (AE	ER)																							F	ebrua	ry 20	06		
APPROPRIATION/BUDGE												ENT N													D NAM							
RDT&E, N /	BA-	•							06042	261N, A	ACOUS	STIC S	EARC	H SEN	ISORS	i	1				0480,	ASW	SENS	JRS &	PROC	;						
Fiscal Year		FY	2005			FY 2	2006			FY :	2007			FY:	2008			FY 2	2009			FY 2	2010			FY 2	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																		MS B														
System Development Localization SL																					CDR (I	olk 1)										
EDM Delivery																						H/W E	DM (bil	k 1)								
Software ntegration																								Integra	ation S/	W Deliv	ery (bl	k 1)				
Test & Evaluation Milestones Developmental Test																								Comm	nence S	/W and	H/W Ir	tegrate	d Flt Te	est (blk	1)	
Production Milestones																																

Note: AEER, is a spiral upgrade development effort consisting of two block builds. Block 1 is to develop and produce a Coherent Source buoy to provide a multi-static active localization system capability.

Exhibit R-4a, Schedule Detail						DATE:		
Advanced Extended Echo Benging (AEEB)						DATE:	Sabruary 20	06
Advanced Extended Echo Ranging (AEER) APPROPRIATION/BUDGET ACTIVITY	IDDOOD AM E	LEMENT			IDDO IDOT NI	MBER AND N	ebruary 20	06
	PROGRAM E			_				
RDT&BA-5		COUSTIC SEA			0480, ASW SI			T
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Milestone B (MS B)					2Q			
Critical Design Review (CDR) Block 1						1Q		
Eng Dev Model (EDM) Block 1						2Q		
Integration Software Delivery Block 1						4Q		
Eng Dev Model (EDM) Block 1 Integration Software Delivery Block 1 Developmental Testing (DT-IIB) Block 1							1Q	
				-				
		1			†			
					1			
					1			
					+			

CLASSIFICATION:																																
EXHIBIT R4, Schedule			nhan	ceme	ents																				DATE	<u> </u>	F	ebrua	rv 20	06		
APPROPRIATION/BUDGE	ET ACTIV	'ITY												ER ANI								ECT N							- 			
RDT&E, N /	BA-	5							0604	261N,	ACOL	ISTIC	SEAR	CH SE	NSOR	3					0480,	ASW :	SENS	ORS &	PRO	<u>C</u>						
Fiscal Year		FY:	2005			FY :	2006			FY	2007			FY:	2008			FY	2009			FY 2	2010			FY 2	2011					
	1	2	3	4	1	2	3	4	1	2	2 3	3 4	1 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones																																
Prototype Phase																																
System Development		\triangle		Δ																												
Software 1XX S/W Delivery 2XX S/W Delivery			\triangle	\triangle																												
Test & Evaluation Milestones Demonstration				\triangle																												
Production Milestones																																

Exhibit R-4a, Schedule Detail						DATE:		
Littoral Airborne Acoustic ASW Enhancements						F	ebruary 20	06
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT			PROJECT NU	MBER AND N	AME	
RDT&BA-05	0604261N Ac	oustic Search S	Sensors		0480 ASW Se	nsors & Proces	ssing	
Schedule Profile	FY 2005		FY 2007	FY 2008				
Prototype Phase	2Q-3Q				1			
System Development	2Q-4Q							
Software Delivery 1XX	3Q							
Software Delivery 2XX	4Q							
Demonstration	4Q							

	EXHIBIT R-2a, RDT&E Project Justification										
APPROPRIATION/RUDGET ACTIVITY	PROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME										
RDT&E, N /		0604261N, AC				4017, ARPDD		AWE			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011				
4017 ARPDD	2.687	12.012	28.338	36.453	14.031	13.897	13.865				
RDT&E Articles Qty						1	1				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Automatic Radar Periscope Detection and Discrimination (ARPDD) Project provides a fully automated periscope detection, classification, and tracking capability to reliably detect periscopes and masts, and reliably discriminate periscopes from clutter and confusion targets. This capability is suitable for air and surface platforms. This project funds only the airborne application. This capability is essential for effective detection of submarines in congested Littoral areas. This funding is for engineering development and evolutionary application of the ARPDD capability to Airborne radars. Test articles / pre-production units will be provided for systems integration, and development and operational testing. Testing will be performed to support a production decision.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	2.687	12.012	28.338	
RDT&E Articles Qty				

ARPDD is a follow -on to a Science and Technology program previously funded by the Office of Naval Research in PE0603747N. Funding is being used for project planning, acquisition documentation preparation, performing technical trade-off studies, developing specifications, and a Statement of Work in preparation for awarding a contract for development of an airborne ARPDD capability. Funding will be used to award a development contract for ARPDD System Development and Demonstration (SDD) and associated government support.

