

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: FEBRUARY 2004					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment							P-1 ITEM NOMENCLATURE OTHER TRAINING EQUIPMENT/BLI: 2762					
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	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A		
COST (In Millions)	244.6			21.5	52.1	42.9	18.9	8.6	6.2	7.5		402.3
SPARES COST (In Millions)												0.0
<p>The equipment procured under the Other Training Equipment for NAVSEA line supports various types of Communication and Electronic training requirements: Procures sustaining and training equipment/systems, training aids and logistic support equipment to support Fleet training requirements.</p> <p>(MB032) SUSTAINING TECHNICAL TRAINING EQUIPMENT</p> <p>Funds procure Communication and Electronic Technical Training Equipment (TTE) identified by the Chief of Naval Education and Training (CNET) and the Surface Warfare Training Requirements Review (SWTRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.</p> <p>(MB040) BATTLE FORCE TACTICAL TRAINING (BFTT)</p> <p>Funds will procure equipment/systems to support the Battle Force Tactical Training (BFTT) Program, which will provide the capability for coordinated shipboard combat system team and Battle Group/Battle Force (BG/BF) training in port. BFTT will provide realistic joint warfare training across the spectrum of armed conflict, realistic unit level team training in all warfare areas, a means to link ships together which are in different homeports for coordinated training, external stimulation of shipboard training systems and simulation of non-shipboard forces such as friendly, neutral, and enemy ships, aircraft and submarines. BFTT will use a distributed architecture in order to integrate existing on-board/embedded trainers, and will utilize Distributed Interactive Simulation (DIS) protocols to provide Battle Group/Force Commanders with the ability to conduct coordinated, realistic, high stress, interactive combat system training.</p> <p>In FY 03 the projected Baseline Procurement consists of one full BFTT system for (1) CV/CVN Class, (3) CG Class, (3) DDG 51 Class ships, and ILS/Spares.</p> <p>In FY 04 the projected Baseline Procurement consists of one full BFTT system for (1) CV/CVN Class, (3) CG 47 Class, (1) LHD Class, (2) LHA 1 Class, and (3) DDG 51 Class ships. One BFTT/TSSS/BEWT/ATC OBT/Link System for the CVN 76, (7) BFTT/TSSS Systems for the FFG 7 Class.</p>												

