

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2002  
AMENDED BUDGET SUBMISSION



JUSTIFICATION OF ESTIMATES  
JUNE 2001

OTHER PROCUREMENT, NAVY  
BUDGET ACTIVITY 4

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2002 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

JUNE 2001

APPROPRIATION: OTHER PROCUREMENT, NAVY

ACTIVITY -----	FY 2000 -----	FY 2001 -----	FY 2002 -----
01. SHIPS SUPPORT EQUIPMENT	899.4	619.7	742.0
02. COMMUNICATIONS AND ELECTRONICS EQUIPMENT	1,932.7	1,556.7	1,411.9
03. AVIATION SUPPORT EQUIPMENT	246.5	257.7	228.4
04. ORDNANCE SUPPORT EQUIPMENT	629.1	470.4	663.2
05. CIVIL ENGINEERING SUPPORT EQUIPMENT	63.9	108.4	84.3
06. SUPPLY SUPPORT EQUIPMENT	147.6	150.1	512.0
07. PERSONNEL AND COMMAND SUPPORT EQUIPMENT	104.3	109.9	221.6
08. SPARES AND REPAIR PARTS	260.6	206.4	234.1
TOTAL OTHER PROCUREMENT, NAVY	4,284.1	3,479.3	4,097.6

UNCLASSIFIED

DEPARTMENT OF THE NAVY  
FY 2002 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: JUNE 2001

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2000		FY 2001		FY 2002		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 01: SHIPS SUPPORT EQUIPMENT									
SHIP PROPULSION EQUIPMENT									
1	LM-2500 GAS TURBINE	A		6.7		6.9		7.1	U
2	ALLISON 501K GAS TURBINE	A		8.2		6.2		6.9	U
PROPELLERS									
3	SUBMARINE PROPELLERS	A				3.7		4.5	U
NAVIGATION EQUIPMENT									
4	OTHER NAVIGATION EQUIPMENT	A		94.5		50.0		45.9	U
UNDERWAY REPLENISHMENT EQUIPMENT									
5	UNDERWAY REPLENISHMENT EQUIPMENT	A		14.5		8.3		1.8	U
PERISCOPES									
6	SUB PERISCOPES & IMAGING EQUIP	A		62.2		18.8		29.2	U
OTHER SHIPBOARD EQUIPMENT									
7	FIREFIGHTING EQUIPMENT	A		15.5		16.7		17.5	U
8	COMMAND AND CONTROL SWITCHBOARD	A		17.0		10.4		9.1	U
9	POLLUTION CONTROL EQUIPMENT	B		103.7		47.4		67.0	U
10	SUBMARINE SUPPORT EQUIPMENT	A		51.2		11.3		6.8	U
11	SUBMARINE BATTERIES	A		13.2		12.3		10.9	U
12	STRATEGIC PLATFORM SUPPORT EQUIP	A		20.8		18.0		11.3	U
13	DSSP EQUIPMENT	A		7.8		5.3		7.5	U
14	LCAC	A		4.0		3.5			U
15	MINESWEEPING EQUIPMENT	A		20.5		16.4		20.2	U

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DATE: JUNE 2001

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2000		FY 2001		FY 2002		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
16	ITEMS LESS THAN \$5 MILLION	A		125.1		64.9		79.3	U
17	SURFACE IMA	A				2.0			U
18	SUBMARINE LIFE SUPPORT SYSTEM	A		1.8		4.8		4.9	U
	REACTOR PLANT EQUIPMENT								
19	REACTOR COMPONENTS	A		197.4		201.5		208.8	U
	OCEAN ENGINEERING								
20	DIVING AND SALVAGE EQUIPMENT	A		5.4		5.6		5.7	U
21	EOD UNDERWATER EQUIPMENT	B		*					U
	SMALL BOATS								
22	STANDARD BOATS	A		3.2		2.7		32.2	U
	TRAINING EQUIPMENT								
23	OTHER SHIPS TRAINING EQUIPMENT	A		3.8		3.3		16.8	U
	PRODUCTION FACILITIES EQUIPMENT								
24	OPERATING FORCES IPE	A		7.7		19.5		27.5	U
	OTHER SHIP SUPPORT								
25	NUCLEAR ALTERATIONS	A		108.0		80.1		121.1	U
	DRUG INTERDICTION SUPPORT								
26	DRUG INTERDICTION SUPPORT	A		6.9					U
	TOTAL SHIPS SUPPORT EQUIPMENT			899.4		619.7		742.0	
	BUDGET ACTIVITY 02: COMMUNICATIONS AND ELECTRONICS EQUIPMENT								
	SHIP RADARS								
27	AN/SPS-49	A		2.2					U

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C
			FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	
28	RADAR SUPPORT	A		19.8		24.8			U
29	TISS	A		1.8					U
	SHIP SONARS								
30	AN/SQQ-89 SURF ASW COMBAT SYSTEM	A		31.3		14.2		16.6	U
31	SSN ACOUSTICS	A		211.9		111.6		113.0	U
32	UNDERSEA WARFARE SUPPORT EQUIPMENT	A		11.5		2.8		4.3	U
33	SURFACE SONAR WINDOWS AND DOME	A				5.0			U
34	SONAR SUPPORT EQUIPMENT	A		3.0					U
35	SONAR SWITCHES AND TRANSDUCERS	A		13.2		10.6		10.8	U
	ASW ELECTRONIC EQUIPMENT								
36	SUBMARINE ACOUSTIC WARFARE SYSTEM	A		13.0		10.6		12.6	U
37	FIXED SURVEILLANCE SYSTEM	A		16.2		29.6		33.7	U
38	SURTASS	A		7.1		5.5		17.7	U
39	ASW OPERATIONS CENTER	A		4.3		6.2		6.1	U
	ELECTRONIC WARFARE EQUIPMENT								
40	AN/SLQ-32	A		1.9				2.0	U
41	INFORMATION WARFARE SYSTEMS	A		4.0		3.9		2.9	U
	RECONNAISSANCE EQUIPMENT								
42	SHIPBOARD IW EXPLOIT	A		50.3		60.5		57.5	U
43	COMMON HIGH BANDWIDTH DATA LINK	A		35.3					U
	SUBMARINE SURVEILLANCE EQUIPMENT								
44	SUBMARINE SUPPORT EQUIPMENT PROG	A		39.3		17.2		22.9	U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
OTHER SHIP ELECTRONIC EQUIPMENT									
45	NAVY TACTICAL DATA SYSTEM	A		28.8		6.9			U
46	COOPERATIVE ENGAGEMENT CAPABILITY	B		59.4		33.5		77.1	U
47	GCCS-M EQUIPMENT	A		25.6		43.1		61.1	U
48	NAVAL TACTICAL COMMAND SUPPORT SYSTEM	A		57.7		54.4		42.8	U
49	ATDLS	A		18.4		19.0		10.0	U
50	MINESWEEPING SYSTEM REPLACEMENT	A		18.0		12.8		8.9	U
51	SHALLOW WATER MCM	B		11.3		16.2			U
52	NAVSTAR GPS RECEIVERS (SPACE)	A		8.6		9.5		9.9	U
53	ARMED FORCES RADIO AND TV	A		9.4		9.0		14.6	U
54	STRATEGIC PLATFORM SUPPORT EQUIP	A		24.1		15.2		11.4	U
TRAINING EQUIPMENT									
55	OTHER SPAWAR TRAINING EQUIPMENT	A		1.0		1.3		1.8	U
56	OTHER TRAINING EQUIPMENT	A		50.3		29.1		37.2	U
AVIATION ELECTRONIC EQUIPMENT									
57	MATCALs	A		10.6		4.2		1.0	U
58	SHIPBOARD AIR TRAFFIC CONTROL	B		7.4		7.8		8.0	U
59	AUTOMATIC CARRIER LANDING SYSTEM	A		17.9		18.2		15.6	U
60	NATIONAL AIR SPACE SYSTEM	B		34.3		30.0		43.6	U
61	AIR STATION SUPPORT EQUIPMENT	A		8.8		6.6		7.4	U
62	MICROWAVE LANDING SYSTEM	A		5.2		5.0		5.4	U
63	FACSFAC	A		3.6		4.2		1.2	U
64	ID SYSTEMS	A		9.2		14.0		18.3	U

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS						S E C	
			FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST		
65	SURFACE IDENTIFICATION SYSTEMS	A		.6		1.5			U	
66	TAC A/C MISSION PLANNING SYS(TAMPS)	A		20.5		11.8		13.4	U	
OTHER SHORE ELECTRONIC EQUIPMENT										
67	GCCS-M EQUIPMENT ASHORE	A		9.1					U	
68	TADIX-B	A		18.3		6.0			U	
69	NAVAL SPACE SURVEILLANCE SYSTEM	A		7.6		2.7		4.9	U	
70	GCCS-M EQUIPMENT TACTICAL/MOBILE	A		13.7					U	
71	COMMON IMAGERY GROUND SURFACE SYSTEMS	A		40.3		46.2		58.4	U	
72	RADIAC	A		4.2		8.2		7.9	U	
73	GPETE	A		7.6		7.3		4.7	U	
74	INTEG COMBAT SYSTEM TEST FACILITY	A		4.3		4.4		4.5	U	
75	EMI CONTROL INSTRUMENTATION	A		6.4		8.3		5.2	U	
76	ITEMS LESS THAN \$5 MILLION	A		13.9		11.8		6.3	U	
SHIPBOARD COMMUNICATIONS										
77	SHIPBOARD TACTICAL COMMUNICATIONS	A		25.8					U	
78	SHIP COMMUNICATIONS AUTOMATION	A		229.1		184.4		121.2	U	
79	SHIP COMM ITEMS UNDER \$5 MILLION	A		26.8					U	
80	COMMUNICATIONS ITEMS UNDER \$5M	A				43.1		24.3	U	
SUBMARINE COMMUNICATIONS										
81	SHORE LF/VLF COMMUNICATIONS	A		35.1		31.1		17.5	U	
82	SUBMARINE COMMUNICATION EQUIPMENT	A		83.2		77.2		89.3	U	
SATELLITE COMMUNICATIONS										
83	SATCOM SHIP TERMINALS (SPACE)	A		219.4					U	

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
84	SATELLITE COMMUNICATIONS SYSTEMS	A			201.0		198.1		U
85	SATCOM SHORE TERMINALS (SPACE)	A		56.1					U
	SHORE COMMUNICATIONS								
86	JCS COMMUNICATIONS EQUIPMENT	A		3.6	2.4		4.6		U
87	ELECTRICAL POWER SYSTEMS	A					1.3		U
88	NSIPS	A		4.8	1.8		14.2		U
89	JEDMICS	A		16.9	11.9				U
90	NAVAL SHORE COMMUNICATIONS	A		124.1	163.1		66.8		U
	CRYPTOGRAPHIC EQUIPMENT								
91	INFO SYSTEMS SECURITY PROGRAM (ISSP)	A		61.6	58.0		78.2		U
	CRYPTOLOGIC EQUIPMENT								
92	SPECIAL DCP	A			14.8				U
93	CRYPTOLOGIC COMMUNICATIONS EQUIP	A		20.6	17.0		15.6		U
	DRUG INTERDICTION SUPPORT								
94	OTHER DRUG INTERDICTION SUPPORT	A		3.8					U
	TOTAL COMMUNICATIONS AND ELECTRONICS EQUIPMENT			1,932.7	1,556.7		1,411.9		
	BUDGET ACTIVITY 03: AVIATION SUPPORT EQUIPMENT								
	SONOBUOYS								
95	PASSIVE SONOBUOYS (NON-BEAM FORMING)	A		20.1					U
96	AN/SSQ-62 (DICASS)	A		16.6					U
97	AN/SSQ-101 (ADAR)	B		16.6					U
98	SONOBUOYS - ALL TYPES	A			57.5		57.9		U



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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
99	MISCELLANEOUS SONOBUOYS LESS THAN \$5 M	A		2.2					U
	AIRCRAFT SUPPORT EQUIPMENT								
100	WEAPONS RANGE SUPPORT EQUIPMENT	A		22.8		38.7		10.1	U
101	EXPEDITIONARY AIRFIELDS	A		.1		3.2		7.6	U
102	AIRCRAFT REARMING EQUIPMENT	A		12.2		10.5		12.3	U
103	AIRCRAFT LAUNCH & RECOVERY EQUIPMENT	A		39.6		35.8		27.5	U
104	METEOROLOGICAL EQUIPMENT	A		31.6		30.6		29.8	U
105	OTHER PHOTOGRAPHIC EQUIPMENT	A		1.6		1.7		1.7	U
106	AVIATION LIFE SUPPORT	A		36.0		26.2		21.0	U
107	AIRBORNE MINE COUNTERMEASURES	A		39.9		31.8		46.9	U
108	OTHER AVIATION SUPPORT EQUIPMENT	A		7.3		21.7		13.6	U
	TOTAL AVIATION SUPPORT EQUIPMENT			246.5		257.7		228.4	
	BUDGET ACTIVITY 04: ORDNANCE SUPPORT EQUIPMENT								
	SHIP GUN SYSTEM EQUIPMENT								
109	GUN FIRE CONTROL EQUIPMENT	A		6.8		4.4		17.9	U
110	NAVAL FIRES CONTROL SYSTEM	A						.6	U
	SHIP MISSILE SYSTEMS EQUIPMENT								
111	NATO SEASPARROW	A		2.1		8.1		10.7	U
112	RAM GMLS	A		37.9		36.5		31.8	U
113	SHIP SELF DEFENSE SYSTEM	B		37.3		9.3		34.4	U
114	AEGIS SUPPORT EQUIPMENT	A		79.5		29.4		155.1	U
115	SURFACE TOMAHAWK SUPPORT EQUIPMENT	A		79.7		69.3		61.2	U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
116	SUBMARINE TOMAHAWK SUPPORT EQUIP	A		3.5		2.8		3.1	U
117	VERTICAL LAUNCH SYSTEMS	A		5.3		6.9		6.9	U
	FBM SUPPORT EQUIPMENT								
118	STRATEGIC PLATFORM SUPPORT EQUIP	A		9.2		2.9		9.8	U
119	STRATEGIC MISSILE SYSTEMS EQUIP	A		236.7		165.1		205.1	U
	ASW SUPPORT EQUIPMENT								
120	SSN COMBAT CONTROL SYSTEMS	A		35.4		19.4		40.7	U
121	SUBMARINE ASW SUPPORT EQUIPMENT	A		4.1		3.9		5.9	U
122	SURFACE ASW SUPPORT EQUIPMENT	A		6.0		13.1		3.2	U
123	ASW RANGE SUPPORT EQUIPMENT	A		6.3		6.8		6.0	U
	OTHER ORDNANCE SUPPORT EQUIPMENT								
124	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	B		8.8		7.5		9.4	U
125	ITEMS LESS THAN \$5 MILLION	A		4.3		5.6		5.8	U
	OTHER EXPENDABLE ORDNANCE								
126	ANTI-SHIP MISSILE DECOY SYSTEM	A		32.1		37.8		27.5	U
127	SURFACE TRAINING DEVICE MODS	A		7.0		7.9		7.3	U
128	SUBMARINE TRAINING DEVICE MODS	A		27.1		33.7		20.8	U
	TOTAL ORDNANCE SUPPORT EQUIPMENT			629.1		470.4		663.2	
	BUDGET ACTIVITY 05: CIVIL ENGINEERING SUPPORT EQUIPMENT								
	CIVIL ENGINEERING SUPPORT EQUIPMENT								
129	ARMORED SEDANS	A						.4	U
130	PASSENGER CARRYING VEHICLES	A		.6		.1		1.4	U

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2000		FY 2001		FY 2002		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
131	GENERAL PURPOSE TRUCKS	A		2.1		1.0		1.5	U
132	CONSTRUCTION & MAINTENANCE EQUIP	A		5.0		8.2		9.6	U
133	FIRE FIGHTING EQUIPMENT	A		2.3		2.5		5.3	U
134	TACTICAL VEHICLES	B		5.9		20.3		20.2	U
135	AMPHIBIOUS EQUIPMENT	A		15.9		51.1		14.6	U
136	POLLUTION CONTROL EQUIPMENT	A		23.9		22.0		20.0	U
137	ITEMS UNDER \$5 MILLION	A		8.4		3.4		11.3	U
TOTAL CIVIL ENGINEERING SUPPORT EQUIPMENT				63.9		108.4		84.3	
BUDGET ACTIVITY 06: SUPPLY SUPPORT EQUIPMENT									
-----									
SUPPLY SUPPORT EQUIPMENT									
138	MATERIALS HANDLING EQUIPMENT	A		6.3		7.6		8.8	U
139	OTHER SUPPLY SUPPORT EQUIPMENT	A		5.4		5.1		7.5	U
140	FIRST DESTINATION TRANSPORTATION	A		3.1		4.0		5.2	U
141	SPECIAL PURPOSE SUPPLY SYSTEMS	A		132.7		133.4		490.4	U
TOTAL SUPPLY SUPPORT EQUIPMENT				147.6		150.1		512.0	
BUDGET ACTIVITY 07: PERSONNEL AND COMMAND SUPPORT EQUIPMENT									
-----									
TRAINING DEVICES									
142	TRAINING SUPPORT EQUIPMENT	A		3.1		6.7		1.1	U
COMMAND SUPPORT EQUIPMENT									
143	TRAINING SUPPORT EQUIPMENT	A							
144	OTHER TRAINING EQUIPMENT	A							
145	COMMAND SUPPORT EQUIPMENT	A		23.4		22.7		28.8	U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
146	EDUCATION SUPPORT EQUIPMENT	A		3.5				6.6	U
147	MEDICAL SUPPORT EQUIPMENT	A		5.0		7.3		7.7	U
148	INTELLIGENCE SUPPORT EQUIPMENT	A							
149	OPERATING FORCES SUPPORT EQUIPMENT	A		7.3		24.8		15.8	U
150	MOBILE SENSOR PLATFORM	A						4.0	U
151	ENVIRONMENTAL SUPPORT EQUIPMENT	A		18.2		19.1		25.2	U
152	PHYSICAL SECURITY EQUIPMENT	A		7.3		9.5		116.9	U
	PRODUCTIVITY PROGRAMS								
153	JUDGEMENT FUND REIMBURSEMENT	A		4.2					U
	OTHER								
154	CANCELLED ACCOUNT ADJUSTMENTS	A		13.0					U
	TOTAL PERSONNEL AND COMMAND SUPPORT EQUIPMENT			104.3		109.9		221.6	
	BUDGET ACTIVITY 08: SPARES AND REPAIR PARTS								
	SPARES AND REPAIR PARTS								
155	SPARES AND REPAIR PARTS	A		260.6		206.4		234.1	U
	TOTAL SPARES AND REPAIR PARTS			260.6		206.4		234.1	
	TOTAL OTHER PROCUREMENT, NAVY			4,284.1		3,479.3		4,097.6	

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: <b>June 2001</b>				
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy/BA-4 Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>GUN FIRE CONTROL EQUIPMENT (GFCE) - 511000</b>					
Program Element for Code B Items:							Other Related Program Elements					
	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total	
QUANTITY												
COST (In Millions)		<b>\$6.8</b>	<b>\$4.4</b>	<b>\$17.9</b>								
SPARES COST (In Millions)												
<p><b>Description: (U)</b> This program provides for procurement of equipment, materials and Ordnance Alterations (ORDALTs) to improve combat effectiveness of and maintain logistic supportability of Gun Fire Control Systems (GFCS) installed on 65 ships (65 MK 86) and 8 shore installations (8 MK 86).</p> <p><b>UK009 Switchboard ORDALTs</b> - Procures ORDALTs for GFCS MK 86 Switchboards to improve weapon and combat system data switching capability; provides concurrent changes with other ORDALTs; and provides technical documentation upgrades required by interfacing system/equipment ORDALTs.</p> <p><b>UK024 RMA (Reliability, Maintainability and Availability) MK 86</b> - Procures product Improvement ORDALTs for GFCS MK 86 to correct problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production. Installations to be in ship classes with MK 86 configuration. MK 86 ORDALTs were procured in prior years and are being installed in blocks to reduce total installation costs.</p> <p><b>UK039 Night Vision Devices</b>- Procures new Night Vision Devices (NVD) for ships and shore sights. Provides repair or replacement of NVD and NVD Test Equipment.</p> <p><b>UK040 AN/SPQ-9B Radar ORDALT 16666</b> - Procures AN/SPQ-9 improvement ORDALTS (AN/SPQ-9B Radar) to add Anti-Ship Missile Defense (ASMD) capability which increases the radar capability to detect and track low-flying, very small cross-section targets in natural and man-made clutter. Installations to be performed by AIT in the following ship classes: QTY=22 CG-47; QTY=1 Trainer; QTY = 1 LBTS; QTY=8 CVN; QTY=7 LHD; QTY=1 DD-963 class ship; and QTY=1 Processor only at AEGIS Combat System Engineering Development Site (CSEDS).</p> <p><b>UK040 AN/SPQ-9B GFM</b> - U.S. Air Force APG-68 Transmitter used in AN/SPQ-9B Radar configuration.</p> <p><b>UK041 AN/SPQ-9B Non-recurring Production Drawing Package</b> Supports AN/SPQ-9B Radar production drawings and data efforts.</p> <p><b>UK042 ORDALT Kit/Engineering Changes</b> - Procures product improvement ORDALTs; corrects problems reported by fleet units; upgrades unreliable components and replaces obsolete components and parts no longer in production for AN/SPQ-9B Radar ORDALT 16666.</p> <p><b>UK045 Light-Weight (LW) Engineering Change Kits (ECK)</b>- Procurement of Lightweight Engineering Change Kits.</p>												

**UNCLASSIFIED**

CLASSIFICATION:

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<b>BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION</b>		<b>DATE:</b> June 2001
<b>APPROPRIATION/BUDGET ACTIVITY</b> Other Procurement, Navy/BA-4 Ordnance Support Equipment	<b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b> GUN FIRE CONTROL EQUIPMENT (GFCE) - 511000	
<p><b>UK800 AN/SPQ-9B O/A 16666 ILS/Test Support</b> -Supports Developmental and Operational Testing on the DD-963 Class ship and Follow-on Testing to the Lightweight Antenna ORDALT Kit.</p> <p><b>UK830 AN/SPQ-9B Production Support</b>- Supports AN/SPQ-9B Radar program and contractor associated areas.</p> <p><b>UK5IN/UK6IN - Installation of Equipments</b>- Provides funding to install ORDALTs, field changes and other alterations in ships (Fleet Modernization Program - FMP) and shore sites (Non-fleet Modernization Program - NON-FMP)</p>		

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System						DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-4 Ordnance Support Equipment				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD GUN FIRE CONTROL EQUIPMENT (GFCE) - 511000      SUBHEAD: 24UK									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 2000			FY 2001			FY 2002					
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>N864 SPONSOR</u></b>													
	<b>EQUIPMENT</b>													
UK009	Switchboard O/A's MK 86	A			24			0						0
UK024	RMA MK 86				1,212			1,802						828
UK039	Night Vision Devices				451			467						1,508
UK050	GFCE Ordalt Kits				0			0						0
	<b>INSTALL</b>													
UK5IN	Installation of Eqmt.-- FMP (RMA MK 86)				266			361						306
UK6IN	Installation of Eqmt-- NON FMP (RMA MK 86)				95			11						56
	<b><u>N864 SPONSOR TOTAL</u></b>				<b>2,048</b>			<b>2,641</b>						<b>2,698</b>
	<b><u>N865 SPONSOR</u></b>													
	<b>EQUIPMENT</b>													
UK040	AN/SPQ-9B Radar MK 86 O/A 16666	A								3	4,264			12,792
UK041	AN/SPQ-9B N/R Production Drawing Package													
UK040	GFM--APG-68 Radar Transmitter	A								3	341			1,023
UK042	ORDALT Kit/Engineering Changes				1,945									0
UK045	LW ECKs													
UK800	AN/SPQ-9B O/A 16666 ILS/Test Support													
UK830	AN/SPQ-9B Production Support				1,823			1,026						1,205
UK900	AN/SPQ-9B Consulting Services				212			210						208
	<b>INSTALL</b>													
UK5IN	Installation of Eqmt.-- FMP (AN/SPQ-9B)			1	725	725								
UK5IN	Installation of LW Antenna ORDALT Kit - FMP						1	295	295					
UK6IN	Installation of Eqmt -- NON FMP (AN/SPQ-9B)						1	200	200					
UK6IN	Installation of LW Antenna O/A -- NON FMP (AN/SPQ-9B)													
	<b><u>N865 SPONSOR TOTAL</u></b>				<b>4,705</b>			<b>1,731</b>						<b>15,228</b>
					<b>6,753</b>			<b>4,372</b>						<b>17,926</b>

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	Weapon System	A. DATE <b>June 2001</b>
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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy/BA-4 Ordnance Support Equipment</b>	<b>C. P-1 ITEM NOMENCLATURE</b> <b>GUN FIRE CONTROL EQUIPMENT (GFCE) - 5110</b>	<b>SUBHEAD</b> <b>24UK</b>
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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
<b>FISCAL YEAR (00)</b>										
UK040 SPQ-9B Radar	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
UK040 GFM Xmtr	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>FISCAL YEAR (01) *</b>										
UK040 SPQ-9B Radar	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
UK040 GFM Xmtr	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b>FISCAL YEAR (02)</b>										
UK040 SPQ-9B Radar	3	4,264	NAVSEA	Sep-01	SS/FFP	NORDEN SYSTEMS, INC. MELVILLE, NY	NOV 01	MAR 03	YES	
UK040 GFM Xmtr	3	341	NSWC CRANE	Nov-01	MILSTRIP	HILL AIR FORCE ODGEN, UTAH	NOV 01	MAY 02	YES	

D. REMARKS

\* Due to FY01 SSDS ATR, the SPQ-9B FY01 dollar amount reflected is \$5,084K vs. OSD/OMB Control of \$15,503K.



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: MK 86 GFCS Mod 9, 10, 12 TYPE MODIFICATION: N/A MODIFICATION TITLE: AN/SPQ-9B Radar O/A 16666 to MK86 Gun Fire Control System (GFC

DESCRIPTION/JUSTIFICATION:  
 Adds Anti-Ship Missile Defense mode; detects and tracks low-flying, extremely small radar cross-section targets in clutter.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MS IV/II 10/94; CA 10/94; CDR 7/95; DT/OT 10/98; MS III 7/01.**

	FY 1999 & Prio		FY 2000		FY 2001		FY 2002		FY 2003						TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$					QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																	
<i>RDT&amp;E</i>	2	70.6	0	0.5	0	0.0	0	4.9								2	75.9
<i>PROCUREMENT</i>																	
INSTALLATION KITS																	0.0
INSTALLATION KITS - UNIT COST																	
INSTALLATION KITS NONRECURRING																	0.0
EQUIPMENT	2	9.8	0	0.0	0	0.0	2	9.2								4	19.0
EQUIPMENT NONRECURRING	3	9.4														3	9.4
ENGINEERING CHANGE ORDERS		3.0		1.9		0.0		0.0									4.9
DATA						0.0											0.0
TRAINING EQUIPMENT	2	8.9					1	4.6								3	13.5
SUPPORT EQUIPMENT																	0.0
PRODUCTION SUPPORT		5.7		1.8		1.0		1.2									9.7
OTHER (ILS/TEST SUPPORT)		2.6				0.0											2.6
OTHER (CSS)		1.0		0.2		0.2		0.2									1.6
INTERIM CONTRACTOR SUPPORT																	0.0
INSTALL COST		1.2		0.7		0.5		0.0								0	2.5
TOTAL PROCUREMENT		41.5		4.7		1.7		15.2									63.2

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: MK 86 GFCS Mod 9, 1 (MODIFICATION TITLE: AN/SPQ-9B Radar O/A 16666 to MK 86 Gun Fire Control System (GFCS))

INSTALLATION INFORMATION: ALTERATION INSTALLATION TEAM (AIT)

METHOD OF IMPLEMENTATION: \_\_\_\_\_

ADMINISTRATIVE LEADTIME: 2 Months

PRODUCTION LEADTIME: 16 Months

CONTRACT DATES: FY 1999: FEB 1999

FY 2000: N/A

FY 2001: N/A

DELIVERY DATE: FY 1999: JUN 2000

FY 2000: N/A

FY 2001: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003								Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$								Qty	\$	
PRIOR YEARS	1	0.7	1	0.7	2	0.5													4	1.9
FY 2000 EQUIPMENT																			0	0.0
FY 2001 EQUIPMENT																			0	0.0
FY 2002 EQUIPMENT																			0	0.0
FY 2003 EQUIPMENT																			0	0.0
FY 2004 EQUIPMENT																			0	0.0
FY 2005 EQUIPMENT																			0	0.0
FY 2006 EQUIPMENT																			0	0.0
FY 2007 EQUIPMENT																			0	0.0
TO COMPLETE																			0	0.0

INSTALLATION SCHEDULE:

	FY 1999	FY 2000					2001				FY 2002									TOTAL
	& Prior	1	2	3	3	4	1	2	3	4	1	2	3	4						
In	1	0	0	1	0	0	1	1	0	0	0	0	0	0						4
Out	1	0	0	0	0	1	0	1	0	0	0	0	0							4

\* NOTE: \$0.8M reflects three (3) Non-FMP LW Engineering Change Kits

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: GFCs MK 86 TYPE MODIFICATION: Mods 9, 10, 12 MODIFICATION TITLE: MK86; Gun Fire Control Equipment ORDALTs

DESCRIPTION/JUSTIFICATION:  
 Provides Product Capability, Safety, and Survivability with RMA Improvements.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Continuous Improvements to GFCs MK 86

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002		FY 2003						TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$							QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																	
<i>RDT&amp;E</i>																	0.0
<i>PROCUREMENT</i>																	
INSTALLATION KITS	1311	17.3	7	0.5	25	1.1	15	0.6								1358	19.5
INSTALLATION KITS - UNIT COST		0.0		0.0		0.0		0.0									0.0
INSTALLATION KITS NONRECURRING		2.9		0.6		0.7		0.2									4.4
EQUIPMENT																	0.0
EQUIPMENT NONRECURRING																	0.0
ENGINEERING CHANGE ORDERS																	0.0
DATA																	0.0
TRAINING EQUIPMENT																	0.0
SUPPORT EQUIPMENT																	0.0
PRODUCTION SUPPORT																	0.0
OTHER (ILS/TEST SUPPORT)																	0.0
OTHER (CSS)																	0.0
INTERIM CONTRACTOR SUPPORT																	0.0
INSTALL COST	1256	6.2	45	0.3	19	0.4	32	0.4								1352	7.3
TOTAL PROCUREMENT		26.4		1.4		2.2		1.2									31.2

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: GFCS MK 86 MODIFICATION TITLE: MK86; Gun Fire Control Equipment ORDALTs

INSTALLATION INFORMATION: ALTERATION INSTALLATION TEAM (AIT)

METHOD OF IMPLEMENTATION: \_\_\_\_\_

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: \_\_\_\_\_ Months

CONTRACT DATES: FY 2000: N/A FY 2001: N/A FY 2002: N/A

DELIVERY DATE: FY 2000: N/A FY 2001: N/A FY 2002: N/A

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003								Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty								Qty	\$		
PRIOR YEARS	1256	6.2	45	0.3	10	0.2													1311	6.7
FY 2000 EQUIPMENT					7	0.2													7	0.2
FY 2001 EQUIPMENT					2	0.0	23	0.3											25	0.3
FY 2002 EQUIPMENT							9	0.1											9	0.1
FY 2003 EQUIPMENT																			0	0.0
FY 2004 EQUIPMENT																			0	0.0
FY 2005 EQUIPMENT																			0	0.0
FY 2006 EQUIPMENT																			0	0.0
FY 2007 EQUIPMENT																			0	0.0
TO COMPLETE																			0	0.0

INSTALLATION SCHEDULE:

	FY 1999 & Prior	FY 2000				FY 2001				FY 2002										TOTAL
		1	2	3	3	4	1	2	3	4	1	2	3							
In	0	0	0	0	0	0	0	0	0	0	0	0	0							0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0							0

Note: Prior years quantities above reflect total number of ORDALT kits installed. Beginning in FY95, ORDALTs have been procured, packaged, and installed in sets to lower overall ship unit costs.

