

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: FEBRUARY 2004					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-2 COMMUNICATIONS & ELECTRONIC EQUIPMENT							P-1 ITEM NOMENCLATURE UNDERSEA WARFARE SUPPORT EQUIPMENT (217600/217605) A2VM					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total	
QUANTITY												
COST (In Millions)			\$13.4	\$11.6	\$14.1	\$14.5	\$12.3	\$13.0	\$6.7	Cont.	Cont.	
SPARES COST (In Millions)												
<p><u>Space Information Command and Control Programs (N61)</u></p> <p>Common Undersea Picture (CUP) The Common Undersea Picture (CUP) provides the Fleet with capabilities for significantly improved USW sensor and tactical situational awareness for own ship and own force vulnerability, as well as automated USW contact and information fusion, net based connectivity and collaboration, and computer aided mission planning and assessment. CUP will provide the Sea Combat Commander (SCC) with an expanded net-centric USW toolset reaching across all surface and submarine Expeditionary Strike Force (ESF) USW platforms as well as supporting USW shore nodes, theater assets, and aircraft. Funding identified provides for the procurement and installation of CUP capability on ESF platforms and supporting shore nodes as permanent alterations, and will support periodic technology refresh of CUP hardware/software to keep capabilities concurrent with leading COTS technology.</p> <p><u>Surface Programs (N76)</u></p> <p>Surface Sonar Windows and Domes AN/SQS-26/53 Sonar Dome Rubber Windows (SDRW) are installed in CG47, DDG51, and DD963 class ships. This program provides emergency replacement wire-reinforced, pressurized rubber acoustic windows which experience failure due to corrosion, fatigue, and impact in the splice region. The SDRW significantly improves the surface ship sonar performance by reducing flow-induced self-noise, and by providing increased source level receiving and sensitivity resulting from reduced attenuation. AN/SQS-56 Sonar Rubber Domes (SRD) are installed in FFG7 class ships. This program provides emergency replacement SRD for AN/SQS-56 active/passive duct sonar systems. Production engineering support provides technical evaluation, failure analyses, implementation of the inwater one-side backscatter xray program, GFE refurbishments, and field service engineering .</p> <p>Surface Ship Torpedo Defense The Surface Ship Torpedo Defense (SSTD) System consists of the AN/SLQ-25A NIXIE towed torpedo countermeasure. The SSTD system enhances ship survival capability against advanced acoustic and non-acoustic homing torpedoes. The AN/SLQ-25A Nixie is in the Countermeasure Passive Subsystem of the SSTD System. The AN/SLQ-25A projects decoy signals into the water via a towed body deployed astern of the ship. The projected signals are generated by a transmitter located on the ship which is controlled by an operator. FY 02/03/04 Congressional plus-ups were authorized to procure AN/SLQ-25A towed torpedo defense countermeasure improvements (i.e. an enhanced EC-16, improved tow cable and COTS signal generator as well as reliability mods). This effort will provide enhanced reliability and performance against evolving threat torpedoes and enhanced operation of the AN/SLQ-25A in shallow littoral waters.</p>												

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P-40		FEBRUARY 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
OTHER PROCUREMENT, NAVY BA-2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	UNDERSEA WARFARE SUPPORT EQUIPMENT (217600/217605) A2VM	
Program Element for Code B Items:	Other Related Program Elements	

Submarine Programs (N77)

Acoustic Communications

Acoustic Communications provides two-way and one-way acoustic communications equipment for submarines and surface ships. The equipment consists of : (1) AN/WQC-2/2A, a stand alone, single side band, general purpose, voice, continuous wave, multiple tone communication for surface ships, submarines, and some shore activities; (2) AN/WQC-6, which provides long range coded signaling from surface ASW ships to attack submarines when interfaced with the AN/SQS-26/53 and AN/BQQ-5; (3) AN/BQC-1 (), a stand-alone emergency voice and signal beacon for submarines, and (4) technical improvements (Engineering Changes) to acoustic communication equipment. Funding will provide for continued procurement of both Probe Alert (AN/WQC-6) improvements and AN/WQC-2A Engineering Changes plus associated production engineering support and consulting services for the SSN 21, SSN 637, SSN 688, SSBN 726, DD963, DDG 51, CG 47, MHC 51, MCM 1, CVN 65, ARS 50, FFG 7, and CVN 68 class ships and submarines.