P-1 SHOPPING LIST

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION		DATE: FEBRUARY 2004
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment	P-1 ITEM NOMENCLATURE OTHER TRAINING EQUIPMENT/BLI: 2762	
<p>In FY 05 the projected Baseline Procurement consists of one full BFTT system for (6) CG 47 Class, (1) LHD Class, and (1) LHA Class ship, (5) BFTT/TSSS Systems for the FFG 7 Class, ILS/Spares/acceleration, and (11) Trainer Stimulator-Simulator System (TSSS) units.</p> <p>(MB044) TRAINING SUPPORT EQUIPMENT/SUB This line procures submarine Fleet and team trainers sustaining equipment and systems which emulate ship characteristic/models as approved by the CNO. Representative training systems include, but are not limited to: Acoustic Analysis Trainers (AAT), the Virtual Environment Submarine (VESUB), Submarine Piloting and Navigation Trainers (SPAN) and Reconfigurable SPAN identified by the Submarine Learning Center (SLC) for training activities, which are approved by the CNO. Supports training support equipment requirements identified by the Submarine Learning Center (SLC)/CNO for training activities.</p> <p>(MB050) SUBMARINE SONAR EMPLOYMENT TRAINER (SET) The SET provides acoustic operator employment Fleet and team training for submarine sonar systems. It uses entirely commercial components to contain contact and environment models, simulations of the sensors and signal processing, simulated operator consoles, and an instructional subsystem including an instructor's console. FY00 procured a SET system for the Naval Submarine School at Groton, CT. The SET will support Sensor/Combat Systems programs of all currently deployed submarine classes, and will be a critical part of the training plans of the new SSN, Virginia, class in the future. The SET will be an essential component of an emerging shore based training system that will support the projected technology in the Fleet systems that are designed to meet current and future threats: the Acoustics, Rapid Commercial-Off-The-Shelf (COTS) Insertion (A-RCI) and C3I. The design concept for SET is based on the widely recognized and proven successful Interactive Multisensor Acoustic Trainer (IMAT) visualization and simulation technologies.</p> <p>The SET will be part of the solution to a deficiency in operator competence and data recognition due to a lack of employment training by its use of 3-D graphics, animation, audio, and scientific visualization methods to illustrate highly complex displays and concepts of oceanographic physics. The demands of curriculum and student throughput at the primary submarine training site at NAVSUBSCOL, Groton dictates the number and configuration of trainers provided by the N77 budgets, including the SET.</p> <p>FY05 Procures technical insertion of hardware to accommodate the latest deployed version of the Combat System or Acoustic Advanced Processing Build (APB).</p> <p>(MB054) RADAR/ECS TRAINERS/EQUIPMENT This line procures electronics trainers for SSNs such as radar, and exterior communications (ECS).</p> <p>(MB056) SUBMARINE MULTI RECONFIGURABLE TRAINING SYSTEM / GENERAL SKILLS TRAINING (SEA 08) This line procures Electronic Classrooms (ECR) to support general skills training.</p> <p>NAVY SMART TARGET PROGRAM (FY 04 NAVAIR Congressional Add \$1.6M): Congress provided funding for Navy Smart Targets to provide a realistic visual, infrared and radio frequency simulation of threat systems. Smart Targets are used to provide training for the operators of airborne and ship board weapon systems. Smart Target Threats provide the diversity of threats required to accomplish the realistic integrated air defense training that is planned for Southern California Off Shore Range's (SCORE's) Sam Clemente Island (Adversary Island). This funding provides three (3) Smart Target systems.</p>		

P-1 SHOPPING LIST

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System									DATE: FEBRUARY 2004			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 Communications and Electronic Equipment				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Other Training Equipment/A2MB											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY2003			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	
	<u>EXPEDITIONARY WARFARE (N75)</u>															
MB040	Battle Force Tactical Training (BFTT)		9,480				1,078				0					0
	BFTT Air Traffic Control (ATC) Upgrades		2,800													
MB040	<u>AIR WARFARE (N78)</u>		0								4,255					0
	<u>SURFACE WARFARE (N76)</u>															
MB032	Surface Sustaining/TTE		519				57				45					59
MB040	Battle Force Tactical Training (BFTT)		198,614				14,635				39,244					35,789
	Tactical Communication On-Board Trainer		4,500													
	<u>SUBMARINE WARFARE (N77)</u>															
MB041	Submarine Synthetic Warfare, CTTM,EC		4,128													
MB044	Training Support Equipment / Sub		13,700				5,694				5,196					2,457
	Minor Training Support Equipment						(242)				(1731)					(760)
	VESUB						583	2	1166		620	1	620			(0)
	SPAN						1,063	2	2126		950	2	1900		1	1,000
	Reconfigurable SPAN						1,200	1	1200				(0)			
	IUSS Maintenance Trainer										250	1	250			(250)
	Acoustic Analysis Trainer						480	2	960		695	1	695		1	697
MB050	SUBMARINE SONAR EMPLOYMENT															
	TRAINER (SET)		9,292								0					1,773
MB054	Radar/ECS Training		1,554								0					68
MB056	MRTS/ Gen Skills Trng (SEA 08)		0								1,802					2,767
MB058	<u>AIR WARFARE (N78)</u>		0								0					0
	Subtotal (N75/N76)		215,913				15,770				39,289					35,848
	Subtotal (N77)		28,674				5,694				6,998					7,065
	Subtotal (N78)		0				0				4,255					0
			244,587				21,464				50,542					42,913