- MK86 BASELINE ORDALTs: 13 (FY94 & Prior)
- MK86 BLOCK 1 UPGRADE ORDALTs: 4 (FY95)
- MK86 BLOCK 2 UPGRADE ORDALTs: 5 (FY96)
- MK86 RMA-1 UPGRADE ORDALTs: 3 (FY97 - FY00)
- MK86 RMA-2 UPGRADE ORDALTs: 5 (FY01- FY05)

CLASSIFICATION:

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**BUDGET ITEM JUSTIFICATION SHEET  
P-40**

DATE:  
**June 2001**

APPROPRIATION/BUDGET ACTIVITY  <b>Other Procurement, Navy / BA-4: OTHER WEAPONS</b>	P-1 ITEM NOMENCLATURE <b>BLI: 5112 NAVAL FIRES CONTROL SYSTEM/ LAND ATTACK MISSILE FIRE CONTROL SYSTEM</b>
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Program Element for Code B Items:	Other Related Program Elements
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	Prior Years	ID Code	FY 2000	FY 2001	FY 2002						
QUANTITY											
<b>COST (\$M)</b>			\$0.0	\$0.0	\$0.6						
<b>Initial Spares (\$M)</b>											

Land Attack Missile Fire Control System (LAM FCS) is one of the three components of the Land Attack Missile Weapon System (LAM WS). The LAM FCS develops firing solutions, performs initializations, control, and launch the Land Attack Missiles. The MK 41 Vertical Launch System (VLS) and the Missile are the other two components of the LAM WS.

Naval Fires Control System (NFCS) is an automated mission planning and coordination system for Naval Surface Fire Support (NSFS) Weapons. NFCS will plan and coordinate the firing of the new NSFS weapon systems including the 5"/62 caliber gun and the Land Attack Missile (LAM) and LAM Fire Control.

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System									DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-4				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD NAVAL FIRES CONTROL SYSTEM / LAND ATTACK MISSILE FIRE CONTROL SYSTEM 5112 (14FC)												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002							
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost					
FC001	NFCS Phase I+																
FC002	LAM FCS												1	100	100		
FC003	VLS (Baseline V/VI)												1	100	100		
FC004	VLS (Baseline III)												1	400	400		
			0			0			0						600		

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE <b>June 2001</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy/BA-4 Ordnance Support Equipment</b>					C. P-1 ITEM NOMENCLATURE <b>NAVAL FIRES CONTROL SYSTEM / LAND ATTACK MISSILE FIRE CONTROL SYSTEM 5112 (14FC)</b>					SUBHEAD
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
<b>NFCS Phase 1+</b> FY2002	1	100	TBD	NOV-01	CPAF	UNKNOWN	FEB-02	FEB-03	NO	JUL-01
<b>LAM FCS</b> FY2002	1	100	TBD	NOV-01	CPAF	UNKNOWN	FEB-02	FEB-03	NO	JUL-01
<b>VLS (Baseline V/VI)</b> FY2002	1	400	TBD	NOV-01	CPAF	UNKNOWN	FEB-02	FEB-03	NO	JUL-01
D. REMARKS										

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: \_\_\_\_\_ TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: Naval Fires Control System Phase I +

DESCRIPTION/JUSTIFICATION:  
 Naval Fires Control System Phase 1+ will be embedded in Tactical TOMAHAWK Weapons Control System (TTWCS) along with the Land Attack Fire Control System (LAM FCS) to makeup the Surface Combatant Common Land Attack Warfare System (SC CLAWS) which will be installed on CG-52 to 73 and DDG-79 to 107.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	\$	QTY	\$	QTY	\$	QTY	\$														
<b>FINANCIAL PLAN (IN MILLIONS)</b>																						
<i>RDT&amp;E</i>																						
<i>PROCUREMENT</i>																						
INSTALLATION KITS	0	0.0	0	0.0	0	0.0	1	0.1														
INSTALLATION KITS - UNIT COST								0.1														
INSTALLATION KITS NONRECURRING EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
PRODUCTION SUPPORT																						
OTHER (ILS/TEST SUPPORT)																						
OTHER (CSS)																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST				0.0																		
TOTAL PROCUREMENT		0.0		0.0		0.0	1	0.1														





CLASSIFICATION: **UNCLASSIFIED**

P3A

**INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: \_\_\_\_\_ TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: VLS

DESCRIPTION/JUSTIFICATION:

The MK 41 VLS will be modified to implement the Land Attack Missile Fire Control System (LAM FCS). The VLS will be installed on CG-52 to 73 and DDG-79 to 95.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<b>FINANCIAL PLAN (IN MILLIONS)</b>																							
<i>RD&amp;E</i>																							
<i>PROCUREMENT</i>																							
INSTALLATION KITS	0	0.0	0	0.0	0	0.0	1	0.4															
INSTALLATION KITS - UNIT COST*							1	0.4															
INSTALLATION KITS - UNIT COST**																							
INSTALLATION KITS NONRECURRING EQUIPMENT																							
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
PRODUCTION SUPPORT																							
OTHER (ILS/TEST SUPPORT)																							
OTHER (CSS)																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST				0.0																			
TOTAL PROCUREMENT		0.0		0.0		0.0	1	0.4															

\*Baseline V/VI

\*\*Baseline III

P3A (Continued)

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: \_\_\_\_\_ MODIFICATION TITLE: VLS

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: \_\_\_\_\_

ADMINISTRATIVE LEADTIME: \_\_\_\_\_

PRODUCTION LEADTIME: 24 Months

CONTRACT DATES: FY 2000: \_\_\_\_\_

FY 2001: \_\_\_\_\_

FY 2002: \_\_\_\_\_

DELIVERY DATE: FY 2000: \_\_\_\_\_

FY 2001: \_\_\_\_\_

FY 2002: \_\_\_\_\_

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002												
	Qty	\$	Qty	\$	Qty	\$	Qty	\$			\$								
PRIOR YEARS				0.0		0.0		0.0											
FY 2000 EQUIPMENT				0.0		0.0		0.0											
FY 2001 EQUIPMENT																			
FY 2002 EQUIPMENT																			
FY 2003 EQUIPMENT																			
FY 2004 EQUIPMENT																			
*FY 2005 EQUIPMENT																			
*FY 2006 EQUIPMENT																			
*FY 2007 EQUIPMENT																			
*TO COMPLETE																			

INSTALLATION SCHEDULE:

	FY 1999 & Prior	FY 2000				FY 2001				FY 2002									
		1	2	3	4	1	2	3	4	1	2	3	4						
In	0	0	0	0	0	0	0	0	0	0	0	0	0						
Out	0	0	0	0	0	0	0	0	0	0	0	0	0						

P-3A

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: <b>JUNE 2001</b>				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA4 ORDNANCE SUPPORT EQUIPMENT</b>							P-1 ITEM NOMENCLATURE <b>NATO SEASPARROW - 523700</b>					
Program Element for Code B Items:							Other Related Program Elements <b>Ship Self Defense 0604755N Proj 20173</b>					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)			<b>\$2.1</b>	<b>\$8.1*</b>	<b>\$10.7</b>						<b>CONT</b>	<b>CONT</b>
SPARES COST (In Millions)												
<p><b>NATO SEASPARROW Surface Missile System (NSSMS)</b> NATO SEASPARROW is a Self Defense AAW Shipboard Missile System.</p> <p>Primary operations consist of:</p> <ul style="list-style-type: none"> <li>- Acquiring targets from external or internal designations</li> <li>- Establishing track data for Engageability Determination and Launcher/Missile Control</li> <li>- Target Illumination for Missile Guidance</li> <li>- Missile Firing</li> <li>- Kill/Survive Assessment</li> </ul> <p>Provides fully automatic operation with provisions for Operator Intervention or Override from the time of Target Designation to Missile Away. The NSSMS consists of a Fire Control System comprised of Directors; a General Purpose Digital Computer; Signal Data Converters; Transmitter Group; Operating Consoles, and an 8 Cell Launcher, which employs the surface launch variant of the Sparrow Missile. The Surface Launch Version (RIM-7) uses a Radar Homing Guidance System, with Target Illumination provided by the shipboard MK91 System Radar Directors.</p> <p>When NSSMS is combined with the MK23 Target Acquisition System (TAS), they become the AN/SWY-1 Self Defense Surface Missile System for the following U.S. Navy Ships: AOE/AORs, DD963s, Self Defense Test Ship, and shore based facilities. When the MK23 TAS is combined with RAM it becomes AN/SWY-2 on the LHA's. When NSSMS and TAS and RAM are combined it becomes the AN/SWY-3 on CV/CVNs and LHDs.</p> <p>The NSSMS is a NATO Cooperative Project with 13 participating governments; Australia, Belgium, Canada, Denmark, Germany, Greece, Italy, Norway, The Netherlands, Portugal, Spain, Turkiye and the United States. The NSSMS and associated systems of the Cooperative Project were developed, produced and are supported under DoD/MoD level International Memorandum of Understanding (MOU).</p> <p>The NATO Cooperative Project is currently in the Engineering, Manufacturing and Development Phase (EMD) for the Evolved SEASPARROW Missile (ESSM) and associated NSSMS/MK91 Fire Control modifications. The ESSM is currently covered by two MOUs, one for EMD and one for Production.</p> <p>*FY 2001 value reflects proposed Above Threshold Reprogramming to the Ship Self Defense Program (RD TEN PE: 0604755N Project: K2178).</p>												

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<b>BUDGET ITEM JUSTIFICATION SHEET</b> <b>P-40 CONTINUATION</b>	DATE: <b>JUNE 2001</b>
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APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY / BA 4: Ordnance Support Equipment</b>	P-1 ITEM NOMENCLATURE/LINE ITEM # <b>NATO SEASPARROW / 523700</b>
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FY 2000 provided for part of the U.S. share of consortium effort. The remainder was provided via FY99 funding and FY00 BTR.

The FY 2001 funding provides for initial development of interactive course-ware (ICW), interactive technical manuals (ITM) and a systems evaluation and training (SEAT) capability. It provides for engineering changes necessary to keep the MK 91 NATO SEASPARROW Guided Missile Fire Control System (GMFCS) ReArchitecture upgrades current with technical change requirements and obsolescence issues. This funding also provides for the U.S. share of consortium efforts.

The FY 2002 funding provides for the remaining development of ICW, ITMs and a SEAT capability. It provides for engineering changes necessary to keep the MK 91 NATO SEASPARROW GMFCS ReArchitecture upgrades current with technical change requirements and obsolescence issues. This funding also provides for the U.S. share of consortium efforts.

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System				DATE: <b>JUNE 2001</b>							
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA-4 Ordnance Support Equipment</b>				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD <b>NATO SEASPAROW / 24US</b>										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
<b>US003</b>	<b>NSSMS IMPROVEMENTS/ CONSORTIUM SUPPORT</b>					<b>1,311</b>			<b>4,224</b>			<b>4,182</b>			
<b>US004</b>	<b>MK 91 RESEARCH SYSTEM MODIFICATION</b>							<b>2,540</b>			<b>6,152</b>				
<b>US00X</b>	<b>AVT-RNSSMS</b>							<b>993</b>							
<b>US005</b>	<b>TAS</b>				<b>817</b>										
<b>US900</b>	<b>CSS</b>							<b>334</b>			<b>336</b>				
<b>US5IN</b>	<b>EQUIPMENT INSTALLATION</b>														
<b>TOTAL</b>						<b>2,128</b>			<b>8,091</b>			<b>10,670</b>			

**UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NATO SEASPARROW TYPE MODIFICATION: Performance, Reliability and Safety MODIFICATION TITLE: MK 91 REARC & Transmitter  
 Surface Missile Systems

DESCRIPTION/JUSTIFICATION:

The MK 91 NATO Seasparrow ReArchitecture Program will integrate the NSSMS into the SSDS MK 2 architecture to provide an additional layer of ship missile defense. The upgrade will eliminate the analog point to point architecture and other deficiencies resident to the existing MK 57 NSSMS, as well as allow for full exploitation of ESSM. In addition to reductions in manning realized by RNSSMS, the Solid State Transmitter Ordalt and replacement for the SDP will reduce NSSMS Cost of Ownership for the fleet.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<u>RDT&amp;E</u>																							0.0
<u>PROCUREMENT</u>																							
INSTALLATION KITS																							0.0
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							0.0
EQUIPMENT		2.9																				13	2.9
EQUIPMENT NONRECURRING					1.3		4.1																5.4
ENGINEERING CHANGE ORDERS		0.4			1.3		1.3																2.9
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER-PRODUCTION SUPPORT		0.9																					0.9
OTHER - CSS		0.4			0.3		0.4																1.1
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST																						13	0.0
TOTAL PROCUREMENT		4.5		0.0		2.9		5.8															13.2

P-1 SHOPPING LIST

CLASSIFICATION: UNCLASSIFIED

\*3 Ship Sets - 2 CVN and 1 LHD

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: NATO MODIFICATION TITLE: **MK 91 REARCH**

SEASPARROW

INSTALLATION INFORMATION: Surface Msl Sys

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 9 Months

PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 2000: 0 FY 2001: 0 FY 2002: 0

DELIVERY DATE: FY 2000: 0 FY 2001: 0 FY 2002: 0

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
PRIOR YEARS																					0	0.0	
FY 2000 EQUIPMENT																						0	0.0
FY 2001 EQUIPMENT																						0	0.0
FY 2002 EQUIPMENT																						0	0.0
FY 2003 EQUIPMENT																						0	0.0
FY 2004 EQUIPMENT																						0	0.0
FY 2005 EQUIPMENT																						0	0.0
FY 2006 EQUIPMENT																						0	0.0
FY 2007 EQUIPMENT																						0	0.0
TO COMPLETE																						0	0.0

INSTALLATION SCHEDULE:

	FY 1999	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005					FY 2006					FY 2007				TC	TOTAL
	& Prior	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	4	1	2	3	4			
In	0	0	0	0	0	0	0	0	0																						13	13	
Out	0	0	0	0	0	0	0	0	0																						13	13	



TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT <b>MK 91 REARCHITECTURE (SSTX, SDP &amp; REARCH)</b>								DATE <b>JUNE 2001</b>	
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>								Installing Agent Applicable Shipyard supported by NSWC PHD and Raytheon									
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		
<b>FY 2000</b>								<b>FY 2001</b>									
<b>O P N</b>																	
<b>S C N</b>	1	CVN 68 LHD 7	1 1			CVN 76	1										
<b>FY 2002</b>																	
<b>O P N</b>																	
<b>S C N</b>																	

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>JUNE 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY / BA-4 RAM GMLS</b>							P-1 ITEM NOMENCLATURE <b>Rolling Airframe Missile (RAM) 5238</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY	56	A	3	2	4						0	65
COST (In Millions)	\$414.8	A	\$37.9	\$36.5	\$31.8							\$521.0
SPARES COST (In Millions)	N/A	A									N/A	\$0.0
<p><b>Rolling Airframe Missile (RAM) - MK-49 Guided Missile Launching System (GMLS)</b></p> <p>RAM is a NATO cooperative project with Germany produced under a production MOU approved by the U.S. and Germany on 3 August 1987.</p> <p>The MK-31 Guided Missile Weapons System (GMWS) is a lightweight, quick-reaction, high firepower missile system designed to provide antiship missile defense. The system is comprised of a MK-44 Guided Missile Round Pack (GMRP) and the MK-49 Guided Missile Launching System (GMLS), which holds 21 RAM missiles. The 21-round launcher is compatible with various platforms ranging from large USN amphibious assault ships to S-143 type German patrol boats. This system is designed to counter high density anti-ship, cruise missile raids and provide for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence.</p> <p>Approval for Full Rate Production was granted 6 May 1993. The total RAM GMLS procurement program is 155 launchers (73 OPN (including one trainer and one LBTF), 39 SCN, and 43 German systems). One hundred eight launchers (56 OPN, 9 SCN and 43 German) were procured in FY99 and prior, under joint U.S./German production contracts. A five year multiyear contract for 45 systems (17 OPN and 28 SCN) was awarded in FY00, with the remaining two SCN launchers scheduled for procurement in FY05.</p>												

<b>BUDGET ITEM JUSTIFICATION SHEET</b>		<b>DATE:</b>																																																			
<b>P-40 (CONTINUATION)</b>		<b>JUNE 2001</b>																																																			
<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b>																																																				
<b>OTHER PROCUREMENT, NAVY</b>	<b>Rolling Airframe Missile (RAM) 5238</b>																																																				
<p>RAM is installed on or planned for installation on the following ship classes:</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>CLASS</u></th> <th style="text-align: center;"><u>SHIPS</u></th> <th style="text-align: center;"><u>LAUNCHERS</u></th> </tr> </thead> <tbody> <tr> <td>LHA (OPN)</td> <td style="text-align: center;">5</td> <td style="text-align: center;">10</td> </tr> <tr> <td>LSD (OPN)</td> <td style="text-align: center;">11</td> <td style="text-align: center;">23 (LSD-52 (1 OPN &amp; 1 SCN))</td> </tr> <tr> <td>DD 963 (OPN)</td> <td style="text-align: center;">12</td> <td style="text-align: center;">12</td> </tr> <tr> <td>LHD (OPN)</td> <td style="text-align: center;">4</td> <td style="text-align: center;">8</td> </tr> <tr> <td>CV (OPN)</td> <td style="text-align: center;">2</td> <td style="text-align: center;">4</td> </tr> <tr> <td>CVN (OPN)</td> <td style="text-align: center;">7</td> <td style="text-align: center;">14</td> </tr> <tr> <td>CG 47 (OPN )</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>TRAINER (OPN)*</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>LBTF 1 (OPN)*</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td style="padding-left: 20px;">OPN TOTAL</td> <td style="text-align: center; border-top: 1px solid black;">41</td> <td style="text-align: center; border-top: 1px solid black;">73 *(Only 71 shipboard installations)</td> </tr> <tr> <td> </td> <td></td> <td></td> </tr> <tr> <td>LSD (SCN)</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1 (LSD-52 (1 OPN &amp; 1 SCN))</td> </tr> <tr> <td>LHD (SCN)</td> <td style="text-align: center;">3</td> <td style="text-align: center;">6</td> </tr> <tr> <td>CVN (SCN)</td> <td style="text-align: center;">4</td> <td style="text-align: center;">8</td> </tr> <tr> <td>LPD 17 (SCN)</td> <td style="text-align: center;">12</td> <td style="text-align: center;">24</td> </tr> <tr> <td style="padding-left: 20px;">SCN TOTAL</td> <td style="text-align: center; border-top: 1px solid black;">20</td> <td style="text-align: center; border-top: 1px solid black;">39</td> </tr> </tbody> </table>			<u>CLASS</u>	<u>SHIPS</u>	<u>LAUNCHERS</u>	LHA (OPN)	5	10	LSD (OPN)	11	23 (LSD-52 (1 OPN & 1 SCN))	DD 963 (OPN)	12	12	LHD (OPN)	4	8	CV (OPN)	2	4	CVN (OPN)	7	14	CG 47 (OPN )	0	0	TRAINER (OPN)*		1	LBTF 1 (OPN)*		1	OPN TOTAL	41	73 *(Only 71 shipboard installations)	 			LSD (SCN)	1	1 (LSD-52 (1 OPN & 1 SCN))	LHD (SCN)	3	6	CVN (SCN)	4	8	LPD 17 (SCN)	12	24	SCN TOTAL	20	39
<u>CLASS</u>	<u>SHIPS</u>	<u>LAUNCHERS</u>																																																			
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SCN TOTAL	20	39																																																			
<p>The NSWC Port Hueneme provides installation oversight support as the ISEA for the RAM system. RAM will be installed on LHA, LSD, LHD, DD963, CV/CVN, and LPD ship classes.</p>																																																					

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System									JUNE 2001				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4: RAM GMLS				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ROLLING AIRFRAME MISSILE (RAM) 5238										24UR		
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	Sponsor: N86																
UR006	RAM MK-49 GMLS (Annual Procurement)	A	274,239														
UR006	Multiyear RAM MK-49 GMLS	A		3	3,920	11,761	2	3,813	7,626	4	4,053	16,213					
UR006	Multiyear RAM EOQ Material	A	0			11,615			12,244			(8,323)					
UR006	RAM 11 Round GMLS	A	5,543	0	0	0	0	0	0	0	0	0					
UR006	RAM ECP's	A	28,543			4,128			1,021			2,456					
UR006	RAM GMLS ORDALTS	A	5,605	0	0	0	0	0	0	16	531	8,500					
UR777	RAM ENGINEER SERVICES (Contractor)	A	20,590			3,033			3,029			3,051					
UR007	RAM GMLS PRODUCTION SUPPORT	A	29,701			929			4,440			5,131					
UR900	RAM - CSS	A	6,006			344			711			1,030					
UR006	RAM GMLS/ORDALT Install (Non-FMP)	A	322			234			0			0					
UR5IN	RAM GMLS AIT Install (FMP)	A	44,255			5,818			7,401			3,780					
			<b>414,804</b>			<b>37,862</b>			<b>36,472</b>			<b>31,838</b>					<b>0</b>

DD FORM 2446, JUN 86

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					ROLLING AIRFRAME MISSILE (RAM) 5238				24UR	
BA - 4: RAM GMLS										
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
<b>UR006</b> <b>FISCAL YEAR (00)</b> RAM GMLS (MK-49)	3	3,920	NAVSEA	7/99	SS/FPM-5(1)	Raytheon Company, Louisville, KY	4/00	2/02	YES	
<b>UR006</b> <b>FISCAL YEAR (01)</b> RAM GMLS (MK-49)	2	3,813	NAVSEA	N/A	SS/FPM-5(2)	Raytheon Company, Louisville, KY	12/00	10/02	YES	
<b>UR006</b> <b>FISCAL YEAR (02)</b> RAM GMLS (MK-49)	4	4,053	NAVSEA	N/A	SS/FPM-5(3)	Raytheon Company, Louisville, KY	11/01	01/04	YES	

D. REMARKS

FY00 Contract is first year of five-year multiyear contract; subsequent years do not have award dates, but the date of funding for that fiscal year's buy.

The Multiyear contract is for a mix of OPN and SCN launchers.

P3A		INDIVIDUAL MODIFICATION																		JUNE 2001				
		<u>ROLLING AIRFRAME MISSILE (RAM)</u>				TYPE MODIFICATION: <u>MK-49 GMLS/11 ROUND LAUNCHER</u>										MODIFICATION TITLE: _____								
DESCRIPTION/JUSTIFICATION:																								
The Rolling Airframe Missile is a lightweight, quick-reaction, high firepower missile system designed to provide antiship missile defense. The system (MK-31 GMWS), comprises an MK-44 Guided Missile Round Pack (GMRP) and the MK-49 Guided Missile Launching System (GMLS), which holds 21 RAM missiles. The 21-round launcher is compatible with various platforms, ranging from large USN amphibious assault ships to S-143-type German patrol boats. This system is designed to counter high density anti-ship, cruise missile raids and provide for ship survivability with accurate terminal guidance, proven lethality and no fire control channel dependence.																								
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>Milestone III, January 2000</u>																								
		FY 1999 & Prior		FY2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		IC		TOTAL		
		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																								
<i>RDT&amp;E</i>																								
<i>PROCUREMENT</i>																								
INSTALLATION KITS	8	5.7	0	0.2	0	0.0	16	8.5														24	14.5	
INSTALLATION KITS - UNIT COST		0.7		0.0		0.0		0.5																
INSTALLATION Kits/GMLS		0.3		0.2		0.0		0.0																0.6
EQUIPMENT	56	279.8	3	11.8	2	7.6	4	16.2															65	315.4
EQUIPMENT NONRECURRING																								0.0
ENGINEERING CHANGE ORDERS		28.5		4.1		1.0		2.5																36.1
DATA																								0.0
TRAINING EQUIPMENT																								0.0
SUPPORT EQUIPMENT																								0.0
ENGINEERING SERVICES (Contractor)		20.6		3.0		3.0		3.1																29.7
PRODUCTION SUPPORT		29.7		0.9		4.4		5.1																40.2
ECONOMIC ORDER QUANTITY				11.6		12.2		-8.3																15.5
INTERIM CONTRACTOR SUPPORT		6.0		0.3		0.7		1.0																8.1
INSTALL COST	40	44.3	5	5.8	9	7.4	3	3.8															57	61.3
TOTAL PROCUREMENT		414.9		37.9		36.5		31.8																521.1







TIME PHASED REQUIREMENTS SCHEDULE								P-1 ITEM NOMENCLATURE/PROJECT UNIT								DATE			
P-23A								Rolling Airframe Missile (RAM)/UR51N								JUNE 2001			
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b> <b>BA-4: RAM GMLS</b>								Installing Agent											
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 2000								FY 2001											
DD - 991	(1)	LSD - 50	(2)	LSD - 41	(2)			CV - 63	(2)	DD - 985	(1)	DD - 992	(1)	CVN - 68	(2)				
								DD - 967	(1)			LSD - 43	(2)						
FY 2002								FY 2003											
				DD - 997	(1)														
				LSD - 47	(2)														

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: JUNE 2001					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA4</b>							P-1 ITEM NOMENCLATURE <b>SHIP SELF DEFENSE SYSTEM (SSDS) / 5239</b>					
Program Element for Code B Items:							Other Related Program Elements <b>P.E. 0604755N</b>					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY	9	A	4	0	2						16	31
COST (In Millions)	\$90.2	A	\$37.3	\$9.3	\$34.4						\$411.1	\$582.3
SPARES COST (In Millions)	\$4.1	A	\$2.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	Continue	\$6.5
<p><b>PROGRAM DESCRIPTION/JUSTIFICATION:</b></p> <p>SHIP SELF DEFENSE SYSTEM (SSDS) - Funds are requested to procure an evolutionary SSDS for selected ship classes. The SSDS is a coordinated engineering approach to improve ship self defense utilizing existing and planned defensive systems in Navy ships. The program coordinates the efforts of diverse acquisition programs that are in varying stages of programmatic maturity. A multi-phased evolutionary acquisition program has been planned. The AN/SYQ-17 Rapid Anti-Ship Missile Integrated Defense System program, or SSDS MK 0, is being followed by an evolutionary SSDS MK1 program to integrate sensors and automate engagement sequences of hardkill and softkill systems. The next phase is identified as SSDS MK2.</p> <p><b>SSDS MK 0</b> uses ruggedized computer workstations and an ETHERNET LAN and provides decision support to weapons systems operators and managers using data from AN/SLQ-32 and CIWS radar. SSDS MK 0 is designated for use on DD 963/FFG 7 class ships. During FY01-04, implementation of Commercial Off the Shelf technology refresh upgrade is planned for both DD 963 and FFG 7 class ships as Field Change Kits.</p> <p><b>SSDS MK 1</b> is the second phase of an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles (ASCM) for LSD 41/49 class ships. It integrates several existing stand-alone sensor and Anti-Air Warfare weapons systems to provide an automated detect-to-engage capability against low flying, high speed ASCMs with low radar cross sections in the littoral environment. System design emphasizes physically distributed non-developmental items, commercial standards, Next Generation Computer Resources, and computer program reuse in an open architecture computer network. It includes a command table that uses components of the Navy's AN/UYQ-70 standard display for human-machine interface, commercially available local area network access units and circuit cards, and commercially available fiber optic cabling. SSDS MK1 successfully completed Operational Evaluation in June 1997. SSDS received Milestone III Approval for Full Rate Production (Mar 98) and authority to continue integration with Advanced Combat Direction System (ACDS) and Cooperative Engagement Capability (CEC) on CV(N), LPD-17, and LHD ship classes.</p> <p><b>SSDS MK 2</b> development will adopt the functionality of ACDS and combine the SSDS MK1 capability with and weapon and sensor elements. In addition, SSDS MK2 will integrate with CEC to improve joint interoperability for Aircraft Carriers and Amphibious Ships. SSDS MK2 provides enhanced capabilities for Force Protection against air, surface, and subsurface threats using both own-ship and remote data in support of the AAW Capstone Requirements. SSDS MK2 will increase operational capabilities, improve combat readiness and Battle Group Interoperability, and promote standardization both within installed ship classes and with AEGIS to facilitate transition to Common Command and Decision. SSDS MK 2 also equips all backfit LHDs and CV(N)s with an upgraded Combat System Display Suite which includes AN/UYQ-70s, Automatic Status Boards (ASTABS), Remote ASTAB Controllers, Advanced Sensor Distribution System and a backup Sensor Integration And Control Interface Terminal.</p> <p>In FY02 a shore based SSDS MK 2 and a full combat system suite are being procured and installed at the Ship Combat System Center (SCSC). This facility, under the sponsorship of PEO(TSC), is being established at Wallops Island to provide a high fidelity combat system engineering development and integration test site in support of the combat systems of the CVN/LPD-17 and future ship classes. Presently the SCSC is equipped with core combat system components provided by PMS 317 that must eventually be installed onboard LPD-17 and LPD-18. To fulfill its mission, SCSC requires a permanent set of combat system components.</p>												