Aircraft Carrier Programs (N78)

Aircraft Carrier Tactical Support Center (CV-TSC)

The CV-TSC of the Carrier Combat Direction System (CDS) is the focal point of supply for force ASW/SUW functions. The system supports the multi-mission, tactical deployment of embarked airborne weapon systems (S-3B and SH-60 Helicopters) by providing mission planning, in-flight support and post mission assessment/intelligence collection. CV-TSC provides real time and post mission analysis of relayed or taped acoustic and non-acoustic signals to support CV/CVN USW Self Defense. The system consists of digital computers, commercial workstation displays, mass memories, plotters, acoustic analysis equipment and interface devices. The CV-TSC furnishes timely evaluated USW and SUW information to the Officer in Tactical Command as inputs to the decision making process. Procurement of non-developmental engineering changes to maintain system IT-21 supportability and interoperability with embarked aircraft, airborne sensors, and shipboard interfaces will continue. Naval Undersea Warfare Center (NUWC), Division Keyport has been designated as the Alteration Installation Team (AIT) for all items. Installations will be accomplished at NUWC, the CV-TSC training site at Fleet Combat Training Center Atlantic (FCTCL) Dam Neck, VA, CV-TSC Ashore training site, and on board CV-63 through CVN-75. FY 02/03 Congressional plus-ups were authorized to provide additional Surface Network Embedded Analysis and Tactical Trainer (SNEATT) and Common Airborne Undersea Sensor Software (CAUSS) capabilities that will be integrated into CV-TSC systems. This effort will enhance operator and maintenance training, improve USW signal detection capabilities, and provide battle group USW platform interoperability.

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BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a						DATE: FEBRUARY 2004					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-2 COMMUNICATIONS & ELECTRONIC EQUIPMENT						P-1 ITEM NOMENCLATURE UNDERSEA WARFARE SUPPORT EQUIPMENT (217600/217605) A2VM					
Procurement Items	ID Code	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
Space Information Command and Control Programs (N61)											
COMMON UNDERSEA PICTURE (CUP)	A		-	-	1,743					cont.	cont.
- Hardware					(1,743)					cont.	cont.
SUB-TOTAL			-	-	1,743					cont.	cont.
Installation Support	A		-	-	6,227					cont.	cont.
Surface Ship Programs (N76)											
SSTD	A		5,977	5,906	-					cont.	cont.
- Hardware			(5,977)	(5,906)	-					cont.	cont.
SUB-TOTAL			5,977	5,906	-					cont.	cont.
SQS-26/53 SDRW	A		2,723	4,383	4,808						
- Hardware			(1,651)	(3,260)	(3,633)					cont.	cont.
- Production Engineering			(1,072)	(1,123)	(1,175)					cont.	cont.
SUB-TOTAL			2,723	4,383	4,808					cont.	cont.
Submarine Programs (N77)											
ACOUSTIC COMMUNICATIONS	A		322	323	330						
- Hardware			(256)	(273)	(283)					cont.	cont.
- Production Engineering			(66)	(50)	(47)					cont.	cont.
Consulting Services	A		50	70	70					cont.	cont.
SUB-TOTAL			372	393	400					cont.	cont.
Aircraft Carrier Programs (N78)											
CV-TSC EC Production Engineering	A									cont.	cont.
CV-TSC SNEATT	A		3,188							cont.	cont.
- Hardware			(2,688)								
- Production Engineering			(500)								
TACT COMP DATA LINK	A		197							cont.	cont.
- Hardware			(137)								
- Production Engineering			(60)								
SQQ-34A(V)5 CV-TSC	A		764	775	722					cont.	cont.
- Hardware			(670)	(680)	(668)						
- Production Engineering			(94)	(95)	(54)						
Helo Link Controllers	A									cont.	cont.
- Hardware											
EC Technical Insertion	A									cont.	cont.
- Hardware											
- Production Engineering											
Consulting Services	A		81	20	20					cont.	cont.
SUB-TOTAL			4,230	795	742					cont.	cont.
Installation Support	A		130	144	196					cont.	cont.
GRAND TOTAL			13,432	11,621	14,116					cont.	cont.