	EXHIB	T R-2a, RDT&E	Project Justific	ation				DATE:
APPROPRIATION/BUDGET ACTIVITY			EMENT NUME				PROJECT NUMB	February 2006 ER AND NAME
RDT&E, N / C. PROGRAM CHANGE SUMMARY	BA 5	0604261N, AC	OUSTIC SEAF	CH SENSOR	S		4017, ARPDD	
S. PROGRAM CHANGE SUMMARY								
Funding:	FY 2005	FY 2006	FY 2007					
Previous President's Buget:	2.80	9 12.199	46.892					
Current BES / President's Budget:	2.68	7 12.012	28.338					
Total Adjustments	-0.12	2 -0.187	-18.554					
Summary of Adjustments								
Congressional Reductions								
Congressional Rescissions								
Congressional Undistributed Reductions	-0.01							
Congressional Increases	0.00							
Economic Assumptions		-0.056						
Miscellaneous Adjustments	-0.10		-18.554					
Subto	tal -0.12	2 -0.187	-18.554					
Schedule: Reduction in funding over FYDP; delays develo	pment schedule	and reduces so	ope of effort.					
Fechnical: N/A								
D. OTHER PROGRAM FUNDING SUMMARY:	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete Total Cost
ine Item #36 (APN P-3 OSIP 29-94)	0.0	0.0	0.0					
PE# 0204251N								
. ACQUISITION STRATEGY: Analyze merits of sole so	irce versus com	petitive procuren	nent. Explore A	Alternatives. A	ward prime co	ontract to TBD	contractor. Techni	cal support will be
provided by NAWCWD (China Lake) and JHU/APL.								

									DATE:			
Exhibit R-3 Cost Analysis (page 1)										Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT N	NUMBER AN	ID NAME				
RDT&E, N /	BA 5	0604261N, ACOUSTIC SEARCH SENSORS				4017, ARPD	D					
	Contract											Target
	Method &		Total PY s	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost to		Value of
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Total Cost	Contract
PRODUCT DEVELOPMENT	,,	,										
Primary Hdw Development	TBD	TBD				9.500	6/30/2006	21.628	3/31/2007	53.825	84.953	84.95
SUBTOTAL PRODUCT DEVELOPMEN	İ					9.500		21.628		53.825	84.953	
Remarks:												
SUPPORT												
Software Development	WX	NAWCWD, CHINA LAKE CA		.390	12/31/2004			.900	11/30/2006	2.000	3.290	
Studies & Analyses	C-CPFF	JOHNS HOPKINS UNIV, COLUMBIA, MD	.511	.200	12/31/2004	.300	11/30/2005	.700	11/30/2006	1.200	2.911	2.91
Software Development (Cont)	VARIOUS	VARIOUS						1.300	11/30/2006	5.200	6.500	6.50
SUBTOTAL SUPPORT			.511	.590		.300		2.900		8.400	12.701	
TEST & EVALUATION Test & Evaluation SUBTOTAL TEST & EVALUATION Remarks:	WX	NAWCAD, PATUXENT RIVER MD								1.500 1.500	1.500 1.500	
MANAGEMENT	1	T	<u> </u>		ı	1			1	T	I I	
-	TDD	TBD	4 700	4.000	11/30/2004	.702	2/28/2006	000	11/30/2006	2 200	7 420	7.40
Contractor Eng Sup		NAWCAD, PATUXENT RIVER MD	1.700		12/31/2004		11/30/2005		11/30/2006	3.200 2.000	7.438 2.891	7.43
Government Engineering Support Government Engineering Support		NAWCWD, CHINA LAKE CA	.502		12/31/2004		11/30/2005		11/30/2006	5.171	8.773	
Program Management Support (Cont)		VARIOUS	.240		12/31/2004		12/31/2005		12/31/2006	1.400	2.600	2.60
Program Management Support (Cont)		NAWCWD, CHINA LAKE CA	.400		12/30/2004		11/30/2005		11/30/2006	2.710	3.710	2.00
Travel		NAVAIR HQ, PATUXENT RIVER MD	.010		2/28/2005		10/31/2005		11/30/2006	.040	.080	
SUBTOTAL MANAGEMENT	10	INAVAIRTIQ, I ATOXENT RIVER MID	2.852	2.097	2/20/2003	2.212	10/31/2003	3.810		14.521	25.492	
Remarks:	!		2.002	2.001	!	2.2.12		0.010	!	11.021	20.102	
Total Cost			3.363	2.687		12.012		28.338		78.246	124.646	-
Remarks:				-								