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

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WEAPONS SYSTEM COST ANALYSIS						Weapon System						DATE:			
P-5												JUNE 2001			
APPROPRIATION/BUDGET ACTIVITY						ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD							
Other Procurement, Navy/BA4						A		SHIP SELF DEFENSE SYSTEM (SSDS) A4UQ / 5239							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
	SPONSOR N86														
	EQUIPMENT	A													
UQ001	SSDS														
	LSD		37,387	2	5,238	10,476	0	0	0	0	0	0	0		
	LHD		0	0	0	0	0	0	0	0	0	0	0		
	CV(N)		0	1	6,106	6,106	0	0	0	0	0	0	0		
	SHOREBASED		5,367	1	6,568	6,568	0	0	0	1	7,900	7,900			
	SUPPORT EQUIPMENT		0	0	0	0	0	0	0	1	17,000	17,000			
UQ002	SSDS PRODUCTION SUPPORT		19,021			1,870			781			2,228			
UQ003	SSDS ECP		3,004			0			244			478			
UQ004	SSDS TRAINING		5,494			2,500			523			508			
UQ005	SSDS COTS REPLACEMENT		0			0			775			5,795			
Uqxxx	COMBAT SYSTEM DISPLAY SUITE		0			0			0			0			
	INSTALL														
UQ51N	SSDS Equipment Install (FMP)		16,841			9,317			6,463			0			
UQ61N	EQUIPMENT INSTALL (NON-FMP)		3,068			500			481			469			
			<b>90,182</b>	<b>4</b>		<b>37,337</b>	<b>0</b>		<b>9,267</b>	<b>2</b>		<b>34,378</b>			

**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE <b>JUNE 2001</b>		
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy/BA4</b>					C. P-1 ITEM NOMENCLATURE <b>SHIP SELF DEFENSE SYSTEM (SSDS) / 5239</b>				SUBHEAD <b>A4UQ</b>	
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
<b>FISCAL YEAR (00)</b>			NAVSEA	10/99		RAYTHEON			YES	N/A
LSD (UQ001)	2	5,238			FFP	3970 Sherman St	3/00	1/01		
CVN 68 (UQ001)	1	6106 (R1)			CPAF	San Diego CA 92110	12/99	8/01		
SHORE (UQ001)	1	6,568			FFP		5/00	11/01		
<b>FISCAL YEAR (01)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>FISCAL YEAR (02)</b>						RAYTHEON				
SHORE (UQ001)	1	7,900	NAVSEA	10/01	FFP	8680 Balboa Avenue San Diego CA 92123	TBD	10 mos. after award	YES	N/A
SUPPORT EQUIPMENT (UQ001)	1	17,000	NAVSEA	N/A	VARIOUS	RAYTHEON	(R2)	(R2)	YES	N/A
			NAVSEA	N/A		LOCKHEED MARTIN	(R2)	(R2)	YES	N/A
			NAVSEA	N/A		LITTON	(R2)	(R2)	YES	N/A
			NAVSEA	N/A		MISC. VENDORS	(R2)	(R2)	YES	N/A

**D. REMARKS**  
 Overall Note: Government Furnished Equipment (GFE) is included with unit cost above.  
 Remark 1: Unit price only reflects a partial SSDS MK 2 equipment suite; four multi-LAU cabinets versus six.  
 Remark 2: Award dates and delivery dates can not be estimated at this time due to various procurement requests that will require execution in order to place acquisitions through the appropriate program offices responsible for these equipments  
 Remark 3: Unit price only reflects the requirements for a partial display upgrade to CVN 68 and LHD 7, an ECP Kit.

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P3A INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED: <u>SHIP SELF DEFENSE SYSTEM (SSDS)</u> TYPE MODIFICATION: <u>Ship Self Defense System MK 2</u> MODIFICATION TITLE: _____																						
DESCRIPTION/JUSTIFICATION:																						
<div style="border: 1px solid black; padding: 5px;">                     Implements an evolutionary acquisition of improved ship self defense capabilities against Anti-Ship Cruise Missiles for selected non-AEGIS ships by integrating existing programmed Anti-Air Warfare stand alone systems.                      It provides an automated quick reaction and multi-target engagement capability emphasizing performance in the littoral environment. Integration focuses on coordinating existing sensor information, providing threat identification and evaluation, assessing defensive readiness, and recommending optimized defensive tactical response to counter single and multiple Anti-Ship Cruise Missile attacks.                 </div>																						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: <u>Milestone III decision approved 5 March 1998</u>																						
	FY 1999 & Prior		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<b>FINANCIAL PLAN (IN MILLIONS)</b>																						
RDT&E	7	192.4	0	26.9	0	46.0*	0														7	Cont.
PROCUREMENT	9	42.8	4	23.2	0	0.0	2	24.9													15	90.9
INSTALLATION KITS																					0	0.0
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	8	37.4	3	16.6	0	0.0	0	0.0													11	54.0
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT	1	5.4	1	6.6	0	0.0	0	0.0													2	12.0
SUPPORT EQUIPMENT	0	0.0	0	0.0	0	0.0	2	24.9													2	24.9
OTHER (Production Support)		19.0		1.9		0.8		2.2													0	23.9
OTHER (ECP)		3.0		0.0		0.2		0.5													0	3.7
OTHER (Training)		5.5		2.5		0.5		0.5													0	9.0
OTHER (COTS Replacement)				0.0		0.8		5.8													0	6.6
OTHER (CSS)																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
TOTAL PROCUREMENT		70.3		27.6		2.3		33.9													0	134.1
INSTALL COST**	5	19.9	4	9.8	4	6.9		0.5													13	37.1
TOTAL PROGRAM COST	9	90.2	4	37.4	0	9.3	2	34.4													15	171.2

\* Pending proposed Above Threshold Reprogramming action

P-1 SHOPPING LIST

CLASSIFICATION:

\*\* Includes FMP, Planning, and Non-FMP Installation

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P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: SHIP SELF DEFENSE SYSTEM (SSDS) MODIFICATION TITLE: \_\_\_\_\_

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Alteration Installation Team (AIT)

ADMINISTRATIVE LEADTIME: 2 months PRODUCTION LEADTIME: 10 Months

CONTRACT DATES: FY 2000: 12/99 - 5/00 FY 2001: N/A FY 2002: TBD

DELIVERY DATE: FY 2000: 1/01 - 8/01 FY 2001: N/A FY 2002: TBD

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	5	19.9	4	9.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	9	29.7
FY 2000 EQUIPMENT					4	7.0								0.0		0.0		0.0		0.0	4	7.0
FY 2001 EQUIPMENT							0	0.5													0	0.5
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				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						
IN	9	1	0	2	1	0	0	0	0																	18	31				
OUT	9	0	1	1	2	0	0	0	0																	18	31				

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-4 Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>BB</b> <b>AEGIS SUPPORT EQUIPMENT / 524600/524605</b>				
Program Element for Code B Items:							Other Related Program Elements <b>0604307N</b>				
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002						
QUANTITY											
COST (In Millions)	<b>\$145.4</b>	<b>A</b>	<b>\$79.5</b>	<b>\$29.4</b>	<b>\$155.1</b>						
SPARES COST (In Millions)			<b>\$0.6</b>	<b>\$0.9</b>	<b>\$0.5</b>						

**PROGRAM DESCRIPTION/JUSTIFICATION:**

1. This program provides equipments for shore facilities and for shipboard upgrades to support the battle readiness of AEGIS Cruisers and Destroyers in the following areas: a. Special Tooling and Test Equipment for AEGIS unique depots; b. Computer, displays and simulators for the AEGIS Computer Center (ACC) at Dahlgren, VA; c. Weapon/Combat System equipments for the Surface Combat System Center (SCSC) at Wallops Island, VA; d. Weapon System Training equipment for the AEGIS Training & Readiness Center (ATRC) at Dahlgren, VA; e. AEGIS Weapon System ORDALT procurement; f. AEGIS Weapon System SHIPALT procurement; g. Class Common Equipment to support shorter Regular Overhauls and Selected Restricted Availabilities. Includes Weapon and Ship System Components that require long repair turn-around; h. Field Activity Integrated Communications Equipment; i. Smart Ship-Type Systems Engineering Control and Surveillance Equipment (ECSE); j. CG Conversion (includes Area TBMD, Land Attack, & Area Air Defense Commander); k. Shipboard equipment and ORDALT installation.

2. The FY 2000-02 funds will be used to upgrade three centers (AEGIS Computer Center, AEGIS Training & Readiness Center, and Surface Combat Systems Center) to properly accommodate CG 47 and DDG 51 Combat System Baselines and to provide shipboard SHIPALT and ORDALT equipments for existing Cruiser and Destroyer Baselines. Funding is also for the installation of equipment including the Fleet Modernization Program, training equipment, and other shore facilities. These include, among others, the following major Weapon/Combat systems:

	<u>DESCRIPTION</u>	<u>APPLICABLE HULLS</u>
CG BASELINE 1	SPY-1A RADAR AEGIS DISPLAY SYSTEM MARK I MARK 26 LAUNCHING SYSTEM LAMPS MARK III HELICOPTER MK 116 MOD 4 UNDERWATER FIRE CONTROL UYK-7/20 COMPUTERS	CG-47 - CG 51
CG BASELINE 2	CG BASELINE 1 PLUS TOMAHAWK WEAPON SYSTEM ANTI-SUBMARINE WARFARE UPGRADE SQQ-89 MK 41 VERTICAL LAUNCH SYSTEM IN PLACE OF MK 26 BACKFIT COMPUTERS/AN/UYQ-70 DISPLAYS ECSE UPGRADE/COTS COMPUTER	CG 52 -CG 58

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BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION				DATE: <b>June 2001</b>	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-4 Ordnance Support Equipment</b>			P-1 ITEM NOMENCLATURE <b>AEGIS SUPPORT EQUIPMENT / 524600/524605</b>		
Program Element for Code B Items:			Other Related Program Elements		
DESCRIPTION	APPLICABLE HULLS	DESCRIPTION	APPLICABLE HULLS	DESCRIPTION	APPLICABLE HULLS
CG BASELINE 3 67	CG BASELINE 2 PLUS  SPY-1B RADAR IN PLACE OF SPY-1A UYQ-21 DISPLAYS IN PLACE OF UYA-4 BACKFIT UYK-43 (LoBoy)/44 COMPUTERS ECSE UPGRADE/COTS COMPUTER	CG 59 - CG 64	DDG BASELINE 4	CG BASELINE 3 PLUS  SPY-1D RADAR IN PLACE OF SPY -1B MK 160 GUN COMPUTING SYSTEM IN PLACE OF MK 86 UYK 43/44 COMPUTERS IN PLACE OF UYK -7/20S	DDG 51- DDG
CG BASELINE 4 DDG 78	CG BASELINE 3 PLUS  VERTICAL LAUNCH ASROC SM-2 MISSILE UPGRADE UYK 43/44 COMPUTERS IN PLACE OF UYK-7/20s	CG 65 - CG 73	DDG BASELINE 5	DDG BASELINE 4 PLUS  JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS/COMMAND AND CONTROL (C2P) TADIL ECSE UPGRADE/COTS COMPUTERS COMBAT DIRECTION FINDING (CDF) TACTICAL DATA INFORMATION EXCHANGE SYSTWM (TADIX B)TAC AN/SLQ-32(V) 3 ACTIVE ELECTRONIC COUNTERMEASURES (ECM) AEGIS EXTENDED RANGE (ER) MISSILE	DDG 68 -
CG BASELINE DDG 84 6IIC	CG BASELINE 3/4 PLUS  BASELINE 6 LAND ATTACK AREA TBMD AREA AIR DEFENSE COMMANDER (AADC)	CG 59 - CG 73  (FUTURE)	DDG BASELINE 6 PH I	DDG BASELINE 5 PLUS  ORTS UPGRADE, ECM UPGRADE, ACTS REHOST SQQ-89 (V) 10, ATWCS PHASE 2 AN/UYQ-70, DOPPLER SONAR VELOCITY	DDG 79 -
CG BASELINE DDG 90 7IC DDG 84	CG BASELINE 2 PLUS  BASELINE 7  LAND ATTACK AREA TBMD	CG 52 - 58  (FUTURE)	DDG BASELINE 6 PH III	DDG BASELINE 6 PH I PLUS  UPGRADES TO AN/UYQ-70 DISPLAY SUIT  UPGRADES TO ORTS, LSTP, CEC, NAVSSI BLK III CDLMS, JTT, ESSM, STAMO MODS, SPY MODS	DDG 85 -  DDG 51 -

P-1 SHOPPING LIST

CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System						DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy / BA-4</b>				ID Code <b>A</b>		P-1 ITEM NOMENCLATURE/SUBHEAD <b>AEGIS SUPPORT EQUIPMENT 524600 / 524605 / A4L7</b>									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SPONSOR N76														
L7001	DEPOT SPECIAL TOOLING/TEST EQPT		1,400			835			450			848			
L7003	AEGIS COMPUTER CENTER EQPT		1,364			1,616			1,000			1,096			
L7004	BASELINE CONSOLIDATION		26,369			0			0			0			
L7005	SMART SHIP TYPE SYSTEMS		46,505			29,139			15,275	4	7,415	29,659			
L7006	SURFACE COMBAT SYSTEM CENTER EQPT		2,721			1,637			742			1,663			
L7007	AEGIS TRAINING & READINESS CENTER		909			2,673			559			1,695			
L7010	AEGIS WEAPON SYSTEM ORDALTS		29,550			7,688			256			5,293			
L7011	AEGIS WEAPON SYSTEM SHIPALTS		11,192			18,505			289			29,970			
L7013	CLASS COMMON EQUIPMENT		485			2,795			0			2,866			
L7016	FIELD ACTY INTEGRATED COMM EQPT		427			380			378			384			
L7021	CG CONVERSION		0			0			0	1	66,238	66,238			
L7600	INSTALLATION OF EQPT, FMP		24,501			14,262			10,407			15,401			
			<b>145,423</b>			<b>79,530</b>			<b>29,356</b>			<b>155,113</b>			<b>0</b>

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System			DATE : June 2001		
<b>B. APPROPRIATION/BUDGET ACTIVITY</b>					<b>C. P-1 ITEM NOMENCLATURE</b>				<b>SUBHEAD</b>	
<b>Other Procurement, Navy</b>					<b>AEGIS SUPPORT EQUIPMENT 524600/524605</b>				<b>A4L7</b>	
Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2000</u></b>										
<b><u>L7003</u></b>										
<b>AEGIS COMPUTER CENTER</b>										
COTS UPGRADE	1 LOT	1516	NSWC DD	12/99	FP	VARIOUS	03/00	01/02	YES	
CABLES	1 LOT	100	NSWC DD	12/99	FP	VARIOUS	03/00	01/02	YES	
<b><u>L7005</u></b>										
<b>SMARTSHIP TYPE SYSTEMS</b>										
ENGINEERING	1 LOT	10229	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
TRAINING EQUIPMENT	1 LOT	6600	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
LOGISTICS	1 LOT	1300	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
TRAINING	1 LOT	400	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	YES	
WIRELESS SENSORS	1 LOT	4000	NSWC Crane	12/00	FP	AEPTEC-MARYLAND	3/01	TBD	YES	
ENG CHANGE PROPOSALS	1 LOT	1100	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	N/A	
OSD Deferral	1 LOT	5510	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
<b><u>L7006</u></b>										
<b>SCSC</b>										
SYSTEM ENGINEERING	1 LOT	405	NAVSEA	12/99	FP	LM GES - NEW JERSEY	02/00	12/00	YES	
EQUIPMENT MODERNIZATION	1 LOT	326	NSWC DD	12/99	FP	VARIOUS	02/00	12/00	YES	
COTS UPGRADES	1 LOT	615	NSWC DD	12/99	FP	VARIOUS	02/00	12/00	YES	
EXCOMM EQUIPMENT	1 LOT	31	NAWCAD PAX RI	12/99	FP	VARIOUS	02/00	12/00	YES	
LLS CLOCK EXPANDER	1 LOT	260	NAVSEA	12/99	FP	LM GES - NEW JERSEY	02/00	12/00	YES	
<b>D. REMARKS</b>										

CLASSIFICATION:

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	Weapon System	DATE : <b>June 2001</b>
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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy</b>	<b>C. P-1 ITEM NOMENCLATURE</b> <b>AEGIS SUPPORT EQUIPMENT 524600/524605</b>	<b>SUBHEAD</b> <b>A4L7</b>
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Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2000 (cont)</u></b>										
<b><u>L7007</u></b>										
<b>ATRC</b>										
CAST PART TASK TRAINER	1	400	CO ATRC	10/98	FP	VARIOUS	02/00	12/00	YES	
FAULT INSERTION DEVICES	1	401	CO ATRC	01/00	FP	VARIOUS	05/00	05/01	YES	
COTS UPGRADE	1	872	NSWC DD	10/99	FP	VARIOUS	01/00	01/01	YES	
CLASS	1	1000	CO ATRC	01/00	FP	ADV ACC CON/VIRGINIA	02/00	12/00	YES	
<b><u>L7010</u></b>										
<b>AWS ORDALTS</b>										
FAULT INDICATORS TB1019	58	8	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	05/00	06/01	YES	
ANTENNA HEATER	41	20	NAVSEA	04/99	BOA	RAYTHEON - MASSACHU	05/00	06/01	YES	
FAINT/INVERTER	9	200	NAVSEA	05/99	BOA	RAYTHEON - MASSACHU	05/00	05/01	YES	
PWR SUPPLY CIR BRKERS	26	24	NAVSEA	05/99	BOA	RAYTHEON - MASSACHU	05/00	05/01	YES	
DOPPLER & CLUTTER GEN	3	295	NAVSEA	05/99	BOA	LM GES - NEW JERSEY	05/00	05/01	YES	
OUTPUT FILTER CABLE	38	13	DCMA/SANTA ANA	04/99	FP	VARIOUS	05/00	06/01	YES	
TWT BIAS FAULT CIRCUIT	66	11	NAVSEA	04/99	BOA	RAYTHEON - MASSACHU	05/00	06/01	YES	
OL-267 SYS CLK STABILITY	41	3	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	05/00	06/01	YES	
PHASED ARRAY ANTENNA STROBE	45	12	NAVSEA	05/99	BOA	LM GES - NEW JERSEY	05/00	06/01	YES	
DMS CIRCUIT CARD	150	7	NAVSEA 05K	04/99	FP	VARIOUS	12/99	01/01	YES	
TWO WAY AIR REGULATOR	40	4.05	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	06/00	02/01	YES	
<b><u>L7011</u></b>										
<b>AWS SHIPALTS</b>										
TIP	5	1100	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	04/00	02/01	YES	
TIP SWITCH	4	50	NAVSEA	04/99	BOA	LM GES - NEW JERSEY	04/00	02/01	YES	

D. REMARKS

CLASSIFICATION:

UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE : June 2001		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					AEGIS SUPPORT EQUIPMENT 524600 / 524605				A4L7	
Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2000 (cont)</u></b>										
<b><u>L7011 (cont)</u></b>										
<b>AWS SHIPALTS</b>										
6 PH III UPGRADE KITS	1 LOT	4394	NAVSEA	04/00	FP	LM TDS - MINNESOTA	04/00	04/00	YES	
AN/UYK TVM BATTERIES	18	26	NCCOSC	04/00	N/A	VARIOUS -CALIFORNIA	06/00	02/00	YES	
CLSD	10	184	NCCOSC	04/00	FP	VARIOUS -CALIFORNIA	04/00	10/00	YES	
PWS/WCS UYK-43 UPGRADE	11	8	NAVSEA	04/00	BOA	LM TDS - MINNESOTA	04/00	12/00	YES	
UYK-43 UPGRADE BFTT	23	20	NAVSEA	04/00	BOA	LM TDS - MINNESOTA	04/00	04/01	YES	
UYK-43 UPGRADE 6 PH III	1 LOT	4139	NSWC PHD	04/00	FP	VARIOUS - VIRGINIA	11/99	04/01	YES	
UYK-43 PROM CARDS	1 LOT	800	NAVSEA	04/00	BOA	LMTDS- MINNESOTA	11/99	01/00	YES	
HALON UPGRADE	1	616	NSWC PHD ECO	12/99	FP	VARIOUS - VIRGINIA	07/00	06/00	YES	
<b><u>L7013</u></b>										
<b>CLASS COMMON EQUIPMENT</b>										
CCE FOR DDG 51 CLASS	1 LOT	1398	SUPSHIP/BATH	03/00	FP	BIW - MAINE	04/00	01/01	YES	
CCE FOR CG 47 CLASS	1 LOT	1397	SUPSHIP/PASC	03/00	FP	ISI LITTON - MISSISSIPPI	04/00	01/01	YES	
<b><u>FISCAL YEAR 2001</u></b>										
<b><u>L7003</u></b>										
<b>AEGIS COMPUTER CENTER</b>										
COTS UPGRADE	1 LOT	800	NSWC DD	12/00	FP	VARIOUS	03/01	03/02	YES	
CABLES	1 LOT	200	NSWC DD	12/00	FP	VARIOUS	03/01	03/02	YES	
<b><u>L7005</u></b>										
<b>SMARTSHIP TYPE SYSTEMS</b>										
ENGINEERING	1 LOT	5278	NSWC PHIL	TBD	FP	VARIOUS	TBD	TBD	N/A	
LOGISTICS	1 LOT	2043	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	N/A	
TRAINING	1 LOT	454	NAVSEA	N/A	FP	VARIOUS	N/A	N/A	N/A	
ENG CHANGE PROPOSAL	1 LOT	2500	NAVSEA	N/A	FP	VARIOUS	TBD	TBD	N/A	
WIRELESS SENSORS	1 LOT	5000	NSWC Crane	N/A	FP	AEPTEC - MD	N/A	N/A	YES	
D. REMARKS:										

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE : June 2001		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy					C. P-1 ITEM NOMENCLATURE AEGIS SUPPORT EQUIPMENT 524600 / 524605				SUBHEAD A4L7	
Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2001 (cont)</u></b>										
<b><u>L7006</u></b>										
<b>SCSC</b>										
SYSTEM ENGINEERING	1 LOT	300	NAVSEA	12/00	FP	LOCKHEED - NEW JERSEY	3/01	09/01	YES	
EQUIPMENT MODERNIZATION	1 LOT	410	NSWC DD	12/00	FP	VARIOUS	3/01	09/01	YES	
EXCOMM EQUIPMENT	1 LOT	32	NAWCAD PAX RI	12/00	FP	VARIOUS	3/01	09/01	YES	
<b><u>L7007</u></b>										
<b>ATRC</b>										
COTS UPGRADE	1 LOT	559	NSWC DD	08/00	FP	VARIOUS	11/00	01/01	YES	
<b><u>L7010</u></b>										
<b>AWS ORDALTS</b>										
FAINT INVERTER	1	200	NAVSEA	08/00	BOA	RAYTHEON- MASS	11/00	05/01	YES	
FIRE INHIBIT SWITCH	1	56	NAVSEA	08/00	BOA	LM GES - NEW JERSEY	11/00	05/01	YES	
<b><u>L7011</u></b>										
<b>AWS SHIPALTS</b>										
TIP CABINET	1 LOT	289	NAVSEA	08/00	BOA	LM GES - NEW JERSEY	11/00	3/02	YES	
<b><u>L7013</u></b>										
<b>CLASS COMMON EQUIPMENT</b>										
NONE										
D. REMARKS:										

CLASSIFICATION:

**UNCLASSIFIED**

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					AEGIS SUPPORT EQUIPMENT 524600/524605				A4L7	
Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2002</u></b>										
<b><u>L7003</u></b>										
<b>AEGIS COMPUTER CENTER</b>										
COMMERCIAL SYS MOD	1 LOT	896	NSWC DD	N/A	FP	VARIOUS	11/01	02/02	YES	
CABLES	1 LOT	200	NSWC DD	N/A	FP	VARIOUS	11/01	02/02	YES	
<b><u>L7005</u></b>										
<b>SMARTSHIP TYPE SYSTEMS</b>										
SMARTSHIP UPGRADE (CG)	3	5200	NAVSEA	12/01	FP	VARIOUS	11/01	3/02	YES	
TEST EQUIPMENT (DDG LBES)	1	5800	NSWC PHIL	TBD	FP	TBD	TBD	TBD	YES	
ENGINEERING	1 LOT	6572	NSWC PHIL	N/A	FP	VARIOUS	11/01	11/02	YES	
LOGISTICS	1 LOT	950	NAVSEA	N/A	FP	VARIOUS	11/01	11/02	YES	
TRAINING	1 LOT	737	NAVSEA	N/A	FP	VARIOUS	11/01	11/02	YES	
<b><u>L7006</u></b>										
<b>SCSC</b>										
COTS UPGRADES	1 LOT	655	NSWC DD	N/A	RCP	VARIOUS	11/01	2/02	YES	
SYSTEMS ENGINEERING	1 LOT	350	NAVSEA	N/A	RCP	LM GES - NEW JERSEY	11/01	2/02	YES	
COTS MODERNIZATION & SWITCHING	1 LOT	625	NSWC DD	08/01	RCP	LM TDS - MINNESOTA	11/01	2/02	YES	
EXCOMM	1 LOT	33	NAWCAD/PAX	08/01	RCP	VARIOUS	11/01	2/02	YES	
<b><u>L7007</u></b>										
<b>ATRC</b>										
COTS MODERNIZATION AND SWITCHING	1 LOT	1695	NSWC DD	09/01	BOA	VARIOUS	10/01	04/02	YES	
D. REMARKS										

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE : <b>June 2001</b>		
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>					C. P-1 ITEM NOMENCLATURE <b>AEGIS SUPPORT EQUIPMENT 524600/524605</b>				SUBHEAD <b>A4L7</b>	
Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2002 (cont)</u></b>										
<b><u>L7010</u></b>										
<b>AWS ORDALTS</b>										
DOPPLER CLUTTER FIX	3	275	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	825
FAINT INVERTER	6	200	NAVSEA	09/01	BOA	RAYTHEON - MASSACHU	11/01	10/02	YES	1200
STAMO	2	864	NAVSEA	09/01	BOA	RAYTHEON - MASSACHU	11/01	01/03	YES	1728
SPY AIR FLOW FILER UPGRD	1 LOT	943	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	943
MK18 CND/UWS INTERFACE	1 LOT	263.6	NAVSEA	09/01	BOA	LM GES - NEW JERSEY	12/01	10/02	YES	263.6
COTS UPGRADES	1 LOT	333.4	NAVSEA	09/01	BOA	VARIOUS	11/01	06/02	YES	333.4 5293
<b><u>L7011</u></b>										
<b>AWS SHIPALTS</b>										
TIP CABINET	8	1100	NAVSEA	08/01	BOA	LM GES - NEW JERSEY	12/01	09/03	YES	8800
TIP SWITCH	8	50	NSWC PHD	09/00	FP	VARIOUS	10/01	12/02	YES	400
Q-70 COTS UPGRADES	1 LOT	1871	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	1871
UYK-43 UPGRADES	1 LOT	1272	NAVSEA	08/01	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	1272
UYK-43 UNIVERSAL CARDS	1 LOT	1064	NSWC PHD ECO	08/01	FP	VARIOUS	12/01	12/02	YES	1064
Q-70 SUPPORTING CEC	1 LOT	9929	NAVSEA	08/00	BOA	LM TDS - MINNESOTA	12/01	12/02	YES	9929
Q-70 ANCILLARY EQUIP - CEC	1 LOT	6634	NAVSEA	08/00	BOA	LM GES - NEW JERSEY	12/01	12/02	YES	6634 29970
<b><u>L7013</u></b>										
<b>CLASS COMMON EQUIPMENT</b>										
CCE FOR DDG-51 CLASS	1 LOT	1433	SUPSHIP/BATH	08/01	FP	BIW - MAINE	11/01	08/02	YES	
CCE FOR CG-47 CLASS	1 LOT	1433	SUPSHIP/PASC	08/01	FP	ISI LITTON - MISSISSIPPI	11/01	08/02	YES	
D. REMARKS										

CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	Weapon System	DATE : <b>June 2001</b>
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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy</b>	<b>C. P-1 ITEM NOMENCLATURE</b> <b>AEGIS SUPPORT EQUIPMENT 524600/524605</b>	<b>SUBHEAD</b> <b>A4L7</b>
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Cost Element/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>FISCAL YEAR 2002 (cont)</u></b>										
<b><u>L7021</u></b>										
<b>CRUISER CONVERSION</b>										
MK 160 GFCS	1	5476	NSWC PHD	N/A	N/A	VARIOUS	11/01	05/01	NO	
MK46 OSS	2	1800	NAVSEA	08/01	FFP	TBD	03/02	06/04	NO	
AWS MOD KITS	1 LOT	16599	NAVSEA	TBD	FFP	LMTS	TBD	TBD	YES	
COMPUTER & DISPLAYS COTS	1 LOT	22138	NAVSEA	TBD	FFP	TBD	TBD	TBD	YES	
LOGISTICS	1 LOT	200	NSWC PHD	N/A	N/A	VARIOUS	11/01	TBD	N/A	
TRAINING	1 LOT	1900	NSWC DD	N/A	N/A	VARIOUS	11/01	TBD	N/A	
TBMD SITES EQUIPMENT (NJ)	1 LOT	15053	NAVSEA	TBD	FFP	VARIOUS	TBD	TBD	YES	
LAND ATTACK SITES EQUIP (NJ)	1 LOT	1272	NAVSEA	TBD	FFP	VARIOUS	TBD	TBD	YES	

