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

JUSTIFICATION OF ESTIMATES
JUNE 2001

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 1

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

DEPARTMENT OF THE NAVY
FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
	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

DEPARTMENT OF THE NAVY
FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY DATE: JUNE 2001

LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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

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 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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

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 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
	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

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 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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

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 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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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LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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

DEPARTMENT OF THE NAVY
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MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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	MILLIONS OF DOLLARS FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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

DEPARTMENT OF THE NAVY
FY 2002 PROCUREMENT PROGRAM EXHIBIT P-1

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	MILLIONS OF DOLLARS FY 2000 QUANTITY	FY 2000 COST	FY 2001 QUANTITY	FY 2001 COST	FY 2002 QUANTITY	FY 2002 COST	SEC
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	

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY** **BA1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **LM2500 GAS TURBINE (81GA) (0110)**
Program Element for Code B Items:	Other Related Program Elements

	Prior Years	ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY												
COST			**$6.7**	**$6.9**	**$7.1**							
SPARES COST (In Millions)												

The LM2500 Marine Gas Turbine and its associated Engineering Control Systems provide main propulsion for the Navy's newest surface combatants including the FFG 7 OLIVER HAZARD PERRY Class, DD 963 SPRUANCE Class, CG 47 TICONDEROGA Class, DDG 51 ARLEIGH BURKE Class and AOE 6 SUPPLY Class. The LM2500 is composed of two major subassemblies, the gas generator and power turbine sections. It is coupled to the ship drivertrain by a high speed coupling shaft. The control system provides for both local and remote engine operations. The budget is comprised of the following cost codes:

Modification Kit Program (GA009)

a. A metrics program has been established for the LM 2500 engine to track service history for individual engine components and compile data regarding failure rates. The data is compiled for various ship classes and engine configurations. This metrics program clearly identifies where engineering efforts should be focused to improve component reliability and also indicates which modification kits should be procured. The modifications kits can either be installed at the depot level during engine overhauls or at the intermediate level aboard ship via IMA support teams. Following modification kit installations, engine reliability is tracked to measure the effectiveness of these kit installations. Return on investment calculations are employed to quantify program savings. The modification kits hold down the cost to overhaul the engine at the depot level as well as reduce programmatic life cycle costs.

b. Failure to procure modification kits will prevent improvement to mean time between removal (MTBR) and will significantly increase life cycle costs including increasing the requirement for additional spare engine assets, increasing the cost to overhaul engines at the depot and negatively impacting the reliability of engines and fleet readiness. It should be noted that although some gas turbine ships are decommissioning, the total engine population in the fleet remains stable until FY 05 and then decreases only by six engines per year. The affects of decommissioning are being offset by an aggressive DDG 51 construction program.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **BA1 Ships Support Equipment** **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE **LM2500 GAS TURBINE (81GA) (0110)**

Gas Generator In Container (GA010)

a. The attainment of LM2500 spare single shank gas generator inventory level of 26 is considered the program's minimum requirement based upon the current total population of 448 engines along with the requirement to forward deploy some inventory assets to support the fleet overseas. This inventory level is based upon 25 years of experience with the LM2500 Engine and ensures 90% probability for spare asset availability. 14 units have been procured through FY 2000 and 7 units are included in the budget from FY 2001 to 2007 with one engine per year for FY 2008 to 2012. This procurement is required from FY 2001 thru FY 2007 to support the increasing population of the newer version single shank LM2500 engine which operates at a higher horsepower and provides additional ship capability.

b. Failure to procure this spare engine will result in failure to reach to the minimum required spares based upon program history. This lack of spare assets could result in a ship having to get unde with an inoperable engine or create a void within the ship's propulsion drivetra

Control System Modifications (GA012)

a. The engine control system consists of sensors, data acquisition units, processors and operator consoles. Peripheral devices include bell and data loggers, printers, tape readers, mass storage devices and tape recorders. These end items are comprised of printer circuit boards, meters, CRT's, switches and power supplies. Inventory objectives not required. Unit costs vary per modification kit.

Special Support Equipment, SSE (GA014)

a. Procurement of Special Support Equipment allows for increased depot repair capability, thereby stabilizing or reducing the cost to overhaul engines at the depot. This tooling is generally associated with depot modifications being made to the engine to increase engine reliability. This increased capability reduces engine overhaul co

Production Engineering (GA830)

a. The review and approval of any production contract technical documentation, or the separate development of this documentation to include Technical Manuals, Signal Flow Diagrams, PMS, Level III production drawings, provisioning technical documentation (PTD), program support data (PSD), allowance parts lists (APL's) and engineering in support of final design reviews.

WEAPONS SYSTEM COST ANALYSIS **P-5**	Weapon System		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **LM 2500 GAS TURBINE (81GA) (0110)**	

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
	N86 SURFACE WARFARE														
GA009	MODIFICATION PROGRAM	A				3,675			2,325			2,640			
GA010	GAS GENERATOR	A				1,450	1	2,954	2,954	1	2,980	2,980			
GA012	ENGINEERING SYSTEM MOD	A				1,075			1,183			1,154			
GA014	SPECIAL SUPPORT EQUIPMENT	A				48			54			94			
GA830	PRODUCTION ENGINEERING	A				437			415			215			
GRAND TOTAL			**0**			**6,685**			**6,931**			**7,083**			**0**

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE June 2001		
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 1: Ships Support Equipment					C. P-1 ITEM NOMENCLATURE LM2500 GAS TURBINE (0110)				SUBHEAD 81GA	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 00										
FY 01										
(GA010)	1	2,954	NSWC PHILA, PA		RC	GE CINCINNATI, OHIO	May-01	Mar-02	YES	
FY 02										
(GA010)	1	2,980	NSWC PHILA, PA		RC/OPT	GE CINCINNATI, OHIO	Mar-02	Jan-03	YES	

D. REMARKS

BUDGET ITEM JUSTIFICATION SHEET P-40													DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**						P-1 ITEM NOMENCLATURE Allison 501-K Gas Turbine (81GF) (0120)							
Program Element for Code B Items: **BA-1: SHIPS SUPPORT EQUIPMENT**						Other Related Program Elements							
	Prior Years	ID Code		FY 2000	FY 2001	FY 2002							
QUANTITY													
COST (In Millions)				**$8.2**	**$6.2**	**$6.9**							
SPARES COST (In Millions)													

ALLISON 501-K GAS TURBINE (81GF) (0120)

The 501-K Series Gas Turbines are used to drive electrical generators in Ship Service Gas Turbine Generators (SSGTG). The 501-K17 is used on the CG-47 and DD-963 Class ships. The 501-K34 is an upgraded version used on the DDG-51 Class ships and is not interchangeable with the 501-K17.

A. 501-K34 Stock Rotating Spares (GF001)

The Stock Rotating Spares Program provides an engine as a single assembly for the replacement of an engine requiring depot repair. The current 501-K17 engine is being replaced by the ugraded more fuel efficient 501-K34 engine commencing with the DDG-51 Class. The 501-K34 upgraded engine can only be replaced with another 501-K34 upgraded engine. Therefore the two configurations must be initially spared separately and all spares procurement commencing with the FY-87 procurement have been the 501-K34 configuration. The 501-K34 inventory objective is 19 units. 15 units have been procured through FY 2000 and 4 units are included in the budget from FY 2001 - FY 2004. FY 2000 pricing is based on exercising options from a previous contract. A new contract will be negotiated in FY 2001. Engine cost is expected to increase due to ne clauses in the contract.

B. Modification Program (GF007)

Allison 501-K Gas Turbines are identified as the number one fleet issue by the Top Management Attention/Top Management Issues (TMA/TMI) Program, the Combatant Technical Issues Conference (CTIC), and the DDG-51 Top Tech Issue Program. Procurement of improved hardware for installation in the 501-K gas turbine is essential to increase engine reliability, Mean Time Between Removal (MTBR) and maintainability. Analysis of 501-K engineeing performance data, TMA/TMI, Metrics, the DDG-51 Top Tech Issues, CTIC and the component improvement program has identified necessary improvements to correct 501-K deficiencies. The modifications will reduce failure rates of system components, improving 501-K and SSGTG readiness and address the Fleet's top maintenance and reliability issues. The additional requirement in FY 2003 and out will be used to resolve additional issues identified by the TMA/TMI, Metrics and the DDG-51 Top Tech Issues Programs. The specific additional issues addressed are Fuel Nozzles and Engine Contr

Unit costs are not applicable since serveral types of items are being procured.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # *Allison 501-K Gas Turbine (81GF) (0120)*

C. Special Support Equipment (SSE) (GF009)

Procurement of Gas Turbine SSE is required to provide increased SIMA and depot repair capability to support the DD-963, CG-47 and DDG-51 class ships. SIMA capability is enhanced by providing them SSE necessary to reduce engine change-outs and required to incorporate new modifications that will eliminate deficiencies identified through the TMA/TMI, Metrics and the DDG-51 Top Tech Issues Programs and enhance MTBR, reliability and maintainability. Procured SSE supports the depot by increasing repair capability and allowing installation of new modifications that will eliminate deficiencies identified through the TMA/TMI, Metrics and the DDG-51 top Tech Issues Programs and enhance MTBR, reliability and maintainability.

Unit Costs are not applicable since several types of items are being procured.

D. Production Engineering (GF830)

The review and approval of any production contract technical documentation or the separate development of this documentation to include: Technical manuals, signal flow diagrams, PMS, production drawings, Provisioning Technical Documentation (PTD), and Allowance Parts Lists (APLs) and engineering in support of final design reviews.

Unit Costs are not applicable since several types of items are being procured.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA 1: SHIPS SUPPORT EQUIPMENT**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Allison 501K-Gas Turbine (81GF) (0120)**	

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
GF001	501-K34			1	1,351	1,351	1	1,328	1,328	1	1,380	1,380			
GF007	MODIFICATION PROGRAM					6,575			4,339			5,220			
GF009	SPECIAL SUPPORT EQUIP (SSE)					202			101			207			
GF830	PRODUCTION ENGINEERING					100			431			89			
GRAND TOTAL			**0**			**8,228**			**6,199**			**6,896**			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE June 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 1: Ships Support Equipment	C. P-1 ITEM NOMENCLATURE Allison 501-K Marine Gas Turbine 0120	SUBHEAD 81GF

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 00										
GF001	1	1,351	NSWC, PHILA		WX	Rolls Royce Allison Indianapolis, IN	Mar-00	Mar-01	YES	
FY 01										
GF001	1	1,328	NSWC, PHILA		RC	Rolls Royce Allison Indianapolis, IN	May-01	Nov-03	YES	
FY 02										
GF001	1	1,380	NSWC, PHILA		RC/OPT	Rolls Royce Allison Indianapolis, IN	Mar-02	Sep-04	YES	

D. REMARKS

BUDGET ITEM JUSTIFICATION SHEET P-40												DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **Submarine Propellers BLI: 051000 SBHD: H1GQ**					
Program Element for Code B Items:							Other Related Program Elements **N/A**					
	Prior Years	ID Code	FY 2000*	FY 2001	FY 2002							
QUANTITY												
COST (In Millions)			**$0.0**	**$3.7**	**$4.5**							
SPARES COST (In Millions)												

GQ012 - VA CLASS PROPULSOR FOR SSN 21* - Specific performance deficiencies associated with the SEAWOLF propulsor have been identified during SEAWOLF lead ship post delivery trials. Installing a VIRGINIA class propulsor on the SEAWOLF will potentially correct the performance deficiency, mitigate the technical risk, and minimize the necessary capital investment, as well as placing our two quietest submarine classes on a common design. The funding profile covers procurement of propulsor components in FY 01, design of necessary stern modifications, and installation of these modifications.

The Virginia Class propulsor improved on the design developed for SEAWOLF. Using a VIRGINIA class propulsor establishes a common propulsor design between the SEAWOLF and VIRGINIA classes, resulting in reduced infrastructure and support costs. Because the VIRGINIA class propulsor design is well developed, the technical risk and costs associated with installation on the SEAWOLF are minimized. Also, by installing a VIRGINIA Class propulsor on SSN 21, one complete SEAWOLF propulsor spare set (including propulsor bearing, shaft, and miscellaneous components) will not need to be procured. Additionally, the VIRGINIA class will also benefit from the full scale testing on the SEAWOLF.

* "The propellers funding in FY 00 is reflected in BLI 094100."

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Submarine Propellers BLI: 051000 SBHD: H1GQ**

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			
	Submarines (N77)														
GQ012	Fixed Propulsor Subcomponents	A					1	200	200						
GQ012	Rotor Manufacture	A					1	500	500						
GQ012	Propulsor Support Bearing	A					1	770	770						
GQ012	SHIPALT Design	A						2,253	2,253		817	817			
GQ012	Propulsor Installation	A										3,643			
			0			**0**			**3,723**			**4,460**			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE June 2001
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	C. P-1 ITEM NOMENCLATURE **SUBMARINE PROPELLERS BLI: 051000 SBHD: H1GQ**	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
FISCAL YEAR (01)										
GQ012										
Fixed Propulsor Subcomponents	1	200	NAVSEA		SS/FFP	United Defense, MN	1/01	12/02	YES	
Rotor Manufacture	1	500	NAVSEA			Naval Foundry & Propeller	01/01	12/02	YES	
Propulsor Support Bearings	1	770	NAVSEA		SS/CPFF	Electric Boat	12/00	12/02	NO	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE **P-23**		A. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**		B. P-1 ITEM NOMENCLATURE **Submarine Propellers H1GQ**		C. DATE **Jun-01**	

		FY 1999				FY 2000				FY 2001				FY 2002															
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
ACTIVE FORCE INVENTORY	(P)																												
	(P)																												
SCHOOLS/OTHER TRAINING	(P)																												
OTHER	(P)																												
TOTAL PHASED REQ	(C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
ASSETS ON HAND	(BP)																												
DELIVERY FY 98 & PRIOR	(P)																												
FY 98 & PRIOR	(P)																												
FY 99	(P)																												
FY 00	(P)																												
FY 01	(P)																												
FY 02	(P)																												
TOTAL ASSETS	(C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												

D. REMARKS	E. RQMT (QTY) 1	TOTAL RQMT 1	INSTAL 1	ON HAND AS OF / /98 0	FY 98 & PRIOR UNDELIVERED 0	UNFUNDED 0
	1. APPN -					
	2. APPN -					
	3. PROCUREMENT LEADTIME 35 months	ADMIN 3 months	INITIAL ORDER		REORDER	

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A	P-1 ITEM NOMENCLATURE/PROJECT UNIT	DATE
	Submarine Propellers BLI: 051000 SBHD: H1GQ	**Jun-01**

APPROPRIATION/BUDGET ACTIVITY	Installing Agent
Other Procurement, Navy **BA-1 Ship Support Equipment**	**Electric Boat**

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							
FY 2002															

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: May 2001					
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **Other Navigation Equipment BLI: 067000**					
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)			**$94.5**	**$49.7**	**$45.9**							
SPARES COST (In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION:

Unit costs are various.

This is a continuing program composed of both maintenance equipment and newly developed improvements required for maintenance, shipalts, and training; including a cross section of navigation type equipment as follows:

GW006: Maintenance component funds satisfy depot and organizational maintenance requirements of existing AN/WSN-2 and AN/WSN-5 navigation systems. Specifically, these funds cover the procurement of major components such as Inertial Measuring Units (IMUs), gyroscopes, accelerometers, and depot test equipment. These components are essential to the operation and performance of AN/WSN-2/5 inertial navigation systems. Procurements associated with these components ensure the operational availability and performance of the navigation systems to support ship and combat system mission requirements. Units procured support the pipeline requirements of AN/WSN-2/5 inertial navigation systems given the Fleet population and usage rates. Procurement of maintenance components for AN/WSN-2/5 will continue during transition to AN/WSN-7 Ring Laser Gyro Navigator and AN/WSN-7B Ring Laser Gyrocompass. Depot test equipment funds support checkout and testing of these major components in a system configuration to verify performance prior to being dubbed "ready for issue".