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: FEBRUARY 2004					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy / BA-02							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD UNDERSEA WARFARE SUPPORT EQUIPMENT (217600/217605) A2VM										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS															
			FY 2002 and Prior			FY 2003			FY 2004			FY 2005						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
VM101	Surface Ship Torpedo Defense (SSTD) (Congressional Add)	A							5,977						5,906			
VM201	Acoustic Communications (ACOMMs)	A							256						273			283
VM301	Aircraft Carrier Tactical Support Center (CV-TSC)	A							137						680			668
VM319	CV-TSC SNEATT (FY 03 Congressional Add)	A							3,188									
VM329	CV-TSC AN/SQQ-34A(V)5	A							670									
VM401	Surface Sonar Windows and Domes	A							1,651						3,260			3,633
VMTBD	Common Undersea Picture (CUP)	A																1,743
VM832	Production Support (ACOMMs)								66						50			47
VM833	Production Support (CV-TSC)								154						95			54
VM834	Production Support (Domes)								1,072						1,123			1,175
VM902	Consulting Services (ACOMMs)								50						70			70
VM903	Consulting Services (CV-TSC)								81						20			20
VM128	Installation (CV-TSC)								130						144			196
VMTBD	Installation (CUP)																	6,227
									13,432				11,621				14,116	

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE FEBRUARY 2004
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B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy / BA-02	UNDERSEA WARFARE SUPPORT EQUIPMENT	A2VM

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<u>FY 2003</u> N/A										
<u>FY 2004</u> N/A										
<u>FY 2005</u> N/A										

D. REMARKS

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: Surface Ship Torpedo Defense (SSTD)

DESCRIPTION/JUSTIFICATION:

The Surface Ship Torpedo Defense (SSTD) System consists of the AN/SLQ-25A NIXIE towed torpedo countermeasure. The SSTD system enhances ship survival capability against advanced acoustic and non-acoustic homing torpedoes. The AN/SLQ-25A Nixie is in the Countermeasure Passive Subsystem of the SSTD System. The AN/SLQ-25A projects decoy signals into the water via a towed body deployed astern of the ship. The projected signals are generated by a transmitter located on the ship which is controlled by an operator. FY 02/03/04 Congressional plus-ups were authorized to procure AN/SLQ-25A towed torpedo defense countermeasure improvements (i.e. an enhanced EC-16, improved tow cable and COTS signal generator as well as reliability mods). This effort will provide enhanced reliability and performance against evolving threat torpedoes and enhanced operation of the AN/SLQ-25A in shallow littoral waters.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **N/A**

	<u>FY 2002 & Prior</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>To Complete</u>		<u>TOTAL</u>	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<u>RDT&E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				0.0
INSTALLATION KITS - UNIT COST																				0.0
INSTALLATION KITS NONRECURRING																				0.0
EQUIPMENT				6.0		5.9														11.9
EQUIPMENT NONRECURRING																				0.0
ENGINEERING CHANGE ORDERS																				0.0
DATA																				0.0
TRAINING EQUIPMENT																				0.0
SUPPORT EQUIPMENT																				0.0
OTHER - ECPs																				0.0
OTHER - ENGINEERING SUPPORT																				0.0
OTHER																				0.0
INTERIM CONTRACTOR SUPPORT																				0.0
INSTALL COST																				0.0
TOTAL PROCUREMENT		0.0		6.0		5.9		0.0		0.0		0.0		0.0		0.0		0.0		11.9

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: Acoustic Communications (ACOMMs)

DESCRIPTION/JUSTIFICATION:

Acoustic Communications provides two-way and one-way acoustic communications equipment for submarines and surface ships. The equipment consists of : (1) AN/WQC-2/2A, a stand alone, single side band, general purpose, voice, continuous wave, multiple tone communication for surface ships, submarines, and some shore activities; (2) AN/WQC-6, which provides long range coded signaling from surface ASW ships to attack submarines when interfaced with the AN/SQS-26/53 and AN/BQQ-5; (3) AN/BQC-1(), a stand-alone emergency voice and signal beacon for submarines, and (4) technical improvements (Engineering Changes) to acoustic communication equipment. Funding will provide for continued procurement of both Probe Alert (AN/WQC-6) improvements and AN/WQC-2A Engineering Changes plus associated production engineering support and consulting services for the SSN 21, SSN 637, SSN 688, SSBN 726, DD963, DDG 51, CG 47, MHC 51, MCM 1, CVN 65, ARS 50, FFG 7, and CVN 68 class ships and submarines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **N/A**