**D. REMARKS**



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEMS TYPE MODIFICATION: DEPOT SPECIAL TOOLING MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

Depot Special Tooling and Test Equipment are required to support AEGIS Weapons Systems (AWS) upgrades to SPY, C&D, WCS, FCS, ADS, ORTS, and ACTS elements. This special support equipment is required to maintain, troubleshoot, and operate the combat system equipment. If this special equipment is not provided, the combat system will fall into disrepair and will not be able to support its mission.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	<u>FY 1999 &amp; Prior</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>																
	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>	<u>QTY</u>	<u>\$</u>															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<u>RDT&amp;E</u>																							
<u>PROCUREMENT</u>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	VAR	1.4	VAR	0.8	VAR	0.5	VAR	0.8															
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST																							
TOTAL PROGRAM COST		1.4		0.8		0.5		0.8		0.0		0.0		0.0		0.0		0.0		0.0		TBD	0.0

UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEMS TYPE MODIFICATION: AEGIS COMPUTER CENTER MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

The AEGIS Computer Center (ACC) requires OPN equipment upgrades in order to maintain testing capabilities for backfit computer program baselines.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	<u>FY 1999 &amp; Prior</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	QTY	\$	QTY	\$

<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<i>RDT&amp;E</i>																					
<i>PROCUREMENT</i>																					
INSTALLATION KITS																					
INSTALLATION KITS - UNIT COST																					
INSTALLATION KITS NONRECURRING																					
EQUIPMENT	VAR	1.4	VAR	1.6	VAR	1.0	VAR	1.1													
EQUIPMENT NONRECURRING																					
ENGINEERING CHANGE ORDERS																					
DATA																					
TRAINING EQUIPMENT																					
SUPPORT EQUIPMENT																					
OTHER																					
OTHER																					
OTHER																					
INTERIM CONTRACTOR SUPPORT																					
INSTALL COST																					
TOTAL PROGRAM COST		1.4		1.6		1.0		1.1													

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEM TYPE MODIFICATION: SMARTSHIP MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:  
 Funds will be used to backfit labor saving Smartship enabling technologies on CG and DDG class ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	\$	QTY	\$	QTY	\$	QTY	\$														
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<i>RDT&amp;E</i>																						
<i>PROCUREMENT</i>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	4	34.0	0	0.0	0	0.0	3	15.6														
EQUIPMENT NONRECURRING		1.0		4.0		5.0																
TEST EQUIPMENT		2.3					1	5.8														
TRAINING EQUIPMENT				6.6																		
SUPPORT EQUIPMENT			*	5.5																		
ENGINEERING		8.9		10.2		5.3		6.6														
LOGISTICS		0.0		1.3		2.0		1.0														
TRAINING		0.0		0.4		0.5		0.7														
ENGINEERING CHANGE PROPOSALS		0.3		1.1		2.5																
INSTALL COST		0.0		0.0		7.3		5.4														
TOTAL PROGRAM COST	4	46.5	0	29.1	0	22.6	4	35.1														

\* \$5.5m OSD Deferral

**CLASSIFICATION: UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: AWS MODIFICATION TITLE: SMARTSHIP

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: \_\_\_\_\_  
 ADMINISTRATIVE LEADTIME: 12 months PRODUCTION LEADTIME: 12 months  
 CONTRACT DATES: FY 2000: N/A FY 2001: N/A FY 2002: January 02  
 DELIVERY DATE: FY 2000: N/A FY 2001: N/A FY 2002: January 03

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002													
	Qty	\$	Qty	\$	Qty	\$	Qty	\$												
PRIOR YEARS	3 *	0.0			1	7.3														
FY 2000 EQUIPMENT																				
FY 2001 EQUIPMENT																				
FY 2002 EQUIPMENT							1	5.4												
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001				FY 2002									
		1	2	3	4	1	2	3	4						
IN	var	var	var	var	var	var	var	var	var						
OUT	var	var	var	var	var	var	var	var	var						

\* Funding for FY99 and prior installations budgeted in equipment procurement line (see P3A page 14). Funding transferred to installation line for FY01 and outyears.  
 \*\* Qty 1 FY02 shipset is for LBES short site and is not included here.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEMS TYPE MODIFICATION: SURFACE COMBAT SYSTEM CENTER MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

The Surface Combat System Center (SCSC) AT Wallops Island, VA. requires OPN equipment upgrades in order to maintain testing and training capabilities for the Fleet.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	<u>FY 1999 &amp; Prior</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	QTY	\$	QTY	\$

<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	2.7	VAR	1.6	VAR	0.7	VAR	1.7												
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		2.7		1.6		0.7		1.7												

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEMS TYPE MODIFICATION: AEGIS TRAINING & READINESS CENTER MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

This program provides for the upgrade of the equipment at the AEGIS Training and Readiness center so that the site can maintain training capabilities for the Fleet.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	<u>FY 1999 &amp; Prior</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	QTY	\$	QTY	\$
			QTY	\$
			QTY	\$

<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	0.9	VAR	2.7	VAR	0.6	VAR	1.7												
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		0.9		2.7		0.6		1.7												

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEM TYPE MODIFICATION: AWS ORDALTS MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

This program provides for procurement and installation of safety, required fielding, and operability modifications to core AEGIS Weapon System (AWS) elements. These requirements continue through the life of the ships.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	<u>FY 1999 &amp; Prior</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<u>RDT&amp;E</u>																							
<u>PROCUREMENT</u>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	VAR	29.6	VAR	7.7	VAR	0.3	VAR	5.3															
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST		12.4		3.0		0.8		4.4															
TOTAL PROGRAM COST		42.0		10.7		1.0		9.7															

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED:     AWS                          MODIFICATION TITLE:     ORDNANCE ALTERATIONS    

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:     AIT (PHD)    

ADMINISTRATIVE LEADTIME:     Months                          PRODUCTION LEADTIME:     Months    

CONTRACT DATES:     FY 2000:     June 00                          FY 2001:     November 00                          FY 2002:     December 01    

DELIVERY DATE:     FY 2000:     April 01                          FY 2001:     March 02                          FY 2002:     September 03    

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002													
	Qty	\$	Qty	\$	Qty	\$	Qty	\$												
PRIOR YEARS		12.4	VAR	3.0																
FY 2000 EQUIPMENT					VAR	0.8														
FY 2001 EQUIPMENT							VAR	4.4												
FY 2002 EQUIPMENT																				
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006 EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																				

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001				FY 2002										
		1	2	3	4	1	2	3	4							
IN	var	var	var	var	var	var	var	var	var							
OUT	var	var	var	var	var	var	var	var	var							



CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEM TYPE MODIFICATION: AWS SHIPALTS MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

This program provides for procurement of material required to support installation of safety, fielding, and operability modifications. These requirements continue through the life of the ships. These SHIPALTS vary in scope and will be installed primarily by Alteration Installation Teams and in Public or Private Shipyards.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

<u>FY 1999 &amp; Prior</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>	
QTY	\$	QTY	\$	QTY	\$	QTY	\$

<u>FINANCIAL PLAN (IN MILLIONS)</u>	<u>FY 1999 &amp; Prior</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>													
	QTY	\$	QTY	\$	QTY	\$	QTY	\$												
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	11.2	VAR	18.5	VAR	0.3	VAR	30.0												
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST		12.1		11.2		2.3		3.7												
TOTAL PROGRAM COST		23.3		29.7		2.6		33.7												



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS WEAPONS SYSTEMS TYPE MODIFICATION: CLASS COMMON EQUIPMENT MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

CLASS Common Equipment is battle spare HM&E equipment that is procured and stored at the shipyards in Pascagoula, MS and Bath, ME. This equipment is typically long lead items that the CG-47 and DDG-51 Ship Classes will each need on short notice in order to remain mission capable.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

FY 1999 & Prior		FY 2000		FY 2001		FY 2002	
QTY	\$	QTY	\$	QTY	\$	QTY	\$

<u>FINANCIAL PLAN (IN MILLIONS)</u>	FY 1999 & Prior		FY 2000		FY 2001		FY 2002													
	QTY	\$	QTY	\$	QTY	\$	QTY	\$												
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	VAR	0.5	VAR	2.8	VAR	0.0	VAR	2.9												
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST																				
TOTAL PROGRAM COST		0.5		2.8		0.0		2.9												



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P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AEGIS CRUISERS TYPE MODIFICATION: CG CONVERSION MODIFICATION TITLE: \_\_\_\_\_

DESCRIPTION/JUSTIFICATION:

Funds will be used to bring new combat capabilities to CG 47 class ships, including Area TBMD, Land Attack, and Area Air Defense Commander.  
 Note: AADC Comm Suite separately funded.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	<u>FY 1999 &amp; Prior</u>		<u>FY 2000</u>		<u>FY 2001</u>		<u>FY 2002</u>																		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$																	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																									
<u>RDT&amp;E</u>																									
<u>PROCUREMENT</u>																									
INSTALLATION KITS																									
INSTALLATION KITS - UNIT COST																									
INSTALLATION KITS NONRECURRING																									
EQUIPMENT								1	43.5																
EQUIPMENT NONRECURRING									4.3																
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
LOGISTICS																									
TRAINING																									
SITES EQUIPMENT																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST																									
TOTAL PROGRAM COST																									

\*Planning for availability in following year.



CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40					DATE: June 2001						
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA4/Ordnance Support Equipment</b>				P-1 ITEM NOMENCLATURE <b>Surface Tomahawk Support Equipment (J45A) (PEO(W))(BLI: 525000)</b>							
Program Element for Code B Items: <b>Not Applicable</b>				Other Related Program Elements <b>0204229N</b>							
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002						
QUANTITY		A									
COST (In Millions)	1307.0		79.7	69.3	61.2						
<p><u>Advanced Tomahawk Weapons Control System (ATWCS) (06000)</u> procures Tomahawk Weapon Systems (TWS) hardware and software upgrades resulting from RDT&amp;E initiated improvements, operational requirements, Desert Storm lessons learned, fleet systems reviews, and Land Base Test Site (LBTS) testing. This element funds the procurement of ATWCS which provides state-of-the-art open system architecture, greater graphical display, improved interface, increased mission storage capacity, improved flexibility and responsiveness.</p> <p><u>Tactical Tomahawk Weapons Control System (TTWCS) (06001)</u> procures, installs and provides software support and integration of TTWCS, the first in a series of phased replacements of the COTS/GOTS based Weapons Control System (WCS) for the TWS. The primary objective of the TTWCS is the upgrade of the ATWCS hardware as part of the Tactical Tomahawk Program (TTP), including the enhanced performance and efficient execution of new capabilities while maintaining compatibility with existing weapon systems. The TTWCS contract is a turn key procurement that includes cost of installation.</p> <p><u>Weapon Control System Product Support (06002)</u> provides for the COTS/GOTS refreshment, engineering changes, software support, testing and infrastructure to maintain compatibility and interoperability with existing and future systems.</p> <p><u>Installation of Equipment (07000)</u> funds all Fleet Modernization Program (FMP) installation costs associated with ATWCS.</p> <p><u>Theater Mission Planning Center (TMPC) Product Improvements (08000)</u> procures required software improvements. Tomahawk mission planning is highly dependent on mapping, charting and geodesy products from National Imagery and Mapping Agency (NIMA) and imagery from national systems. Transmitting the missions to Tomahawk capable platforms depends entirely on the Navy communications system which is continually improved and updated on a regular basis, many times annually. This funding allows TMPC to retain compatibility with, and exploit the capabilities of these systems.</p> <p>The FY 02 program procures ATWCS, TTWCS, TMPC product improvements and associated systems support costs.</p>											

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

WEAPONS SYSTEM COST ANALYSIS P-5								DATE: June 2001							
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA4/Ordnance Support Equipment						P-1 ITEM NOMENCLATURE/SUBHEAD Surface Tomahawk Support Equipment (J45A) (PEO (W) (BLI:525000))									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY2000			FY2001			FY 2002			FY 2003		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
03000	Afloat Planning System		324,243			0			0			0			
05000	Product Support		161,702			0			0			0			
06000	Advanced Tomahawk Weapons Control System (ATWCS)		560,892			27,290			22,010			12,355			
06001	Tactical Tomahawk Weapons Control System(TTWCS)*		0			0	3	1,633	4,900	4	1,633	6,530			
06002	WCS Product Support		0			6,284			5,463			7,351			
07000	Installation of Equipment (Non-FMP)		25,762			0			0			0			
07001	Installation of Equipment (FMP)		25,725			9,969			11,457			10,572			
08000	Theater Mission Planning Center(TMPC) Product Improvements		208,610			36,184			25,508			24,433			
			<b>1,306,934</b>			<b>79,727</b>			<b>69,338</b>			<b>61,241</b>			

\* FY 2003-2005 TTWCS unit cost fluctuations are due to the mix of configurations. TWCS to TTWCS conversions are double the cost of ATWCS to TTWCS conversions.



CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	Weapon System	A. DATE June 2001
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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy</b> <b>BA4/Ordnance Support Equipment</b>	<b>C. P-1 ITEM NOMENCLATURE</b> <b>Surface Tomahawk Support Equipment</b> <b>PEO (W) BLI 525000</b>	<b>SUBHEAD</b> <b>J45A</b>
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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
TTWCS 06001/FY 2001	3	1,633	NAVAIR, PAX RIVER	DEC 00	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	MAY 01	MAR 03	YES	
TTWCS 06001/FY 2002	4	1,633	NAVAIR, PAX RIVER	DEC 00	C/FPI	LOCKHEED MARTIN VALLEY FORGE, PA	DEC 01	JUN 03	YES	

D. REMARKS

CLASSIFICATION: CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION** Date: June 2001

MODELS OF SYSTEM AFFECTED: CG/DD/DDG TYPE MODIFICATION: RELIABILITY MODIFICATION TITLE: ADVANCED TOMAHAWK WEAPON CONTROL SYSTEM

DESCRIPTION/JUSTIFICATION:

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: IN PRODUCTION

FINANCIAL PLAN (IN MILLIONS)	FY 1998 & Prior		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<i>RDT&amp;E</i>																									
<i>PROCUREMENT</i>																									
INSTALLATION KITS	59	127.7	23	25.3	14	21.5	13	16.2																109	190.7
INSTALLATION KITS - UNIT COST		2.2		1.1		1.5		1.2																	
INSTALLATION KITS NONRECURRING EQUIPMENT																									
EQUIPMENT NONRECURRING																									
ENGINEERING CHANGE ORDERS																									
DATA																									
TRAINING EQUIPMENT																									
SUPPORT EQUIPMENT																									
OTHER(ENGINEERING SUPPORT)		31.1		6.1		5.8		5.8		5.6															54.4
OTHER(FINAL SOFTWARE BUILD)									6.8																6.8
OTHER																									
INTERIM CONTRACTOR SUPPORT																									
INSTALL COST	30	10.4	13	8.2	22	10.0	23	11.5	21	10.6														109	50.7
TOTAL PROCUREMENT	59	169.2	23	39.6	14	37.3	13	33.5	0	23.0														109	302.6

\* FY 1999 funds were used to install six ATWCS kits on ships which were previously installed at land based test labs.



CLASSIFICATION: **UNCLASSIFIED**

FY 2000/01 BUDGET PRODUCTION SCHEDULE, P-21						DATE June 2001																								
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY						Weapon System						P-1 ITEM NOMENCLATURE TTWCS																		
		Production Rate			Procurement Leadtimes																									
Item	Manufacturer's Name and Location		MSR	ECON	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																			
TTWCS FY 01	LOCKHEED MARTIN, VF, PA		5 /yr		20		8	22		30	EACH																			
TTWCS FY 02	LOCKHEED MARTIN, VF, PA		5 /yr		20		3	18		21	EACH																			
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												B A L												
						FISCAL YEAR 2002																								
						2000						CALENDAR YEAR 2001							CALENDAR YEAR 2002											
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
TTWCS	01		3	0	3								A																	3
TTWCS	02		4	0	4														A										4	
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2003												B A L												
						FISCAL YEAR 2004																								
						2002						CALENDAR YEAR 2003							CALENDAR YEAR 2004											
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
TTWCS	01		3	0	3						1	1	1																	0
TTWCS	02		4	0	4									1	1	1	1													0
Remarks:													FY 2001 and 2002 are LRIP procurements.																	

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA4/Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>Submarine Tomahawk Support Equipment (J45B) (PEO(W))(BLI: 525500)</b>					
Program Element for Code B Items: <b>N/A</b>							Other Related Program Elements <b>NONE</b>					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY		A										
COST (In Millions)	<b>\$118.3</b>		<b>\$3.5</b>	<b>\$2.8</b>	<b>\$3.1</b>							
<p><u>Submarine-Advanced Tomahawk Weapon Control System</u> (Sub-ATWCS) provides open system architecture, extensive hardware (TAC-X) processors, Common Display Console Unit, racks, cables, connectors, etc., and software commonality with surface systems. Sub-ATWCS installation on 688 class submarines is a prerequisite for installation on the VIRGINIA class submarine.</p> <p><u>Submarine-Tactical Tomahawk Weapon Control System</u> (Sub-TTWCS) provides all capabilities associated with Submarine ATWCS and accommodates the Tactical TOMAHAWK variant. TTWCS hardware for submarines will support the following functions: Receipt of Over the Horizon (OTH) tracking data external to TTWCS; Engagement Planning; Inventory Management of missiles; Strike Planning; Interface with the Combat Control System to transfer engagement plans, TOMAHAWK Mission data, and flight software.</p> <p>The FY 02 program procures TTWCS hardware for submarines and associated system support costs.</p>												

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System			DATE: June 2001						
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA4/Ordnance Support Equipment							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Submarine Tomahawk Support Equipment (J45B) (PEO(W))(BLI: 525500)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
02000	Submarine-ATWCS Production Engineering		118,257	3	692	2,075 1,389	3	727	2,180							
02001	Submarine-TTWCS						1	500	500	4	475	1,900				
02002	WCS Product Support								153			1,162				
			<b>118,257</b>			<b>3,464</b>			<b>2,833</b>			<b>3,062</b>				

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>JUNE 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4 Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>VERTICAL LAUNCH SYSTEM - 526000</b>					
Program Element for Code B Items:							Other Related Program Elements <b>N/A</b>					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY			N/A	N/A	N/A							
COST (In Millions)	<b>\$10.3</b>	A	<b>\$5.3</b>	<b>\$6.9</b>	<b>\$6.9</b>							
SPARES COST (In Millions)												

**SUBMARINES**

The SSN-688 Class Vertical Launch System (VLS) is a weapons system which provides the SSN-688 Class submarines with the capability to carry, status, preset, and launch up to twelve TOMAHAWK cruise missiles from vertical tubes located in the forward non-pressure hull area. This weapons system is being added to all SSN-688 Class submarines starting with SSN-719 in FY 86 with out degra any existing SSN-688 Class weapons system capabilities or submarine operational characteristics. The VLS launches TOMAHAWK conventional land attack cruise missiles. The TOMAHAWK cruise missile was modified to allow operation in a vertical orientation. VLS was procured and installed under the SCN appropriation. VLS support, test, and handling equipment are provided by this OPN P-1 line item.

The AUR Simulator is a test and training device that is loaded into a missile tube to simulate an operational Encapsulated TOMAHAWK Vertical All Up Round (AUR) allowing the VLS to be exercised through the launch phase without actually launching a missile. The AUR Simulator consists of an AUR Electronic Simulator enclosed in a Volumetric Shape. The AUR Electronic Simulator (AURES) simulates the AUR operations either while installed in the Volumetric Shape or in the stand-alone mode via electrical umbilical connection. The Volumetric Shape simulates the weight and shape of an operational AUR, provides a watertight, pressure-proof enclosure for the AURES, and interfaces with the missile tube in a manner similar to an operational AUR so that no damage to the tube will occur during simulation. The missile tube bore gauge is used to verify the proper missile tube clear bore to ensure compatibility with the TOMAHAWK AUR. The AUR loader is a funnel-shaped device which mounts to the missile tube muzzle face. It acts as a guide for the AUR and provides the mechanism to push the AUR down during loading and pull the AUR out of the missile tube during unloading. The Missile Tube Control Panel (MTCP) (SSN 719-725, 750) and the Tube Control Panel (TCP) (SSN 751-773) display...he status of the missile tubes, controls the operation of the missile tube hatches, and displays the status of various subsystems.

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>JUNE 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-4</b>							P-1 ITEM NOMENCLATURE <b>VERTICAL LAUNCH SYSTEM BLI# 5260</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY			N/A	N/A	N/A							
COST (In Millions)	<b>\$10.3</b>	A	<b>\$5.3</b>	<b>\$6.9</b>	<b>\$6.9</b>							
SPARES COST (In Millions)												

**SURFACE**

VERTICAL LAUNCHING SYSTEM - The Vertical Launching System MK-41 is a general-purpose launching system, capable of launching missiles against air, surface, and subsurface targets in response to commands from the weapons control system. The VLS has capability to stow, select, prepare for launch, and launch the following missiles: Tomahawk, VLA, ESSM and SM-2 BLK II/III/IIIA/IIIB/IV. There are over 6,000 launcher cells in 70 VLS MK-41 equipped combatants in the fleet, 44 launchers in the TICONDEROGA (CG-47) Class Cruiser (two 61 cell launchers), 21\* launchers in the SPRUANCE (DD-963) Class Destroyer (one 61 cell launcher), and 36.0 launchers in the ARLEIGH BURKE (DDG-51) Class Destroyer (one 61 cell and one 29 cell launcher).

The OPN requirements are to procure ORDALT kits and governmentfield activity support for ORDALT installation planning, provide sustaining engineering support to VLS ships in the fleet, and procure test equipment/special tool replacement in support of ship ROH/SRA testing. The VLS MK-41 program has requirements to procure ORDALTs required for SM-2 BLK IVA and SM-3 for DDG-51 and CG-47 classes in support of Navy Theater Ballistic Missile Defense (TBMD) program. Conduct engineering investigations of 4 to 6 inadvertent deluges and 2 to 3 missile duds per year in order to minimize future material damage. Collect, investigate, and prioritize computer program trouble reports. Investigate discrepancies in, update, and correct shipboard Allowance Equipment Lists (AELs), Consolidated Onboard Ship Allowance Lists (COSALs), and configuration lists. Provide ORDALT production engineering support.

\* 3 SPRUANCE (DD-963) Class Ships are being decommissioned in FY01 bringing the total to 21 DD-963s.

**UNCLASSIFIED**



CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS			Weapon System										DATE:			
P-5													JUNE 2001			
APPROPRIATION/BUDGET ACTIVITY			ID Code		P-1 ITEM NOMENCLATURE/SUBHEAD											
Other Procurement, Navy					Vertical Launch Systems BLI: 526000/05 SBHD: 845A											
BA-4 Ordnance Support Equipment																
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2000			FY 2001			FY 2002						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
5A101	<u>SUBMARINES N-87</u> AUR ELECTRONIC SIMULATOR Shape/skid Assembly Internal Load Bank Thermal Protection Improved AURVS Cable Improved AURVS Junction Box Improved Ballast Can Covers Improved Ballast Can Pads Improved Platform Tent	A									9	253	2,277			
5A102	AUR ELECTRONIC SIMULATOR (AURES) MK-101 MK 101 Tactical Tomahawk Kit Mod 4 Training Guide Interactive Courseware Mod 53 Acceptance Tester	A		2	230	460	3	135	405	25	16	400				
5A107	LOADING SUPPORT EQUIPMENT Miscellaneous support equipment Special Test Equipment	A				354			215			73				
5A116	FACILITY HARDWARE	A				195			109			17				
<b>SUBTOTAL (SUBMARINES N-87)</b>			<b>0</b>			<b>1,135</b>			<b>752</b>			<b>2,767</b>				

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System									DATE: JUNE 2001				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4 Ordnance Support Equipment				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Vertical Launch Systems BLI: 526000/05 SBHD: 845A												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002							
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
5A118	SHIPALT MATERIAL																
	TCP Maintenance Module			6	77.0	462						4	85	340			
	TCP Follow-on Upgrade						1	1,161	1,161			2	200	400			
	Test Pressure Station Adaptors			30	4.0	120											
	Fairing Linkage Upgrade			1	668	668						1	315	315			
	Hydraulics Block Upgrade											1	540	540			
5A6IN	NON-FMP INSTALLATIONS					168			284								
5AINS	FMP INSTALLATIONS					440			897					1353			
<b>SUBTOTAL (SUBMARINES N-87)</b>			<b>0</b>			<b>2,993</b>			<b>3,094</b>					<b>5,715</b>			

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System				DATE: <b>JUNE 2001</b>								
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD <b>VERTICAL LAUNCH SURFACE SYSTEM/A45A BLI# 5260</b>											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2000			FY 2001			FY 2002						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	<b>SURFACE N86</b>															
5A003	VLS ORDALTS		1,647			0			2,438			364				
5A830	PRODUCTION ENGINEERING		1,416			1,485			242			225				
5A870	SPEC TOOLING/TEST EQUIP		0			0			0			0				
5A900	CONSULTING SERVICES		34			26			26			0				
5A5IN	FMP INSTALLATION		824			787			1,117			553				
	<b>SUBTOTAL (SURFACE N86)</b>					<b>2,298</b>			<b>3,823</b>			<b>1,142</b>				
	<b>TOTAL</b>		<b>0</b>			<b>5,291</b>			<b>6,917</b>			<b>6,857</b>				

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE <b>JUNE 2001</b>		
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA-4 ORDNANCE SUPPORT EQUIPMENT</b>					C. P-1 ITEM NOMENCLATURE <b>SSN 688 CLASS VERTICAL LAUNCH SYSTEM 5A101 AUR ELECTRONIC SIMULATOR</b>				SUBHEAD <b>845A</b>	
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>FY2000</u> Internal Load Bank Thermal Protection	21	\$1	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
<u>FY2001</u> Internal Load Bank Thermal Protection	23	\$1	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
<u>FY2002</u> Shape/skid Assembly	9	\$253	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A

# UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE		
								<b>JUNE 2001</b>		
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
<b>Other Procurement, Navy BA-4</b>					<b>SSN 688 CLASS VERTICAL LAUNCH SYSTEM</b>					
<b>ORDNANCE SUPPORT EQUIPMENT</b>					<b>5A102 AURES MK101</b>				<b>845A</b>	
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
<b>FY2000</b>										
Tactical Tomahawk Kit	2	\$230	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
Training Guide	1	\$35	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
Interactive Courseware	1	\$70	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A
<b>FY2001</b>										
Tactical Tomahawk Kit	3	\$150	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A
<b>FY2002</b>										
Tactical Tomahawk Kit	25	\$16	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A

CLASSIFICATION:

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE			
<b>B. APPROPRIATION/BUDGET ACTIVITY</b>					<b>C. P-1 ITEM NOMENCLATURE</b>					<b>SUBHEAD</b>	
<b>Other Procurement, Navy BA-4</b>					<b>SSN 688 CLASS VERTICAL LAUNCH SYSTEM</b>						
<b>ORDNANCE SUPPORT EQUIPMENT</b>					<b>5A118 SHIPALT MATERIAL</b>					<b>845A</b>	
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>FY2000</u>											
TCP Maint Module	6	\$77	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A	
Test Pressure Station Adapto	30	\$4	LCE		COMPET	COMPETITIVE/LCE	11/99	4/00	YES	N/A	
Fairing Linkage Upgrade	1	\$668	NUWC		COMPET	COMPETITIVE/NUWC	11/99	4/00	YES	N/A	
<u>FY2001</u>											
TCP Follow-on Upgrade	1	\$1,191	NUWC		COMPET	COMPETITIVE/NUWC	11/00	4/01	YES	N/A	
<u>FY2002</u>											
TCP Maint Module	4	\$85	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A	
TCP Follow-on Upgrade	2	\$200	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A	
Fairing Linkage Upgrade	1	\$315	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A	
Hydraulics Block Upgrade	1	\$540	NUWC		COMPET	COMPETITIVE/NUWC	11/01	4/02	YES	N/A	

CLASSIFICATION: UNCLASSIFIED

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 751-773 TYPE MODIFICATION: \_\_\_\_\_ MODIFICATION TITLE: TCP UPGRADE SHIPALT SSN 3939  
PLUS TWO SHORESITES

DESCRIPTION/JUSTIFICATION:  
 THIS MOD FIXED THE FOLLOWING DEFICIENCIES: RESPONSE TIME DELAY; UNNECESSARY AUDIBLE ALARM WHILE TUBE IS EMPTY; POOR ACCESS TO AIR FILTERS; INABILITY TO KEEP AUR INTERNAL DIFFERENTIAL PRESSURE WITHIN SPECIFIED RANGE: DISPLAY OF DIFERNTIAL PRESSURE ONLY WHEN SYSTEM IS IN "OPERATE" MODE

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Yrs		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<i>RDT&amp;E</i>																							
<i>PROCUREMENT</i>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	25	6.49																					
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST		2.55		0.14		0.22																	
TOTAL PROCUREMENT		9.05		0.14		0.22																	

CLASSIFICATION: **UNCLASSIFIED**

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: SSN 751-773 MODIFICATION TITLE: TCP UPGRADE SHIPALT SSN 3939  
 PLUS TWO SHORESITES

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT  
 ADMINISTRATIVE LEADTIME: 8 Months PRODUCTION LEADTIME: 12 Months  
 CONTRACT DATES: FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_ FY 2002: \_\_\_\_\_  
 DELIVERY DATE: FY 2000: \_\_\_\_\_ FY 2001: \_\_\_\_\_ FY 2002: \_\_\_\_\_