GW013: Funds required to procure Navigation Field Change Kits for reliability and maintainability improvements and corrections for various conventional navigation equipment including the Dead Reckoning Analyzer Indicator (DRAI), Computer Aided Dead Reckoning Tracer (CADRT), plotters, gyro compasses, Electromagnetic Log (EM Log), Doppler Sonar Velocity Log (DSVL), Digital Flux Gate Magnetic Compass, and Synchro Signal Amplifier. These improvements are required to keep Fleet-installed equipment operating to a basic level.

GW031: Dual Miniature Navigation System (DMINS) ECP/documentation funds procure DMINS field changes, replace obsolete automated test equipment/computer at the DMINS Repair Depot, procure Inertial Measuring Unit (IMU) reliability improvements and update of DMINS technical documentation.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **Other Navigation Equipment BLI: 067000**

GW029: Funds required to support procurement and implementation of Engineering Change Proposals (ECPs)/Field Change (FC) Kits, alterations and update of associated technical documentation which provide reliability and maintainability improvements, corrections and upgrades for various Inertial Navigation Systems (AN/WSN-7/7A/7B), the associated IP-1747 (Control Display Unit-CDU), and IP-1747 (Enhanced Control Display Unit), Aircraft Inertial Alignment System Equipment (AIAS and
CVNS-AN/SRC-40, OU-174, TS-3543A). Funds also support procurement of hardware and software changes to the navigation suite required to integrate with Ring Laser Gyro Navigator (AN/WSN-7/7A), and Ring Laser Gyrocompass (AN/WSN-7B). Current product improvements include:

- Field Change #1 to the AN/WSN-7/7A provides product improvement changes and additions to the basic system equipment to correct problems and provide enhancements to ship specific missions.
- Field Change #2 to the AN/WSN-7 provides interface between WSN-7 and BFTT product improvement changes and additions to the basic system equipment to correct problems and provide enhancements to ship specific missions.
- AIAS product improvements to AN/SRC-40, OU-174, TS-3543A due to obsolescence

Other AN/WSN-7 operational improvements include NAVSSI integration, Lever Arm definition, Voyage Management System (VMS), vertical deflection compensation, ATM implementation, Tactical Integrated Distribution System (TIDS) integration, and CADRT integration.

GW031: Dual Miniature Navigation System (DMINS) ECP/documentation funds are required to procure DMINS field changes, replace obsolete automated test equipment/computers at the DMINS Repair Depot, Inertial Measuring Unit (IMU) reliability improvements and update technical documentation.

GW035: NAVIGATION SYSTEM PROCUREMENT - Navigation System Procurement funds are required to support the acquisition and implementation of the following Navigation Systems for shipboard use: AN/WSN-7 (Ring Laser Gyro Navigator-RLGN). SPAWAR, Norfolk will coordinate the AIT teams for all platforms. Shipsets and systems will be installed as shown on the P-3A.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **Other Navigation Equipment BLI: 067000**

GW830: Funds are required for production engineering efforts which provide the necessary management/technical support for AN/WSN-7/7A, AN/WSN-7B, CDU (Control Display Unit), ECDU (Enhanced Control Display Unit), and AIAS hardware/software procurements and system test and integration. Funds cover value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering and logistic supportability efforts designed and incorporated into the production manufacturing process. Funds are also used to provide interim support during install, onboard test and integration efforts up through and including Navigation Certification, and completes navigation system verification testing to enable the OEM to accelerate production.

GW5IN: Funds required to install the following Navigation System Procurements on board surface combatants, submarine platforms, and aircraft carriers: AN/WSN-7 and its associated IP-1747 Control Display Unit, AN/WSN-7A and its associated IP-1747 Enhanced Control Display Unit, AN/WSN-7B and its associated IP-1747 Enhanced Control Display Unit.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Other Navigation Equipment BLI: 067000 SBHD: 81GW**

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
	SUBMARINES														
GW006	AN/WSN-2 MAINT COMPONENTS					171			100			181			
GW013	NORFOLK NAVIGATION FC KITS					245			100			275			
GW029	AN/WSN-2/7 ECP/FC KITS					9,271			11,595			4,460			
GW035	RING LASER GYRO NAV(AN/WSN-7A	A		35		19,544	6		3,814	0		0			
	- WSN-7A			(21)	(734)	(15,414)	(4)	(806)	(3,224)	0		0			
	- WSN-7B			(14)	(295)	(4,130)	(2)	(295)	(590)	0		0			
GW830	PROD ENGINEERING FOR AN/WSN-2/7					794			100			389			
	PROCUREMENT SUB-TOTAL					30,025			15,709			5,305			
GW5IN	INSTALLATION OF EQUIPMENT (FMP)					1,231			15,477			9,590			
	INSTALLATION SUB-TOTAL					1,231			15,477			9,590			
	TOTAL					31,256			31,186			14,895			
	SURFACE SHIPS														
GW006	AN/WSN-2/5 MAINT COMPONENTS					423			0			0			
GW013	NORFOLK NAVIGATION FC KITS					15,274			0			290			
GW029	AN/WSN-2/5/7 ECP/FC KITS					11,524			0			9,853			
GW035	RING LASER GYRO NAV (AN/WSN-7	A		37		21,074	14		4,130	5		4,680			
	- WSN-7			(20)	(841)	(16,820)	0	0	0	(5)	(936)	(4,680)			
	- WSN-7B			(17)	(265)	(4,505)	(14)	(295)	(4,130)	0		0			
GW830	PROD ENGINEERING AN/WSN-2/5/7					863			0			618			
	PROCUREMENT SUB-TOTAL					49,158			4,130			15,441			
GW5IN	INSTALLATION OF EQUIPMENT (FMP)					7,370			12,275			13,868			
	INSTALLATION SUB-TOTAL					7,370			12,275			13,868			
	TOTAL					56,528			16,405			29,309			

WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System									DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Other Navigation Equipment BLI: 067000**								
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
	AIRCRAFT CARRIERS														
GW029	CVNS/WSN-7 ECP/FC KITS					1,841			710			552			
GW031	DMINS ECP/DOCUMENTATION					0			0			0			
GW035	RING LASER GYRO NAV (AN/WSN-7	A		1	826	826	0		0	0		0			
GW830	PROD ENGINEERING CVNS/AN/WSN-7					301			100			215			
	PROCUREMENT SUB-TOTAL					2,968			810			767			
GW5IN	INSTALLATION OF EQUIPMENT (FMP)					3,747			1,561			975			
	INSTALLATION SUB-TOTAL					3,747			1,561			975			
	TOTAL					6,715			2,371			1,742			
	TOTAL - PROCUREMENT					82,151			20,649			21,513			
	TOTAL - INSTALLATION					12,348			29,313			24,433			
	GRAND TOTAL					94,499			49,962			45,946			
						94,499			**49,962**			**45,946**			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	**A. DATE** **May 2001**
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	**C. P-1 ITEM NOMENCLATURE** **Other Navigation BLI: 067000**	**SUBHEAD** **81GW**

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
2000										
GW035 - RLGN										
Submarine										
- WSN-7A	21	734	NAVSEA, Arlington VA	12/99	FFP	Litton Marine, Charlottesville VA	02/00	10/01	YES	
- WSN-7B	14	295	NAVSEA, Arlington VA	12/99	FFP	Litton Marine, Charlottesville VA	08/00	10/01	YES	
Surface										
- WSN-7	20	841	NAVSEA, Arlington VA	12/99	FFP	Litton Marine, Charlottesville VA	02/00	10/01	YES	
- WSN-7B	17	265	NAVSEA, Arlington VA	12/99	FFP	Litton Marine, Charlottesville VA	08/00	10/01	YES	
Carrier WSN-7(V)3	1	826	NAVSEA, Arlington VA	12/99	FFP	Litton Marine, Charlottesville VA	02/00	10/01	YES	
2001										
GW035 - RLGN										
Submarine										
- WSN-7A	4	806	NAVSEA, Arlington VA	12/00	FFP	Litton Marine, Charlottesville VA	03/01	10/02	YES	
- WSN-7B	2	295	NAVSEA, Arlington VA	12/00	FFP	Litton Marine, Charlottesville VA	05/01	10/02	YES	
Surface										
- WSN-7B	14	295	NAVSEA, Arlington VA	12/00	FFP	Litton Marine, Charlottesville VA	05/01	10/02	YES	
2002										
GW035 - RLGN										
Surface										
- WSN-7	5	936	NAVSEA, Arlington VA	12/01	FFP	Litton Marine, Charlottesville VA	10/01	10/03	YES	

D. REMARKS

GW035 - Unit costs vary for Surface, Submarine, Carrier and WSN-7/7B configurations. This variance is due to combat system interfaces as required by surface combatants, additional circuit cards necessary for aircraft alignment on board carriers and IMU cabinetry differences as required on board submarines.

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/WSN-1,2,3,5 and CVNS TYPE MODIFICATION: MODIFICATION TITLE: RLGN/RLG (AN/WSN-7/7A/7B) GW035

DESCRIPTION/JUSTIFICATION:

The AN/WSN-7/7A Ring Laser Gyro Navigator (RLGN) replaces existing AN/WSN-1,-3, -5 inertial navigation systems currently installed in various surface and sub-surface combatants; the AN/WSN-7B Ring Laser Gyrocompass (RLG) replaces the AN/WSN-2. The AN/WSN-7/7A/7B provides commonality and corrects existing inadequacies identified in these systems in the areas of maintainability, performance, environmental effects, reliability and ownership costs. The AN/WSN-7/7A is a passive shipboard navigation system intended to be operable worldwide without the need for external position reference information over the course of its fourteen day reset interval; the AN/WSN-7B has a 24 hour reset value.
Note: the FY 99&Prior units include shipsets to be used at the LBTF not requiring install dollars. FY 94/95 assets were procured with AN/WSN-2/5 Field Change Dollars (GW029)

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS			0	0.0	0	0.0	0	0.0													0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	80	54.0	73	41.9	20	7.9	5	4.7												0.0	178	108.5
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	36	10.4	18	12.3	39	29.3	63	24.4												0.0	156	76.4
TOTAL PROCUREMENT	116	64.4	91	54.2	59	37.2	68	29.1												0.0	334	184.9

CLASSIFICATION: **UNCLASSIFIED**

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

MODELS OF SYSTEMS AFFECTED: AN/WSN1,2,3,5 and CVNS MODIFICATION TITLE: RLGN/RLG (AN/WSN-7/7A/7B)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 14-16 months
CONTRACT DATES: FY 2000: 2/00 FY 2001: 4/01 FY 2002: 4/02
DELIVERY DATE: FY 2000: 10/01 FY 2001: 10/02 FY 2002: 10/03

($ 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	36	10.4	18	12.3	33	24.8	4	1.5													91	49.0
FY 2000 EQUIPMENT					6	4.7	59	22.8													65	27.5
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																					37	0.0
																					193	

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	45	4	10	11	14	25	19	12	7	9	3	9	8	0	0	4	0	3	8	1	2	1	0	0	0	2	0	0	0	36	245
Out	45	4	10	11	14	25	19	12	7	9	3	9	8	0	0	4	0	3	8	1	2	1	0	0	0	2	0	0	0	48	245

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE P-23	A. APPROPRIATION/BUDGET ACTIVITY	B. P-1 ITEM NOMENCLATURE	C. DATE
	Other Procurement, Navy OPN/BA-1: SHIPS SUPPORT EQUIPMENT	OTHER NAVIGATION EQUIPMENT/GW035	May-01

		FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				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)	4	10	11	14	25	19	12	7	9	3	9	8	0	0	4	0	3	8	1	2	1	0	0	0	2	0	0	0	37
	(P)																													
SCHOOLS/OTHER TRAINING	(P)																													
OTHER	(P)																													
TOTAL PHASED REQ	(C)	4	14	25	39	64	83	95	102	111	114	123	131	131	131	135	135	138	146	147	149	150	150	150	150	152	152	152	152	189
ASSETS ON HAND	(BP)																													
DELIVERY FY 99 & PRIOR 37	(P)	4	10	11	8	4																								
FY 00 73 42	(P)				6	13	8	7	2	3		3																		
31						8	11	5	5	2																				
FY 01 20 4	(P)		S									3	1																	
16				S						4	3	3	6																	
FY 02 5 5	(P)						S						1			4														
0																														
TOTAL ASSETS	(C)	4	14	25	39	64	83	95	102	111	114	123	131	131	131	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3	-11	-12	-14	-15	-15	-15	-15	-17	-17	-17	-17	-54

D. REMARKS
*FY 2000 units are part of the 57 installed.
*Two (2) from prior years were for Land Based Test Sites.

E. RQMT (QTY)	TOTAL RQMT	INSTALLED	ON HAND	FY 99 & PRIOR	UNFUNDED
	243	57*	AS OF 9/30/00 0	UNDELIVERED 23	0
1. APPN -					
2. APPN -					
3. PROCUREMENT LEADTIME	ADMIN	INITIAL ORDER		REORDER	

TIME PHASED REQUIREMENTS SCHEDULE
(SUPPLEMENT SHEET-INSTALLATION DATA)
P-23A

P-1 ITEM NOMENCLATURE/PROJECT UNIT
OTHER NAVIGATION EQUIPMENT/GW035

DATE
May-01

APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Navy
BA-1: SHIPS SUPPORT EQUIPMENT

Installing Agent
N/A

FY 2000

1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	5		6		3		4
CG 58*	1	CG 55*	1	CV 63*	1	AGF 11*	1
CG 64*	1	CG 69*	1	DDG 64*	1	CG 57*	1
CG 66*	1	CG 70*	1	DDG 68*	1	CG 73*	1
CVN 70*	1	CVN 71*	1			DDG 72*	1
SSN 758*	1	DDG 63*	1				
		DDG 71*	1				

FY 2001

1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
	4		10		11		14
CG 53*	1	CG ^*	2	AGF 3*	1	CG^^^^*	4
CVN 74*	1	CVN 73*	1	CG 52*	1	DDG 51*	1
SSN 700*	1	DD 991*	1	DD 992*	1	DDG 54*	1
SSN 759*	1	DDG 69*	1	DDG 75*	1	DDG 57*	1
		LHA 2*	1	SSN ^^*	7	DDG 67*	1
		SSN 716*	1			LHA 4*	1
		SSN 723*	1			SSN ^^^*	5
		SSN 762*	1				
		SSN 766*	1				

FY 2002

	25		19		12		7
CVN 75*	1	CG-49*	1	CG 48*	1	DDG 61*	1
DD 987*	1	CVN 65*	1	DD 997*	1	DDG 73*	1
DDG 56*	1	DD 988*	1	DDG 59*	1	FFG 29**	1
LHD 4*	1	DDG 53*	1	DDG 74*	1	FFG 33**	1
LCC 20*	1	DDG 65*	1	LHA 1*	1	FFG 55**	1
SSN$ *	8	SSN $$*	3	LHA 5*	1	LSD 41**	1
FFG 38**	1	AOE 8**	2	SSN 763*	1	LSD 43**	1
MCM 8**	2	AS 39**	1	FFG 46**	1		
MHC 60**	1	AS 40**	1	FFG 47**	1		
SSN$ **	8	FFG 43**	1	FFG 48**	1		
		FFG 51**	1	FFG 54**	1		
		FFG 61**	1	SSN 763**	1		
		FFG 8**	1				
		SSN $$**	3				

FY 2003

	0		0		0		0

^ CG 50, 51 ^^ SSN 711, 725, 750, 751, 753, 770, 773 ^^^^ CG 61, 62, 68, 71

^^^SSN 691, 718, 755, 757, 765

NOTE: * - AN/WSN-7 or AN/WSN-7A Only
** - AN/WSN-B only

$ - SSN 690, 710, 720, 721, 754, 760, 767, 771 $ $- SSN 719, 722, 772

BUDGET ITEM JUSTIFICATION SHEET
P-40

DATE: **JUNE 2001**

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY/BA 1

P-1 ITEM NOMENCLATURE
UNDERWAY REPLENISHMENT EQUIPMENT (81G0/0740)

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)			**$14.5**	**$8.3**	**$1.8**							**$24.6**
SPARES COST (In Millions)												**$0.0**

This line item encompasses equipment required to provide the Fleet with a reliable Stream Underway Replenishment capability. The equipment is used to transfer ammunition, missiles, fuel and cargo by alongside replenishment techniques, cranes, and elevators. This new equipment is essential to the Fleet to: (a) enhance personnel equipment safety; (b) reduce maintenance costs; (c) lengthen intervals between equipment failures; (d) allow heavylift transfer (i.e., aircraft engines) and (e) shorten along-side time, thereby reducing ship vulnerability to enemy action. Installation costs are included. Some of the significant items included are as follows:

STREAM EQUIPMENT MODS (G0011) - This item will support the replacement of Stream Equipment components by mods kits to correct deficiencies. This work will be performed by AIT teams or SHIPALTS. Mods include Sliding Block Limit Switches, NATO kits, One Man Control Station, and Hauling Winch Friction Drums.