UNCLASSIFIED

R-1 Shopping List Item No 94

R-2 RDTEN Budget Item Justification (Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 14)

EXHIBIT R4, Schedule		-44:		~ ~ D:		- ! 4 i	/	4 D D D	'D'																DATE			2006
Automatic Radar Peri	T ACTIVIT	Y	on ar	na Di	SCIII	nınatı	ion (<i>i</i>	ARPL	PROG	BRAM	ELEM	ENT N	UMBE	R AND	NAME	•							NUMBI	ER ANI) NAM		uary	2006
RDT&E, N /	BA-0	5							0604261N Acoustic Search Sensors									4017 ARPDD				l						
Fiscal Year		200	5		2006			20	07			20	80			20	09	ı		2	010		2011		T			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2 3	4	1	2	3	4
Acquisition Milestones										MS-B																Full I	Rate P	roduction
Prototype Phase (Prior to FY02)							Contra	act																				
System Development							Awar				SD Conti	act																
System Development											Awa	rd																
EDM & Pre Production Delivery																				LAB L	JNITS			Test A	rticles /	Prepro	duction	Units
Software					5	Softwar	re Dev	elopm	ent and	Test																		
Software															Softv	ware D	evelop	ment a	and Te	st								
Test & Evaluation Milestones																										TRR		
Development Test Operational Test																											ОТ	
Production Milestones																												
LRIP																												
Deliveries																												

CLASSIFICATION:

Exhibit R-4a, Schedule Detail Automatic Radar Periscope Detection and Dis	scrimination (AR	PDD)				DATE:	ebruary 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E				IPROJECT NU	IMBER AND N	
RDT8 BA-05		oustic Search S	Soneore		4017 ARPD		
				E) / 0000	1		E) / 00 / /
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Prototype Phase							
Systems Requirement Review (SRR)							
System Functional Review (SFR)							
Milestone B			2Q				
Contract Award		4Q	2Q				
Software Specification Review (SSR)							
Preliminary Design Review (PDR)							
System Development		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q - 4Q	1Q - 4Q
Critical Design Review (CDR)							
Quality Design and Build							
Test Readiness Review (TRR)							2Q
Developmental Testing (DT-IIA)							
Lab Units					4Q		
Software Development and Test		3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q - 4Q	1Q
Preproduction Readiness Review (PRR)							
Test Article Delivery						4Q	1Q
Milestone C (MS C)							
Operational Testing (OT-IIA)							
Low-Rate Initial Production (LRIP) Decision							
Software Delivery 2XXSW							
Developmental Testing (DT)							1Q-2Q
Developmental Testing (DT-IIB2)							
Start Low-Rate Initial Production II							
Operational Testing (OT)							3Q
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							4Q
First Deployment							

R-1 SHOPPING LIST - Item No.

	EXHIB	IT R-2a, RDT&	E Project Justi	fication					DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /		PROGRAM EL 0604261N, AC				PROJECT NUMBER AND NAME 9999 Congressional Adds				
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
9999 Congressional Adds	2000	4.500	2001	2000	2000	2010				

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Congressional Adds.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

4017C	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost		2.500		
RDT&E Articles Qty				

Automatic Radar Periscope Detection and Discrimination. Funding will be used to prepare for System Development and Demonstration (SDD) of ARPDD technology.

9773N	FY 2005	FY 2006	FY 2007
Accomplishments / Effort / Sub-total Cost		2.000	
RDT&E Articles Qty			

Acoustic Environmental Sensor System. Continue development and testing of A-plus sized sonobuoy prototype and in-buoy processing software, high dynamic range omni directional hydrophone, sound velocity, profiling, data collection ability and reverberation data collection capability.

	EXHI	BIT R-2a, RDT&	E Project Just	ification				DATE:	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 5	PROGRAM EL 0604261N, AC					PROJECT NUMBER AND 9999 Congressional Adds	NAME	February 2006
C. PROGRAM CHANGE SUMMARY									
Funding: Previous President's Buget: Current BES / President's Budget: Total Adjustments	FY 2005	FY 2006 0.000 4.500 4.500	FY 2007	-					
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Economic Assumtions Miscellaneous Adjustments Subtota	al .	4.500		-					
	41	4.000							
Schedule: Not Applicable Technical: Not Applicable									
D. OTHER PROGRAM FUNDING SUMMARY: Related RDT&E	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
E. ACQUISITION STRATEGY: Congressional Plus Up									