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003																													
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty																													
PRIOR YEARS	22	2.55	1	0.14	2	0.22																																
FY 2000 EQUIPMENT																																						
FY 2001 EQUIPMENT																																						
FY 2002 EQUIPMENT																																						
FY 2003 EQUIPMENT																																						
FY 2004 EQUIPMENT																																						
FY 2005 EQUIPMENT																																						
FY 2006 EQUIPMENT																																						
FY 2007 EQUIPMENT																																						
TO COMPLETE																																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001				FY 2002			
		1	2	3	4	1	2	3	4
In	23	1	1	0	0	0	0	0	0
Out	23	0	1	1	0	0	0	0	0

P-3A







CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 719-725, 750 TYPE MODIFICATION: FIELD CHANGE MODIFICATION TITLE: MISSILE TUBE CONTROL PANEL DRAIN INHIBIT FIX (5A118)

DESCRIPTION/JUSTIFICATION:  
 THIS MOD ALLOWS OPERATION OF THE OTHER TUBES IN A BANK WHEN A TUBE'S DIFFERENTIAL PRESSURE TRANSDUCER PRESSURE SWITCH FAILS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Yrs		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<u>RDT&amp;E</u>																							
<u>PROCUREMENT</u>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	8	0.12																					
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST				0.17		0.06																	
TOTAL PROCUREMENT		0.12		0.17		0.06																	



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 751 - 773 TYPE MODIFICATION: FIELD CHANGE MODIFICATION TITLE: TCP 5VDC POWER SUPPLY (5A118)

DESCRIPTION/JUSTIFICATION:  
 MOD FIXED A GROUNDING PROBLEM ON EB DIV - BUILT SHIPS SSN 751 AND LATER

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Yrs		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<i>RDT&amp;E</i>																							
<i>PROCUREMENT</i>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	1	0.06																					
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST				0.03																			
TOTAL PROCUREMENT		0.06		0.03																			



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 751-773 TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: TCP MAINTENANCE  
PLUS 2 SHORE SITES MODULE SHIPALT

DESCRIPTION/JUSTIFICATION: (5A118)

THIS MOD FACILITATES MAINTENANCE OF THE TCP.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Yrs		FY 2000		FY 2001		FY 2002															
	QTY	\$	QTY	\$	QTY	\$	QTY	\$														
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<i>RDT&amp;E</i>																						
<i>PROCUREMENT</i>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	1	0.18	6	0.46			4	0.34														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST				0.12		0.32		0.32														
TOTAL PROCUREMENT		0.18		0.59		0.32		0.66														





CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 751-773 TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: TCP FOLLOW-ON UPGRADE  
 PLUS 2 SHORE SITES (5A118)

DESCRIPTION/JUSTIFICATION:  
 MOD WILL ACCOMPLISH SOME OR ALL OF THE RECOMMENDATIONS IN A 1992 SSN 688 CLASS PLANNING YARD REPORT THAT WERE NOT ACCOMPLISHED VIA SHIPALT 3939KP, WHICH ACCOMPLISHED 6 OF THE RECOMMENDATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Yrs		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<i>RDT&amp;E</i>																							
<i>PROCUREMENT</i>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT					1	1.19	2	0.40															
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST							0.00	0.30															
TOTAL PROCUREMENT							1.19	0.70															



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 719-720, 723-725, 750-773 TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: Test Pressure Station Adaptors (5A118)

DESCRIPTION/JUSTIFICATION:  
 This alteration adds adaptors to existing hydraulic test pressure stations to facilitate Performance Monitoring Team (PMT) testing. During new construction several of the stations were installed such that testing is difficult or impossible. SSN 721 and 722 did not have stations installed during new construction, so testing on these ships is handled in a different manner.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Yrs		FY 2000		FY 2001		FY 2002																				
	QTY	\$	QTY	\$	QTY	\$	QTY	\$																			
<u>FINANCIAL PLAN (IN MILLIONS)</u>																											
<i>RDT&amp;E</i>																											
<i>PROCUREMENT</i>																											
INSTALLATION KITS																											
INSTALLATION KITS - UNIT COST																											
INSTALLATION KITS NONRECURRING																											
EQUIPMENT			30	0.12																							
EQUIPMENT NONRECURRING																											
ENGINEERING CHANGE ORDERS																											
DATA																											
TRAINING EQUIPMENT																											
SUPPORT EQUIPMENT																											
OTHER																											
OTHER																											
OTHER																											
INTERIM CONTRACTOR SUPPORT																											
INSTALL COST							0.02	0.11																			
TOTAL PROCUREMENT				0.12	0.02		0.11																				



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 719-725, 750-773. TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: Fairing Linkage Upgrade (5A118)

DESCRIPTION/JUSTIFICATION:  
 This alteration modifies the VLS fairing to Muzzle Hatch connecting links with predominantly off-shelf hardware to provide increased accuracy of adjustment and eliminate potential binding and interference areas.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Yrs		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<i>RDT&amp;E</i>																							
<i>PROCUREMENT</i>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT			1	0.67			1	0.32															
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST								0.15															
TOTAL PROCUREMENT		0.00		0.67		0.00		0.47															



CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 719-725, 750-773. TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: Hall Switch (5A118)

DESCRIPTION/JUSTIFICATION:  
 This alteration replaces internal glass-body electromechanical reed switches with an electronic Hall Effect switch actuated by a single pole magnetic field to provide ease of manufacture, eliminate magnet rotational positioning of present magnets, and allow use of higher reliability magnets better suited to the environment.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	Prior Yrs		FY 2000		FY 2001		FY 2002															
	QTY	\$	QTY	\$	QTY	\$	QTY	\$														
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<i>RDT&amp;E</i>																						
<i>PROCUREMENT</i>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT																						
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
TOTAL PROCUREMENT																						





CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSN 719-725, 750-773. TYPE MODIFICATION: KP SHIPALT MODIFICATION TITLE: Improved Hydraulic Block Upgrade (5A118)

DESCRIPTION/JUSTIFICATION:  
 This alteration provides improved shaft, clevis, and turnbuckle on the fairing cylinder and modifies the lock arm to improve ease of adjustment

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

	Prior Yrs		FY 2000		FY 2001		FY 2002															
	QTY	\$	QTY	\$	QTY	\$	QTY	\$														
<u>FINANCIAL PLAN (IN MILLIONS)</u>																						
<i>RDT&amp;E</i>																						
<i>PROCUREMENT</i>																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							1	0.54														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
TOTAL PROCUREMENT								0.54														





**CLASSIFICATION: UNCLASSIFIED**

P3A (Continued)	<b>INDIVIDUAL MODIFICATION (Continued)</b>																			
MODELS OF SYSTEMS AFFECTED: <u>DD963/CG47/DDG 51 Class</u>	MODIFICATION TITLE: <u>MK-41 Vertical Launching Systems</u>									<u>Jun-01</u>										
INSTALLATION INFORMATION:																				
METHOD OF IMPLEMENTATION: <u>AIT</u>																				
ADMINISTRATIVE LEADTIME: <u>6 Months</u>					PRODUCTION LEADTIME: <u>18 Months</u>															
CONTRACT DATES: FY 2000: _____			FY 2001: _____			FY 2002: _____														
DELIVERY DATE: FY 2000: _____			FY 2001: _____			FY 2002: _____														
(\$ in Millions)																				
Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003											
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty											
PRIOR YEARS				0.8		0.0		0.0												
FY 2000 EQUIPMENT					var	1.1														
FY 2001 EQUIPMENT							var	0.6												
FY 2002 EQUIPMENT									var											
FY 2003 EQUIPMENT																				
FY 2004 EQUIPMENT																				
FY 2005 EQUIPMENT																				
FY 2006EQUIPMENT																				
FY 2007 EQUIPMENT																				
TO COMPLETE																				
INSTALLATION SCHEDULE:																				
	FY 2000 & Prior	FY 2001				FY 2002														
		1	2	3	4	1	2	3	4											
IN	0	0	0	0	0	0	0	0	0											
OUT	0	0	0	0	0	0	0	0	0											

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY - (BA-4) Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>Strategic Platform Support Equipment/#535500/#535506</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)		A	<b>\$9.2</b>	<b>\$2.9</b>	<b>\$9.8</b>							
SPARES COST (In Millions)												
<p><b>PROGRAM DESCRIPTION/JUSTIFICATION:</b></p> <p>Funding in this P-1 line provides for the procurement of TRIDENT Platform Support Equipment, specifically for ordnance support, ship alterations and test equipment for the TRIDENT Submarine and TRIDENT Refit Facility (TRIREFAC) located at Naval Submarine Bases (Bangor, WA and Kings Bay, GA) and other support facilities. The TRIDENT program has shifted from its modernization phase to a program designed to maintain TRIDENT's capability to perform its defined mission. This will be accomplished via its Obsolete Equipment Replacement (OER) program.</p> <p>OBSOLETE EQUIPMENT REPLACEMENT (OER) - Replacement of existing ordnance hardware/software that though functional has become operationally obsolete, is no longer in production or supportable with spare parts, has a high failure rate, or is no longer cost effective to maintain. OER hardware/software changes would be expected to provide a significant cost savings in reduced maintenance costs and would use Commercial-Off-The-Shelf (COTS) Technology where ever possible as long as all technical requirements are met.</p> <p>INSTALLATION (ORDNANCE) - Provides funding for ordnance equipment installation (commenced FY98) resulting from the TRIDENT OER Program.</p>												

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System TRIDENT Defensive Weapons System								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4: Ordnance Support Equipment				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD A Strategic Platform Support Equipment/84U9										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
U9221	Equipment OER	A				9,051			2,875			9,155			
U9INS	Installation	A				141			0			668			
			0			9,192			2,875			9,823			

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE June 2001		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4: Ordnance Support Equipment					C. P-1 ITEM NOMENCLATURE Strategic Platform Support Equipment U9221 Obsolete Equipment Replacement (OER)				SUBHEAD 84U9	
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
<b><u>Fiscal Year (00)</u></b>										
PSNS SSBN 732 Overhaul	*	\$1,241.70	NAVSEA	N/A	WR	PSNS, Bremerton, WA	5/00	6/00	YES	
MK2 Block 1C (Shipsets 735/738)	2	\$847.60	NAVSEA	N/A	CPFF	RSSD, Manassas, VA	7/00	4/02	YES	
CCS MK2 Block 1C (TUE)	*	\$2,105.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/00	1/02	YES	
CCS MK2 Block 1C (TUE)	*	\$66.00	NAVSEA	N/A	RC	NAWC TSD, Orlando, FL	6/00	1/02	YES	
CCS MK2 Block 1C (TUE)	*	\$601.80	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	5/00	1/02	YES	
MK96 Shielding Issue	1	\$38.40	NAVSEA	N/A	WR	NUWC Keyport, WA	5/00	1/02	YES	
CCS MK2 Block 1C (TLCSF)	*	\$264.70	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	7/00	1/02	YES	
CCS MK2 Block 1C (TLCSF)	*	\$43.10	NAVSEA	N/A	RC	NUWC Newport, RI	7/00	1/02	YES	
CCS MK2 Block 1C (SS) Oper.	1	\$825.60	NAVSEA	N/A	CPFF	RSSD, Manassas, VA	7/00	4/02	YES	
CCS MK2 Block 1C (SS) Oper.	1	\$372.90	NAVSEA	N/A	RC	NUWC Newport, RI	4/00	4/02	YES	
CCS MK2 Block 1C (SS) Oper.	1	\$1.10	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/02	YES	
CCS MK2 Block 1C Surcharge	*	\$32.80	NAVSEA	N/A	WR	NUWC Newport, RI	5/00	N/A	YES	
CCS MK2 Block 1C (TLCSF)	*	\$53.60	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/02	YES	
CCS MK2 Block 1C (TLCSF)	*	\$102.30	NAVSEA	N/A	RC	NUWC Newport, RI	4/00	4/02	YES	
Rev. 5.6 DPS UYK-43	*	\$71.40	NAVSEA	N/A	WR	NUWC Newport, RI	6/00	4/02	YES	
MK2 Block 1C (Shipsets 735/738)	2	\$372.85	NAVSEA	N/A	RC	NUWC Newport, RI	6/00	4/02	YES	
MK2 Block 1C (Shipsets 735/738)	2	\$26.80	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/02	YES	
MK2 Block 1C FY99 733/TTFB	1	\$162.70	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	7/00	4/01	YES	
MK2 Block 1C FY99 733/TTFB	1	\$89.20	NAVSEA	N/A	RC	NUWC Newport, RI	4/00	4/01	YES	
MK2 Block 1C FY99 733/TTFB	1	\$27.90	NAVSEA	N/A	WR	NUWC Keyport, WA	4/00	4/01	YES	
MK2 Block 1C Shipsets 738	1	\$159.10	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	7/00	4/02	YES	
CCS Rev. 7.0 Cert/Testing	1	\$73.90	NAVSEA	N/A	WR	NUWC Newport, RI	8/00	4/01	YES	
CCS Rev. 7.0 (MK2 BL1C)	1	\$180.90	NAVSEA	N/A	WR	NUWC Newport, RI	9/00	4/01	YES	
DWS/CS Hardware	1	\$42.50	NAVSEA	N/A	WR	NUWC Newport, RI	8/00	4/01	YES	
<b><u>Fiscal Year (01)</u></b>										
MK2 Block 1C (ATWCS)	1	\$256.70	NAVSEA	N/A	WR	NUWC Newport, RI	8/01	4/02	YES	
CCS Rev. 7.1 Certification/Testing	1	\$400.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
CSA MK2 6" EXCM HM&E Material	1	\$504.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/01	4/02	YES	
CCS Rev. 7.1 Planning Yard	1	\$996.00	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	3/01	4/02	YES	
CCS MK2 Block 1C (TUE)	*	\$142.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
ARCI Phase I/II(TA&HA MPP)(TUE)	*	\$366.00	NAVSEA	N/A	WR	NUWC Newport, RI	3/01	4/02	YES	
AN/UYK-43 OSM (NUWC)	1	\$87.30	NAVSEA	N/A	CPFF	Lockheed M., Manassas VA	2/01	4/02	YES	
Misc. NAVSEA Adj.		\$123.00								
<b><u>Fiscal Year (02)</u></b>										
CCS MK2 Block 1C Shipsets	3	\$1,561.66	NAVSEA	N/A	WR	NUWC Newport, RI	2/02	4/04	YES	
CSA MK2 6" EXCM HM&E Material	8	\$558.75	NAVSEA	N/A	CPFF	EB Corp., Groton, CT	2/02	4/04	YES	
<b>D. REMARKS</b>										
* Procurement to support modification of TRIDENT Shore Sites and installation of shore based CCS MK2 Block 1C. Procures various components/technical support not broken out on this report.										

# UNCLASSIFIED

CLASSIFICATION:

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				A. DATE	
<b>Other Procurement, Navy</b>					<b>Strategic Platform Support Equipment</b>				<b>June 2001</b>	
<b>BA-4: Ordnance Support Equipment</b>					<b>U9INS Installation</b>				<b>84U9</b>	
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
<b><i>Fiscal Year (00)</i></b> CCS MK2 Block 1C	1	\$141.00	NAVSEA	N/A	WR	NUWC, Newport, RI	5/00	4/02	Yes	
<b><i>Fiscal Year (01)</i></b> None										
<b><i>Fiscal Year (02)</i></b> CCS MK2 Block 1C (TUE)	1	\$688.00	NAVSEA	N/A	WR	NUWC Newport, RI	2/02	4/04	Yes	
D. REMARKS										



P3A **INDIVIDUAL MODIFICATION**  
 TRIDENT Defensive Weapons Sys. (CCS)  
 MODELS OF SYSTEM AFFECTED: MK2 Mod3/DWS MK118 OER Upgrade TYPE MODIFICATION: Obsolete Equipment Replacement MODIFICATION TITLE: CCS MK2 Block 1C Upgrade on OHIO Class Submarines

DESCRIPTION/JUSTIFICATION:  
 Replace obsolete equipment and achieve optimum commonality among submarine combat systems.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: OPEVAL = 7/94

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<u>RDT&amp;E</u>		5.6																			0	5.6	
<u>PROCUREMENT</u>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT	2	2.9	2	3.63			3	4.69													7	11.2	
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT	1	1.1	1	1.20	Note #3		1	0.00													3	2.3	
SUPPORT EQUIPMENT	1	1.4																			1	1.40	
OTHER*	*	0.2	*	3.0	*	2.37																5.57	
OTHER*			*	1.24																		1.24	
OTHER**																							
INTERIM CONTRACTOR SUPPORT					Note #2				Note #1														
INSTALL COST			2	0.14	1	0.0	2	0.7													5	0.84	
TOTAL PROCUREMENT	4	5.6	3	9.1	1	2.4	3	4.69													11	21.7	

**Note #1** Shows Installation cost for 2 units in FY02. 1 SSN Trainer unit covered by STF San Diego in FY02.  
**Note #2** CCS MK2 Block 1C Installation costs are covered under ARCI/CCS MK2 Block1C Installation during D-5 Conversion Period (ie. SSBN 732 (in FY00) and SSBN 733 (in FY01) are covered under BA2 Installation (BLI 267606)).  
**Note #3** Procured separately.  
 \* Procurement to support modification of TRIDENT Shore Sites and installation of shore based CCS MK2 Block 1C. Procures various components/technical support not broken out on this report.  
 \*\* Procurement to support CCS MK2 Technology Refresh (CCS Revision 9.0).

CLASSIFICATION: UNCLASSIFIED

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

MODELS OF SYSTEMS AFFECTED: \_\_\_\_\_ MODIFICATION TITLE: CCS MK2 Block 1C Upgrade on OHIO Class Submarine

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Engineered Availabilities/Refit Periods

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 24 Months

CONTRACT DATES: FY 2000: 12/99 FY 2001: 12/00 FY 2002: 12/01

DELIVERY DATE: FY 2000: 12/01 FY 2001: 12/02 FY 2002: 12/03

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS			Note a		2	0.1	1	0.0	1	0.00											4	0.1
FY 2000 EQUIPMENT									1	0.70											1	0.7
FY 2001 EQUIPMENT									Note b												0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						

INSTALLATION SCHEDULE (Shipboard):

	FY 2000 & Prior	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				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	1	0	1	0	0	0	0	1	0	0	0	1	0	1	0	1	1	1	0	1	0	0	0	1	1	1	1	1	0	14	
Out	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	1	1	0	0	0	0	1	0	1	1	2	1	14	

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Note a: Installation of TRIDENT Life Cycle Support Facility Shore Site and SSBN 732 shipset in FY00.  
 Note b: Installation of San Diego Team Trainer and SSBN 735 shipset in FY02.  
 Note c: Installation of Kings Bay Team Trainer, Norfolk Team Trainer and SSBN 738 shipset in FY03.  
 Note d: Installation of Bangor Team Trainer and SSBNs 736 & 740 shipsets in FY04.  
 Note e: Installation of Kings Bay and Bangor TRIDENT Refit Facility Shore Sites and SSBN 731 shipset in FY06.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CSA MK2 MOD 0 TYPE MODIFICATION: Obsolete Equipment Replacement MODIFICATION TITLE: Six Each External Countermeasures

DESCRIPTION/JUSTIFICATION:

Replaces the CSA MK1 5 Inch External Countermeasure System with the CSA MK2 MOD 6 Inch External Countermeasure System on SSBNs 730-733, 735-740.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		IC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<u>RDT&amp;E</u>																						0	0.0
<u>PROCUREMENT</u>																							
INSTALLATION KITS																						0	0.0
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							0.0
EQUIPMENT			1	**	1	0.50	8	4.47														10	5.0
EQUIPMENT NONRECURRING																							0.0
ENGINEERING CHANGE ORDERS																							0.0
DATA																							0.0
TRAINING EQUIPMENT																							0.0
SUPPORT EQUIPMENT																							0.0
OTHER																							0.0
OTHER																							0.0
OTHER																							0.0
INTERIM CONTRACTOR SUPPORT																							0.0
INSTALL COST							6	*														6	0.0
TOTAL PROCUREMENT	0	0.00	1	0.00	1	0.50	8	4.47														10	5.0

\* Installation Activity to be determined.  
 \*\* One procurement made with BA2 (267600) in FY00.

CLASSIFICATION: UNCLASSIFIED

P3A (Continued)

**INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: CSA MK2 MOD 0      MODIFICATION TITLE: Six Inch External Countermeasures

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: Three phased refit/pierside installation

ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 12 Months / 9 Months for kits

CONTRACT DATES:    FY 2000: 12/99                      FY 2001: 12/00                      FY 2002: 10/01

DELIVERY DATE:    FY 2000: 9/00                                  FY 2001: 9/01                                  FY 2002: 7/02

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS																					0	0.0
FY 2000 EQUIPMENT							1	*													1	0.0
FY 2001 EQUIPMENT							1	*													1	0.0
FY 2002 EQUIPMENT							4	*													4	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				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	1	1	4	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Out	0	0	0	0	0	0	0	0	1	1	2	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

\* Installation Activity to be determined.

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<b>BUDGET ITEM JUSTIFICATION SHEET</b>	DATE <b>June 2001</b>
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<b>APPROPRIATION/BUDGET ACTIVITY</b> OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 4	<b>P-1 ITEM NOMENCLATURE</b> STRATEGIC MISSILE SYSTEMS EQUIPMENT (535800)
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	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07
<b>QUANTITY</b>								
Cost (in millions)	\$236.7	\$165.1	\$205.1					

Funding in this P-1 line provides for the procurement of Strategic Weapons System (SWS) equipment for deployed SSBNs and shore support sites to support the TRIDENT program.

**OTHER MATERIAL SUPPORT**

A broad range of other material support equipment must be procured for deployed SSBNs, shore installations and contractor facilities. Included within this category are general and special purpose test equipment, launcher expendables, navigation principal items, test instrumentation in support of missile flight tests, missile checkout equipment and weapons system operation and evaluation equipment. Amounts included within this P-1 line for this category are subdivided as follows:

	FY 2000	FY 2001	(\$000)	FY 2002
Launcher and Handling Equipment	0	8,900		3,600
Fire Control Equipment	1,500	1,000		3,200
Navigation Equipment	2,200	3,300		8,800
Instrumentation/Missile Checkout Equipment	0	0		3,800
Weapons System Operation and Evaluation Equipment	400	0		0
<b>Total</b>	<b>\$4,100</b>	<b>\$13,200</b>		<b>\$19,400</b>

Launcher and Handling Equipment: Funding in FY 2001 - FY 2002 is required to procure Launcher Expendables (namely, MK-74 Gas Generators and Launch Tube Closures).

Fire Control Equipment: Funding in FY 2000 - FY 2002 provides for Capital Maintenance Projects at the Naval Industrial Reserve Ordnance Plant (NIROP) in Pittsfield, MA; these projects are essential to correct environmental, safety and energy conservation deficiencies. The FY 2002 request also provides for procurement of MK-98 Mod 1 and Mod 4 Fire Control System and Support Equipment replacement items onboard SSBNs and at shore sites.

Navigation Equipment: Funding is required in all years for replacement of worn or damaged items of inertial test equipment used at contractors' plants to support test, evaluation, and analysis of inertial instruments; and for procurement of critical components essential to maintain configuration control and equipment reliability.



**TRAINING**

This category provides for procurement of, and alterations to, both tactical and non-tactical equipment required at submarine training facilities to train personnel in the operation and maintenance of launcher and handling, fire control, navigation, missile checkout, and sonar subsystems. Each training facility consists of an integrated family of system and unit laboratories that interface with a central stimulation complex to provide complete and realistic training for replacement and off crew personnel, both officer and enlisted, as required for manning of SSBNs and shore facilities. Funding in FY 2000 - FY 2002 is budgeted to procure training unique equipment required as the result of SPALTs to SWS tactical equipment. Amounts included in this P-1 line for training are as follows:

	<u>FY 2000</u>	<u>FY 2001</u>	(\$000)	<u>FY 2002</u>
<b>Training Support Equipment</b>	<b>\$3,586</b>	<b>\$4,490</b>		<b>\$3,694</b>

**TRIDENT II (D-5) BACKFIT**

Beginning in FY 2000, four 726-Class TRIDENT I (C-4) submarines will be backfitted to TRIDENT II (D-5) configuration during their regularly scheduled overhauls. OPN funding for this effort supports procurement of TRIDENT II (D-5) weapons system equipment required to replace C-4 equipment. FY 2000 - FY 2002 funding supports production, on a lead-time-from-need basis, of TRIDENT II SWS subsystem and training equipment.

	<u>FY 2000</u>	<u>FY 2001</u>	(\$000)	<u>FY 2002</u>
<b>TRIDENT II (D-5) Backfit</b>	<b>\$133,800</b>	<b>\$117,900</b>		<b>\$118,300</b>

**UNCLASSIFIED**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) PROGRAM COST BREAKDOWN							DATE: June 2001	
APPROPRIATION/BUDGET ACTIVITY OPN BA-4: ORDNANCE SUPPORT EQUIPMENT				P-1 ITEM NOMENCLATURE/SUBHEAD STRATEGIC MISSILE SYSTEMS EQUIPMENT/34U9				
TOTAL COST IN THOUSANDS OF DOLLARS								
WEAPON SYSTEM COST ELEMENTS	Ident. Code	FY 00 Qty	Total Cost	FY 01 Qty	Total Cost	FY 02 Qty	Total Cost	
Other Material Support			4,100		13,200		19,400	
Alterations			95,200		29,500		63,700	
Training Support Equipment			3,586		4,490		3,694	
TRIDENT II Backfit			133,800		117,900		118,300	
<b>Total</b>			<b>\$236,686</b>		<b>\$165,090</b>		<b>\$205,094</b>	

**P-1 SHOPPING LIST  
ITEM NO. PAGE NO.**

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CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4 Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>SSN Combat Control System BLI: 542000 SBHD: H4VB</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY												
COST (In Millions)			<b>\$35.4</b>	<b>\$19.4</b>	<b>\$40.7</b>							
SPARES COST (In Millions)												
<p><b>INSERVICE ENGINEERING CHANGES (VB011)</b>            Provides for the procurement of Engineering Changes (EC) and Ordnance Alterations (ORDALT) to correct fleet reported problems with Combat Control System software and hardware.; Reliability, Maintainability, and Availability (RM&amp;A) deficiencies, and Safety issues associated with in-service SSN/SSBN Combat Control System components and interface Equipments, interfacing systems and peripheral or special equipment.</p> <p>The MK 2 Technical Refresh program will provide for periodic upgrade to the MK 2 Block 1C system to incorporate changes to the COTS hardware and software required to maintain technical and logistics currency.</p> <p><b>CCS OBSOLETE EQUIPMENT REPLACEMENT (OER) PROGRAM (VB034)</b>            Provides for procurement of new software and hardware to satisfy OPNAV operational requirements to upgrade the current Combat control Systems on SSN submarines. The intent is to standardize capabilities and hardware configurations across all platforms.</p> <p>The MK 2 Block 1C program will replace obsolete and unreliable equipment and will achieve optimum commonality among submarine combat systems by incorporating new commercial based processors to replace the existing MIL SPEC hardware; replacing the obsolete input/output device with a new, more reliable keyboard printer; adding a parallel processor for Over The Horizon Targeting and adding new Common Display Consoles to replace obsolete MK 81 Weapon Control Consoles. Additionally, the new Tactical Weapons Simulator replaces both the Mk 75 Digital Missile Simulator and the Mk 22 Weapon Simulator, saving space and weight, while improving reliability and logistics support.</p> <p>The AN/BSG-1 program will provide a standalone system for interfacing the Combat Control System on all platforms with the nuclear TOMAHAWK missile.</p> <p>The TOMAHAWK Breakout Box provides electrical access to the vertical launch system. This facilitates the insertion of simulation signals for the end-to-end calibration, testing and training.</p> <p>The Tactical Weapons Simulator Upgrade expands the capability of the hardware to allow test of all weapon launchers at the same time.</p> <p>The MK 2 Block 2 program will upgrade the Weapons Launching hardware and software.</p>												

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION		DATE: <b>June 2001</b>
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4 Ordnance Support Equipment</b>	P-1 ITEM NOMENCLATURE <b>SSN Combat Control System BLI: 542000 SBHD: H4VB</b>	
<p>PRODUCTION SUPPORT (VB033) This account (VB033) procures technical data, mock-ups, demonstrations and testing products directly for the SSN Combat System Obsolete Equipment Replacement (OER) program. Also procured are services required to support production engineering, quality assurance, product improvement and acceptance testing for production line items. Technical on-site support at shipyards and depots for hardware related problems is also included.</p> <p>LOGISTIC SUPPORT REQUIREMENTS (VB983) This account (VB900) procures integrated logistics products directly for the SSN Combat System Obsolete Equipment Replacement (OER) program. Also procured are logistics engineering services which perform essential documentation updates related to major hardware revision</p> <p>INITIAL TRAINING (VB995) This account funds the initial factory training (including both training deliverables and instructional services) for CCS hardware and software changes and upgrades implemented through the CCS OBSOLETE EQUIPMENT REPLACEMENT (OER) PROGRAM (VB034) and INSERVICE ENGINEERING CHANGES (VB011) lines.</p> <p>CONSULTING SERVICES (VB900) This account provides assistance for asset management, cost analyses, ORDALT planning, preparation of contract specifications, monitoring of contract deliverables, prime contractor cost, schedule and performance monitoring, ILS planning and GFI coordination.</p> <p>EQUIPMENT INSTALLATION (VB5NS) Funds are for the installation of Combat Control System equipments included in the Fleet Modernization Program.</p> <p>NON-FMP INSTALLATION (VB6NS) Funds are for the installation of Combat Control System equipments not included in the Fleet Modernization Program.</p> <p>OTHER INFORMATION Developmental efforts are funded by Program Element 64562N within the SSN Combat Control System Improvement Program F0236.</p>		