AOE STREAM MODERNIZATION (G0043) - This item replaces 25 year old, unreliable Stream System with modern, reliable Navy Standard Stream Systems on AOE 1 Class. ShipAlts AOE-761K, 7 and 764K apply.

SLIDING PAD EYES (GO0002)- This item replaces old 12 foot stroke sliding padeyes with new 16 foot stroke sliding padeyes in CVN's . These padeyes are needed to meet operational requirements to receive special heavy loads that are delivered from CLF's ships.

PRODUCTION ENGINEERING (G0830)- The review and approval of any production contract technical documentation, or the separate development of this documentation to include, Technical Manuals, PMS, Level III production drawings, Provisioning Technical Documentation Program Support Data and Allowance Parts List (APL's); Engineering in support of final design reviews. This work can be accomplished by NSWC. PHD is the In Service Engineering Agent.

EQUIPMENT INSTALLATION (GO5IN)- Funding is for the installation of equipment including Fleet Modernization Program installation of training equipment and installation of equipment in other shore facilities.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA 1: SHIPS SUPPORT EQUIPMENT**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **UNDERWAY REPLENISHMENT EQUIPMENT (81G0/0740)**	

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
	N4 DCNO LOGISTICS														
G0011	**STREAM EQUIPMENT MODS**	**A**		**74**	**38.648**	**2,860**									
G0043	**AOE STREAM MODERNIZATION**	**A**		**1**	**1,400**	**1,400**									
G0830	**PRODUCTION ENGINEERING**	**A**				**654**									
	N4 Total					**4,914**			**0**			**0**			
G0002	**SLIDING PADEYES**	**A**								**2**	**150.5**	**301**			
G0830	**PRODUCTION ENGINEERING**	**A**							**0**			**150**			
									0			**451**			
	TOTAL					**4,914**			**0**			**451**			
G05IN	**INSTALLATION**														
	N4 DCNO LOGISTICS					9,274			8,233			0			
	N88 AIR WARFARE					337			115			1,351			
	Install Subtotal					**9,611**			**8,348**			**1,351**			
						14,525			**8,348**			**1,802**			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	**A. DATE** **JUNE 2001**
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA 1: SHIPS SUPPORT EQUIPMENT**	**C. P-1 ITEM NOMENCLATURE** **UNDERWAY REPLENISHMENT EQUIPMENT/0740**	**SUBHEAD** **81GO**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 00										
G0011	74	38.648	PORT HUENEME, CA		RCP/OPT	WI. CENTRIFUGAL, WI	MAR 00	MAR 01	YES	
G0043	1	1,400	NAVSEA		WR	NSWC PORT HUENEME, CA	JAN 00	JUL 01	YES	
FY 02										
G0002	2	150.5	PORT HUENEME, CA		RCP/OPT	WI. CENTRIFUGAL, WI	MAR 02	MAR 03	YES	

D. REMARKS

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: STREAM UNREP MODS (G0011) TYPE MODIFICATION: MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Various Stream Equipment Mods including limit switches, NATO Kits, and Hauling Friction Drums.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT*	107	4.4	74	2.9																	181	7.3
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	100	8.5	7	0.9																	107	9.4
TOTAL PROCUREMENT		12.9		3.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0				16.7

*HAULING WINCH FRICTION DRUMS DO NOT REQUIRE INSTALLATION FUNDING. THEY ARE AN IMPROVED LONG LASTING MATERIAL (TITANIUM CARBIDE IMPREGNATED) AND ARE PROVIDED TO SHIPS WHEN THEIR EXISTING WINCH DRUMS WEAR OUT

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

MODELS OF SYSTEMS AFFECTED: STREAM UNREP MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT

MOD EQUIPMENT (G0011)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION:
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003
DELIVERY DATE: FY 2001: FY 2002: FY 2003

($ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2005		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS	100	8.5	7	0.9															107	8.5
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																				

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Out	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AOE STREAM MODERNIZATION (G0043) TYPE MODIFICATION: MODIFICATION TITLE: UNDERWAY REPLENISHMENT

DESCRIPTION/JUSTIFICATION:

Replacement of 25 year old Non-Navy Standard Equipment.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	3	4.4	1	1.4																	4	5.8
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		3.1	2	8.7	2	8.2															4	20.0
TOTAL PROCUREMENT		7.5		10.1		8.2		0.0		0.0				0.0		0.0		0.0				25.8

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

MODELS OF SYSTEMS AFFECTED: AOE STREAM MODIFICATION TITLE:
MODERNIZATION (G0043)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 19 Months
CONTRACT DATES: FY 2000: Jan-00 FY 2001: FY 2002:
DELIVERY DATE: FY 2000: Jul-01 FY 2001: FY 2002:

($ 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	AP	3.1	2	8.4	1	4.2															3	15.7
FY 2000 EQUIPMENT			AP	0.3	1	4.0															1	4.3
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																						

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SADDLE WINCH (G0003) TYPE MODIFICATION: _____ MODIFICATION TITLE: UNDERWAY REPLENISHMENT

DESCRIPTION/JUSTIFICATION:

Replacement of 25 year old Non-Navy Standard Equipment.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						0.0
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	12	0.6																			12	0.6
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							AP	0.1											12	2.5	12	2.6
TOTAL PROCUREMENT		0.6		0.0		0.0		0.1		0.0		0.00		0.0		0.00		0.0				0.7

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

MODELS OF SYSTEMS AFFECTED: SADDLE WINCH (G0003) MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Months

CONTRACT DATES: FY 2001: FY 2002: FY 2003

DELIVERY DATE: FY 2001: FY 2002: FY 2003

($ 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							AP	0.1													12	2.8
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																						

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	0	0	0																					12	12
Out	0	0	0	0	0	0	0	0	0																					12	12

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SLIDING PADEYES G0002 TYPE MODIFICATION: MODIFICATION TITLE: UNDERWAY REPLENISHMENT

DESCRIPTION/JUSTIFICATION:

Replacement 25 year old Non-Navy Standard Equipment.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	2	0.3					2	0.3													4	0.6
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					AP	0.1	2	1.2											6	4.4	8	1.3
TOTAL PROCUREMENT		0.3		0.0		0.1		1.5		0.2		0.0		0.0		0.0		0.0		4.4		6.5

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

MODELS OF SYSTEMS AFFECTED: SLIDING PADEYES (G0002) MODIFICATION TITLE: UNDERWAY REPLENISHMENT EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 18 Months

CONTRACT DATES: FY 2000: Mar-00 FY 2001: FY 2002:

DELIVERY DATE: FY 2000: Mar-01 FY 2001: FY 2002:

($ 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					AP	0.1	2	1.2													2	1.3
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																						
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	0	2	0																					6	8
Out	0	0	0	0	0	0	0	0	0																					8	8

BUDGET ITEM JUSTIFICATION SHEET P-40											DATE: JUNE 2001		
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1**							P-1 ITEM NOMENCLATURE **SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL**					
Program Element for Code B Items:							Other Related Program Elements **N/A**					
		ID Code	FY 2000	FY 2001	FY 2002							
QUANTITY												
COST (In Millions)			**$62.2**	**$18.8**	**$29.2**							
SPARES COST (In Millions)												

Service Approval - The Type 18 Periscope was approved for service use December 1972.

The Type 18 Periscope contains redesigned Electronic Warfare Support (ES) and Optical Subsystems. The ES provides improved sensitivity, reliability, maintainability, and extended frequency coverage. The optical subsystem provides higher power and resolution (optimized for photography) and the eyepiece box is redesigned for built-in-TV and still imaging. Special electronics for low light level viewing are also provided. Type 18 Periscope Systems are installed on all SSN 688 and SSN 21 Class submarines.

The Type 18 Periscope Inventory Objective is 73 units: This is the quantity required for ship installation (55), spares (14), trainers (3), and (1) configuration model.

The Type 8B Mod 3 Periscope provides enhanced imaging and communications capabilities. The Type 8B Mod 3 Periscope replaces the Type 2 Periscope on SSN 688 Class Submarines. The Type 8B Mod 3 Periscope inventory objective is 64 units. This is the quantity required for ship installation (56), spares (5), trainers (1), Type 8 Mod 3 Infrared (IR) Pre-Production Model (1) and configuration control model (1).

PL001 - Procurement of Type 8B Mod 3 Periscopes began in FY 1991. The Type 8B Mod 3 replaces the Type 2 Periscope on SSN-688 Class Submarines and provides them with enhanced imaging and communications capabilities. Installations will be accomplished during routine upkeep periods and shipyard availabilities.

PL006 - Imaging components are required to fully support Type 18 digital imaging, photographic, television, ancillary equipments and upgrades. Equipment includes High Resolution Digital Cameras, Video and Photographic Screening Systems, AR-165B Reader/Printers, Reliability & Maintainability and Obsloescence components and imaging equipment's that must be replaced. These maintenance items support fleet requirements based on demand history, repair turn-around time, and casualties resulting from non-repairable equipment and ancillary components.

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: JUNE 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1	P-1 ITEM NOMENCLATURE SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL

PL011 - Funding continues procurement of Periscope Reliability & Maintainability, Obsolescence and Operational Field Change Kits (i.e.): Type 18 Heated Head Window replacement, Type 18 Eyepiece Box/Mast Connector Interface, Type 18I Improved Antenna, Type 18 Signal Distribution Upgrade, Type 18 Autocoupler Upgrade, Type 18 E&E Adapter Cable Upgrade, Digital Integrated Annotation, Type 18 PeriVU Upgrade, Mechanical Inner Structure Pads, Type 18 Mast Downrun Upgrade, ADF and Omni Comms Filter, ADF Dual Processor, Periscope Bearing Upgrade, Hoisting Cylinder Sleave Bearing Upgrade, Fairing Periscope Fairing Steady Bearing, Periscope Fairing Cylinder, Access Oil Collector, Fairing Cycle Monitoring Equipment, Fairing Acoustic Improvement, Periscope Fairing Lower Bearing, and Periscope Well Bumper Improvement. Variable quantities and types are bought in each fiscal year.

PL012 - Funds procure replacement Special Support Equipment (SSE) for each maintenance level to ensure systems are maintained in a state of operational readiness. Equipment includes Q-Band Test Equipment, Mast Dynamic Collimator, Eyebox/Mast Test Set, and Antenna/Outer Head Simulator required due to obsolescence and age of existing Type 8 and 18 Periscope SSE.

PL015 - Funding is for Interim Contract Support provided by the periscope manufacturer including Depot and Intermediate level repair of all types of tactical periscope equipment.

PL016 - Funding is for Type 8 and 18 periscope Field Change Kit training requirements to include curriculum development, training materials, initial factory training pilot course conduct, Navy Training Plans, and instructor advisory services.

PL017 - Funding is for the procurement of Type 8 Mod 3 Infra-Red (IR) Periscope Upgrades beginning in FY-03. Funding provides for enhanced submarine safety through the ability to navigate and visually detect contacts at night and in light rain or fog. Tactically, the submarine will be able to perform continuous IR searches for targets, plumes and wakes, perform reconnaissance of coastlines, track and recover special forces, perform mine laying at night and provide correlation of IR images with EW emitters. Upgrades will be retrofitted on all SSN Fast Attack Submarines.

PL830 - Production Engineering funds provide the following functions: value engineering; review and evaluation of production design data and documentation; production configuration control; maintenance engineering efforts designed and incorporated into the production manufacturing process, and other related engineering functions that are integral to all of the Periscope Systems and ancillary components.

PL900 - Periscope Consulting Services funds provide the following functions: In-Service engineering and technical support to deployed Periscope and Imaging Equipment, periscope installation and integration planning, SHIPALT and TEMPALT technical data preparation, production hardware design review, engineering/technical support for installations, training materials development, field engineering and technical problem resolution, field change kit installation planning, configuration management, and maintenance planning including inventory, management, repair, and restoration scheduling.

PLXX1 - EHF Periscope High Power Amplifier (HPA) - The HPA is a 250W amplifier that supplies the power for the EHF low data rate submarine antenna system. Combined with the EHF Periscope antenna and the AN/USC-38 EHF terminal communications equipment group or Follow On Terminal (FOT) provides the submarine force a secure anti-jam, low probablility of intercept communications asset.

PLXX2 - EHF Periscope Antenna - This is a submarine 5 1/4" antenna mounted on a periscope that provides the submarine access to the EHF MILSTAR satellite system. Combined with the AN/USC-38 EHF terminal communications equipment group or FOT and the HPA it provides the submarine force a secure anti-jam, low probablility of intercept communications asset.

PLXX3 - EHF Follow-On Terminal (FOT) - The FOT is an advanced AN/USC-38 EHF terminal communications equipment group that Integrates the LDR/MDR terminal into one VME drawer. The FOT is the replacement LDR/MDR terminal for those platforms without an AN/USC-38 LDR terminal. Combined with the EHF Periscope antenna and the HPA it provides the submarine force a secure anti-

BUDGET ITEM JUSTIFICATION SHEET P-40	DATE: JUNE 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1	P-1 ITEM NOMENCLATURE SUB. PERISCOPES & IMAGING EQUIP./083100/05/H1PL

PL5IN - Funding is for the installation of Fleet Modernization Program Equipment Only

PL6IN - Funding is for the installation of Non-Fleet Modernization Program Equipment only.