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WEAPONS SYSTEM COST ANALYSIS P-5				WEAPONS SYSTEM									DATE: February 2004					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 Communications and Electronic Equipment				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD 42MB OTHER TRAINING EQUIPMENT													
COST CODE	ELEMENT OF COST	ID Code	Prior Years	FY 2002			FY 2003			FY2004			FY2005					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
			SC704	CONGRESSIONAL ADDS NAVY SMART TARGET														
SC831	PRODUCTION ENGINEERING, OTHER	N/A	0															
SC860	ACCEPTANCE TEST & EVALUATION	N/A	0															
SC900	INSTALLATION OF EQUIP-NON FMP	N/A	0															
SC971	ILS, OTHER RANGES	N/A	0															
SCVAR	VARIOUS 1/		0															
			0				0									1,609		0

P-1 SHOPPING LIST

ITEM NO.

56

PAGE NO. 4

TRIS funding in FY 2003 totals \$32.138M.

UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE		
								FEBRUARY 2004		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					Other Training Equipment				A2MB	
BA-2 Communications and Electronic Equipment										
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
FY 2003										
MB040										
ILS/SPARES	MULTIPLE	72	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	11/02	02/03	YES	
CV/CVN CLASS P/I/T/D	1	2366	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/03	05/03	YES	
DDG 51 CLASS P/I/T/D	3	2248	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/03	05/03	YES	
CG 47 CLASS P/I/T/D	3	2177	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/03	04/03	YES	
MB044										
TSE	MULTIPLE	VARIOUS	NAWC/TSD	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	YES	
VESUB	2	583	NAWC/TSD	9/16/98	C/FFP	RDR, INC.	02/03	09/03	YES	
SPAN	2	1063	NAWC/TSD	N/A	WX	NAWC/TSD	02/03	08/04	YES	
Reconfigurable SPAN	1	1200	NAWC/TSD	N/A	WX	NAWC/TSD	02/03	04/04	NO	08/02
Acoustic Analysis Trnr	2	480	NSWC/CD	08/00	WX/RX	NSWC/CD	02/03	06/04	YES	
D. REMARKS										

UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE FEBRUARY 2004			
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 Communications and Electronic Equipment					C. P-1 ITEM NOMENCLATURE Other Training Equipment					SUBHEAD A2MB	
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	
FY 2004 MB040											
CG 47 CLASS P/I/T/D	3	2187	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
DDG 51 CLASS P/I/T/D	3	2300	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
LHD 1 CLASS P/I/T/D	1	2142	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
CV/CVN CLASS P/I/T/D	1	2400	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
LHA 1 CLASS P/I/T/D	2	2686	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
FFG 7 CLASS BFTT/TSSS	7	2267	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
CVN 76 BFTT/TSSS/BEWT/ ATC OBT/LINK	1	4255	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/04	05/04	YES		
MB044											
TSE	MULTIPLE	VARIOUS	NAWC/TSD	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	YES		
VESUB	1	620	NAWC/TSD	VARIOUS	VARIOUS	VARIOUS	11/03	09/05	YES		
SPAN	2	950	NAWC/TSD	N/A	WX	NAWC/TSD	11/03	08/04	YES		
IUSS Maintenance	1	250	NAWC/TSD	N/A	WX	NAWC/TSD	11/03	02/05	NO	TBD	
Acoustic Analysis Trmr	1	695	NSWC/CD	N/A	WX	NSWC/CD	11/03	11/04	YES		
MB056											
MRTS	1	1802	NAWC/TSD	N/A	WX	NAWC/TSD	11/03	08/05			
D. REMARKS											

UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE		
								FEBRUARY 2004		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					Other Training Equipment				A2MB	
BA-2 Communications and Electronic Equipment										
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
FY 2005										
MB040										
CG 47 CLASS P/I/T/T/D	6	2265	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/05	05/05	YES	
LHA CLASS P/I/T/T/D	1	2781	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/05	05/05	YES	
LHD 1 CLASS P/I/T/T/D	1	2210	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/05	05/05	YES	
FFG 7 CLASS BFTT/TSSS	5	2267	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	02/05	05/05	YES	
ILS/Spares/Acceleration	MULTIPLE	98	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	11/04	02/05	YES	
STIM/SIM	11	525	GOVWORKS	VARIOUS	VARIOUS	VARIOUS	03/05	06/05	YES	
MB044										
TSE	MULTIPLE		NAWC/TSD	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	YES	
SPAN	1	1000	NAWC/TSD	N/A	WX	NAWC/TSD	02/05	04/06	YES	
Acoustic Analysis Trnr	1	697	NSWC/CD	N/A	WX	NSWC/CD	02/05	06/06	YES	
MB056										
MRTS	2	725	NAWC/TSD	N/A	WX	NAWC/TSD	02/05	11/05	YES	
SEA 08 ECRs	1	1317	NAVSEA	N/A	SS/CPF	GD/EB, Groton CT	12/04	05/05	YES	
D. REMARKS										

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						WEAPON SYSTEM	A. DATE February 2004				
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 COMMUNICATIONS AND ELECTRONICS EQUIPMENT					C. P-1 ITEM NOMENCLATURE OTHER TRAINING EQUIPMENT				SUBHEAD 42MB		
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	IF NO WHEN AVAILABLE	
CONGRESSIONAL ADDS <u>SC704 NAVY SMART TARGET</u> 2004	3	536.3K	GSA- San Diego	11/3	FFP	SenSyTech, CA	3/04	1/05	YES	NA	

P-1 SHOPPING LIST

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TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2								B. P-1 ITEM NOMENCLATURE AN/USQ-T46 BFTT								C. DATE Feb-04												
	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				LATER				
	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
ACTIVE FORCE INVENTORY (P)	68	0	3	4	0	4	5	9	0	4	4	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCHOOLS/OTHER TRAINING (P)	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER (P)																																	
TOTAL PHASED REQ (C)	79	79	82	86	86	90	95	104	104	108	112	117	117	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
ASSETS ON HAND (BP)	0																																
DELIVERY FY 02 & PRIOR (P)	79																																
FY 03 (P)	0	0	3	4																													
FY 04 (P)					0	4	5	9																									
FY 05 (P)									0	4	4	5																					
FY 06 (P)													0	0	1	0																	
FY 07 (P)																	0	0	0	0													
FY 08 (P)																					0	0	0	0									
To Complete (P)																									0	0	0	0					0
TOTAL ASSETS (C)	79	79	82	86	86	90	95	104	104	108	112	117	117	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
QTY OVER (+) OR SHORT (-)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. REMARKS	E. RQMT (QTY)				TOTAL RQMT				INSTALLED				ON HAND AS OF 7/1/03				FY 99 & PRIOR UNDELIVERED				UNFUNDED												
	1. APPN - OPN				123				123				79				7				0				0								
	2. APPN -																																
	3. PROCUREMENT LEADTIME				ADMIN				INITIAL ORDER				REORDER																				
N/A				6 Mont				6 Mont				6 Months																					

DD for 2447, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT AN/USQ-T46 BFTT								DATE Feb-04			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 Communications and Electronic Equipment								Installing Agent N/A											
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR					
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY				
FY 2003								FY 2004											
					3		4					4		5	9				
FY 2005								FY 2006											
			4		4		5					0		1	0				

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 56 PAGE NO. 10

UNCLASSIFIED

CLASSIFICATION:

UNCLASSIFIED

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT AN/USQ-T46 BFTT								DATE Feb-04			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2 Communications and Electronic Equipment								Installing Agent N/A											
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR					
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY				
FY 2007								FY 2008											
					0		0												
FY 2009																			

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO. 56

PAGE NO. 11

UNCLASSIFIED