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System							June 2001				
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA-4 Ordnance Support Equipment</b>				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD <b>SSN COMBAT CONTROL SYSTEM BLI: 542000 SBHD: H4VB</b>										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>N87 SUBMARINES</u></b>														
<b>VB011</b>	<b><u>IN-SERVICE ENG CHANGES</u></b>	A				<b>11,266</b>			<b>1,942</b>			<b>7,071</b>			
	ECP/Auxiliary Equipment					4,840			1,025			1,033			
	CCS MK2 Technical Refresh					6,426			917			6,038			
<b>VB034</b>	<b><u>CCS OER PROGRAM MODS</u></b>					<b>7,912</b>		<b>2,127</b>	<b>6,381</b>			<b>16,275</b>			
	CCS MK2 Block 1C Upgrade Kits	B	4	1,978	7,912	3	2,127	6,381	4	2,249	8,996				
	AN/BSG-1 PLS	B							3	667	2,001				
	TMHWK Break Box	A							13	406	5,278				
	MK2 TWS Upgrade	A													
	CCS MK2 Block 2 Upgrade Kits	B													
<b>VB033</b>	<b>PRODUCTION SUPPORT</b>					1,398			1,245			1,591			
<b>VB900</b>	<b>CONSULTING SERVICES</b>					1,110			517			1,253			
<b>VB983</b>	<b>LOGISTICS SUPPORT</b>					3,425			1,026			1,319			
<b>VB995</b>	<b>INITIAL TRAINING</b>					686			529			608			
	<b>MATERIAL TOTAL</b>					<b>25,797</b>			<b>11,640</b>			<b>28,117</b>			
<b>VB5NS</b>	<b>EQUIP INSTALLATION (FMP)</b>					9,556			5,716			10,918			
<b>VB6NS</b>	<b>NON-FMP EQUIP INSTALLATION</b>								2,060			1,681			
						<b>35,353</b>			<b>19,416</b>			<b>40,716</b>			

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	Weapon System	A. DATE <b>June 2001</b>
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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy</b> <b>BA-4 Ordnance Support Equipment</b>	<b>C. P-1 ITEM NOMENCLATURE</b> <b>SSN Combat Control System BLI: 542000</b>	<b>SUBHEAD</b> <b>H4VB</b>
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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
<b>CCS MK2 OER</b>										
BLOCK 1C UPGRADES (FY00)	4	\$1,978	NAVSEA		SS/FP	RAYTHEON ELECTRONIC SYSTEMS Portsmouth, RI	07/00	11/01	YES	
BLOCK 1C UPGRADES (FY01)	3	\$1,659	NAVSEA		SS/FP	LOCKHEED MARTIN, NE&SS Eagan, MN	12/00	12/01	YES	
BLOCK 1C UPGRADES (FY01)	3	\$468	NAVSEA	12//2000	C/FP	TBD	05/01	11/02	YES	

<b>D. REMARKS</b>
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CLASSIFICATION:

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B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy BA-4 Ordnance Support Equipment					SSN Combat Control System BLI: 542000				H4VB	
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
<b>CCS MK2 OER</b>										
BLOCK 1C UPGRADES (FY02)	4	\$1,759	NAVSEA		SS/FP	LOCKHEED MARTIN, NE&SS Eagan, MN	12/01	12/02	Yes	
BLOCK 1C UPGRADES (FY02)	4	\$490	NAVSEA		C/FP	TBD	12/01	06/03	Yes	
AN/BSG-1 WLS (FY02)	3	\$667	NAVSEA		SS/FFP	RAYTHEON ELECTRONIC SYSTEMS Portsmouth, RI	06/02	06/03	No	
BREAKOUT BOX (FY02)	13	\$406	NUWC NEWPORT	10//2001	C/FP	TBD	01/02	07/02	No	
D. REMARKS										

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**  
 MODELS OF SYSTEM AFFECTED: CCS MK2 D0/1A/B to Block 1C TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS

DESCRIPTION/JUSTIFICATION:

This program replaces obsolete equipment and will achieve optimum commonality among submarine combat systems while maximizing the use of commercial electronics and NDI products.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/96; TECHEVAL 2/00; OPEVAL 5/00; MILESTONE III 10/00

	FY 1999 & Pr		FY 2000		FY 2001		FY 2002													
	QTY	\$	QTY	\$	QTY	\$	QTY	\$												
<u>FINANCIAL PLAN (IN MILLIONS)</u>																				
<i>RDT&amp;E</i>																				
<i>PROCUREMENT</i>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	2	\$2.8	2	\$4.0																
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT	2	\$2.8																		
SUPPORT EQUIPMENT																				
CCS TEST FACILITY UPGRADE																				
OTHER (NON-FMP INSTALL)						\$0.4		\$0.8												
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST			1	\$2.1	1	\$1.2	2	\$3.2												
TOTAL PROCUREMENT	4	\$5.6	2	\$4.0	0	\$0.0	0	\$0.0												

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: CCS MK2 D0/1A/B to CCS MK2 D0 Block 1C      MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: AIT  
 ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 18 - 24 Months  
 CONTRACT DATES: FY 2001: Mar-99      FY 2002: Jul-00  
 DELIVERY DATE: FY 2001: Nov-00      FY 2002: Nov-01

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003															
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty															
PRIOR YEARS			1	\$2.1	1	\$1.2																		
FY 2000 EQUIPMENT							2	\$3.2																
FY 2001 EQUIPMENT																								
FY 2002 EQUIPMENT																								
FY 2003 EQUIPMENT																								
FY 2004 EQUIPMENT																								
FY 2005 EQUIPMENT																								
FY 2006 EQUIPMENT																								
FY 2007 EQUIPMENT																								
TO COMPLETE																								

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001				FY 2002			
		1	2	3	4	1	2	3	4
In	1	0	1	0	0	1	1	0	0
Out	1	0	1	0	0	1	1	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/BSY-1 to CCS MK2 D0 Block 1C TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS

DESCRIPTION/JUSTIFICATION:

This program replaces obsolete equipment and will achieve optimum commonality among submarine combat systems while maximizing the use of commercial electronics and NDI products.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/96; TECHEVAL 11/99; OPEVAL 6/00; MILESTONE III 10/00

	FY 1999 & Pr		FY 2000		FY 2001		FY 2002																				
	QTY	\$	QTY	\$	QTY	\$	QTY	\$																			
<u>FINANCIAL PLAN (IN MILLIONS)</u>																											
<i>RDT&amp;E</i>																											
<i>PROCUREMENT</i>																											
INSTALLATION KITS																											
INSTALLATION KITS - UNIT COST																											
INSTALLATION KITS NONRECURRING																											
EQUIPMENT	6	\$17.0	1	\$2.0	3	\$6.4	3	\$6.7																			
EQUIPMENT NONRECURRING																											
ENGINEERING CHANGE ORDERS																											
DATA																											
TRAINING EQUIPMENT																											
SUPPORT EQUIPMENT																											
OTHER (NON-FMP INSTALL)						\$1.2		\$0.4																			
OTHER																											
OTHER																											
INTERIM CONTRACTOR SUPPORT																											
INSTALL COST	1	\$2.0	2	\$3.7	3	\$3.4	1	\$1.6																			
TOTAL PROCUREMENT	6	\$19.0	1	\$2.0	3	\$6.4	3	\$6.7																			









CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/BSG-1 Weapon Launching System (WLS) TYPE MODIFICATION: UPGRADE MODIFICATION TITLE: SSN COMBAT CONTROL SYSTEMS

DESCRIPTION/JUSTIFICATION:  
 This program provides a cost-effective, timely approach to meeting TLAM-N regeneration requirements and a common launcher interface across all attack submarines maximizing capabilities while minimizing operation, training and supportability costs.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: MILESTONE II 05/97; SDCT 12/00; MILESTONE III 10/01

	FY 1999 & Pr		FY 2000		FY 2001		FY 2002																
	QTY	\$	QTY	\$	QTY	\$	QTY	\$															
<u>FINANCIAL PLAN (IN MILLIONS)</u>																							
<i>RDT&amp;E</i>																							
<i>PROCUREMENT</i>																							
INSTALLATION KITS																							
INSTALLATION KITS - UNIT COST																							
INSTALLATION KITS NONRECURRING																							
EQUIPMENT							3	\$2.0															
EQUIPMENT NONRECURRING																							
ENGINEERING CHANGE ORDERS																							
DATA																							
TRAINING EQUIPMENT																							
SUPPORT EQUIPMENT																							
OTHER																							
OTHER																							
OTHER																							
INTERIM CONTRACTOR SUPPORT																							
INSTALL COST																							
TOTAL PROCUREMENT		\$0.0		\$0.0		\$0.0	3	\$2.0															















CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED:     MK2 BLOCK 2     MODIFICATION TITLE:     SSN COMBAT CONTROL SYSTEMS    

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: \_\_\_\_\_  
 ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME:     18 Months      
 CONTRACT DATES: FY 2001: \_\_\_\_\_ FY 2002: \_\_\_\_\_  
 DELIVERY DATE: FY 2001: \_\_\_\_\_ FY 2002: \_\_\_\_\_

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003														
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty														
PRIOR YEARS																							
FY 2000 EQUIPMENT																							
FY 2001 EQUIPMENT																							
FY 2002 EQUIPMENT																							
FY 2003 EQUIPMENT																							
FY 2004 EQUIPMENT																							
FY 2005 EQUIPMENT																							
FY 2006 EQUIPMENT																							
FY 2007 EQUIPMENT																							
TO COMPLETE																							

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002			
	& Prior	1	2	3	4	1	2	3	4
In	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0

P-3A

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: JUNE 2001					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4 Ordnance Support Equipment</b>							P-1 ITEM NOMENCLATURE <b>SUBMARINE ASW SUPPORT EQUIPMENT BL1: 543100 SBHD: 846A</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY												
COST (In Millions)			<b>\$4.1</b>	<b>\$3.9</b>	<b>\$5.9</b>							
SPARES COST (In Millions)												
<p><b>PROGRAM DESCRIPTION/JUSTIFICATION:</b></p> <p>This line item procures modifications and improvements to Attack and Ballistic Missile Submarine fire interface systems, torpedo tube system components and torpedo tube test equipment. These requirements arise as a result of the introduction of new or modified weapons and sensors and their subsequent evaluation test and operational use. Also procured are reliability, maintainability, functional and safety modifications and tactical improvements resulting from operational use experience.</p> <p>This line funds modifications and improvements in the following categories:</p> <p>6A002 - The Submarine Torpedo Tube Support category funds in-service support and alteration procurements for all submarine torpedo tubes ejection pumps, handling systems, and countermeasure launchers. Recurring efforts are CASREP support to the fleet units, emergency ORDALTs, Bore Gage/Test Equipment Procurement, Engineering Change Proposal support and prototype ORDALTs. ORDALTs kits are procured to correct significant deficiencies in equipment affecting personnel safety, ship safety and system performance.</p> <p>6A5IN - Installing agents will be various Naval Shipyards and contractors. All installations will be on SSN 688/21 Class Submarines.</p>												

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: JUNE 2001					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4 Ordnance Support Equipment						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD SUBMARINE ASW SUPPORT EQUIPMENT BLI: 543100 SBHD: 846A										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002							
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	SUBMARINE (N87)																
6A002	SUB TORPEDO TUBE SUPPORT	A															
	O/A PROTOTYPE/ECP MATERIAL					261			265						852		
	2J COG MATERIAL					223			227						230		
	TEST EQUIPMENT																
	BORE GAGE					260			260						270		
	TEST FACILITY EQUIPMENT					322			340						1250		
	MISC. TEST EQUIPMENT					258			250						669		
	TEP ORDALTs/TRIDS																
	O/A 16264 TEP QUIET 1			2	409.5	819		2	416.0	832		2	425.0	850			
	TPES FIRING VALVE																
	TOTAL EQUIPMENT					2,143			2,174					4,121			
6A51N	INSTALLATION OF EQUIPMENT (FMP)					1,990			1,767					1,814			
						4,133			3,941					5,935			

CLASSIFICATION:

**UNCLASSIFIED**

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE			A. DATE		
<b>Other Procurement, Navy</b>					<b>SUBMARINE ASW SUPPORT EQUIPMENT BL1: 543100</b>			<b>JUNE 2001</b>		
<b>BA-4: ORDNANCE SUPPORT EQUIPMENT</b>								<b>846A</b>		
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 00</u> SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	409.5	NAVSEA		WR	NUWC NEWPORT, RI	JAN 00	OCT 00	YES	
<u>FY 01</u> SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	416	NAVSEA		WR	NUWC NEWPORT,RI	JAN 01	OCT 01	YES	
<u>FY 02</u> SUB TORPEDO TUBE O/A 16264 TEP QUIET 1	2	425	NAVSEA		WR	NUWC NEWPORT,RI	JAN 02	OCT 02	YES	
D. REMARKS										

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE ASW SUPPORT EQUIPMENT TYPE MODIFICATION: ORDALT MODIFICATION TITLE: SUB TORPEDO TUBE ORDALT 16264

DESCRIPTION/JUSTIFICATION:  
 PROJECT UNIT: ORDALT 16264 SUBMARINE TORPEDO EJECTION PUMP MK 5 MODS 15 THROUGH 20 UPGRADE REDUCTS THE DETECTION AND CLASSIFICATION OF THE SSN 688 CLASS SUBMARINE WEAPON LAUNCH SIGNATURE.  
 IO = 37

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: \_\_\_\_\_

FY 1999 & Prior		FY 2000		FY 2001		FY 2002	
QTY	\$	QTY	\$	QTY	\$	QTY	\$

<u>FINANCIAL PLAN (IN MILLIONS)</u>	FY 1999 & Prior		FY 2000		FY 2001		FY 2002													
	QTY	\$	QTY	\$	QTY	\$	QTY	\$												
<u>RDT&amp;E</u>																				
<u>PROCUREMENT</u>																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	21	5.7	2	0.8	2	0.8	2	0.9												
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	21	10.8	2	2.0	2	1.8	2	1.8												
TOTAL PROCUREMENT		16.5		2.8		2.6		2.7												

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

MODELS OF SYSTEMS AFFECTED: SUBMARINE ASW MODIFICATION TITLE: SUB TORPEDO TUBE ORDALT 16264  
**SUPP EQUIPMENT**

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: \_\_\_\_\_  
 ADMINISTRATIVE LEADTIME: \_\_\_\_\_ PRODUCTION LEADTIME: 9 MONTHS  
 CONTRACT DATES: FY 2001: Jan-01 FY 2002: Jan-02  
 DELIVERY DATE: FY 2001: Oct-01 FY 2002: Oct-02

(\$ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003														
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty														
PRIOR YEARS	21	10.8																					
FY 2000 EQUIPMENT			2	2.0																			
FY 2001 EQUIPMENT					2	1.8																	
FY 2002 EQUIPMENT							2	1.8															
FY 2003 EQUIPMENT																							
FY 2004 EQUIPMENT																							
FY 2005 EQUIPMENT																							
FY 2006 EQUIPMENT																							
FY 2007 EQUIPMENT																							
TO COMPLETE																							

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002			
	& Prior	1	2	3	4	1	2	3	4
In	23	0	1	1	0	0	1	1	0
Out	23	0	1	1	0	0	1	1	0



CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-4, ORDNANCE SUPPORT EQUIPMENT</b>							P-1 ITEM NOMENCLATURE <b>SURFACE ASW SUPPORT EQUIPMENT, (544900 &amp; 544905) 746B</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)			<b>\$6.0</b>	<b>\$13.1</b>	<b>\$3.2</b>							<b>\$22.3</b>
SPARES COST (In Millions)												<b>\$0.0</b>
<p>This line item provides funding to procure Reliability, Maintainability and Availability (RM&amp;A) and Safety modifications through the Ordnance Alteration (ORDALT) process to in-service ASW Fire Control, Surface Vessel Torpedo Tubes and related support and test equipment. These requirements arise as a result of evaluation, testing and Fleet use of existing, new or modified ASW weapons and/or related systems and subsystems. Included in this line item are all related procurements for training and simulation equipment required for the life cycle support efforts of this equipment. ORDALT quantities are highly variable.</p> <p>Cost Code 6B001 provides funding for Ordnance Alteration (ORDALT) kits for the ASW Underwater Fire Control System (UFCS) MK116 MOD4 and the Control Panel MK309 MOD2. Provides material support for the UFCS MK116 and Control Panel MK309 shoresite laboratory at NSWC Dahlgren. Procurements will ensure laboratories are at Fleet baseline configurations. Provides funding for equipment upgrades for the MK331 Torpedo Setting Panel and the Torpedo Presetter Test Set MK432 MOD4/MOD6.</p> <p>Cost Code 6B004 provides funding for Surface Vessel Torpedo Tubes (SVTT) MK32 and ancillary equipment for testing, training and maintainability. FY02-03 ORDALT procurements include: SVTT ORDALT (15713, 16412, 16413, 16564, 16627, 16628, 16678, 16717); Control Box improvement ORDALT (TBD); Barrel Ready Circuit Rewiring ORDALT (TBD); Advanced Torpedo Ready Breach (ATTRB); Launcher Train Drive Switch Rewiring ORDALT (TBD); Torpedo Loading Tray ORDALT (15714); Air Charging Panel ORDALT (TBD); and Torpedo Test Shape (TTS) Torpedo MK54 Compatibility ORDALT (TBD). ORDALT procurements are highly variable, dependent on shipboard configurations and equipment age. Installations are highly variable and are based on pier-side availabilities and ship homeports. Procure Surface Vessel Torpedo Tubes (SVTT) shoresite laboratory equipment for Launcher System Facilities (LSF). LSFs are used to simulate shipboard conditions for over-the-side torpedo launchers in the trouble shooting of Fleet reported problems, as well as for the development of the required ORDALTs.</p> <p>(1) Installation agent: All ORDALTs are installed via AIT.            (2) Installations will be accomplished over the remaining fiscal years, during TYCOM scheduled pier-side availabilities.            (3) End items are variable, dependent on shipboard configuration and equipment that affect shoresites: NUWC Newport, UDLP, and Fleet/Service School Commands.</p> <p>Cost Code 6B005 provides fully remanufactured/upgraded SVTT systems to the FFG-7 and DDG-51 Class ships at pre-determined intervals, based on the life of the ship. This program will also provide long-lead launchers and other components to support upgrades, CASREP resolution and ISEA engineering requirements.</p>												

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CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET ITEM JUSTIFICATION SHEET</b> <b>P-40</b>		DATE: <b>June 2001</b>
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-4, ORDNANCE SUPPORT EQUIPMENT</b>	P-1 ITEM NOMENCLATURE <b>SURFACE ASW SUPPORT EQUIPMENT, (544900 &amp; 544905) 746B</b>	
<p>Cost Code 6B830 provides the necessary engineering support funds to cover the associated ILS elements, ECP reviews, and engineering audits for SVTT and Fire Control ORDALT production.</p> <p>Cost Code 6B860 provides the in-house Navy acceptance test and evaluation funding required for the safety and quality assurance testing of all Fire Control ORDALTS.</p> <p>Cost Code 6B900 provides the necessary funding for consulting services required for all scheduling of ORDALT production test and installation in conjunction with operation, safety and environmental requirements.</p> <p>Cost Code 6B5IN funds installation of all FCS/SVTT ORDALTs and Flexible Universal Stowage System (FUSS) under the Fleet Modernization Program (FMP). ORDALT AIT pier-side installations are variable and contingent on TYCOM scheduling.</p>		

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System						DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4, ORDNANCE SUPPORT EQUIPMENT				ID Code A	P-1 ITEM NOMENCLATURE/SUBHEAD SURFACE ASW SUPPORT EQUIPMENT, (544900 & 544905) 746B										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
6B001	FIRE CONTROL ORDALTs	A				1,525			1,693			458			
6B004	TORPEDO TUBE ORDALTs	A				1,240			1,410			418			
6B005	SVTT UPGRADES	A						7,000							
6B830	PRODUCTION ENGINEERING SUPPORT	A				393			277			60			
6B860	FIRE CONTROL ACCEPTANCE T&E	A				90			115			30			
6B900	CONSULTING SERVICES	A				437			416			30			
6B5IN	FMP INSTALLATION OF EQUIPMENT	A				(2,343)			(2,236)			(2,217)			
	FIRE CONTROL/SVTT					366			75			255			
	FUSS					1,977			2,161			1,962			
						6,028			13,147			3,213			

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA 4 - ORDNANCE SUPPORT EQUIPMENT</b>							P-1 ITEM NOMENCLATURE <b>ASW Range Support Equipment - BLI: 545500</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)			<b>\$6.3</b>	<b>\$6.8</b>	<b>\$6.0</b>						<b>Cont.</b>	<b>Cont.</b>
SPARES COST (In Millions)												<b>\$0.0</b>
<p>Funding provides for the procurement of training range and shore support equipment, Test and Evaluation (T&amp;E), and Acoustic Trial range equipment, and weapon system and test support equipment. Equipment procured includes instrumentation for Fleet Operational Readiness Accuracy Check Sites (FORACS) and Naval Undersea Warfare Center, Keyport (NUWC, KPT) T&amp;E ranges, support equipment required to conduct Fleet exercises at Navy ASW Training ranges, Weapon System Accuracy Trials (WSAT) test, Surface Ship Radiated Noise Measurement (SSRNM), Sensor Accuracy Test (SAT), Ship ASW Readiness/Effectiveness Measuring (SHAREM) and Sonar Acoustic Target Source (SATS). Training and T&amp;E ranges supported include Southern California Offshore Range (SCORE), Barking Sands Tactical Underwater Range/Barking Sands Underwater Range Extension (BARSTUR/BSURE), Atlantic Underwater Test and Evaluation Center (AUTECE), Atlantic Fleet Weapons Training Facility (AFWTF) (St. Croix), Nanoose, Quinault and Dabob Bay. FORACS ranges supported include Andros Island, Southern California, and Hawaii.</p> <p>6C001 - Weapon System and Test Support Equipment: Funding provides for the procurement of high power ESM targets, range communication systems, replacement of obsolete range computers, ship auto-tracking system, Surface Ship Acoustic Range Components, Sensor Accuracy Test (SAT) equipment, Ship ASW Readiness/Effectiveness Measuring (SHAREM), upgraded ship position tracking system and upgrade hardware for Sonar Acoustic Target Source (SATS) as a test and calibration target for the SQQ-89I, SQS-53C, BQQ-5E and BSY-1 sonars.</p> <p>6C002 - Training/Test &amp; Evaluation Range Equipment: Funding provides for the procurement of shipboard underwater tracking equipment for the existing ranges as well as the new Shallow Water Training Ranges on both coasts and in Hawaii, shop special purpose pinger test equipment, and the associated cables/mounting hardware required to track ships and submarines conducting Fleet exercises at the Navy training ranges. NAVSEA provides all of the Navy Underwater Ranges with this tracking equipment support, because the equipment must be compatible with NAVSEA designed and built underwater vehicles (i.e. ships, submarines, torpedoes, mines and sonars). Funding provides for replacement and modernization of the following NUWC, KPT T&amp;E range systems: Acoustic Noise Measuring Recording and Analysis System, Above Water Tracking System, RF and underwater communications equipment, and range data gathering equipment.</p> <p>Production support services will fund support efforts performed by a field activity or contractor during the production phase of these projects.</p> <p>The Unmanned Seaborne Targets Program provides surface seaborne targets and target electronic augmentation systems for weapons systems test and evaluation and Fleet surface to surface and air to surface training. Target requirements include the High Speed Mobile Sea Target (HSMST), the MK42 Mod 0 Floating At Sea Target (FAST) and the High Speed Anti-Radiation Missile/Infared Missile (HARM/IR) Target, Towed Trimaran, William Sled, and Improved Surface Towed Target (ISTT). Inventory objective changes based on Fleet usage. Procurement of replacement targets for the QST-35 is planned to begin on FY05.</p> <p>VR001 - QST 35 Replacement VR003, VR004 - The fleet also requires low cost expendable moving targets and stationary targets towed to the operating site for surface, aerial gunnery and missile shots. Trimarans, HARM/IR target, Williams Sleds, and ISTT with tow lines and retrieval systems meet these requirements. The FAST is a free floating radar reflective target developed as an open ocean training device for bombing and surface gunnery exercises. This program also procures seaborne target augmentation systems which include transponders(i.e. transmitters/receivers), radar reflectors, RF emitters and ground support equipment (GSE). Various electronic components provide the interface for the target control systems with the control stations/facilities for drone operations. RF emitters and radar reflectors enhance target threat replication and provide the required stimulus for anti-surface/radar weapons systems.</p> <p>VR005 - The Fleet requires High Speed Maneuverable Seaborne Targets (HSMST) MK1. VR006 - SDST (Ship Deployable Surface Target) will be used to support ship training and T&amp;E exercises. This target will support training requirements of deploying ships, aircraft and surface gunnery requirements.</p>												

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System				DATE: June 2001								
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 4 - ORDNANCE SUPPORT EQUIPMENT				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ASW Range Support Equipment BLI: 545500				SUBHEAD 846C							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2000			FY 2001			FY 2002						
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	N86 EQUIPMENT															
6C001	Weapon System & Test Support Equip.					880			899			887				
6C002	Training/Test & Evaluation Range Equip.					256			228			173				
6C820	Consulting Services					28			24			25				
6C830	Production Engineering					86			79			79				
6C850	Product Improvement					64			67			68				
	SEABORNE TARGETS															
VR001	QST 35 REPLACEMENT															
VR003	TOWED TARGETS								602			142				
VR004	INSTRUMENTAL					383			75			0				
VR005	HSMST			5	141	705	5	144	720			450				
VR830	PRODUCTION ENGINEERING					174			178			194				
VR900	CONSULTING SERVICES					128			156			100				
VR970	INTEGRATED LOGISTICS SUPPORT					172			166			161				
	N87 EQUIPMENT															
6C001	Weapon System & Test Support Equip.					775			826			855				
6C002	Training/Test & Evaluation Range Equip.					1,921			2,342			2355				
6C820	Consulting Services					62			70			75				
6C830	Production Engineering					201			221			239				
6C850	Product Improvement					154			188			209				
						<b>6,292</b>			<b>6,841</b>			<b>6,012</b>				

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>	Weapon System	A. DATE <b>June 2001</b>
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<b>B. APPROPRIATION/BUDGET ACTIVITY</b> Other Procurement, Navy	<b>BA-4 ORDNANCE SPT EQUIPMENT</b>	<b>C. P-1 ITEM NOMENCLATURE</b> ASW RANGE SUPPORT EQUIPMENT BLI: 5455	<b>SUBHEAD</b>
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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
FY00 HSMST	5	141	NAVSEA	Jul 00	C/FP	TBD	Sep 00	Jan 01	YES	
FY01 HSMST	5	144	NAVSEA	Apr 01	C/FP	TBD	Jun 01	Oct 01	YES	

D. REMARKS

CLASSIFICATION:

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<b>BUDGET ITEM JUSTIFICATION SHEET</b>							DATE: <b>June 2001</b>					
<b>P-40</b>												
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4</b>							P-1 ITEM NOMENCLATURE <b>EXPLOSIVE ORDNANCE DISPOSAL EQUIPMENT/BLI#5509</b>					
Program Element for Code B Items: <b>0603654N</b>							Other Related Program Elements <b>0204424N</b>					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)		<b>A</b>	<b>\$8.8</b>	<b>\$7.5</b>	<b>\$9.4</b>							
SPARES COST (In Millions)			<b>\$4.3</b>	<b>\$4.3</b>	<b>\$4.8</b>							
<p>The Navy is responsible for the management and execution of the Joint Service EOD unified procurement system as assigned by DOD Directive 5160.62. All procurement of EOD tools and equipment, both initial outfitting and replenishment, for all military services is made by the Navy. The Navy provides all procurement services. There is an annual average of 300 procurement actions for this material. Each military service funds it's own hardware.</p> <p>VN005-MATERIAL FOR NAVAL SCHOOL EXPLOSIVE ORDNANCE DISPOSAL (NAVSCOLEOD): Provides for inert ordnance material to NAVSCOLEOD in support of Joint Service training.</p> <p>VN034-INITIAL OUTFIT EOD NR: EOD Naval Reserve Mobile Units/Detachments require initial outfitting of equipment on the Allowance List as approved by CNO.</p> <p>VN057-MK 32/35 ACCESSORY SET: Hardware which allows for mine neutralization mission capabilities for MK 7 and MK 4 MMS.</p> <p>VN059-EOD MOBILE UNIT ALLOWANCE: Initial outfitting of tools/equipment for increased allowances on the CNO approved Allowance List.</p> <p>VN065-MK 4 &amp; MK 7 MMS VERY SHALLOW WATER MINE COUNTERMEASURES (VSWMCM): This funding supports initial outfitting of hardware and animal behaviors required for the subject systems to operate in a limited hostile environment and enhance system survivability.</p> <p>VN066-MK 4 &amp; MK 7 MMS VSW ACCESSORY SET-Procurement of enhanced hardware design which allows for the neutralization of mines in the VSW region which are subject to tidal surge and elevated currents.</p> <p>VN067-REMOTE ORDNANCE NEUTRALIZATION SYSTEM (RONS), MK3 MOD 0: RONS consists of a remote controlled vehicle and operator control station (OCS). RONS complements/augments the EOD Technician when performing reconnaissance, access, render-safe, "pick up and carry away" (PUCA), and disposal during extremely hazardous EOD missions.</p> <p>VN068-MK 8 MMS: An advanced force system which conducts very shallow water minefield exploration and reconnaissance in support of amphibious operations. MK 8 will operate in low visibility and detect all mine types; buried, proud and moored. This funding supports initial outfitting of all system hardware and components. The following DT/OT is completed/scheduled DT-I 11/98 to 8/99; OT-I 9/99; DT II 11/99 to 10/00; OT II 10/00 to 11/00.</p>												

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CLASSIFICATION:

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<b>BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION</b>		DATE: <b>June 2001</b>
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4</b>	P-1 ITEM NOMENCLATURE <b>EOD EQUIPMENT/BLI#5509</b>	
<p>VN069-MMS ALLOWANCE: Initial outfitting of tools/equipment including veterinary equipment for increased allowances of all Fleet MMS in accordance with CNO approved allowance list.</p> <p>VN070-SMALL CALIBER DEARMER: A tool that provides the EOD technician the capability to cut, serve, jam, or disrupt small concealed firing devices and booby traps in various challenging orientations. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 10/99 to 1/01.</p> <p>VN071-STANDOFF DISRUPTER(UXO): Provides the EOD technician the capability to disrupt or render safe sophisticated threat unexploded ordnance (UXO). Modern UXO have sensors that can readily be triggered by an EOD technician near or in close proximity to the munitions. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 7/00 to 2/01.</p> <p>VN072-STANDOFF DISRUPTER(IED): Provides the EOD technician the capability to disrupt Improvised Explosive Devices (IEDs) from a standoff position. The standoff capability will allow the technicians to engage IEDs from a protective posture. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 8/00 to 5/01.</p> <p>VN073-EOD INCIDENT SITE C4 (ISC4) SYSTEM: A system that provides voice and image transmission between an EOD technician down range on a hazardous target and the control point during EOD missions. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. Preliminary testing 5/01 to 9/01. Final testing 2/02 to 9/02.</p> <p>VN074-LARGE IMPROVISED EXPLOSIVE DEVICE (IED) ACCESS &amp; DISRUPTION: Provides the EOD technicians an effective and reliable capability to neutralize large IEDs. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 12/00 to 3/02.</p> <p>VN830-PRODUCTION ENGINEERING: Review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the EOD unified procurement system. Provides production engineering support for all EOD and MMS production contracts.</p> <p>VN850-PRODUCT IMPROVEMENT: Engineering services to improve EOD/MMS Systems/Equipment in production to improve maintainability, utilize current technology and decrease cost.</p> <p>VN860-ACCEPTANCE, TEST &amp; EVALUATION: Test, inspect, accept first articles and, on a 100% basis, the production quantity of EOD tools and equipment being procured. These tools are man-rated, and proper functioning of each item must be verified.</p> <p>VNTNG-INITIAL TRAINING: Provide training support packages which include curriculum material for Joint Service EOD and Marine Mammal systems equipment.</p>		

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WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System									DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-4				ID Code A	P-1 ITEM NOMENCLATURE/SUBHEAD Explosive Ordnance Disposal Equipment/74VN												
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	Explosive Ordnance Disposal Equip N85																
VN005	MATERIAL FOR NAVSCOLEOD	A				150			131			150					
VN034	INITIAL OUTFIT EOD NR	A				386			331			350					
VN057	MK 32/35 ACCESSORY SET	A		58	6	337											
VN059	EOD MU ALLOWANCE	A				2,233			1,567			1,933					
VN065	MMS VSWMCM	A				1,660			540			686					
VN066	VSW ACCESSORY SET	A		157	3	551	152	3	535	177	3	620					
VN067	RONS	A		14	112	1,568											
VN068	MK 8 MMS	B							1,394			2,176					
VN069	MMS ALLOWANCE	A				200			569			200					
VN070	SMALL CALIBER DEARMER	B					151	2	302	55	2	110					
VN071	STANDOFF DISRUPTER(UXO)	B					52	6	312	79	6	474					
VN072	STANDOFF DISRUPTER(IED)	B								190	4	874					
VN073	EOD INCIDENT SITE C4 SYSTEM	B															
VN074	LARGE IED ACCESS & NEUTRALIZATION	B															
VN830	PRODUCTION ENGINEERING	A				605			640			665					
VN850	PRODUCT IMPROVEMENT	A				615			635			645					
VN860	ACCEPTANCE, TEST & EVALUATION	A				300			300			320					
VNTNG	INIITAL TRAINING	A				200			200			150					
						<b>8,805</b>			<b>7,456</b>			<b>9,353</b>					

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE <b>June 2001</b>		
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA 4: ORDNANCE SUPPORT EQUIPMENT</b>					C. P-1 ITEM NOMENCLATURE <b>EOD EQUIPMENT/BLI #5509</b>				SUBHEAD <b>74VN</b>	
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
FISCAL YEAR (00)										
VN057	58	6			WR	SSC, SAN DIEGO, CA	2/00	2/01	YES	
VN066	157	3			WR	SSC, SAN DIEGO, CA	2/00	2/01	YES	
VN067	14	112	NSWCIHD, IH, MD		C/FP-OPTION	REMOTEC, OAKRIDGE, TN	12/99	5/00	YES	
FISCAL YEAR (01)										
VN066	152	3			WR	SSC, SAN DIEGO, CA	2/01	2/02	YES	
VN070	151	2	NSWCIHD, IH, MD		FFP	TBD	6/01	11/01	YES	
VN071	52	6	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	6/01	10/01	YES	
FISCAL YEAR (02)										
VN066	177	3			WR	SSC, SAN DIEGO, CA	2/02	2/03	YES	
VN070	55	2	NSWCIHD, IH, MD		FFP	TBD	2/02	7/02	YES	
VN071	79	6	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	2/02	6/02	YES	
VN072	190	4	NSWCIHD, IH, MD		C/FP-OPTION	DTI, ARLINGTON, VA	2/02	6/02	NO	7/01
D. REMARKS										

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BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA 4: ORDNANCE SUPPORT EQUIPMENT</b>							P-1 ITEM NOMENCLATURE <b>ITEMS LESS THAN \$5M BLI 554300</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)			\$4.3	\$5.6	\$5.8	\$5.1	\$5.4	\$5.5	\$5.6	\$5.7		\$43.0
SPARES COST (In Millions)			\$1.7	\$2.1	\$2.5	\$2.2	\$2.2	\$2.3	\$1.8	\$2.0		\$16.8
<p><b>PROGRAM DESCRIPTION/JUSTIFICATION</b>Program Support Requirements for minor NAVSEA under \$5M is for Budget Activity 4 as follows:</p> <p><b>RA001: MK92/MK13 ORDALT Procurement:</b> Provides hardware and related materials to modify Fire Control System MK92 Mod 2/6 and Guided Missile Launching System MK13 installed onboard 23 FFG 7 Class ships. Modifications correct safety, environmental, RM&amp;A, cost of ownership and obsolescence deficiencies to maintain the readiness of the AAW/ASUW Weapons System mission for self and area defense against hostile air and surface threats, including anti-ship missile threats. Hardware is procured as Ordnance Alterations (ORDALTs). Installation of ORDALTs will be accomplished by either AIT (Alteration Installation Teams or in conjunction with routine repair actions planned in the fiscal years following the procurement.</p> <p><b>RA5IN: MK92/MK13 ORDALT Installation:</b> Provides funding to install procured MK92/MK13 ORDALTs into FFG 7 Class ships by AIT.</p> <p><b>RA003: Industrial Facilities (Calibration Equipment):</b> Provides funding for capital type rehabilitation projects at five (5) government-owned, contractor- operated plants for weapon systems such as the MK 41 Vertical Launching System, MK 45 Gun Mounts, MK 13/26 Launching Systems, MK 13/26 Launching Systems, and PHALANX. Federal Acquisition Regulation Part 52.245-7 specifies facilities use contracts require government funding of capital type rehabilitation projects to support and maintain these facilities. These plants have an average age of 45 years and lack of proper maintenance will severely limit capabilities to maintain scheduled production rates and overall productivity. The following estimates support environmental, safety, energy conservation, and major repair at the GOCO facilities.</p> <p>(Continued on next page)</p>												

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<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE:	
<b>P-40</b>		<b>June 2001</b>	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
<b>OTHER PROCUREMENT, NAVY</b>		<b>ITEMS LESS THAN \$5M</b>	
<b>BA 4: ORDNANCE SUPPORT EQUIPMENT</b>		<b>BLI 554300</b>	
Program Element for Code B Items:		Other Related Program Elements	
<p><b>RA004: Stock Surveillance Equipment</b>          Provides funding to procure test systems and equipment in support of the NAVY weapons systems and ordnance Quality Evaluation (QE) Program. The purpose of the Navy QE Program is to insure that only safe, quality, reliable, and ready Navy and Marine Corps weapons systems and ordnance items are provided to the Fleet. The results of the QE stock surveillance testing is technical readiness data used to predict when items degrade to the point where they become unsafe to store or would fail to function (unreliable) when needed and should be removed from service.          This generic (non-weapons systems specific) test equipment is needed to assess the effects of aging and exposure to environmental conditions on NAVY weapons systems and ordnance such as mines, gun ammunition, missiles, pyrotechnics, demolition systems/devices, bombs, and torpedoes throughout the in-service portion of their life cycle and will be located at NAVSEA engineering field activities. Requirements for the test equipment come from a need to replace or modernize obsolete or economically non-repairable equipment or to acquire new or expanded generic test capabilities when new evaluation techniques or process are needed.          Weapons systems specific equipment is procured/funded via the individual weapons system Program Management offices. After the weapon specific equipment has entered the inventory, these funds adapt the capability, if feasible, to become more generic and support more than one weapon system. This reduces the overall economic burden to the NAVY.</p> <p><b>RA005 Fleet Mine Support Equipment:</b>          The Fleet Mine Support program provides for procurement of material and production support for readiness of all mines in stockpile. This includes both the service mine program and the Mine Exercise and Training (MET) Program in accordance with OPNAVNOTE C8550. Funds will provide the following: (A) Procurement of mine materials to replace expended components used during the MET program for delivery proficiency. (B) Procurement of mine materials to replace expended components used during the MET program for Mine Countermeasures (MCM) proficiency. (C) Procurement of components to improve mine operational characteristics and capabilities, such as upgraded processors for compatibility with current and projected technology.</p> <p><b>RA830: Fleet Mine Support Production Engineering:</b>          Funds will provide production engineering support for mine assembly and loading, proof and test of mine components delivered from procurement. Certification of specialization/documentation relating to mine material to be procured, engineering and quality assurance services in support of mine material procurements and publications in support of component assembly and test for service and MET program.</p>			

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ITEMS LESS THAN \$5M BLI 554300								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
RA001	FLT SUPPORT ORDALTS(MK92/MK13)	A		12	74	887	12	86	1,034	12	88	1,052			
RA002	FMP Installation					112			112			111			
RA003	INDUST. FACILITIES (CALIB. EQUIP)				969			1,033			1,063				
RA004	STOCK SURVEILLANCE EQUIPMENT														
	Navy Conv. Ammunition Test Equip.				704			444			783				
	Navy Pyro/Demo Test Equipment				113			24			125				
	Navy Missile Test Equipment				320			570			351				
	Marine Corp Conven Ammunition/ Test Equipment				180			336			208				
	Navy Mine/Torpedo Test Equipment				113			176			128				
RA005	FLEET MINE SUPPORT EQUIPMENT														
	Mine System Support				690			1,570			1,680				
RA830	Production Engineering				196			262			294				
			0			4,284			5,561			5,795			0

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System MK92/MK13		A. DATE <b>June 2001</b>				
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b>					C. P-1 ITEM NOMENCLATURE <b>ITEMS LESS THAN \$5M</b>					SUBHEAD <b>84RA</b>	
Cost Element FISCAL YEAF	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	
<b>FISCAL YEAR 2000</b>											
RA001- FCS MK92 MOD 6	12	149	NSWC/PHD	2/00	CPFF	LOCKHEED/NJ	7/00	7/01	YES		
RA005 - FLT Mine Spt Eq	VAR	VAR	NAVSEA	12/99	SS/FP	British Aerospace United Kingdom	12/99	12/00	YES		
<b>FISCAL YEAR 2001</b>											
RA001- FCS MK92 MOD 6	12	86	NSWC/PHD	06/01	CPFF	LOCKHEED/NJ	2/01	2/02	YES		
RA005 - FLT Mine Spt Eq	VAR	VAR	NAVSEA	12/00	OPTION	British Aerospace United Kingdom	12/00	12/01	YES		
<b>FISCAL YEAR 2002</b>											
RA001- FCS MK92 MOD 6	12	160	NSWC/PHD	12/01	CPFF	LOCKHEED/NJ	2/02	2/03	NO		
RA005 - FLT Mine Spt Eq	VAR	VAR	NAVSEA	12/01	OPTION	British Aerospace United Kingdom	12/01	12/02	YES		
D. REMARKS											

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BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: JUNE 2001		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>OTHER PROCUREMENT, NAVY</b> <b>4 - ORDNANCE SUPPORT EQUIPMENT</b>								<b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b>  <b>ANTI-SHIP MISSILE DECOY SYSTEMS/5530</b>				
<b>Program Element for Code B Items:</b> 0604755N, Project Number: U2190/K2190								<b>OTHER RELATED PROGRAM ELEMENTS</b> <b>N/A</b>				
	FY99 and Prior	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
<b>QUANTITY</b>	18		8	8	8							42
<b>EQUIPMENT COST (In Millions)</b>	55.2	A	\$32.1	\$37.8	\$27.5							\$152.6
<b>SPARES COST (In Millions)</b>	0.7		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A	\$0.7
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>												
JUSTIFICATION: The Anti-Ship Missile Decoy Program covers a family of decoys and the equipment to deploy them. It is an essential element of the Anti-Ship Missile Defense tactics to counter the threat of enemy homing missiles. Equipment funded under this line includes:												
NULKA: This line contains various equipment and subsystems for a system which will provide the capability to defeat the effectiveness of hostile Anti-Ship cruise missiles. Currently Nulka is scheduled to be installed on the following ship classes: DD 963, DDG 51, CG 47, LSD 41, LPD 17, and DD 21. The installation will be performed during a limited availability by shipalt/AIT. Final installation plans will be made upon maturation of ship installation design.												
(a) Decoys and launching system equipment. An active off-board Anti-Ship Missile Decoy System. (b) Production Engineering Support.												
Nulka is a joint program with Australia, and is currently in service with the Australian Navy. Nulka underwent successful TECHEVAL and OPEVAL in July/August 1998 with a full production decision received in January 1999.												
EQUIPMENT INSTALLATION: Funding is for the installation of equipment, including Fleet Modernization Program Installs, and installation of equipment at shore facilities												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: JUNE 2001					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy						ORDNANCE SUPPORT EQUIPMENT						ID Code			P-1 ITEM NOMENCLATURE/SUBHEAD ANTI-SHIP MISSILE DECOY SYSTEMS/A4VV		
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
	<u>N76</u>																
	EQUIPMENT																
VV001	NULKA SYSTEMS	A	12,570	8	254	2,062	8	230	1,840	8	240	1,920					
VV002	NULKA DECOYS*	A	26,400	68	267	18,176	97	260	25,245	49	300	14,700					
VV003	Engineering Changes and Logistics Suppt		8,400			5,112			3,709			3,911					
	Engineering Changes		(4,000)			(1,100)			(1,100)			(1,137)					
	Logistics Support		(4,400)			(4,012)			(2,609)			(2,774)					
VV830	Production Engineering		3,400			1,600			1,500			1,500					
	INSTALL																
VVINS	Installation (FMP)		4,630			5,151			5,471			5,482					
	*Funds from FY 2001 will be spread into FY 2002 to maintain MSR of 66 per year.																
			55,400			32,101			37,765			27,513					0

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE			
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
OTHER PROCUREMENT, NAVY/BA-4 - ORDNANCE SUPPORT EQUIPMENT					ANTI-SHIP MISSILE DECOY LAUNCHING SYSTEM				A4VV	
Cost Element/ FISCAL YEAR	QTY	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
<i>FISCAL YEAR 00</i> VV001 (Systems)	8	254	NAVSEA		FP	Sechan Electronics Inc.	6/00	08/01	YES	
VV002 (Decoys)	68	267	DCMC Pacific		FP	BAeS, Australia	5/00	5/01	YES	
<i>FISCAL YEAR 01</i> VV001 (Systems)	8	230	NAVSEA		FP	Sechan Electronics Inc.	1/01	1/02	YES	
VV002 (Decoys)	97	260	DCMC Pacific		FP	BAeS, Australia	1/01	1/02	YES	
<i>FISCAL YEAR 02</i> VV001 (Systems)	8	240	NAVSEA		FP	Sechan Electronics Inc.	1/02	2/03	YES	
VV002 (Decoys)	49	300	DCMC Pacific		FP	BAeS, Australia	2/02	2/03	YES	
D. REMARKS										

CLASSIFICATION: **UNCLASSIFIED**

P3A INDIVIDUAL MODIFICATION																						
MODELS OF SYSTEM AFFECTED:		None - Original Installations						TYPE MODIFICATION: _____						MODIFICATION TITLE: <u>NULKA</u>								
DESCRIPTION/JUSTIFICATION: Launching system modifications to support NULKA Decoy.																						
DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: _____																						
FINANCIAL PLAN (IN MILLIONS)	FY 1999 and Prior		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		TC		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
<i>RDT&amp;E</i>	3/58	122.5	0	4.3	0	3.2	0	5.0													3/58	135.0
<i>PROCUREMENT</i>																						
INSTALLATION KITS	17	11.57	8	2.1	8	1.8	8	1.9													88	17.4
INSTALLATION KITS NONRECURRING																						0.0
SCN MK 53 DLS**	1	0.5	3	0.8	5	1.1	4	1.2														**
EQUIPMENT NONRECURRING																						0.0
ENGINEERING CHANGES		4.0		1.1		1.1		1.1														7.3
UNIT COST DATA FOR EQUIPMENT																						0.0
TRAINING EQUIPMENT	1*	0.97																			1	0.97
SUPPORT EQUIPMENT																						0.0
OTHER (DECOYS)	108	26.4	68	18.2	97	25.2	49	14.7													896	84.5
LOGISTICS SUPPORT		4.4		4.0		2.6		2.8														13.8
PRODUCTION ENGINEERING		3.4		1.6		1.5		1.5														8.0
INTERIM CONTRACTOR SUPPORT																						
PROCUREMENT COST	125	50.7	76	27.0	105	32.2	57	22.0													985	131.9
INSTALL COST	6	4.6	5	5.2	8	5.5	7	5.5													88	20.7
TOTAL PROGRAM		55.3		32.1		37.7		27.5														152.6

\* Qty (1) trainer procurement with install cost included.

P-1 SHOPPING LIST

CLASSIFICATION:

\*\*SCN is provided for information purposes only - \$\$ are not included in totals

**UNCLASSIFIED**

P3A (Continued)

INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: None. Original Installations      MODIFICATION TITLE: NULKA

INSTALLATION INFORMATION:  
 METHOD OF IMPLEMENTATION: SHIPALT/AIT  
 ADMINISTRATIVE LEADTIME: 6 Months  
 CONTRACT DATES: FY 2000: June 2000  
 DELIVERY DATE: FY 2000: August 2001

PRODUCTION LEADTIME: 14/12 Months  
 FY 2001: January 2001      FY 2002: January 2002  
 FY 2001: January 2002      FY 2002: January 2003

(\$ in Millions)

Cost:	FY 1999 and Prior		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
PRIOR YEARS																								
FY 1999 AND PRIOR	6	3.76	5	2.38	7	3.78																	18	9.92
FY 2000 EQUIPMENT				2.77	1	1.69	7	4.07															8	8.53
FY 2001 EQUIPMENT								1.41															8	5.75
FY 2002 EQUIPMENT																							8	5.57
FY 2003 EQUIPMENT																								0.00
FY 2004 EQUIPMENT																								0.00
FY 2005 EQUIPMENT																								0.00
FY 2006 EQUIPMENT																								0.00
FY 2007 EQUIPMENT																								0.00
TO COMPLETE **																								0.00

INSTALLATION SCHEDULE: SHIP AVAILABILITIES

	FY2000 AND PRIOR	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				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	11	3	0	1	4	0	3	4	0	0	4	1	3	0	1	4	3	0	6	1	1	1	4	2	1	2	1	3	2	63	89
OUT	10	1	2	1	1	4	0	3	3	1	0	3	2	2	1	1	3	4	0	3	4	1	1	3	4	0	2	1	3	61	89

APPROPRIATION/BUDGET ACTIVITY Weapon System P-1 ITEM NOMENCLATURE  
**OTHER PROCUREMENT, NAVY/BA-4 - ORDNANCE SUPPORT EQUIPMENT** ANTI-SHIP MISSILE DECOY SYSTEMS/A4VV

Item	Manufacturer's Name and Location	Production Rate			Procurement Leadtimes				Total	Unit of Measure
		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT		
MK 53 DECOY LAUNCH SYSTEM	Sippican, MASS	9		18		6	14	12		
MK 53 DECOY LAUNCH SYSTEM	Sechan, PA	9		18		6	14	14		
MK 234 NULKA ELECTRONIC DECOY	BAeS, Australia	66		192		6	12	12		

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L
						1999						CALENDAR YEAR 2000						CALENDAR YEAR 2001												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
MK 53 DECOY LAUNCH SYSTEMS	97/98		7	3	4	1	1	2																		0				
MK 53 DECOY LAUNCH SYSTEMS	99		11	0	11				1	1	1	1	1	2	1	2	1										0			
MK 53 DLS (SCN)	99		1	0	1													1								0				
MK 53 DECOY LAUNCH SYSTEMS	00		8	0	8									A											1	1	6			
MK 53 DLS (SCN)	00		3	0	3									A												3				
MK 53 DECOY LAUNCH SYSTEMS	01		8	0	8																			A			8			
MK 53 DLS (SCN)	01		5	0	5																			A			5			
MK 234 NULKA DECOY (Non-U.S.)	97		274	75	199	15	15	15	15	15	15	15	15	10	10	10	10	6	5	5	5	6	6	6			0			
MK 234 NULKA ELEC. DECOY (U.S.)	98/99		56	0	56																						0			
MK 234 NULKA ELEC. DECOY (U.S.)	00		68	0	68									A											10	10	8	8	8	24
MK 234 NULKA ELEC. DECOY (U.S.)	01		97	0	97																			A				97		

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2002												FISCAL YEAR 2003												B A L
						2001						CALENDAR YEAR 2002						2002						CALENDAR YEAR 2003						
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
MK 53 DECOY LAUNCH SYSTEMS	00		8	2	6	1	1	1	1	1	1																	0		
MK 53 DLS (SCN)	00		3	0	3							1	1	1														0		
MK 53 DECOY LAUNCH SYSTEMS	01		8	0	8				1	1	1	1	1	1	1	1											0			
MK 53 DLS (SCN)	01		3	0	3																						0			
MK 53 DECOY LAUNCH SYSTEMS	02		8	0	8							A															0			
MK 53 DLS (SCN)	02		5	0	5							A															4			
MK 53 DECOY LAUNCH SYSTEMS	03		8	0	8																						8			
MK 53 DLS (SCN)	03		5	0	5																						5			
MK 234 NULKA ELEC. DECOY (U.S.)	00		68	44	24	8	8	8																			0			
MK 234 NULKA ELEC. DECOY (U.S.)	01		97	0	97				6	5	6	5	6	5	6	6											0			
MK 234 NULKA ELEC. DECOY (U.S.)	02		49	0	49							A															32			
MK 234 NULKA ELEC. DECOY (U.S.)	03		54	0	54																						54			

Remarks: Decoy Production rates are based on a combined United States, Australia and Canada production schedule. Australia and Canada are not buying US Ship system. Presently no other countries are buying this system or decoy.

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>June 2001</b>					
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-4 ORDNANCE SUPPORT EQUIPMENT</b>							P-1 ITEM NOMENCLATURE <b>SURFACE TRAINING DEVICE MODIFICATIONS BLI; 566000 SBHD; 84TS</b>					
Program Element for Code B Items:							Other Related Program Elements					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
COST (In Millions)	N/A		<b>\$7.0</b>	<b>\$7.9</b>	<b>\$7.3</b>						<b>Cont.</b>	<b>Cont.</b>
SPARES COST (In Millions)			<b>\$0.2</b>	<b>\$0.2</b>	<b>\$0.1</b>	<b>\$0.1</b>	<b>\$0.1</b>	<b>\$0.1</b>	<b>\$0.1</b>	<b>\$0.1</b>		<b>\$1.0</b>
<p>566000) This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability.</p> <p>(TS001) CARRY-ON COMBAT SYSTEM TRAINER (COCST) COCST effort will provide a portable Battle Force Tactical Training (BFTT)/Generic Navy Stimulator/Simulator(GNSS) training capability for those ships not programmed to receive the BFTT/GNSS capability. Funding to complete COCST procurement was provided in FY 99 and FY 00. These systems will provide a portable BFTT/GNSS training capability for those ships not programmed to receive the BFTT/GNSS capability.</p> <p>(TS004) SURFACE TRAINING DEVICE MODS Provides funding for surface warfare minor modifications. These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.</p> <ul style="list-style-type: none"> <li>o Funding is provided annually for modifications to the Device S14A13 Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT) - applicable to the Multi-Mission Team Trainer (MMTT).</li> <li>o Funding is provided from FY98 through FY01 for upgrade of the Mobile Combat Systems Trainer (MCST) Device 20B5 for application to the MK 92 Mod 6 Fire Control System (FCS) - applicable to COCST.</li> <li>o Funding was provided in FY00 and out for procurement/installation/upgrade of the Navy's standardized shore based team tactics trainer - applicable to the MMTT.</li> <li>o Funding was provided in FY00 for modification of AN/USQ-T46 BFTT Systems to incorporate DoD mandated High Level Architecture (HLA) standards/functionality.</li> </ul> <p>(TS006) BFTT HIGH LEVEL ARCHITECTURE (HLA) Funding updates the requisite printed circuit cards for existing AN/USQ-T46(V) BFTT Systems in order to utilize HLA vice DIS protocols.</p> <p>(TS007) MULTI-MISSION TEAM TRAINER (MMTT) Funding consolidates the software functionality of the Device S14A13 TASWIT and the Device 20F15 TACDEW SG&amp;C and updates the systems at SWOS, at the Fleet ASW Training Centers LANT and PAC, and at the Fleet Combat Training Centers LANT and PAC.</p>												

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: Jun-01					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-4: ORDNANCE SUPPORT EQUIPMENT						ID Code						P-1 ITEM NOMENCLATURE/SUBHEAD SURFACE TRAINING DEVICE MODIFICATION BLI: 566000 SBHD:84TS					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS														
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
TS001	SURFACE MODS (N85/N86) CARRY-ON COMBAT SYSTEM TRAINER (COCST)			1	1,426	1,426											
TS004	SURFACE TRAINING DEVICE MODS Surface Minor Mods (N85) Surface Minor Mods (N86)					466			230				235				
					2,618			5,638				5,083					
TS006	BFTT HIGH LEVEL ARCHITECTURE (HLA) (N86)			36	69	2,500											
TS007	MULTI-MISSION TEAM TRAINER (MMTT) (N86)							1	2,000	2,000		1	2,000	2,000			
	SUBTOTAL (N85)					466			230			235					
	SUBTOTAL (N86)					6,544			7,638			7,083					
				0		7,010			7,868			7,318					

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA-4: ORDNANCE SUPPORT EQUIPMENT</b>					C. P-1 ITEM NOMENCLATURE <b>SURFACE TRAINING DEVICE MODIFICATIONS BLI: 566000</b>				SUBHEAD <b>SBHD:84TS</b>	
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
TS001 - FY00 COCST	1	1,426	DCMC Towson, MD	N/A	BOA	AAI Corporation Hunt Valley, MD	12/99	10/00	YES	N/A
Training Devices										
TS004- FY00	11	221	NAWCTSD Orlando, FI	N/A	FFP	ESP Lynnwood, WA	2/00	9/00	Yes	NA
TS004- FY00	1	650	NAWCTSD Orlando, FI	6/00	GSA	RDR, Inc Centerville, Va	8/00	12/02	Yes	N/A
TS004-FY-01-03	Var	TBD	NAWCTSD Orlando, FI	Various	Various	Various	Various	Various	Yes	N/A
TS006 - FY00 HLA	36	69	NSWC, PHD Port Hueneme, CA	Various	Various	Various	Various	Various	YES	N/A
TS007 - FY01 MMTT	1	2,000	NAWC TSD Orlando, FL	N/A	N/A	N/A	N/A	03/01	YES	N/A
TS007 - FY02 MMTT	1	2,000	NAWC TSD Orlando, FL	N/A	N/A	N/A	N/A	03/02	YES	N/A
D. REMARKS										

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)							Date			
Appropriation P-1 Line Item 566000							June 2001			
Weapon System (if applicable)			Equipment Nomenclature				PE			
			Surface Training Device Modifications				0804731N			
Fin Plan	Prior Years	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	TOTAL
Quantity	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR	VAR
Proc	\$15,446	\$7,010	\$7,868	\$7,318						Cont.
RDT&E										
O&S										

**(L/I 566000)** This line provides funds to modify/upgrade training devices to maintain systems at Fleet configuration and to enhance training capability.

**(TS001) CARRY-ON COMBAT SYSTEMS TRAINER (COCST)** COCST effort will provide a portable Battle Force Tactical Training (BFTT)/Generic Navy Stimulator/Simulator (GNSS) training capability for those ships not programmed to receive the BFTT/GNSS capability. Funding to complete COCST procurement was allocated in FY 99 and FY 00. These systems will provide a portable BFTT/GNSS training capability for those ships not programmed to receive the BFTT/GNSS capability.

**(TS004) SURFACE TRAINING DEVICE MODS** Provides funds for surface warfare minor modifications. These modifications are improvements/upgrades to in-service surface training systems identified by the program offices and training activities, and are approved by the Resource Sponsor. Modifications are required to meet safety standards, keep training systems compatible with equivalent changes made to fleet operational equipment, and to enhance training capabilities. These modifications support the 300+ fielded Surface training systems and their concurrency with fleet operational configuration.

**(TS005) BATTLE FORCE TACTICAL TRAINING ELECTRONIC WARFARE TRAINER (BEWT)** FY 99 Congressionally mandated funding was provided for the production and installation of BEWT. BEWT provides an Electronic Warfare (EW) system operator and team training capability.

**(TS006) BFTT HIGH LEVEL ARCHITECTURE (HLA)** Funding updates the requisite printed circuit cards for existing AN/USQ-T46(V) BFTT Systems in order to utilize HLA vice DIS protocols.

**(TS007) MULTI-MISSION TEAM TRAINER (MMTT)** Funding consolidates the software functionality of the Device S14A13 TASWIT and the Device 20F15 TACDEW SG&C and updates the systems at SWOS, and at the Fleet ASW Training Centers LANT and PAC, and at the Fleet Combat Training Centers LANT and PAC.