Estimates include competitive sourcing savings associated with consolidation of production support contracting efforts.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: JUNE 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **SUBMARINE PERISCOPES AND IMAGING PROGRAM/H1PL/083100**	

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
PL001	Type 8B Mod 3 Periscope (SSN)*	A													
	Type 8B Mod 3 Periscope Systems			8	1,108	8,864			0	11	1,144	12,584			
	Type 8B Mod 3 IR Pre-Production Unit			1	5,538	5,538									
PL006	Type 18 Imaging Components	A				4,253			1,435			486			
PL011	Periscope Field Change Kits	A				2,691			5,969			7,766			
PL012	Periscope Special Support Equipment	A				1,037			413			420			
PL015	Periscope Interim Contractor Support	A				3,738			1,046			1,063			
PL016	Periscope Training	A				139			138			140			
PL017	Type 8 Mod 3 IR Periscope Upgrade	A				0			0			0			
PL830	Periscope Production Engineering	A				2,309			2,152			2,327			
PL900	Periscope Consulting Services	A				653			656			666			
PL5IN	Periscope FMP Installation	A				8,185			4,552			3,788			
			0			**37,407**			**16,361**			**29,240**			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: SHIP SUPPORT EQUIPMENT**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **SUB. PERISCOPES & IMAGING PROGRAM/083100/05/H1PL**	

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
				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
PLXX1	EHF Periscope HPA**	A		7	798	5,588			0						
PLXX2	EHF Periscope Antenna**	A		15	394	5,912			0						
PLXX3	EHF FOT**	A		10	1,330	13,295			0						
PL5IN	SPAWAR Installation**	A		0		0			2,463						
	** The above funding for PLXX1, PLXX2 & PLXX3 was previously placed in H1PL/083100 per PBD 752 and should have been placed in SPAWAR's BA 2 Program.														
			0			**24,795**			**2,463**			**0**			**0**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE JUNE 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1 SHIP SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE SUBMARINE PERISCOPES & IMAGING EQUIP.	SUBHEAD H1PL/81PL

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										
PL001										
Type 8B Mod 3 Periscope										
Type 8B Mod 3 Systems	8	$1,108	NUWC, Newport	9/99	FP/O	Kollmorgen	5/00	7/01	YES	N/A
Type 8B IR Pre-Prod	1	$5,538	NUWC, Newport	6/00	FP/O	Northampton, MA.	8/00	8/02	YES	N/A
FY02										
PL001										
Type 8B Mod 3 Periscope	11	$1,144	NUWC, Newport	9/01	FP/O	Kollmorgen Northampton, MA.	3/02	5/03	YES	N/A

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE JUNE 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1 SHIP SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE SUBMARINE PERISCOPES & IMAGING EQUIP.	SUBHEAD H1PL/81PL

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										
PLXX1-EHF P. HPA	7	$798.285	SPAWAR		SS/FFP/OPT	Raytheon, MA	12/99	12/00	YES	N/A
PLXX2-EHF P Ant.	15	$394.133	SPAWAR		SS/FFP/OPT	Raytheon, MA	12/99	12/00	YES	N/A
PLXX3-EHF FOT	10	$1,329.500	SPAWAR		SS/FFP/OPT	Raytheon, MA	12/99	3/01	YES	N/A

D. REMARKS

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Type 8 Periscope TYPE MODIFICATION: Shipalt MODIFICATION TITLE: Type 8B Mod 3/PL001

DESCRIPTION/JUSTIFICATION:

Provides EHF Satellite Communications (SATCOM)

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	$	QTY	$	QTY	$	QTY	$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	34	57.7	6	6.6	0	0.0	11	12.6														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT*	1	2.7																				
SUPPORT EQUIPMENT (CCM)	1	1.1																				
OTHER: TRIDENT PAYBACKS	5	5.3	0	0.0																		
OTHER: SPARES	3	3.4	2	2.2																		
OTHER: TYPE 8 MOD 3 IR PREPROD MODEL			1	5.5																		
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	29	11.3	4	1.9	3	1.3	3	2.1														
TOTAL PROCUREMENT	44	70.2	9	14.3	0	0.0	11	12.6														

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

MODELS OF SYSTEMS AFFECTED: Type 8 Periscope MODIFICATION TITLE: Type 8B Mod 3/PL001

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AITs
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 14 Months
CONTRACT DATES: FY 2001: N/A FY 2002: Mar-02
DELIVERY DATE: FY 2001: N/A FY 2002: May-03

($ in Millions)

Cost:	FY1999&Prior		FY 2000		FY 2001		FY 2002		FY 2003													
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty													
PRIOR YEARS	29	11.3	4	1.9	1	0.4																
FY 2000 EQUIPMENT					2	0.9	3	2.1														
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	33	0	0	0	3	0	1	1	1										
Out	33	0	0	0	3	0	1	1	1										

P-3A

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Type 18B Periscope TYPE MODIFICATION: Shipalt MODIFICATION TITLE: Type 18 Video Upgrade/PL006

DESCRIPTION/JUSTIFICATION:

Provides replacement of obsolete Type 18 Periscope video components with an electronic still imaging upgrade.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	$	QTY	$	QTY	$	QTY	$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	26	5.2																				
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT*	1	0.2																				
SUPPORT EQUIPMENT (CCM &SS)	1	0.2																				
OTHER SPARES																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	14	0.3	12	0.2																		
TOTAL PROCUREMENT	28	5.6	0	0.0																		

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

MODELS OF SYSTEMS AFFECTED: Type 18B Periscope MODIFICATION TITLE: Type 18 Video Upgrade/PL006

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AITs
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months
CONTRACT DATES: FY 2001: FY 2002:
DELIVERY DATE: FY 2001: FY 2002:

($ in Millions)

Cost:	FY1999&Prior		FY 2000		FY 2001		FY 2002		FY 2003													
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty													
PRIOR YEARS	14	0.3	12	0.2																		
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 1	2	3	4	FY 2002 1	2	3	4								
In	26	0	0	0	0	0	0	0	0								
Out	26	0	0	0	0	0	0	0	0								

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Type 18B Periscope TYPE MODIFICATION: Shipalt MODIFICATION TITLE: Type 18 Improved Video Upgrade PL011

DESCRIPTION/JUSTIFICATION:

Provides replacement of obsolete Type 18 Periscope video components with a digital imaging upgrade.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	$	QTY	$	QTY	$	QTY	$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			12	2.4	16	3.2	16	3.2														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT			1	0.2																		
SUPPORT EQUIPMENT (CCM &SS)																						
OTHER SPARES			3	0.6																		
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST					12	0.7	16	1.0														
TOTAL PROCUREMENT	0	0.0	16	3.2	16	3.2	16	3.2														

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

MODELS OF SYSTEMS AFFECTED: Type 18B Periscope MODIFICATION TITLE: Type 18 Improved Video Upgrade/PL011

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AITs
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 6 Months
CONTRACT DATES: FY 2001: FY 2002:
DELIVERY DATE: FY 2001: FY 2002:

($ in Millions)

Cost:	FY1999&Prior		FY 2000		FY 2001		FY 2002		FY 2003													
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty													
PRIOR YEARS																						
FY 2000 EQUIPMENT					12	0.7																
FY 2001 EQUIPMENT							16	1.0														
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 1	2	3	4	FY 2002 1	2	3	4
In	0	3	3	3	3	4	4	4	4
Out	0	3	3	3	3	4	4	4	4

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Submarine Periscopes & Imaging Equip. TYPE MODIFICATION: Ordalts MODIFICATION TITLE: Field Change/PL011

DESCRIPTION/JUSTIFICATION:

Provides obsolescence related upgrades for the Submarine Periscopes.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	$	QTY	$	QTY	$	QTY	$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	1009	6.2	209	2.8	256	8.3	116	6.9														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT*																						
SUPPORT EQUIPMENT (CCM & SS)																						
OTHER LBU/GFE)																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	702	3.8	307	6.0	209	2.5	256	0.7														
TOTAL PROCUREMENT	1009	6.2	209	2.8	256	8.3	116	6.9														

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

MODELS OF SYSTEMS AFFECTED: Sub. Periscopes & Imaging E MODIFICATION TITLE: Field Change/PL011

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AITs
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 2001: FY 2002:
DELIVERY DATE: FY 2001: FY 2002:

($ in Millions)

Cost:	FY1999&Prior		FY 2000		FY 2001		FY 2002		FY 2003													
	Qty	$	Qty	$	Qty	$	Qty	$	Qty													
PRIOR YEARS	702	3.8	307	6.0																		
FY 2000 EQUIPMENT					209	2.5																
FY 2001 EQUIPMENT							256	0.7														
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 1	FY 2001 2	FY 2001 3	FY 2001 4	FY 2002 1	FY 2002 2	FY 2002 3	FY 2002 4								
In	1009	0	70	70	69	0	85	85	86								
Out	1009	0	70	70	69	0	85	85	86								

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: EHF Per. High Power Amplif. (HPA).

DESCRIPTION/JUSTIFICATION:

Installation of EHF Periscope HPA.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: _____

	FY 1999 & Prior QTY	FY 1999 & Prior $	FY 2000 QTY	FY 2000 $	FY 2001 QTY	FY 2001 $	FY 2002 QTY	FY 2002 $
FINANCIAL PLAN (IN MILLIONS)								
RDT&E								
PROCUREMENT								
INSTALLATION KITS								
INSTALLATION KITS - UNIT COST								
INSTALLATION KITS NONRECURRING								
EQUIPMENT			7	5.7				
EQUIPMENT NONRECURRING								
ENGINEERING CHANGE ORDERS								
DATA								
TRAINING EQUIPMENT*								
SUPPORT EQUIPMENT (CCM)								
OTHER TRIDENT PAYBACKS*								
OTHER SPARES*								
OTHER								
INTERIM CONTRACTOR SUPPORT								
INSTALL COST (1)					3	2.4		
TOTAL PROCUREMENT			7	5.7	(See notes 1, 2 and 3)			

Notes/Comments:

1) Portion of $2.5M installation funds.
2) Remaining $100K is for EHF Periscope Antenna installations (See P3A, page 18 of 19).
3) Four remaining HPA installed under SPAWAR BLI 313005/52LO/L0087.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: EHF Per. Antenna

DESCRIPTION/JUSTIFICATION:

Installation of EHF Periscope Antenna.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: _____

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002	
	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)								
RDT&E								
PROCUREMENT								
INSTALLATION KITS								
INSTALLATION KITS - UNIT COST								
INSTALLATION KITS NONRECURRING								
EQUIPMENT			15	6.0				
EQUIPMENT NONRECURRING								
ENGINEERING CHANGE ORDERS								
DATA								
TRAINING EQUIPMENT*								
SUPPORT EQUIPMENT (CCM)								
OTHER TRIDENT PAYBACKS*								
OTHER SPARES*								
OTHER								
INTERIM CONTRACTOR SUPPORT								
INSTALL COST					3	0.1		
TOTAL PROCUREMENT			15	6.0	(See notes 1, 2 and 3)			

Notes/Comments:

1) Portion of $2.5M installation funds.
2) Remaining $2,378K is for EHF Periscope High Power Amplifier (HPA) installations (See P3A, page 17 of 19).
3) Twelve remaining EHF Periscope Antennas installed under SPAWAR BLI 313005/52LO/L0095.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: _____ TYPE MODIFICATION: _____ MODIFICATION TITLE: EHF FOT

DESCRIPTION/JUSTIFICATION:

Installation of EHF FOT

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: _____

	FY 1999 & Prior		FY 2000		FY 2001		FY 2002															
	QTY	$	QTY	$	QTY	$	QTY	$														
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			10	13.5																		
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT*																						
SUPPORT EQUIPMENT (CCM)																						
OTHER TRIDENT PAYBACKS*																						
OTHER SPARES*																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST																						
TOTAL PROCUREMENT			10	13.5	(See note 1)																	

Notes/Comments:

1) All FOTs installed In Accordance With the Submarine Wideband Modernization Plan under SPAWAR BLI 32100/52NN/NN107 (changing to BLI 32151/52NR in FY01).

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY: **OTHER PROCUREMENT, NAVY**							P-1 ITEM NOMENCLATURE: **Fire Fighting Equipment 81HB/0910**					
Program Element for Code B Items: **BA.1: Ships Support Equipment**							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)			**$15.5**	**$16.7**	**$17.5**							**$49.7**
SPARES COST (In Millions)												**$0.0**

CNO, Surface Ship Survivability Flag Level committee, and top echelons of the Navy directed that a number of survivability improvements be incorporated into mission-essential ship and combat systems during their acquisition and modernization. Shipboard fires have emphasized the urgent need to upgrade features and design standards that contribute to survivability.

The firefighter's Self-Contained Breathing Apparatus (SCBA) (HB008) is a compressed air breathing device compatible with firefighter protective wear and helmet, and other damage control equipment. The SCBA is a commercially available device which was tested and certified by the National Institute for Occupational Safety and Health (NIOSH) and is in accordance with the National Fire Protection Association (NFPA) Standard 1981 for a firefighter's breathing apparatus.

The SCBA will provide breathable air to the firefighter for a longer period of time than the OBA, with fewer physical demands on the user. It will provide air at a rate which satisfies breathing requirements of the user for duration of up to one hour. Equipment supporting the SCBA includes: booster pumps for ships with HP air system, portable diesel compressors for all ships when ships power is lost and portable electric compressors for recharging purposes for all ships (ships with HP air systems when HP air is down and all other ships are primary source of recharge air) and a filter kit which provides breathing quality air to the booster pumps/compressors for use in recharging the SCBA air cylinders. Inventory objective is 120. A total of seven were procured in prior years, Forty-four are included in the Budget Years. Sixty nine are to be procured in subsequent years. Unit cost varies.

PRODUCTION ENGINEERING - (HB830): Development of technical manuals, PMS, Provisioning Technical documentation (PTD), Program Support Data (PSD) and Allowance Parts List (APL's); Engineering in support of design reviews. This work can be accomplished by CSS, Panama City as the in-service engineering agent, other Naval activities or contractors as appropriate.

INSTALLATION OF EQUIPMENT - HB5IN:
Funding is for installation of equipment including Fleet Modernization Program installations, installation of training equipment, and installation of equipment in other shore facilities.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5			Weapon System											DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy			ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD: FireFighting Equipment 81HB/0910										
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
	N75 EXPEDITIONARY WARFARE														
HB008	BREATHING APPARATUS			4	682.5	2,730	3	665.3	1,996						
HB830	PRODUCTION ENGINEERING					103			0						
	N75 Subtotal					2,833			1,996			0			
	N76 SURFACE WARFARE														
HB008	BREATHING APPARATUS			8	299.875	2,399	6	302	1,812	10	329.600	3,296			
HB830	PRODUCTION ENGINEERING					24			89			143			
HB009	TRAINING EQUIPMENT SCBA'S			278	877.6	244			0			0			
	N76 Subtotal					2,667			1,901			3,439			
	N78 AIR WARFARE														
HB008	BREATHING APPARATUS			1	1,319	1,319	2	1,419.5	2,839	2	1,419.5	2,839			
HB830	PRODUCTION ENGINEERING					0			0			0			
	N78 Subtotal					1,319			2,839			2,839			
	Equipment Subtotal					6,819			6,736			6,278			
HB5IN	INSTALLATION														
	N75 EXPEDITIONARY WARFARE					1,390			1,670			2,261			
	N76 SURFACE WARFARE					6,008			5,833			6,678			
	N78 AIR WARFARE					1,307			2,443			2,322			
	Install Subtotal					8,705			9,946			11,261			
			0			15,524			16,682			17,539			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	**A. DATE** **June 2001**
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: Ships Support Equipment**	**C. P-1 ITEM NOMENCLATURE** **FIRE FIGHTING EQUIPMENT 0910**	**SUBHEAD** **81HB**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 00										
N75 EXPEDITIONARY WARFARE										
HB008 Breathing Apparatus	4	682.5	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 99	Jan 00	YES	
N76 SURFACE WARFARE										
HB008 Breathing Apparatus	8	299.875	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 99	Jan 00	YES	
HB009 Training SCBA	278	877.6	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 99	MAR 00	YES	
N78 AIR WARFARE										
HB008 Breathing Apparatus	1	1,319.0	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 99	Jan 00	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	**A. DATE** **June 2001**
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: Ships Support Equipment**	**C. P-1 ITEM NOMENCLATURE** **FIRE FIGHTING EQUIPMENT 0910**	**SUBHEAD** **81HB**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 01										
N75 EXPEDITIONARY WARFARE										
HB008 Breathing Apparatus	3	665.3	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 00	Jan 01	YES	
N76 SURFACE WARFARE										
HB008 Breathing Apparatus	6	302	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 00	Jan 01	YES	
N78 AIR WARFARE										
HB008 Breathing Apparatus	2	1,419.5	NSWC CSS, FL		WR	GSA SCHEDULE COTS	Nov 00	Jan 01	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	**A. DATE** **June 2001**
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: Ships Support Equipment**	**C. P-1 ITEM NOMENCLATURE** **FIRE FIGHTING EQUIPMENT 0910**	**SUBHEAD** **81HB81HB**

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 02										
N76 SURFACE WARFARE										
HB008 Breathing Apparatus	10	329,600	NSWC CSS, FL		WR	GSA SCHEDULE COTS	NOV 01	JAN 02	YES	
N78 AIR WARFARE										
HB008 Breathing Apparatus	2	1,419.5	NSWC CSS, FL		WR	GSA SCHEDULE COTS	NOV 01	JAN 02	YES	

D. REMARKS

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: HALON (HB001) TYPE MODIFICATION: MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Halon 1301 Firefighting system installations for safety modifications to gas turbine modules and flammable liquid and gas cylinder storerooms.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
EQUIPMENT NONRECURRING		2.6																				2.6
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		16.9		0.5		0.5		0.3														18.2
TOTAL PROCUREMENT		19.5		0.5		0.5		0.3														20.8