	<u>FY 2002 & Prior</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>To Complete</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT				0.3		0.3		0.3		0.3		0.3		0.3		0.3					2.1
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGINEERING SUPPORT				0.1		0.1		0.1		0.1		0.1		0.1		0.1					0.4
OTHER				0.1		0.1		0.1		0.1		0.1		0.1		0.1					0.5
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST																					0.0
TOTAL PROCUREMENT		0.0		0.4		0.4		0.4		0.4		0.4		0.4		0.4		0.0			3.0

P3A **INDIVIDUAL MODIFICATION**
 MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: CV-TSC

DESCRIPTION/JUSTIFICATION:

The CV-TSC of the Carrier Combat Direction System (CDS) is the focal point of supply for force ASW/SUW functions. The system supports the multi-mission, tactical deployment of embarked airborne weapon systems (S-3B and SH-60 Helicopters) by providing mission planning, in-flight support and post mission assessment/intelligence collection. CV-TSC provides real time and post mission analysis of relayed or taped acoustic and non-acoustic signals to support CV/CVN USW Self Defense. The system consists of digital computers, commercial workstation displays, mass memories, plotters, acoustic analysis equipment and interface devices. The CV-TSC furnishes timely evaluated USW and SUW information to the Officer in Tactical Command as inputs to the decision making process. Procurement of non-developmental engineering changes to maintain system IT-21 supportability and interoperability with embarked aircraft, airborne sensors, and shipboard interfaces will continue. Naval Undersea Warfare Center (NUWC), Division Keyport has been designated as the Alteration Installation Team (AIT) for all items. Installations will be accomplished at NUWC, the CV-TSC training site at Fleet Combat Training Center Atlantic (FCTCL) Dam Neck, VA, CV-TSC Aboard training site, and on board CV-62 through CVN-75.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: N/A

	FY 2002 & Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT				0.8		0.7		0.7		0.7		0.8		0.8		0.8					5.3
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGINEERING SUPPORT				0.2		0.1		0.1		0.1		0.0		0.0		0.0					0.5
OTHER				0.1		0.0		0.0		0.0											0.1
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST				0.1		0.1		0.2		0.2		0.2		0.2		0.2					1.3
TOTAL PROCUREMENT		0.0		1.2		0.9		1.0		1.0		1.0		1.0		1.0		0.0			7.2

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CVN MODIFICATION TITLE: CV-TSC

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Shipyards & AITs

ADMINISTRATIVE LEADTIME: 3 Months

PRODUCTION LEADTIME: _____

CONTRACT DATES: FY 2002: _____ FY 2003: _____ FY 2004: _____ FY 2005: _____

DELIVERY DATE: FY 2002: _____ FY 2003: _____ FY 2004: _____ FY 2005: _____

(\$ in Millions)

Cost:	FY 2002 & Prior				FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete*		Total			
	Qty	\$			Qty	\$	Qty	\$	Qty	\$														
FY 2002 and PRIOR YEARS	Var				Var																	0	0.0	
FY 2003 EQUIPMENT					Var	0.1																	0	0.1
FY 2004 EQUIPMENT							1	0.1															1	0.1
FY 2005 EQUIPMENT									1	0.2													1	0.2
FY 2006 EQUIPMENT											1	0.2											1	0.2
FY 2007 EQUIPMENT													Var	0.2									0	0.2
FY 2008 EQUIPMENT															Var	0.2							0	0.2
FY 2009 EQUIPMENT																	Var	0.20					0	0.2
TO COMPLETE *																					TBD	TBD	TBD	TBD

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				IC*	TOTAL				
		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						
In	0	0	0	var	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	var	0	0	0	var	0	0	0	var	0	0	0	var	0	TBD	TBD
Out	0	0	0	0	var	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	var	0	0	0	var	0	0	0	var	0	0	0	var	TBD	TBD

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: CV-TSC SNEATT

DESCRIPTION/JUSTIFICATION:

AN FY 03 Congressional plus-up was authorized to provide additional Surface Network Embedded Analysis and Tactical Trainer (SNEATT) capabilities that will be integrated into CV-TSC systems. This effort will enhance operator and maintenance training, improve USW signal detection capabilities, and provide battle group USW platform interoperability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **N/A**

	<u>FY 2002 & Prior</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>To Complete</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT				2.7																	2.7
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGINEERING SUPPORT				0.5																	0.5
OTHER																					0.0
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST																					0.0
TOTAL PROCUREMENT		0.0		3.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0			3.2

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: Surface Sonar Windows and Domes

DESCRIPTION/JUSTIFICATION:

AN/SQS-26/53 Sonar Dome Rubber Windows (SDRW) are installed in CG47, DDG51, and DD963 class ships. This program provides emergency replacement wire-reinforced, pressurized rubber acoustic windows which experience failure due to corrosion, fatigue, and impact in the splice region. The SDRW significantly improves the surface ship sonar performance by reducing flow-induced self-noise, and by providing increased source level receiving and sensitivity resulting from reduced attenuation. AN/SQS-56 Sonar Rubber Domes (SRD) are installed in FFG7 class ships. This program provides emergency replacement SRD for AN/SQS-56 active/passive duct sonar systems. Production engineering support provides technical evaluation, failure analyses, implementation of the inwater one-side backscatter xray program, GFE refurbishments, and field service engineering .

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **N/A**

	FY 2002 & Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT				1.7		3.3		3.6		3.8		3.9		4.0		4.1					24.2
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGINEERING SUPPORT				1.1		1.1		1.2		1.2		1.2		1.2		1.2					8.1
OTHER																					0.0
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST																					0.0
TOTAL PROCUREMENT		0.0		2.8		4.4		4.8		5.0		5.1		5.2		5.3		0.0			32.6

P3A

INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: Expeditionary Strike Forces (ESFs) TYPE MODIFICATION: Added Capability MODIFICATION TITLE: Common Undersea Picture (CUP)

DESCRIPTION/JUSTIFICATION:

Funding identified provides for the procurement and installation of CUP capability on ESF platforms and supporting shore nodes as permanent alterations, and will support periodic technology refresh of CUP hardware/software to keep capabilities concurrent with leading COTS technology.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: CUP Engineering Development Model (EDM) (R&D PE 0604518N/ Project 3094) installed on Carrier Strike Group 4Q04

	<u>FY 2002 & Prior</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>To Complete</u>		<u>Total</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<u>RDT&E</u>																					
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT							2	1.7	2	2.3	2	1.3	2	1.7					8		7.0
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER - ECPs																					0.0
OTHER - ENGR SUPT																					0.0
OTHER																					0.0
INTERIM CONTRACTOR SUPPORT																					0.0
INSTALL COST							2	6.2	2	5.8	2	4.5	2	4.7					8		21.2
TOTAL PROCUREMENT		0.0				0.0	0.0	7.9	8.1	5.8	6.4	0.0	0.0					0.0			28.2

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: Expeditionary Strike Forces (ESFs) MODIFICATION TITLE: Common Undersea Picture (CUP)

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 1 Month PRODUCTION LEADTIME: 2 Months

CONTRACT DATES: FY 2002: _____ FY 2003: _____ FY 2004: _____ FY 2005: _____

DELIVERY DATE: FY 2002: _____ FY 2003: _____ FY 2004: _____ FY 2005: _____

(\$ in Millions)

Cost:	FY 2002 & Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total				
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$			
FY 2002 and PRIOR YEARS																				0	0.0		
FY 2003 EQUIPMENT																					0	0.0	
FY 2004 EQUIPMENT																					0	0.0	
FY 2005 EQUIPMENT								2	6.2												2	6.2	
FY 2006 EQUIPMENT										2	5.8											2	5.8
FY 2007 EQUIPMENT												2	4.5									2	4.5
FY 2008 EQUIPMENT														2	4.7							2	4.7
FY 2009 EQUIPMENT																						0	0.0
TO COMPLETE																						0	0.0

INSTALLATION SCHEDULE:

	FY 2002 & Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				TC	TOTAL
		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		
In	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	8
Out	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	8