EXHIBIT 43A  
P-43 Simulator & Training Device Justification



EXHIBIT P-43 | DATE:  
**SIMULATOR AND TRAINING DEVICE JUSTIFICATION** | June 2001

Appropriation/P-1 Line Item | IOC Date

Other Procurement Navy/Surface Training Device Modification																												
Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total			
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TS001 CARRY-ON COMBAT SYSTEMS TRAINER (COCST)																												
COCST	First Unit	01/00	03/00	N/A	4	6,296	1	1,426																		5	7,722	
	Second Unit	03/00	09/00	N/A																								
	Third Unit	03/00	09/00	N/A																								
	Fourth Unit	10/00	01/01	N/A																								
	Fifth Unit	10/00	01/01	N/A																								
TS004 SURFACE TRAINING DEVICE MODS																												
VAR			VAR	N/A	VAR	8,150	12	3,084	VAR	5,868	VAR	5,318														VAR	51,374	
TS005 BATTLE FORCE TACTICAL TRAINING ELECTRONIC WARFARE TRAINER (BEWT)																												
BEWT	VAR			N/A	10	1,000																				10	1,000	
TS006 BFTT HIGH LEVEL ARCHITECTURE (HLA)																												
				N/A			36	2,500																		36	2,500	
TS007 MULTI-MISSION TEAM TRAINER (MMTT)																												
				N/A					1	2,000	1	2,000														2	4,000	
<b>Total</b>					14	15,446	49	7,010	1	7,868	1	7,318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Cont.

Description

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: June 2001		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4</b>							P-1 ITEM NOMENCLATURE <b>SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD</b>					
Program Element for Code B Items:							OTHER RELATED PROGRAM ELEMENTS					
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total
QUANTITY												
EQUIPMENT COST (In Millions)			\$27.1	\$33.8	\$20.8							
SPARES COST (In Millions)												
PROGRAM DESCRIPTION/JUSTIFICATION:												
<p><u>(L/I 5661)</u> This line provides funds to modify/upgrade training devices to keep them compatible with equivalent changes made to Fleet operational equipment and to enhance trainer systems capabilities.</p> <p><u>(TD002) SUBMARINE TRAINING DEVICE MODS</u> Provides funding for minor modifications which are upgrades to submarine training systems which are centrally managed systems. These improvements/upgrades are required to keep training systems compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities to meet emergent training requirements. In FY01, congress provided additional funds to procure technical alternatives for data conversion of existing Technical Manuals (TMs) to an Intelligent Graphics format, which will provide meaningful data needed for production conversion of subsequent Submarine Technical Manuals to this new format. This effort has been selected as a CNO pilot project to demonstrate how improving IETM functionality results in improved Sailor-based maintenance.</p> <p><u>(TD003) SUBMARINE MULTI-MISSION TEAM TRAINER/COMBAT CONTROL SYSTEM (SMMTT/CC)</u> To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shorebased training facilities capable of training submarine combat system team personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment.</p> <p>The Combat Control System (CCS) MK 1 and CCS MK 2 are installed, or being installed, on SSN and SSBN (TRIDENT) Class submarines. CCS MK 1 submarines will receive Basic kits (initial update of CCS MK1 to CCS MK 2) and CCS MK 2 Block changes.</p> <p>CCS MK 2 DO Block 1 Program includes Tomahawk Block III, Harpoon Block 1C, ADCAP (Advanced Capability torpedo) mods, NTCSA (Navy Tactical Command System Afloat, and ATWCS (Advanced Tomahawk Weapon Control System).</p>												

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CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE:
<b>P-40</b>		<b>JUNE 2001</b>
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
<b>OTHER PROCUREMENT, NAVY/BA-4</b>	<b>SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD</b>	
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS	
<p><u>(TD003) SUBMARINE MULTI-MISSION TEAM TRAINER COMBAT CONTROL SYSTEM (SMMTT/CC)</u>(Continued)</p> <p>The CCS MK2 tactical program is to be upgraded to include CCS MK 2 Block 1 C. This includes Combat Display Console (CDC) color/landscape, CPU parallel processor removal, AN/UYK-44 removal, Mk 23 Graphic Plotter OER, additional ADCAP upgrades, and FTAG (Fleet Tactical Advisory Group) improvements. CCS MK 2 Block 1 also introduces the Advanced Tomahawk Weapon Control System (ATWCS), NTCS-A and Tomahawk Block Improvement Program (TBIP) which consists of Tomahawk Weapon improvements.</p> <p>The Submarine Multi Mission Team Trainer (SMMTT) Phases 1, 2, 3 program replaces the proprietary mainframe computer system by re-hosting functions on industry standard Local Area Network (LAN) workstations. The mainframes can no longer be upgraded due to service life. The SMMTT modification applies to both the CCS trainers and the acoustic trainers and will occur in three distinct phases. SMMTT Phase 1 provides partial offload of the trainer-unique-equipment (TUE) software and provides additional processing power through the use of independent workstations. SMMTT Phase 2 completes the trainer-unique software offload and enables further enhancements. SMMTT Phase 3 will replace all MIL Standard hardware with commercial emulation hardware, enabling platform independence and wide area network capability. The use of open architecture trainer systems allows for the continuous growth of functional flexibility ultimately leading to employment training conducted for any submarine CCS. Plans are established to likewise upgrade submarine tactical systems to an open architecture, and the trainers will be compatible with the tactical interfaces.</p> <p>FY00 Procures 4 items: Procures TUE hardware for CC EPM; modifies software for SMMTT 2 functions; and modifies functionality of the Submarine Tactical Visual Training System (STVTS) to provide common imaging training for CCS trainers which provides two kits to training sites.</p> <p>FY01 Procures 7 items: Provides upgrades to the COTS TUE in the SMMTT CC EPM. Modifies software and hardware of the CC EPM to provide SMMTT weapons emulation. Procures three SMMTT upgrade kits to support CCS MK2 training. Modifies the CC trainer STVTS to provide common imaging training for CCS trainers, which provides two ki to training sites.</p> <p>FY02 Procures 6 items: Provides upgrades to SMMTT non-weapons software. Procure three SMMTT upgrade kits to support CCS MK2 training. Provides STVTS upgrades, with enhanced databases, to two training sites</p>		

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CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE: <b>JUNE 2001</b>
<b>P-40</b>		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4</b>	P-1 ITEM NOMENCLATURE <b>SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD</b>	
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS	

(TD005) SUBMARINE MULTI-MISSION TEAM TRAINER /ACOUSTIC (SMMTT/A)

The AN/BQQ-5 Series Sonar Systems are installed aboard SSN Class submarines. The Submarine Acoustic Trainers, simulate the digital data processing and graphic displays of the associated tactical system. The Tactical Acoustic Rapid COTS (commercial-off-the-shelf) Insertion (ARCI) Phased upgrades impact the AN/BQQ5E(V) systems. The SMMTT upgrades will be applied to selected acoustic, team trainers.

The SMMTT acoustic modifications support training for enlisted and officer pipelines. The SMMTT provides individual operators and combat teams the opportunity to train ashore, prior to, and between deployments. The shore based training provides a means of maintaining team proficiency in stand alone or in combined team mode when tied to Combat System Team Trainers.

FY00 Procures 5 items: Procures SMMTT kits to upgrade two trainers to ARCI-II functionality. It also provides for Acoustic EPM modifications to support spectral analysis integration with SMMTT. Procures TUE hardware for the Acoustic EPM and modifies software to prototype selected ARCI PH III functions.

FY01 Procures 4 items: Procures two SMMTT trainer site kits to support ARCI-II functions. Upgrades the EPM COTS, and provides modifications to the Acoustic SMMTT, ARCI Phase III EPM to support Acoustic Tactical software.

FY02 Procures 2 items: Two SMMTT trainer site kits to support ARCI-III functions.

(TD006) SUBMARINE COMMON BASIC OPERATOR TRAINER (CBOT)

The purpose of these devices is to provide pipeline training to submarine force personnel who require basic and advanced operator training to establish their required level of opera competence. These devices train individual operators on the CCS MK 1/ MK 2, and AN/BSY-1 by supplementing classroom instructions with dynamic training exercises. Through t use of these training devices, the student obtains direct, interactive experience in Command, Weapon, Target Motion Analysis (TMA), and Over-The-Horizon (OTH) operations in order to develop the skills required for effective command and control operations.

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<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE:
<b>P-40</b>		<b>JUNE 2001</b>
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
<b>OTHER PROCUREMENT, NAVY/BA-4</b>	<b>SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD</b>	
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS	
<p><u>(TD006) SUBMARINE COMMON BASIC OPERATOR TRAINER (CBOT)</u>Continued          These devices provide an environment substantially equivalent to that found onboard ship, thus enabling students to develop and maintain the combat control expertise necessary to support Fleet operations. FY-90 established the requirement to provide advanced operator training for CCS MK 2 to support SSN 688, SSN 751 (AN/BSY-1), and TRIDENT SSBN (OHIO) Class submarines. The Fire Control Submarine and IUSS Training Requirements Review (SITTR) of 6/92 established the requirements for Common Basic Operator Trainers (CBOT) to support revised A-School training pipelines.</p> <p>FY00 Procures 4 items: Procures modifications for the CBOT EPM and three training site CBOTs with the CCS MK2 Block 1C weapons enhancements.</p> <p>FY01 Procures 4 items: Procures modifications for the CBOT EPM and three training site CBOTs with the CCS MK2 Block 1C target motion analysis (TMA) enhancements.</p> <p>FY02 Procures 4 items: Modifications for the CBOT EPM and three training site CBOTs with CCS Mk2/Mk1 enhancements requested by the Fleet.</p> <p><u>(TD011) SUBMARINE MULTI-MISSION TEAM TRAINER/(SMMTT) AN/BSY-1 TRAINER IMPROVEMENTS (SMMTT BSY-1)</u>          AN/BSY-1 trainers support shorebased training for crews of SSN 751 Class submarines fitted with the AN/BSY-1 integrated Combat Control/Acoustic (CC/A). CC/A Team Trainers support subteam training in combat control and acoustics as well as full combat system team training. The SMMTT program will occur in two phases for the AN/BSY-1 Team Trainer: SMMTT Phase 1 will provide BSY-1 trainers with ARCI/APB acoustic and combat control SMMTT functionality, and Phase 2 will replace the obsolete mainframe with a distributive network system.</p> <p>FY00 Procures 1 item: Modifies the SMMTT EPM to match the AN/BSY-1 ARCI-IV functions.</p> <p>FY01 Procures 3 items: Modifies the SMMTT EPM to match the AN/BSY-1 ARCI-IV Multi Purpose Console functions andprocures two trainer site upgrade kits.</p>		

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<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE: <b>JUNE 2001</b>
<b>P-40</b>		
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY/BA-4</b>	P-1 ITEM NOMENCLATURE <b>SUBMARINE TRAINING DEVICE MODS/BLI: 5661/SBHD: 84TD</b>	
Program Element for Code B Items:	OTHER RELATED PROGRAM ELEMENTS	
<p><u>(TD012) SUBMARINE BATTLE FORCE TACTICAL TRAINING (BFTT) DEVICE MODS</u>  The requirement for the Submarine BFTT was established by the BFTT Operational Requirement Document (ORD) No. 2U648877 of 13 Mar 1992. The Submarine BFTT device consists of a carry-on unit that will provide the CO/OOD simulated tactical display (COSTD) depicting the position and modes of each participant and target in the BFTT scenario. The device will interface with and interpret the BFTT scenario and make use of the Tactical Advanced Simulated Warfare Integrated Trainer (TASWIT). The Submarine BFTT program will modify TASWIT software to reflect submarine combat systems displays and the interface with BFTT. It will consist of a computer and interface equipment with software designed to interface with and interpret the BFTT system, and to receive and transmit tactical data using own ship's communications equipment. This device is intended to exercise the communications team and the CO/OOD, but not to provide training for the remaining submarine sensor operators and Combat System Team.</p> <p>FY00 Procures one unit.  FY01 Procures one unit.  FY02 Procures High Level Architecture (HLA) modifications to COSTD.</p> <p><u>TD014 VIRGINIA CLASS SSN 774 DEVICES</u>  Funding is provided for the procurement of Virginia Class (SSN 774) trainers.</p> <p>FY02 Procures 2 items: Torpedo Room trainer for the training site; and a Verticle Launch System (VLS) trainer for the training site.</p> <p><u>(TD6IN) INSTALLATION OF EQUIPMENT</u>  Funding is for the installation of trainers, installation support for trainers, and installations in other shore facilities.</p> <p>Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.</p>		

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: JUNE 2001				
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 4: ORDNANCE SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD SUBMARINE TRAINING DEVICE MODIFICATIONS/BLI: 5661/SBHD: 84TD									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 2000			FY 2001			FY 2002			FY 2003			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	SUBMARINE WARFARE (N87)															
TD002	SUBMARINE TRAINING DEVICE MODS Minor Mods				2,068			2,769					1,267			
						2,068			2,769				1,267			
TD003	SMMTT/CC	A			8,490			8,857					8,929			
	Modifications		1	350	350	1	2,924	2,924	3	350	1,050					
	Modifications		1	5,742	5,742	1	1,465	1,465	1	5,043	5,043					
	Modifications		2	958	1,916	3	350	1,050	2	635	1,270					
	Modifications					2	810	1,620								
	Tech Support				482			1,798								
TD005	SMMTT/A	A			8,740			14,955					6,409			
	Modifications		2	1,440	2,880	1	8,512	8,512	2	2,400	4,800					
	Modifications		1	2,261	2,261	1	2,040	2,040								
	Modifications		1	773	773	1	1,440	1,440								
	Modifications		1	1,080	1,080	1	1,108	1,108								
	Tech Support				1,746			1,855								
TD006	SUB COMN BASIC OPER TRAINER	A			648			628					652			
	Modifications		4	162	648	4	157	628	4	163	652					
	Modifications															
	Modifications															

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System						DATE: JUNE 2001			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 4: ORDNANCE SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD SUBMARINE TRAINING DEVICE MODIFICATIONS/BLI: 56610/SUBH: 84TD								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY 2000			FY 2001			FY2002			FY2003		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SUBMARINE WARFARE (N87) Continued														
TD011	SMMTT AN/BSY-1 TRAINER	A			5,954			6,429							
	Modifications			1	5,954	5,954	2	2,760	5,520						
	Modifications						1	903	903						
	Tech Support								6						
TD012	SUBMARINE BAT FORCE TACT TRNG														
	Carry-On COSTD			1	106	106	1	107	107	1	200	200			
TD014	SSN 774										2,068				
	Modifications									1	1,963	1,963			
	Modifications									1	105	105			
	Modifications														
	<b>TOTAL BLI 566100</b>				<b>26,006</b>			<b>33,745</b>			<b>19,525</b>			<b>0</b>	
TD6IN	INSTALLATION (Non-FMP)					1,081			0			1,228			
	<b>TOTAL BLI 566106</b>				<b>1,081</b>			<b>0</b>			<b>1,228</b>			<b>0</b>	
<b>Continued from previous Page</b>															
						<b>27,087</b>			<b>33,745</b>			<b>20,753</b>			<b>0</b>

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE <b>JUNE 2001</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA 4: ORDNANCE SUPPORT EQUIPMENT</b>					C. P-1 ITEM NOMENCLATURE <b>SUBMARINE TRAINING DEVICE MODIFICATIONS</b>					SUBHEAD <b>84TD</b>	
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	
<b>FISCAL YEAR (00)</b>											
TD003 SMMTT/CC											
H/W EPM	1	350	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Feb-00	Oct-00	YES		
S/W EPM	1	5,742	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Feb-00	Aug-02	YES		
CCS STVTS	2	958	NAVSEA	N/A	RCP	NAWC TSD ORLANDO	Aug-00	Feb-02	YES		
TD005 SMMTT/A											
ARCI-II-KITs	2	1,440	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Apr-01	YES		
PROTO ARCI-III	1	2,261	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Aug-02	YES		
EPM H/W	1	773	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Aug-00	YES		
SPECTRAL	1	1,080	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Sep-02	YES		
TD006 CBOT											
MK2B1C Weapons	4	162	NAVSEA	N/A	WR	NUWC NPT	Feb-00	Apr-02	YES		
TD011 SMMTT/BSY1											
ARCI-IV	1	5,954	NAVSEA	Jul-99	SS/FF	LM MANASSAS, VA	May-00	Nov-01	YES		
TD012 Sub BFTT											
COSTD	1	106	NAWC TSD	N/A	WR	NAWC TSD ORLANDO, FI	Feb-00	Nov-00	YES		
D. REMARKS											

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE <b>JUNE 2001</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA 4: ORDNANCE SUPPORT EQUIPMENT</b>					C. P-1 ITEM NOMENCLATURE <b>SUBMARINE TRAINING DEVICE MODIFICATIONS</b>					SUBHEAD <b>84TD</b>	
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	
<b>FISCAL YEAR (01)</b>											
TD002 Intel Graphics	var	2,500	NAVSEA	n/a	WR/RCP	NUWC Kpt	Jun-01	Sep-01	Yes		
TD003 SMMTT/CC Weapons	1	2,924	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-01	Aug-03	YES		
COTS EPM	1	1,465	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-01	Aug-02	YES		
MK2 B1C Kits	3	350	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-01	Feb-05	YES		
CCS STVTS	2	810	NAVSEA	N/A	WR	NAWC TSD ORLANDO	Jan-01	Sep-02	YES		
TD005 SMMTT/A ARCI-III EPM	1	8,512	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Aug-03	YES		
ARCI-II Kit	1	2,040	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Feb-04	YES		
ARCI-II Kit	1	1,440	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Jun-02	YES		
COTS	1	1,108	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Aug-02	YES		
TD006 CBOT TMA	4	157	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-01	Apr-02	YES		
TD011 SMMTT/BSY1 ARCI-IV Kits	2	2,760	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Mar-02	YES		
ARCI-IV MPCs	1	903	NAVSEA	Mar-01	SS/IF OPT	LM MANASSAS, VA	Jun-01	Jan-02	YES		
TD012 Sub BFTT COSTD	1	107	NAWC TSD	N/A	WR	NAWCTSD ORLANDO, FL	Feb-01	Nov-01	YES		
D. REMARKS											

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE <b>JUNE 2001</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA 4: ORDNANCE SUPPORT EQUIPMENT</b>					C. P-1 ITEM NOMENCLATURE <b>SUBMARINE TRAINING DEVICE MODIFICATIONS</b>					SUBHEAD <b>84TD</b>	
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	
<b>FISCAL YEAR (02)</b>											
TD003 SMMTT/CC											
Mk2 B1C Kit	3	350	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-02	Nov 02	YES		
Mk2 B1C Non-Wep	1	5,043	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-02	Jan 05	YES		
CCS STVTS	2	635	NAVSEA	N/A	WR	NAWC TSD ORLANDO	Jan-02	May 03	YES		
TD005 SMMTT/A											
ARCI-III Kits	2	2,400	NAVSEA	Jul-00	SS/FF OPT	LM MANASSAS, VA	Feb-02	Feb-03	YES		
TD006 CBOT											
MK1/2 Enhancements	4	163	NAVSEA	N/A	WR	NUWC DIV NEWPORT, RI	Jan-02	Dec-02	YES		
TD012 Sub BFTT											
COSTD HLA	1	200	NAWC TSD	N/A	WR	NAWC TSD ORLANDO, FL	Jan-02	Nov-02	YES		
TD014 Va Class											
Torp Room	1	1,963	NAVSEA	TBD	TBD	TBD	Feb-02	Aug-03	YES		
VLS	1	105	NAVSEA	TBD	TBD	TBD	Feb-02	Aug-03	YES		
D. REMARKS											

TIME PHASED REQUIREMENT SCHEDULE P-23					A. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-4								B. P-1 ITEM NOMENCLATURE Submarine Training Devices Modifications								C. DATE JUNE 2001												
	FY 2000				FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				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					
ACTIVE FORCE INVENTORY (P)																																	
SCHOOLS/OTHER TRAINING (P)		15				19				15																							
OTHER (P)																																	
TOTAL PHASED REQ (C)	0	15	15	15	15	34	34	34	34	49	49	49																					
ASSETS ON HAND (BP)																																	
DELIVERY FY 98 & PRIOR (P)																																	
FY 99 & PRIOR (P)																																	
FY 00 (P)	0	15	0	0																													
FY 01 (P)					0	19	0	0																									
FY 02 (P)									0	15	0	0																					
FY 03 (P)																																	
FY 04 (P)																																	
FY 05 (P)																																	
FY 06 (P)																																	
To Complete (P)																																	
TOTAL ASSETS (C)	0	15	15	15	15	34	34	34	34	49	49	49																					
QTY OVER (+) OR SHORT (-)	0	0	0	0	0	0	0	0	0	0	0	0																					
D. REMARKS	E. RQMT (QTY)				TOTAL RQMT				INSTALLED				ON HAND AS OF 6/1/99				FY 98 & PRIOR UNDELIVERED				UNFUNDED												
	1. APPN -																																
	2. APPN -																																
	3. PROCUREMENT LEADTIME				ADMIN				INITIAL ORDER				REORDER																				

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT  Submarine Training Devices Modifications/SUBH: 84TD								DATE  JUNE 2001			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy / BA-4								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 2000								FY 2001											
			15								19								
FY 2002								FY 2003											
			15																

P-1 SHOPPING LIST

CLASSIFICATION:

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CLASSIFICATION:

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT  Submarine Training Devices Modifications/SUBH: 84TD								DATE  JUNE 2001			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy / BA-4								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 2004								FY 2005											
FY 2006								FY 2007											

P-1 SHOPPING LIST

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EXHIBIT P-43  
SIMULATOR AND TRAINING DEVICE JUSTIFICATION

DATE:

**JUNE 2001**

Appropriation/P-1 Line Item

Weapon System

IOC Date

Other Procurement, Navy / LI: 5661

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total		
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
TD002 SUBMARINE TRAINING DEVICE MODS VAR	VAR	VAR	VAR	N/A			VAR	2,068	VAR	2,769	VAR	1,267															
<b>Total</b>					0	0	0	2,068	0	2,769	0	1,267	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,104

Description  
(TD002) SUBMARINE TRAINING DEVICE MODS  
Provides funding for minor modifications which are upgrades to submarine training systems which are centrally managed systems. These improvements/upgrades are required to keep training systems compatible with equivalent changes made to fleet operational equipment and to change trainer capabilities to meet emergent training requirements.

EXHIBIT P-43 <b>SIMULATOR AND TRAINING DEVICE JUSTIFICATION</b>	DATE: <b>JUNE 2001</b>
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Appropriation/P-1 Line Item Other Procurement, Navy / LI: 5661	Weapon System	IOC Date
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Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total			
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TD003 SUB MULTI-MISSION TEAM TRAINERS/CCS																												
H/W EPM	NUWC Npt	Oct-00	n/a	n/a			1	350																				
S/W EPM	NUWC Npt	Aug-02	n/a	n/a			1	5,742																				
STVTS TT1	NSS Grtn	Feb-02	Feb-02	3,930			1	958																				
STVTS TT2	NSTCP PH	Jun-02	Jun-02	2,016			1	958																				
Weapons	NUWC Npt	Aug-03	n/a	n/a					1	2,924																		
COTS EPM	NUWC Npt	Aug-02	n/a	n/a					1	1,465																		
B1C #3	NSS Grtn	Nov-02	Feb-02	2,160					1	350																		
B1C #4	NSTCP PH	Mar-02	Jun-02	2,016					1	350																		
B1C #5	NSTCP Sdgo	Jul-02	Sep-02	540					1	350																		
STVTS #5	NSTCP Sdgo	Sep-02	Sep-02	388					1	810																		
STVTS #6	TTF KINGS BA	Jan-03	Jan-03	312					1	810																		
B1C #6	TTF KB	Nov-02	Jan-03	312							1	350																
B1C #7	STF Nor	Feb-03	May-03	1,485							1	350																
B1C #1	NSTCP PH	Feb-04	May-04	2,016							1	350																
Non Weps	NUWC Npt	Jan-05	n/a	n/a							1	5,043																
STVTS #7	STF Nor	May-03	May-03	1,485							1	635																
STVTS #1	NSTCP PH	May-04	May-04	1,890							1	635																
<b>Total</b>							0	0	4	8,008	7	7,059	6	7,363														

Description  
 (TD003) SUB MULTI-MISSION TEAM TRAINER (CCS)  
 To achieve desired submarine force readiness levels, it is necessary to construct highly sophisticated shorebased training facilities capable of training submarine combat system team personnel in all aspects of submarine approach, attack and surveillance operations in a controlled, simulated environment.



EXHIBIT P-43 SIMULATOR AND TRAINING DEVICE JUSTIFICATION	DATE: <b>JUNE 2001</b>
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Appropriation/P-1 Line Item Other Procurement, Navy / LI: 5661	Weapon System	IOC Date
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Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total		
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
TD005 SMMTT / A																											
ARCI-II #2	NSS Grtn	Apr-01	Jul-01	1,612			1	1,440																			
ARCI-II #1	NSTCP PH	Jul-01	Oct-01	1,736			1	1,440																			
PROTO	EPM LM	Aug-02	n/a	n/a			1	2,261																			
ARCI-III H/W	EPM LM	Aug-00	n/a	n/a			1	773																			
SPECTRAL	EPM LM	Aug-02	n/a	n/a			1	1,080																			
ARCI-III EPM	EPM LM	Aug-03	n/a	n/a					1	8,512																	
ARCI-II #6	TTF KB	Sep-02	Jan-03	312					1	2,040																	
ARCI-II #5	NSTCP Sdgo	Jun-02	Sep-02	540					1	1,440																	
COTS	EPM LM	Aug-02	n/a	n/a					1	1,108																	
ARCI-III #7	STF Norva	Feb-03	May-03	1,485							1	2,400															
ARCI-III #1	NSTCP PH	Feb-04	May-04	2,016							1	2,400															
<b>Total</b>							0	0	5	6,994	4	13,100	2	4,800													

Description  
 (TD005) SUB MULTI-MISSION TEAM TRAINER/A  
 The AN/BQQ-5 Series Sonar Systems are installed aboard SSN Class submarines. The Submarine Multi Mission Team Trainer Acoustic simulates the digital data processing and graphic displays of the associated tactical system.

EXHIBIT P-43  
SIMULATOR AND TRAINING DEVICE JUSTIFICATION

DATE: **JUNE 2001**

Appropriation/P-1 Line Item  
Other Procurement, Navy / LI: 5661

Weapon System  
IOC Date

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total		
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
TD006 SUB COMN OPER TRAINER																											
MK2B1C Weg	NUWC Npt	Apr-02	n/a	n/a			1	162																			
MK2B1C Weg	NSS Grtn	Apr-02	May-02	1,000			3	486																			
TMA	NUWC Npt	Apr-02	n/a	n/a					1	157																	
TMA	NSS Grtn	Apr-02	May-02	1,000					3	471																	
MK 1/2 ENH	NUWC Npt	Dec-02	n/a	n/a							1	163															
MK 1/2 ENH	NSS Grtn	Dec-02	Jan-00	1,000							3	489															
Total							0	0	4	648	4	628	4	652													

Description  
(TD006) SUB COMN COMMON BASIC OPERATOR TRAINER (CBOT)  
The purpose of these devices is to provide pipeline training to submarine force personnel who require basic and advanced operator training.

EXHIBIT P-43  
**SIMULATOR AND TRAINING DEVICE JUSTIFICATION**

DATE: **JUNE 2001**

Appropriation/P-1 Line Item: \_\_\_\_\_  
 Weapon System: \_\_\_\_\_  
 IOC Date: \_\_\_\_\_

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total			
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TD011 SMMTT AN/BSY-1 MODIFICATION																												
ARCI-IV	EPM LM	Nov-01	n/a	n/a			1	5,954																				
ARCI -IV #3	NSS Grtn	Nov-01	Feb-02	3,930					1	2,760																		
ARCI -IV #4	NSTCP PH	Mar-02	Jun-02	2,016					1	2,760																		
MPC	EPM LM	Jan-02	n/a	n/a					1	903																		
<b>Total</b>							0	0	1	5,954	3	6,423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12,377

Description  
 (TD011) SMMTT AN/BSY-1 TRAINER  
 AN/BSY-1 trainers support shorebased training for crews of SSN 751 Class submarines fitted with AN/BSY-1 the integrated Combat Control / Acoustic (CC/A).  
 CC/A Team Trainers support subteam training in combat control and acoustics as well as full combat system team training.

EXHIBIT P-43  
SIMULATOR AND TRAINING DEVICE JUSTIFICATION

DATE: **JUNE 2001**

Appropriation/P-1 Line Item  
Other Procurement, Navy / LI: 5661

Weapon System

IOC Date

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total			
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
TDO12 SUBMARINE BATTLE FORCE TAC TRN																												
BFTT c/o DEV	Sqdn 1 Pearl H	Nov-00	Nov-00				1	106																				
BFTT c/o DEV	Sqdn 7 Pearl H	Nov-01	Nov-01						1	107																		
COSTD HLA	NAWC TSD	Nov-02	Nov-02								1	200																
<b>Total</b>							0	0	1	106	1	107	1	200	0	0	0	0	0	0	0	0	0	0	0	0	3	413

Description  
(TD012) SUBMARINE BATTLE FORCE TACTICAL TRAINING (BFTT) DEVICE MODS  
The Submarine BFTT device consists of a carry-on unit that will provide the CO/OOD with a display depicting the position and modes of each participant and target in the BFTT scenario. It will consist of a computer and interface equipment with software designed to interface with and interpret the BFTT system, and to receive and transmit tactical data using own ship's communications equipment.

EXHIBIT P-43  
SIMULATOR AND TRAINING DEVICE JUSTIFICATION

DATE: **JUNE 2001**

Appropriation/P-1 Line Item  
Other Procurement, Navy / LI: 5661

Weapon System  
IOC Date

Training Device by Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		To Complete		Total		
					Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
TD014 NSSN Torp Room VLS	Trainer Mods NSS Grtn NSS Grtn	Aug-03 Aug-03	Jun-05 Jun-05	29 10							1 1	1,963 105															
<b>Total</b>					0	0	0	0	0	0	2	2,068	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2,068

Description  
TD0tbd NSSN  
Procures modifications for the NSSN (Virginia Class) unique devices.