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: HALON (HB001) MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: VAR
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Months
CONTRACT DATES: FY 2001 FY 2002 FY 2003
DELIVERY DATE: FY 2001 FY 2002 FY 2003

($ 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		16.9		0.5		0.5		0.3													0	18.2
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																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001					FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2006				TC	TOTAL
		1	2	3	4		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: AFFF IMPROVED FIREFIGHTING (HB005) TYPE MODIFICATION: MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

DESCRIPTION/JUSTIFICATION:

AFFF systems are improved to the Balanced Pressure Proportioner type and receive dedicated Automatic Bus Transfer.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT		9.1																				9.1
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		17.4		0.8		3.5		4.4														26.1
TOTAL PROCUREMENT		26.5		0.8		3.5		4.4		0.0		0.0		0.0		0.0		0.0				35.2

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: AFFF IMPROVED FIREFIGHTING (HB005) MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: VAR
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: Months
CONTRACT DATES: FY 2001 FY 2002: FY 2003:
DELIVERY DATE: FY 2001 FY 2002: FY 2003:

($ 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		17.4		0.8		3.5		4.4													0	26.1
FY 2000 EQUIPMENT																					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																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001					FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	TOTAL
		1	2	3	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: BREATHING APPARATUS (FBA HB008) TYPE MODIFICATION: MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

DESCRIPTION/JUSTIFICATION:

The FFBA will provide breathable air to the Fire Fighter for a longer period of time than the OBA and with reduced physical demands on the user.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																					0	0.0
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	7	3.8	13	6.4	11	6.6	12	6.1													43	22.9
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	7	4.4	11	7.4	11	6.0	13	6.6													42	24.4
TOTAL PROCUREMENT		8.2		13.8		12.6		12.7													0	47.3

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: BREATHING APPARATUS (FBA HB008) MODIFICATION TITLE: FIREFIGHTING EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 2 Months
CONTRACT DATES: FY 2001 Nov-00 FY 2002: Nov-01 FY 2003:
DELIVERY DATE: FY 2001 Jan-01 FY 2002: Jan-02 FY 2003:

($ 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	7	4.4																			7	4.4
FY 2000 EQUIPMENT			11	7.4	2	1.0															13	8.4
FY 2001 EQUIPMENT					9	5.0	2	1.2													11	6.2
FY 2002 EQUIPMENT							11	5.4													11	5.4
FY 2003 EQUIPMENT																					0	0
FY 2004 EQUIPMENT																					0	0
FY 2005 EQUIPMENT																					0	0
FY 2006 EQUIPMENT																					0	0
FY 2007 EQUIPMENT																				0.3	0	0.3
TO COMPLETE																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	18	2	3	3	3	2	4	4	3																					77	119
Out	16	2	2	3	3	3	2	4	4																					80	119

BUDGET ITEM JUSTIFICATION SHEET P-40											DATE: June 2001	
APPROPRIATION/BUDGET ACTIVITY: **OTHER PROCUREMENT, NAVY** — **BA-1: SHIPS SUPPORT EQUIPMENT**							P-1 ITEM NOMENCLATURE: **COMMAND AND CONTROL SWITCHBOARDS 81GE BLI: 092500**					
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	**$17.0**	**$10.4**	**$9.1**							**$36.5**
SPARES COST (In Millions)												**$0.0**

PROGRAM DESCRIPTION/JUSTIFICATION:

The switchboard program provides mission critical switching capability required to link shipboard combat equipment including weapons, launchers, sensors, computers and navigation equipment. In essence, switchboards serve as the central connection point for most elements of combat and weapon systems, interior communications, data transfer, and command and control systems. They are designed to accommodate either analog or digital interfaces or a combination of both. In total, this budget item supports approximately 161 ships and 1,024 installed switchboards throughout the acquisition life cycle.

Functions include: data routing; action cutout; test and operating mode selection (including casualty back-up modes); power monitoring and control; circuit protection; peripheral equipment isolation; and signal processing, frequency conversion amplification and switching. In summary, the primary purpose is to provide systems intra and interface compatibility.

Changes in other elements of the combat and IC systems will frequently mandate either conjunctive modification to switchboards via ordnance alteration/field change or partial or complete replacement of existing switchboards. Typical switchboard mods include hardware/field change kits, ORDALT instructions, technical manual updates and revisions to other supporting documentation. Such changes are usually required subsequent to the initial installation, either in the same or later ship overhauls or availability. New Switchboards are normally installed during a regular overhaul by a shipyard.

Command and control switchboards are currently installed on and are required for almost all surface combatants and amphibious warfare ships. Individual switchboard unit cost varies from ship to ship, depending upon size, complexity, and whether analog or digital interfaces or some combination thereof are utilized. Modifications to existing switchboards via ORDALTs or Field Changes are quantified by kits or change packages rather than individual units. Switchboard hardware is normally procured by the Invitation for Bids (IFB) process, from manufacturers on Qualified Products List (QPL)-17000. There are currently six companies listed on QPL-17000. All contracts awarded are competitive, fixed price.

PUC GE001 - Reliability, Maintainability, & Availability (RMA): Evaluate product improvement proposals designed to improve switching capability and availability, upgrade unreliable components and replace obsolete parts and items no longer in production.

PUC GE002 - Incorporation of New Switching Technologies/MK 443/MK 70: Incorporation of new switching technologies and techniques that are to be applied to Command and Control & Interior Communications Switchboards and switching control devices. This line will also be used in the procurement of devices, such as the MK 443 touch screen microprocessor based Computer Switching Control Panel (CSCP). It will be used to address NAVSEA affordability issues, and expansion in the use of commerical-off-the-shelf (COTS) non-developmental item (NDI) and a decrease in life cycle costs.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY** **BA-1 SHIPS SUPPORT EQUIPMENT**	P-1 ITEM NOMENCLATURE **COMMAND AND CONTROL SWITCHBOARDS 81GE**	**BLI: 092500**

PUC GE003 - Design, TM & MODs: This line covers the non-recurring costs to modify an existing or prepare a new design drawing and spec package to implement the switching scheme necessary for a ship's switchboard to properly integrate all elements of the Combat System. The design package is used to procure hardware modification kits (ORDALTs or Field Changes) and contains one or more of the following:
- Build-to-print drawings used in the manufacturing of hardware items.
- Installation control drawings.
- System test procedures.
- Technical/tactical operation manuals.

Additionally, design engineering and kit development for unauthorized modifications to switchboard equipment will be covered under this line and will follow the criteria mentioned above to produce a drawing and spec package necessary to document the unauthorized change. The non-recurring costs associated with the design and production of the Microprocessor CSCP is not covered here but rather in PUC GE002.

PUC GE022 - Distributed Command & Control Switching System (DC^2S^2): This program supports material procurement of engineering solutions developed to infuse switchboards with state of the industry switching technology to overcome the limitations incurred by using using and the high cost associated with making changes to the electromechanical switching technology currently deployed. This effort will also ship's force to interrogate switching status and to change the switching configuration via LAN connections. System self diagnostics and fault isolation will decrease switchboard trouble shooting and repair time increasing system availability.

PUC GE004, GE005, GE006, GE066, GE067, GE068, GE069: Provides for new switching requirements mandated in SHIPALTS, ORDALTS, and/or Warfare Improvement Plan (WIP) Warfare Improvement Program Execution (WIPE) documents. Procure conjunctive switchboard ORDALTs. Engineering changes and field changes for various combat system element upgrades including ACDS, BFTT, CEC , RAIDS, RAM, SSDS, SPQ-9(B), SLQ 32 upgrade, EHF SATCOM, JTCS-A JOTS II, RADDS, enhanced OBT, C2P/JTIDS, INMARSAT, LAMPS MK III, DDI, NAVSSI, NULKA, NSSMS, NTCS-A/EPROM, AIEWS and UYK 42 Upgrades. Additionally , this line allows for the procurement of ORDALTs resulting from engineering change proposals to fix equipment modified through unauthorized and/or undocumented switchboard modifications.

PUC GE099 - Interior Communication (IC) Switchboards: This program supports engineering development efforts and material procurement to support - Safety, War Fighting Improvements, and Life Cycle Cost Reduction and other efforts that require new or modified interfaces with IC Switchboards on all United States Surface Ships.

PUC GE830 - Production Engineering: Provide quality assurance oversight and burn-in testing of production switchboards and switching equipment. Monitor contractor compliance of manufacturing to as built drawings and delivery schedules.

PUC GE900 - Shipboard Air Traffic Control Communications (SATCC): Supports material procurement of engineering solutions to provide reliable, on-demand voice communication switching capability to safely control high-tempo flight operations on large deck platforms. This effort provides common integrated voice terminals for Air Traffice Control (ATC), Landing Signal Officer (LSO) and Primary Platforms and provides digital technology to interface with Digital Swtich Voice System (DSVS) / Integrated Voice Network (IVN). SATCC replaces obsolete equipment (OJ-314) on CV/CVN.

PUC GE925 -SATCC Production Engineering: Provide engineering efforts and technical support to upgrade LSO Terminals and support Prifly Terminal integration.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BA-1 SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARDS 81GE	BLI: 092500

PUC GE950 - This program supports material procurement of engineering solutions developed as part of the LHA Mid-life maintenance upgrade program and material procurement of the Integrated Voice Network System for the Command and Control Ship program. The LHA Mid Life program is a joint OPNAV, CINCLANTFLT, SURFLANT, CINCPACFLT, and SURFPAC initiative to resolve maintenance deficiencies, increase readiness, and reduce future maintenance costs enabling the ships to reach their service life. For the Command and Control Ship program the IVN/ISDN system provides replacement of current unsupportable, labor intensive shipboard tactical interior communication systems. IVN/ISDN provides increased video, voice and data communications capability, and decreases the number of hand sets and terminals in confined operational spaces onboard the ship.

PUC GEINS - Outyear installation funding identified supports installation of ORDALTs/enhancements/upgrades for command and control switchboards and new switchboards installed via ship alterations (SHIPALTs). This program also supports installation of engineering solutions developed as part of the LHA Mid-life maintenance, and Command and Control Ships Integrated Voice Network, upgraded programs. This is accomplished by integrating with IT-21 Network Architect; post Y2K features and system upgrades are possible due to COTS application.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **Command and Control Switchboards LI: 092500 81GE**	

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
	N75														
GE067	LHA, LCC, LHD ORDALTs/Field Changes	A				230			242			244			
GE950	Integrated Voice Network (IVN) System	A		1	3,337	3,337			0			0			
	N75 Subtotal					**3,567**			**242**			**244**			
	N76														
GE001	RMA	A				50			50			50			
GE002	MK 443/MK 70/ICNET	A				0			0			0			
GE003	C & C SWBDs Design, TM & MODs	A				1,210			1,166			1,155			
GE004	DDG 993 ORDALTs/Field Changes	A				0			0			0			
GE005	CG 47/DDG 51 ORDALTs/Field Changes	A				440			410			350			
GE006	DD 963 SWBDs, ORDALTs/Field Changes	A				90			135			139			
GE022	DC2S2	A				520			820			1,200			
GE066	CGN ORDALTs /Field Changes	A				0			0			0			
GE068	FFG SWBDs, ORDALTs/Field Changes	A				25			25			25			
GE099	IC Switchboards	A				545			375			250			
GE830	Production Engineering	A				75			75			75			
GE950	Integrated Voice Network (IVN) System	A		2	2,214	4,428			0			0			
	N76 Subtotal					**7,383**			**3,056**			**3,244**			
	N78														
GE069	CV/CVN ORDALTs/Field Changes	A				90			201			293			
GE900	SATCC	A		2*	1,050	2,100	4*	1,118	4,472	2	1,126	2,252			
GE925	SATCC Production Engineering	A				150			389			1,125			
	N78 Subtotal					**2,340**			**5,062**			**3,670**			
GEINS	Installation N75					1,471			1,053			0			
GEINS	Installation N76					2,287			0			0			
GEINS	Installation N78					0			976			1,486			
GEINS	Installation N78 (NON FMP)					0			0			495			
	Install Subtotal					**3,758**			**2,029**			**1,981**			
	GRAND TOTAL					**17,048**			**10,389**			**9,139**			

*FY00/FY01 funding swap executed via BTR to move 2.250M into FY00 81GE for acceleration of two SATCC unit procurements to ensure on-time delivery of systems to meet CVN68 and CVN72 FY01 installation schedules. FY01 was reduced by 2 units at 2.250M to payback the FY00 source P1. FY00 portion of BTR reflected in control track under Issue 68363; FY01 portion of BTR has not been updated in the controls .

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE June 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy OPN BA-1: SHIPS SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE COMMAND AND CONTROL SWITCHBOARDS	SUBHEAD 81GE

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2000										
GE950 IVN	3	2588	SSC CHARLESTON	TSR - 11/98	GSA/FFP	LUCENT TECHNOLOGIES	3/00	8/00	YES	
GE900 SATCC	2	1050	SSC DET NORFOLK	6/97	FFP	LITTON DATA SYSTEMS GAITHERSBURG, MD	9/00	5/01	YES	
FY 2001										
GE900 SATCC	4*	1118	SSC DET NORFOLK	6/97	FFP	LITTON DATA SYSTEMS GAITHERSBURG, MD	5/01	01/02	YES	
FY 2002										
GE900 SATCC	2	1126	SSC DET NORFOLK	6/97	FFP	LITTON DATA SYSTEMS GAITHERSBURG, MD	12/01	8/02	YES	

D. REMARKS

* Control track does not reflect FY01 portion of the FY00/FY01 BTR swap which decreased SATCC by 2 units/2.250M. Only two systems will actually be procured in FY01. FY00 increase of 2 units/2.250M was updated in the controls.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SATCC FOR CV/CVNS TYPE MODIFICATION: ECP 1392 MODIFICATION TITLE: GE900

DESCRIPTION/JUSTIFICATION:

SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC) FOR LARGE DECK PLATFORMS

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																					0	0.0
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT			2	2100.0	4*	4472.0	2	2252.0													8	8824.0
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS				150.0		389.0		1125.0													0	1664.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER																					0	0.0
OTHER																					0	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
INSTALL COST					2	976.0	4	1981.0													8	2957.0
TOTAL PROCUREMENT	0	0.0	0	2250.0	0	5837.0	0	5358.0			0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	13445.0

*Only two units to be procured in FY01. BTR to reduce FY01 by 2/2.250M not reflected in Controls.

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

MODELS OF SYSTEMS AFFECTED: SATCC FOR CV/CVNS MODIFICATION TITLE: GE900

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: 8 months
CONTRACT DATES: FY 2000: Sep-00 FY 2001: May-01 FY 2002: Dec-01
DELIVERY DATE: FY 2000: May-01 FY 2001: Jan-02 FY 2002: Aug-02

($ in Millions)

Cost:	FY 2000 & Prior		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	$
PRIOR YEARS																			0	0.0
FY 1998 EQUIPMENT																			0	0.0
FY 1999 EQUIPMENT																			0	0.0
FY 2000 EQUIPMENT			2	976.0															2	976.0
FY 2001 EQUIPMENT					2	990.0													2	990.0
FY 2002 EQUIPMENT					2*	991.0													2	991.0
FY 2003 EQUIPMENT																			0	0.0
FY 2004 EQUIPMENT																			0	0.0
FY 2005 EQUIPMENT																			0	0.0
TO COMPLETE																				

* FY02 Includes $495K of non-FMP dollars for one Trainer unit.

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	0	0	0	1	1	0	2	0	2	0	0																			2	8
Out	0	0	0	1	1	0	1	1	2	0	0																			2	8

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: IVN/ISDN for LHA 1-5, AGF 3; LCC 20 TYPE MODIFICATION: SHIPALT 900K MODIFICATION TITLE: GE950

DESCRIPTION/JUSTIFICATION:

LHA INTEGRATED VOICE NETWORK(IVN) FOR THE LHA MIDLIFE UPGRADE AND INTEGRATED VOICE NETWORK SYSTEM FOR THE COMMAND AND CONTROL SHIP PROGRAM (AGF3 AND LCC20)

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																					0	0.0
INSTALLATION KITS NONRECURRING																					0	0.0
EQUIPMENT	4	11379.0	3	7765.0															2	4400.0	9	23544.0
EQUIPMENT NONRECURRING																					0	0.0
ENGINEERING CHANGE ORDERS																					0	0.0
DATA																					0	0.0
TRAINING EQUIPMENT																					0	0.0
SUPPORT EQUIPMENT																					0	0.0
OTHER																					0	0.0
OTHER																					0	0.0
OTHER																					0	0.0
INTERIM CONTRACTOR SUPPORT																					0	0.0
INSTALL COST	2	2683.0	3	3758.0	2	1053.0													2	2400.0	9	9894.0
TOTAL PROCUREMENT	4	14062.0	3	11523.0	0	1053.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	6800.0	9	33438.0

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

MODELS OF SYSTEMS AFFECTED: IVN/ISDN for LHA 1-5 AGF3; LCC 20 MODIFICATION TITLE: GE950

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT 5 month (LCC/AGF Class)

ADMINISTRATIVE LEADTIME: N/A PRODUCTION LEADTIME: 5 month (LHA 1 Class)

CONTRACT DATES: FY 2000: Mar-00 FY 2001: FY 2002:

DELIVERY DATE: FY 2000: Aug-00 FY 2001: FY 2002:

($ in Millions)

Cost:	Prior Years		FY 2000 & Prior		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			1	940.0																	1	940.0
FY 1998 EQUIPMENT			1	1213.0																	1	1213.0
FY 1999 EQUIPMENT			1	1624.0	1	519.0															2	2143.0
FY 2000 EQUIPMENT			2	2664.0	1	534.0															3	3198.0
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
TO COMPLETE																			2	2400.00	2	2400.0

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9
Out	4	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT**							P-1 ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF					
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)			**$103.7**	**$47.4**	**$66.9**							**CONT.**
SPARES COST (In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION:

POLLUTION CONTROL SYSTEMS/EQUIPMENT: This item provides funds for the procurement of pollution control systems and equipment that are required by Navy ships in order for them to comply with international regulations, federal laws, DOD Directives and Navy environment protection regulations. These regulations, laws and directives restrict the discharge of oily wastes, sewage, solid waste, plastic waste, medical waste and hazardous waste. Most of these applicable regulations require Navy ships to comply by fixed deadline dates. Failure to comply carries potential personal, civil, and criminal liability, and significantly imposes constraints on the operational capabilities of Navy ships. In some instances, the compliance schedule has required an acceleration of the normal schedules in the procurement process.

HF005 - OIL WATER SEPARATORS (OWS) AND OIL CONTENT MONITORS (OCM): This program procures and installs OWSs and OCMs on board surface ships which remove oil and oily waste from bilge water before it is discharged overboard. 10NP OWSs are installed on surface combatants and smaller ships, C-100 OWSs are installed on larger amphibs and carriers. The Clean Water Act requires vessels to discharge bilge water that leaves no sheen. DOD Directive 6050.15 and OPNAVINST 5090.1 require vessels to discharge bilge water with less than 15 ppm oil. The program started in FY 85 and is expected to end in FY02. Inventory Objective is 196 for 10NPs, 26 for C-100s and 146 for OCMs. Total program cost is estimated at $70M.

HF019 - SEWAGE PUMPS (200 gpm): This program procures and installs pumps, piping and collection capability to collect gray water (plumbing waste from showers, laundry, space deck drains, sinks, scullery, etc.) and discharge it to pierside sewage facilities on LHA-1 class ships. Numerous state and federal authorities, and some foreign ports have levied restrictions on the overboard discharge of gray water on US Navy ships. The program started in FY 97 and is expected to end in FY 01. Inventory Objective is 10. Total program cost is estimated at $20M.

HF024 - CFC CONVERSION PROGRAM - The production of CFC-based refrigerants (including CFC-12, and CFC-114) was prohibited after 31 DEC 95 by the Clean Air Act of 1990. Presidential Executive Order 12843 of 21 APR 93 calls for federal agencies to "maximize the use of safe alternatives to ozone-depleting substances". OPNAVINST 5909.1B dated 1 NOV 94 further requires the "reduction of the use and emission of (ozone-depleting substances) to the lowest achievable level". The Navy is currently dependent on CFC-based refrigerants for the mission-critical cooling of (1) vital electronics and weapon systems, (2) food and medical stowage, and (3) inhabited spaces aboard surface ships and submarines. To counter the immediate threat of production cessation on uninterrupted Fleet operations, DoD directed the Defense Logistics Agency to establish a stockpile of CFC-based refrigerants. The stockpile was sized to support Fleet operations until the test CFC based systems are retired or converted to ozone-friendly refrigerants. This program procures and installs conversion kits on existing CFC-12 A/C, CFC-12 Refrigeration and CFC-114 A/C plants onboard surface ships and submarines. The CFC-12 conversion programs began in FY 94 and are expected to complete FY 05. The CFC-114 conversion program began in FY 99 and is expected to complete in FY 13. Inventory Objective for CFC-12 A/C is 290, for CFC-12 Reefer is 612 and for CFC-114 is 484. Total program cost is estimated at $400M.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF

HF025 - METAL GLASS SHREDDER (MGS), LARGE PULPER (LP) AND SMALL PULPERS (SP) - This program procures and installs pulpers and shredders on surface ships to reliably process shipboard non-plastic solid waste. The pulpers are designed to pulp paper, cardboard and food waste into environmentallybenign slurry, which is discharged overboard. The MGS is designed to shred metal and glass waste into sinkable form which is discharged overboard. The FY97 National Defense Authorization Act allows for the use of pulpers and shredders to achieve compliance with MARPOL special area discharge regulations and requires full surface ship compliance by 31 December 2000. The pulper and shredder programs began in late FY98 and are expected to complete in early FY01. Inventory Objective for MGS is 164 units, for LP is 138 and SP is 42. Total program cost is estimated at $250M.

HF027 FOOD GRINDER/PULPER: This program procures and installs a dedicated food grinder/pulper and sink in the SSN 688 Class galley/scullery. The food grinder/pulper will eliminate the use of plastic wet bags for grindable food wastes, improve the quality of life by alleviating handling and stowage of grindable food waste, and provide operational enhancements by reducing Trash Disposal Unit (TDU) operations. The FY97 Defense Authorization Act allows for the use of pulpers to achieve compliance with MARPOL special area discharge regulations. The food grinder/pulper program began in FY 00 and is expected to end in FY 03. Inventory objective is 41. Total program cost is estimated at $5M.

HF028 POLLUTION PREVENTION AFLOAT: This program procures and installs pollution prevention equipment which will produce immediate life cycle cost savings to the Fleet through reduction in the quantity of hazardous material used aboard ship, offloaded, and subsequently disposed of by shore activities as hazardous waste. The reduction of used/excess hazardous material offloads will also assist shore activities in meeting pollution prevention and community right-to-know requirements under Executive Order 12856. Installation of these suites of equipment began in FY 00 and is expected to end in FY 05. Inventory objective is 155. Total program cost is estimated at $30M.

HF029 ADVANCED INCINERATORS- This system will be installed on large surface ships (CV(N), LHA, LHD, LSD, AS, LCC classes) to reliably process shipboard waste items, which cannot be processed in either the Metal Glass Shredders or Pulpers, such as waxed cardboard and oily rags. The system will use a Commercial-Off-The-Shelf (COTS) incinerator which will be certified to meet MARPOL, Annex VI air emissions discharge regulations. The program is expected to start in FY02 and end in FY09. Inventory Objective is 35, total program cost is estimated at $45M.

HF830 - PRODUCTION ENGINEERING - The review and approval of any production contact technical document, or the separate development of this documentation to include Technical Manuals, PMS, Level III production drawings, Provisional Technical Documentation (PTD), Program Support Data (SPD), and Allowance Parts Lists (APL); Engineering and support of final design reviews.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF

SHORE BASED POLLUTION EQUIPMENT

The Shorebased funds provide for equipment required to clean up Navy oil spills on the open sea as required by the Federal Waste Pollution Control Act - Public Law 92-500. The law created a National Oil and Hazardous Substance Pollution Contingency Plan, and designates the Department of Defense as one of the primary agencies responsible for promotion of effective operation of the plan. OPNAVINST 5090.1A and NAVSEAINST 4740.8A assign the Supervisor of Salvage the responsibility to provide technical expertise, resources, and equipment for cleaning Navy-originatedspills of oil and other hazardous material in coastal waters or the open sea. Major items of procurement are:

HF033 Oil Storage Bladders: These are large, 136 to 280 gallon, bouyant, flexible rubber cylinders which serve as interim containers/gravityseparators for recovered oil and emulsion pending arrival of the often difficult to obtain tank barges. Required I/O is 30.

HF038 Fender Systems: Fender are large energy aborbing cushions placed between two vessles to prevent related motions damage. There are 4 fenders per system. Required I/O is 22 systems.

HF040 Support Systems: These systems include those auxiliary systems required to keep the oil spill responders operating in the field. These systems include equipment required for command and control, communication, supply, personnel transfer craft, GPS asset tracking, repair, supply, offloading, deployment, demobilization, and other ancillary requirements of a spill response. Required I/O is 82.

HF042 Boom Tending Boats (Inflatable): Outboard powered inflatable boats 19' and 23' in length capable of operating in a wide variety of weather and sea conditions. These inflatable boats are better suited to open ocean operations than the rigid boats due to increased portability and operator safety. The boats are used for inspection and in-place maintenance of the moored boom systems and to provide for personnel and cargo transport throughout a spill response operations area. Required I/O is 22.

HF051 Oil Boom Systems: These systems consist of 2,000' of inflatable oil boom, or 750' of fireboom with protective hardware including all associated equipment required to store, inflate, deploy, recover, and repair the boom. Inflatable boom systems also include 150' of shoreline transition boom to cross the beach/breaker area. The systems are packaged in 8' x 8' x 20' shipping containers. Required I/O is 52.

HF054 Beach Transfer Systems: These systems consist of an all-terrain tractor with trailer and two all-terrain vehicles with support equipment packaged in an 8' x 8' x 20' shipping container. The system transports equipment and materials to otherwise inaccessible soft beach and mud areas of a spill response. Required I/O is 8.

HF055 Salvage Skimmer Systems: These systems are a collection of small, special-purpose skimmers, containment boom, shoreline transition boom, transfer pumps, storage tanks, sorbents, and ancillary equipment intended as a stand-alone response package for small, salvage-relatedspills inside and adjacent to ships or inland locations, or special remote tankers offloading locations. Required I/O is 21.

HF056 Equipment Clean-up Systems: These systems provide for the extensivecleaning of equipment prior to demobilizationat a response site. The system provides a full array of all tools and materials required for efficient cleaning and demobilization of response assets. Required I/O is 8.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF

HF057 Logistics Support Systems: Logistics Support Systems are used to assist in disposal of removed oil and debris. These systems include: vacuum systems, floating hose systems, oil bladder transfer systems, debris handling systems, bladder systems, incinerator systems, oil/water separator systems, steam generator systems, and material transfer systems. Required I/O is 69.

HF058 Arctic Oil Recovery Systems: This system is designed to recover oil in an arctic environment where specific weather conditions render normal skimmer recovery methods useless. Required I/O is 6.

HF059 Boom Mooring Systems (Deep Water Extension): This system is used to extend the depth in which the existing boom mooring systems can be used from 200' to 600' allowing use of diversionary boom in deep water applications. Required I/O is 64.

HF060 Hot Tap Systems: Designed to allow penetration into tanks below the waterline. The hot tap is a system that secures a device to the hull, cuts through shell plating and allows installation of a valve to permit pumping. Two types are required Diver Deployable for shallow work and ROV Deployable for deployment at depth. This allows lightering or removal of oil from a vessel without tank access above the waterline. Required I/O is 10.

HF061 Viscous Oil Transfer Systems: Oil that weathers, emulsifies, or mixes with other contaminants will become thick and viscous to the point that regular centrifugal pumping systems will not move the oil. The viscous oil pumping system is a different type of pump with peripherals to allow the pumping of this type of oil. Required I/O is 28.

HF062 Submersible 6" Hydraulic Pumping Systems: This system allows the lightening of oil from tanks aboard ships whose transfer systems are inoperative. The size of the pump allows for insertion the tanks from topside access hatches. Required I/O is 33.

HF063 Vessel of Opportunity (VOSS) Skimming Systems: The VOSS is a skimming system which can be used aboard any vessel with enough deck space to support the operating equipment. It allows skimming capability in locations where traditional skimmers may not be practicable, such as offshore or in extremely inclement weather. It may be a belt, disk, wire or rope mop type skimmer. Required I/O is 16.

HF064 Modular Barge Systems: This system creates a temporary storage capability for recovered oil. Oil can be transferred from skimmers as well as oil bladders to further transfer to shoreside facilities or large tank barge. Oil can also be transferred between oil bladders. The systems also allows for deck spaces upon which to set up other support systems or barge sections to incorporate future su systems. Required I/O is 4.

HF065 Boarding Kits: This is designed to be placed aboard a vessel with no power or support services for personnel. It contains all the equipment necessary to support a team of salvors and pollution response personnel while working aboard a "dead" tanker. Required I/O is 10.

CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: SHIPS SUPPORT EQUIPMENT	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF	

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
	N85 EXPEDITIONARY WARFARE														
HF024	CFC-12 (R-12) AC CONVERSION	A					9	36.4	328						
HF024	CFC-12 (R-12) REEFER CONVERSION	A					3	48.3	145	12	33.9	407			
HF024	CFC-114 (R-114) AC CONVERSION	A					17	343.0	5,831	24	314.5	7,547			
HF029	ADVANCED INCINERATORS	A								4	500.0	2,000			
HF830	PRODUCTION ENGINEERING	A							737			1,273			
	SUBTOTAL N85					0			7,041			11,227			
	N86 SURFACE WARFARE														
HF024	CFC-12 (R-12) AC CONVERSION	A													
HF024	CFC-12 (R-12) REEFER CONVERSION	A					4	36.5	146						
HF024	CFC-114 (R-114) AC CONVERSION	A		10	286.8	2,868	16	304.6	4,873	15	332.9	4,994			
HF025	METAL GLASS SHREDDERS	A		7	67	469									
	LARGE PULPERS	A		2	119	238									
	SMALL PULPERS	A		5	91	455									
HF029	ADVANCED INCINERATORS	A								1	500	500			
HF830	PRODUCTION ENGINEERING	A				701			702			792			
	SUBTOTAL N86					4,731			5,721			6,286			
	N87 SUBMARINE WARFARE														
HF024	CFC-12 (R-12) REEFER CONVERSION	A					48	36.5	1,752	18	37	666			
HF024	CFC-114 (R-114) AC CONVERSION	A					3	281.3	844	3	286	858			
HF027	FOOD GRINDER PULPER	A					18	5.0	90	8	5	40			
HF830	PRODUCTION ENGINEERING	A							122			136			
	SUBTOTAL N87					0			2,808			1,700			
						4,731			15,570			19,213			

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: MAY 2001
APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD: Pollution Control Equipment	

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
	B. SHOREBASED - (N452)														
HF033	Oil Storage Bladder	A													
HF038	Fender Systems	A								1	292	292			
HF040	Support Systems	A		2	90	180	3	92	276	2	94	188			
HF042	Boom Tend Boats (Inflatable)	A					1	98	98						
HF051	Oil Boom Systems	A		5	222.4	1,112	5	248	1,240	4	252	1,008			
HF054	Beach Transfer Systems	A								2	71	142			
HF055	Salvage Skimmer Systems	A		2	106	212									
HF056	Equipment Clean-up Systems	A					1	97	97						
HF057	Logistics Support Systems	A		2	178	356	3	182	546	3	185	555			
HF058	Arctic Oil Recovery systems	A		1	375	375									
HF059	Boom Mooring Systems	A					2	11	22	3	12	36			
HF060	Hot Tap Systems	A													
HF061	Viscous Oil Transfer Systems	A		3	106	318	1	107	107	1	112	112			
HF062	Submersible 6" Hyd Pump Sys	A		2	76	152	1	77	77						
HF063	VOSS Skimmer Systems	A								2	307	614			
HF064	Modular Barge Systems	A													
HF065	Boarding Kits	A					2	47	94						
			0			2,705			2,557			2,947			

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: SHIPS SUPPORT EQUIPMENT	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF

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
	N88 AIR WARFARE														
HF024	CFC-12 (R-12) REEFER CONVERSION	A								5	64	318			
HF024	CFC-114 (R-114) AC CONVERSION	A					17	329.5	5,602	28	352	9,862			
HF029	ADVANCED INCINERATORS	A													
HF830	PRODUCTION ENGINEERING	A							808			1,563			
	SUBTOTAL N88					0			6,410			11,743			
	N422 AUXILIARIES														
HF024	CFC-114 (R-114) AC CONVERSION	A								4	286	1,144			
HF830	PRODUCTION ENGINEERING	A										181			
	SUBTOTAL N422					0			0			1,325			
	N452 ENVIRONMENTAL COMPLIANCE														
HF028	PREVENTION AFLOAT	A		20	113.5	2,270	29	82.7	2,399	33	66	2178			
HF830	PRODUCTION ENGINEERING	A				330			484			417			
	SUBTOTAL N452 03L					2,600			2,883			2,595			
						2,600			9,293			15,663			

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: SHIPS SUPPORT EQUIPMENT	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD POLLUTION CONTROL EQUIPMENT BLI: 093500 81HF

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
	GRAND TOTAL EQUIPMENT					10,036			27,420			37,823			
	INSTALL														
	N85					26,894			6,734			6,441			
	N86					46,346			3,118			4,567			
	N87					3,480			5,457			3,455			
	N88					11,662			2,017			12,200			
	N422					3,268			0			98			
	N45					2,031			2,621			2,374			
	GRAND TOTAL INSTALL					93,681			19,947			29,135			
						103,717			47,367			66,958			

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		June 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA 1: SHIPS SUPPORT EQUIPMENT	POLLUTION CONTROL EQUIPMENT BLI: (0935)	81HF

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 00										
(HF024)										
CFC 114 AC CONV (1)	10	286.8	NAVSEA		FFP	YORK INTL, PA	DEC 99	JUL 00	YES	
(HF028)										
POLLUTION PREVENTION AFLOAT(1)	20	113.5	NAVSEA		RCP	NAWC LAKEHURST, NJ	APR 00	JUL 00	YES	
(HF025)										
LARGE PULPER	2	119	NAVSEA		RCP	NAVAL RESEARCH LAB	APR 00	JUL 00	YES	
SMALL PULPER	5	91	NAVSEA		RCP	NAVAL RESEARCH LAB	APR 00	JUL 00	YES	
MGS	7	67	NAVSEA		RCP	NAVAL RESEARCH LAB	APR 00	JUL 00	YES	
FY 01										
(HF024)										
CFC 12 REEFER CONV (1)	55	36.5	NSWC PHILA, PA		RCP	NSWC PHILA, PA	DEC 00	FEB 01	YES	
CFC 114 AC CONV (1)	53	323.6	NAVSEA		FFP	YORK INT'L, PA	DEC 00	JUL 01	YES	
CFC 12 A/C (1)	9	36.4	NSWC PHILA, PA		RCP	NSWC PHILA, PA	DEC 00	FEB 01	YES	
(HF027)										
FOOD GRINDER/PULPER	18	5.0	NAVSEA		FFP	UNKNOWN	DEC 00	MAR 01	YES	
(HF028)										
POLLUTION PREVENTION AFLOAT (1)	29	82.7	NAVSEA		RCP	NAWC LAKEHURST, NJ	NOV 00	FEB 01	YES	

D. REMARKS

(1) UNIT PRICE OF CONVERSION KITS VARIES WITH SHIP CLASS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE June 2001
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy	C. P-1 ITEM NOMENCLATURE: Pollution Control Equipment BLI: 093500	SUBHEAD: 81HF

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)										
HF040 Support Systems	2	90	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	09/00	YES	
HF051 Oil Boom Systems	5	222.4	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	08/00	YES	
HF055 Salv Skimmer Sys	2	106	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	10/00	YES	
HF057 Logistics Spt Sys	2	178	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	09/00	YES	
HF058 Artic Oil Rcvy Sys	1	375	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	03/00	YES	
HF061 Viscous Oil Trans Sys	3	106	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	08/00	YES	
HF062 Sub 6" Hyd Pump Sys	2	76	NAVSEA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	09/00	YES	
FISCAL YEAR (01)										
HF040 Support Systems	3	92	NAVSEA	Unknown	C/CPAF	Unknown	02/01	09/01	YES	
HF042 Boom Tend Boats (In)	1	98	NAVSEA	Unknown	C/CPAF	Unknown	02/01	08/01	YES	
HF051 Oil Boom Systems	5	248	NAVSEA	Unknown	C/CPAF	Unknown	02/01	08/01	YES	
HF056 Equip Cln-up Sys	1	97	NAVSEA	Unknown	C/CPAF	Unknown	02/01	01/02	YES	
HF057 Logistics Spt Sys	3	182	NAVSEA	Unknown	C/CPAF	Unknown	02/01	09/01	YES	
HF059 Boom Mooring Sys	2	11	NAVSEA	Unknown	C/CPAF	Unknown	02/01	04/01	YES	
HF061 Viscous Oil Trans Sys	1	107	NAVSEA	Unknown	C/CPAF	Unknown	02/01	08/01	YES	
HF062 Sub 6" Hyd Pump Sys	1	77	NAVSEA	Unknown	C/CPAF	Unknown	02/01	09/01	YES	
HF065 Boarding Kits	2	47	NAVSEA	Unknown	C/CPAF	Unknown	02/01	07/01	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A	Weapon System	A. DATE June 2001	
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 1: SHIPS SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE POLLUTION CONTROL EQUIPMENT BLI: (0935)		SUBHEAD 81HF

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 02										
(HF024)										
CFC REEFER CONV (1)	35	39.7	NSWC PHILA, PA		RCP	NSWC PHILA	DEC 01	FEB 02	YES	
CFC 114 AC CONV (1)	74	334	NAVSEA		FFP	YORK INT'L	DEC 01	JUL 02	YES	
(HF027)										
FOOD GRINDER PULPER	8	5	NAVSEA		FFP	UNKNOWN	DEC 01	MAR 02	YES	
(HF028)										
POLLUTION PREVENTION AFLOAT(1)	33	66	NAVSEA		RCP	NAWC LAKEHURST, N.J.	NOV 01	FEB 02	YES	
(HF029)										
ADVANCED INCINERATOR	5	500	NAVSEA		FFP	UNKNOWN	JAN 02	SEP 02	N0	

D. REMARKS

(1) UNIT PRICE OF CONVERSION KITS VARIES WITH SHIP CLASS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE MAY 2001
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy	C. P-1 ITEM NOMENCLATURE: Pollution Control Equipment BLI: 093500	SUBHEAD: 81HF

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 (02)										
HF038 Fender Systems	1	292	NAVSEA	Unknown	C/CPAF	Unknown	02/02	01/03	YES	
HF040 Support Systems	2	94	NAVSEA	Unknown	C/CPAF	Unknown	02/02	09/02	YES	
HF051 Oil Boom Systems	4	252	NAVSEA	Unknown	C/CPAF	Unknown	02/02	08/02	YES	
HF054 Beach Transfer Sys	2	71	NAVSEA	Unknown	C/CPAF	Unknown	02/02	07/02	YES	
HF057 Logistics Spt Sys	3	185	NAVSEA	Unknown	C/CPAF	Unknown	02/02	09/02	YES	
HF059 Boom Mooring Sys	3	12	NAVSEA	Unknown	C/CPAF	Unknown	02/02	04/02	YES	
HF061 Viscous Oil Trans Sys	1	112	NAVSEA	Unknown	C/CPAF	Unknown	02/02	08/02	YES	
HF063 VOSS Skimmer Sys	2	307	NAVSEA	Unknown	C/CPAF	Unknown	02/02	11/02	YES	

D. REMARKS

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: C100 OIL/WATER SEPARATOR TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Removes Oil from Oily Bilge Water to meet discharge regulations.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	27	0.8																			27	0.8
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	20	23.3	2	1.5	2	1.5	2	3.9													26	30.2
TOTAL PROCUREMENT		24.1		1.5		1.5		3.9														31.0

* 1 UNIT CONTRACTED PRIOR TO DECOMMISSIONING DECISION

P3A (Continued) INDIVIDUAL MODIFICATION (Continued

MODELS OF SYSTEMS AFFECTED: C100 OIL WATER SEPARATOR MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT SHIPYARD
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME:
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	20	23.3	2	1.5	2	1.5	2	3.9													26	30.2
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 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	22	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA
Out	22	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: 10NP OIL WATER SEPARATOR TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

REMOVES OIL FROM OILY BILGE WATER TO MEET DISCHARGE REGULATIONS.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	211	8.6																			211	8.6
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	194	18.8	2	0.8																	196	19.6
TOTAL PROCUREMENT		27.4		0.8																		28.2

15 UNITS CONTRACTED PRIOR TO DECOMMISSIONING DECISIONS

P3A (Continued) INDIVIDUAL MODIFICATION (Continued

MODELS OF SYSTEMS AFFECTED: 10NP OIL WATER SEPARATOR MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION:
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME:
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ in Millions)

Cost:	1999 &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	194	18.8	2	0.8																	196	19.6
FY 2000 EQUIPMENT																						
FY 2001 EQUIPMENT																						
FY 2002 EQUIPMENT																						
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196
Out	196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	196

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: OIL CONTENT MONITOR TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Monitor Oil Content of Oil/Water Separator Efliuent

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	153	0.8																			153	0.8
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	121	8.4	18	1.7			7	0.7													146	10.8
TOTAL PROCUREMENT		9.2		1.7				0.7														11.6

* 7 UNITS CONTRACTED PRIOR TO DECOMMISSIONING DECISIONS

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: Oil Content Monitor MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT/SHIPYARD
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME:
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	121	8.4	18	1.7			7	0.7													146	10.8
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 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	139	0	0	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Out	139	0	0	0	0	0	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: SEWAGE PUMP/GREYWATER (200 GPM) TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION

Collect Greywater Waste from showers, laundry and discharge it to pierside sewage facilities.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	10	1.1																			10	1.1
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	6	9.0	2	6.0	2	3.0															10	18.0
TOTAL PROCUREMENT		10.1		6.0		3.0																19.1

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: SEWAGE PUMP MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT
GREYWATER (200 gpm)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION:
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME:
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	6	9.0	2	6.0	2	3.0															10	18.0
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 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Out	8	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: CFC-114 AC UNIT CONVERSION TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Modifies CFC-114 AC Units

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	36	9.7	10	2.9	53	17.1	74	24.4	60	19.0	51	17.0	33	10.0	26	8.7	29	10.3	112	41.3	484	160.4
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	20	10.6	18	6.4	8	5.2	53	17.3	74	22.0	60	18.2	51	16.6	33	11.7	26	7.1	141	47.8	484	162.9
TOTAL PROCUREMENT		20.3		9.3		22.3		41.7		41.0		35.2		26.6		20.4		17.4		89.1		323.3

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: CFC-114 AC UNIT CONVERSION

MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYARD

ADMINISTRATIVE LEADTIME:

PRODUCTION LEADTIME: 9 Months

CONTRACT DATES: FY 2001: Dec-00 FY 2002: Dec-01 FY 2003: Dec-02

DELIVERY DATE: FY 2001: Jul-01 FY 2002: JUL 02 FY 2003: Jul-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	20	9.8	8	3.0	8	2.2															36	15.0
FY 2000 EQUIPMENT	AP	0.8	10	2.3																	10	3.1
FY 2001 EQUIPMENT			AP	1.1	AP	2.1	53	13.1													53	16.3
FY 2002 EQUIPMENT					AP	0.9	AP	2.1	74	17.1											74	20.1
FY 2003 EQUIPMENT							AP	2.1	AP	3.6	60	15.2									60	20.9
FY 2004 EQUIPMENT									AP	1.3	AP	1.7	51	14.4							51	17.4
FY 2005 EQUIPMENT											AP	1.3	AP	1.6	33	9.6					33	12.5
FY 2006 EQUIPMENT													AP	0.6	AP	1.4	26	5.3			26	7.3
FY 2007 EQUIPMENT															AP	0.7	AP	1.4	29	9.0	29	11.1
TO COMPLETE																	AP	0.4	112	38.8	112	39.2

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	38	0	3	0	5	19	30	0	4	13	18	6	37	3	29	14	14	22	21	8	0	0	17	16	0	4	18	0	4	141	484
Out	38	0	0	3	0	12	4	21	17	0	8	14	11	39	3	31	4	20	21	12	26	0	0	9	24	4	4	14	0	145	484

P3A

MODELS OF SYSTEM AFFECTED: CFC-12 AC CONVERSION TYPE MODIFICATION: _____ MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

MODIFIES CFC 12 AC UNITS

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 1999 & PRIOR		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		TC		TOTAL	
	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$	QTY	$
FINANCIAL PLAN (IN MILLIONS)																				
RDT&E																				
PROCUREMENT																				
INSTALLATION KITS																				
INSTALLATION KITS - UNIT COST																				
INSTALLATION KITS NONRECURRING																				
EQUIPMENT	269	10.1			9	0.3			12	0.3									290	10.7
EQUIPMENT NONRECURRING																				
ENGINEERING CHANGE ORDERS																				
DATA																				
TRAINING EQUIPMENT																				
SUPPORT EQUIPMENT																				
OTHER																				
OTHER																				
OTHER																				
INTERIM CONTRACTOR SUPPORT																				
INSTALL COST	258	10.4	6	0.6	6	0.4	4	0.3	16	0.8									290	12.5
TOTAL PROCUREMENT		20.5		0.6		0.7		0.3		1.1										23.2

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: CFC12 AC CONVERSION MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: Months
CONTRACT DATES: FY 2001: Dec-00 FY 2002: FY 2003: Dec-02
DELIVERY DATE: FY 2001: Feb-01 FY 2002: FY 2003: Feb-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	258	10.4	6	0.6	5	0.3															269	11.3
FY 2000 EQUIPMENT																						
FY 2001 EQUIPMENT					1	0.1	4	0.3	4	0.2											9	0.6
FY 2002 EQUIPMENT																						
FY 2003 EQUIPMENT									12	0.6											12	0.6
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																					290	12.5

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	264	0	6	0	0	0	4	0	0	0	6	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290
Out	264	0	0	6	0	0	0	4	0	0	0	6	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	290

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: CFC-12 REEFER CONVERSION TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

MODIFIES CFC 12 REFRIGERATION UNITS.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	408	10.1			55	2.0	35	1.4	70	2.8	14	0.6	9	0.4					21	0.8	612	18.1
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	372	16.3	36	1.9	50	3.2	31	2.0	79	4.7	14	0.8	9	0.6					21	1.3	612	30.8
TOTAL PROCUREMENT		26.4		1.9		5.2		3.4		7.5		1.4		1.0						2.1		48.9

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: CFC-12 REFER CONVERSION MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: Months
CONTRACT DATES: FY 2001: Dec-00 FY 2002: Dec-01 FY 2003: Dec-02
DELIVERY DATE: FY 2001: Feb-01 FY 2002: Feb-02 FY 2003: Feb-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	372	16.3	36	1.9																	408	18.2
FY 2000 EQUIPMENT																						
FY 2001 EQUIPMENT					50	3.2	5	0.4													55	3.6
FY 2002 EQUIPMENT							26	1.6	9	0.4											35	2.0
FY 2003 EQUIPMENT									70	4.3											70	4.3
FY 2004 EQUIPMENT											14	0.8									14	0.8
FY 2005 EQUIPMENT													9	0.6							9	0.6
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																			21	1.3	612	11.3

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	408	0	30	2	18	0	5	16	10	0	30	33	16	0	8	6	0	0	0	9	0	0	0	0	0	0	0	0	0	21	612
Out	390	18	0	30	2	18	0	5	16	10	0	27	33	19	0	8	6	0	0	0	9	0	0	0	0	0	0	0	0	21	612

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: LARGE SOLID WASTE PULPER TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

Process food, paper and cardboard for disposal overboard.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	136	14.4	2	0.2																	138	14.6
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	61	60.1	75	35.7	2	0.7															138	96.5
TOTAL PROCUREMENT		74.5		35.9		0.7																111.1

P3A (Continued) INDIVIDUAL MODIFICATION (Continued

MODELS OF SYSTEMS AFFECTED: LARGE SOLID WASTE PULPER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: 1 PRODUCTION LEADTIME:
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	61	60.1	75	35.4																	136	95.5
FY 2000 EQUIPMENT			AP	0.3	2	0.7															2	1.0
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 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	132	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Out	126	7	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: SMALL SOLID WASTE PULPER TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION

PROCESS FOOD, PAPER, AND CARDBOARD FOR DISPOSAL OVERBOARD.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	37	3.1	5	0.4																	42	3.5
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	16	9.8	25	7.1	1	0.3															42	17.2
TOTAL PROCUREMENT		12.9		7.5		0.3																20.7

P3A (Continued) INDIVIDUAL MODIFICATION (Continued

MODELS OF SYSTEMS AFFECTED: SMALL SOLID WASTE PULPER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: ' PRODUCTION LEADTIME:
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	16	9.8	21	5.6																	37	15.4
FY 2000 EQUIPMENT			4	1.5	1	0.3															5	1.8
FY 2001 EQUIPMENT																						
FY 2002 EQUIPMENT																						
FY 2003 EQUIPMENT																						
FY 2004 EQUIPMENT																						
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																					42	17.2

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	35	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Out	32	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: METAL GLASS SHREDDER TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

PROCESS METAL AND GLASS FOR DISPOSAL OVERBOARD.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT	157	9.4	7	0.5																	164	9.9
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	67	35.3	94	28.9	3	0.7															164	64.9
TOTAL PROCUREMENT		44.7		29.4		0.7																74.8

P3A (Continued) INDIVIDUAL MODIFICATION (Continued

MODELS OF SYSTEMS AFFECTED: METAL GLASS SHREDDER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 8 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	67	35.3	90	27.7																	157	63.0
FY 2000 EQUIPMENT			4	1.2	3	0.7															7	1.9
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 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	151	5	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164
Out	142	11	6	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: FOOD GRINDER/PULPER TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

PROCESS FOOD, PAPER AND CARDBOARD FOR DISPOSAL OVERBOARD.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			8	0.0	18	0.1	8	0.1	7	0.1											41	0.3
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST			8	1.1	18	2.3	8	1.0	7	0.9											41	5.3
TOTAL PROCUREMENT				1.1		2.4		1.1		1.0												5.6

P3A (Continued) INDIVIDUAL MODIFICATION (Continued

MODELS OF SYSTEMS AFFECTED: FOOD GRINDER/PULPER MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT SHIPYARD
ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 4 Months
CONTRACT DATES: FY 2001: Dec-00 FY 2002: Dec-01 FY 2003: Dec-02
DELIVERY DATE: FY 2001: Mar-01 FY 2002: Mar-02 FY 2003: Mar-03

($ in Millions)

Cost:	Prior Years		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005		To Complete		Total	
	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$
PRIOR YEARS																						
FY 2000 EQUIPMENT							8	1.1													8	1.1
FY 2001 EQUIPMENT									18	2.3											18	2.3
FY 2002 EQUIPMENT											8	1.0									8	1.0
FY 2003 EQUIPMENT													7	0.9							7	0.9
FY 2004 EQUIPMENT																					0	0.0
FY 2005 EQUIPMENT																						
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																					41	5.3

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	8	0	18	0	0	0	8	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Out	8	0	0	18	0	0	0	8	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: POLLUTION PREVENTION AFLOAT TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

The shipboard funds provide for the procurement and Fleetwide installation of pollution prevention equipment which will produce immediate life cycle cost savings to the Fleet through reduction in the quantity of hazardous material used aboard ship, offloaded, and subsequently disposed of by shore activities as hazardous waste.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT			20	2.3	29	3.0	33	2.6	35	3.6	17	2.0	4	0.4					17	2.6	155	16.5
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST			20	2.0	29	2.6	33	2.4	35	2.6	17	1.3	4	0.3					17	1.9	155	13.1
TOTAL PROCUREMENT				4.3		5.6		5.0		6.2		3.3		0.7						4.5		29.6

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

MODELS OF SYSTEMS AFFECTED: POLLUTION PREVENTION AFLOAT MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT SHIPYARD

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 4 Months

CONTRACT DATES: FY 2001: Nov-00 FY 2002: Nov-01 FY 2003: Nov-02

DELIVERY DATE: FY 2001: Feb-01 FY 2002: Feb-02 FY 2003: Feb-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																						
FY 2000 EQUIPMENT			20	2.0																	20	2.0
FY 2001 EQUIPMENT					29	2.6															29	2.6
FY 2002 EQUIPMENT							33	2.4													33	2.4
FY 2003 EQUIPMENT									35	2.6											35	2.6
FY 2004 EQUIPMENT											17	1.3									17	1.3
FY 2005 EQUIPMENT													4	0.3							4	0.3
FY 2006 EQUIPMENT																						
FY 2007 EQUIPMENT																						
TO COMPLETE																			17	1.9	155	13.1

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	20	0	10	14	5	0	12	14	7	0	11	12	12	0	7	5	5	0	2	2	0	0	0	0	0	0	0	0	0	17	155
Out	13	7	0	10	14	5	0	12	14	7	0	11	12	12	0	7	5	5	0	2	2	0	0	0	0	0	0	0	0	17	155

P3A INDIVIDUAL MODIFICATION

MODELS OF SYSTEM AFFECTED: ADVANCED INCINERATOR TYPE MODIFICATION: MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

DESCRIPTION/JUSTIFICATION:

PROCESS SOLID WASTE THAT CANNOT BE PROCESSED IN A PULPER OR METAL GLASS SHREDDER,

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						
PROCUREMENT																						
INSTALLATION KITS																						
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						
EQUIPMENT							5	2.5	1	0.5	1	0.5	2	1.0	1	0.5	1	0.5	24	9.5	35	15.0
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER																						
OTHER																						
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST							AP	1.5	5	5.8	1	1.7	2	2.5	1	1.4	1	1.8	25	12.7	35	27.4
TOTAL PROCUREMENT								4.0		6.3		2.2		3.5		1.9		2.3		22.2		42.4

P3A (Continued) INDIVIDUAL MODIFICATION (Continued)

MODELS OF SYSTEMS AFFECTED: ADVANCED INCINERATOR MODIFICATION TITLE: POLLUTION CONTROL EQUIPMENT

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT SHIPYARD
ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 9 months
CONTRACT DATES: FY 2001: FY 2002: Jan-02 FY 2003: Jan-03
DELIVERY DATE: FY 2001: FY 2002: Sep-02 FY 2003: Sep-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																						
FY 2000 EQUIPMENT																						
FY 2001 EQUIPMENT																						
FY 2002 EQUIPMENT							AP	1.5													0	1.5
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																				Cont.	0	#####
TO COMPLETE																				Cont.	0	Cont.

INSTALLATION SCHEDULE:

	FY 2000 & Prior	FY 2001 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25

FY 2000/01 BUDGET PRODUCTION SCHEDULE, P-21 | DATE **June 2001**

APPROPRIATION/BUDGET ACTIVITY
OTHER PROCUREMENT, NAVY

Weapon System

P-1 ITEM NOMENCLATURE

		Production Rate			Procurement Leadtimes					
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
HF024 CFC 114										
(R114) A/C BACKFIT	YORK INT'L PA				0	0	6	0	6	

ITEM / MANUFACTURER	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 2000												FISCAL YEAR 2001										BAL
						1999			CALENDAR YEAR 2000									CALENDAR YEAR 2001										
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
																													0
CFC-114 CONVERSION KITS	00		10		10			A							4	4	2												0
CFC-114 CONVERSION KITS	01		53		53															A						6	5	6	36
																													0
																													0

ITEM / MANUFACTURER	FY	SVC	QTY	DEL	BAL	FISCAL YEAR 2002												FISCAL YEAR 2003										BAL
						2001			CALENDAR YEAR 2002									CALENDAR YEAR 2003										
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
																													0
CFC-114 CONVERSION KITS	01		53	17	36	6	5	6	5	5	5	4																	0
CFC-114 CONVERSION KITS	02		74		74			A							7	6	7												0
CFC-114 CONVERSION KITS	03		60		60																								NA
																													0

Remarks:

BUDGET ITEM JUSTIFICATION SHEET **P-40**													DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB**						
Program Element for Code B Items:							Other Related Program Elements **N/A**						
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002								
QUANTITY													
COST (In Millions)			**$51.2**	**$11.3**	**$6.8**								
SPARES COST (In Millions)													

PB001:

MAJOR SHORE SPARES - Major shore spares will be installed both by IMA and depot level activities depending on the equipment and the severity of casualty. Most major shore spares will eventually transition to become rotatable pool spare initial assets prior to scheduled component replacement. FY00 funding procured equipment essential for primary and secondary propulsion, life support, and navigation systems. The Budget Procurement History and Planning Exhibit (P-5A) provides further detail of these procurements.

MODERNIZATION - The SEAWOLF Modernization Plan will upgrade and enhance war-fighting and maritime capabilities, and establish commonality within the class and across other submarine classes. The Common Submarine Radio Room, BLQ-10 ESM System, SUBLAN (TIDS), and ARCI/B2CI have all been approved for installation throughout the SEAWOLF Class. Funding supports design efforts, hardware procurements, and installation associated with the Common Submarine Radio Room, BLQ-10 ESM System, and ARCI/B2CI.

SEAWOLF DEFICIENCY CORRECTION - The funding identified corrects both mechanical and acoustic deficiencies noted during SEAWOLF Sea Trials subsequent to delivery and Selected Restricted Availabilities (SRA's). These deficiencies, if left uncorrected, would degrade the performance and acoustic signature of the ship.

PB002:

VA CLASS PROPULSOR FOR SSN 21* - Specific performance deficiencies associated with the SEAWOLF propulsor were identified during SEAWOLF lead ship post delivery trials. Installing a VIRGINIA class propulsor on the SEAWOLF will potentially correct the performance deficiency, mitigate the technical risk, and minimize the necessary capital investment, as well as placing our two quietest submarine classes on a common design. The funding profile covers procurement of propulsor components in FY 00 (Castings & Rotor, NAB Parts, Fixed Propulsor), design of necessary stern modifications, and installation of these modifications.

The Virginia Class propulsor improved on the design developed for SEAWOLF. Using a Virginia class propulsor establishes a common propulsor design between the SEAWOLF and VIRGINIA classes, resulting in reduced infrastructure and support costs. Because the VIRGINIA class propulsor design is well developed, the technical risk and costs associated with installation on the SEAWOLF are minimized. Also, by installing a VIRGINIA Class propulsor on SSN 21, one complete SEAWOLF propulsor spare set (including propulsor bearing, shaft, and miscellaneous components) will not need to be procured. Additionally, the VIRGINIA class will also benefit from the full scale testing on the SEAWOLF.

* "The propellers funding in FY 01 and outyear funding is reflected in BLI 051000 to properly align funding."

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB**

Subhead 81PB

This program is for the procurement of special material required to implement the military's high priority Submarine Silencing Program for operating nuclear submarines. The overall objectives and detail requirements for this program were established and defined in the CNO Specific Operational Requirements (SOR) 46-28 and NAVSEAINST C9073.2B. Only one program is in place to procure hardware systems for the purpose of measuring/monitoring, assessing, and improving the detection capability / reducing the detectability of our submarines.

LABORATORY/FACILITIES UPGRADES/REFURBISHMENT (81PB)

Consists of replacing or refurbishing broken, old obsolete acquisition and analysis hardware and software prior to equipment failure and subsequently jeopardizing ship's safety (e.g. ranging equipment) or the execution of acoustic trials and completion of trials program objectives outlined in CNO Specific Organizational Requirements 46-28 (assessment of ship's acoustic posture, etc.) and NAVSEAINST C9073.2B (Acoustics Surveys Policy). These planned refurbishments and replacements are especially critical in order to maintain the technological advancements recently made in the area of acoustic data acquisition under the Acoustic Measurement Facilities Program (AMFIP) East and West coasts (USNS HAYES and SEAFAC, respectively). Examples of these items include: hydrophone arrays, towed arrays, ranging and tracking systems, on-board array electronics, noise sources, shore power cables and data fiberoptic cables, data analysis systems, workstations, data storage and retrieval, communications systems, analyzers, tape recorders, accelerometers, monitors, etc. These equipments are utilized on the test vessel, the listening platform, and at the laboratories. [In FY97 and beyond, the East and West Coast requirements were merged into one funding line.]

WEAPONS SYSTEM COST ANALYSIS **P-5**	Weapon System	DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Submarine Support Equipment BLI: 094100 SBHD: H1PB/81PB**

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
	Submarines (N77)														
PB001	SSN 21 Class Support Equipment					5,659			40						
	SEAWOLF Tool/Equipment under $100k								0			565			
	SEAWOLF Deficiency Corrections					20,347			250			953			
	Modernization								7,978			2072			
PB002	VA Class Propulsor for SSN-21					22,397									
	Submarines (N77)														
PB004	Facilities/Lab Upgrades/Refurb					2,828			3,046			3,206			
			0			**51,231**			**11,314**			**6,796**			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		June 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1: Ships Support Equipment	SSN 21 Class Support Equipment	H1PB

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST ($M)	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)										
Airflask Material/Fabrication	1	2.596	SUPSHIP Groton		SS/FFP	EB Corp, Groton CT	9/00	6/01	YES	
OGP Electrolysis Pwr Sup	1	0.48	NAVSEA		SS/FFP	EB Corp, Groton CT	4/00	9/01	YES	
Hydro Servo Control Vlvs	2	0.06	NAVSEA		SS/FFP	EB Corp, Groton CT	4/00	10/01	YES	
HPP Hydra Pump/Motor Assy	1	0.507	NAVSEA		SS/FFP	EB Corp, Groton CT	4/00	2/03	YES	
ASW Constant Ven Hull & BU Valve	2	0.125	NAVSEA		SS/FFP	EB Corp, Groton CT	4/00	4/01	YES	
Periscope Eyepiece Type 18H Mod 1	1	0.75	NUWC Newport		C/FFP	Kollmorgen, MA	4/00	6/01	YES	
Periscope E&E Adaptor Type 18H Mod 1	1	0.956	NUWC Newport		C/FFP	Kollmorgen, MA	4/00	6/01	YES	
FISCAL YEAR (01)										
B2CI	1	6.8	NAVSEA		SS/FFP	Lockheed Martin, VA	2/01	6/02	YES	
Accumulator Barrel	1	0.04	Portsmouth NSY		SS/FFP	Advanced Technology, SC	04/01	08/01	YES	

D. REMARKS

BUDGET ITEM JUSTIFICATION SHEET **P-40**													DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**						
Program Element for Code B Items:							Other Related Program Elements						
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002								
QUANTITY													
COST (In Millions)			**$13.2**	**$12.3**	**$10.9**								
SPARES COST (In Millions)													

GUPPY 1 MOD E - HM002

As the primary source of emergency power, batteries are MISSION CRITICAL equipment. Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Experience and laboratory tests has established a predictable service life of 66 months. Due to electrochemical degradation associated with batteries, life extensions are not possible without significant reduction of system capability. The replacement schedule for these batteries is predicted using continually updated usage data from each ship.

FY 00

SSN 688	PEARL HARBOR	Jun 00
SSN 759	GROTON	Jun 00
SSN 717	PEARL HARBOR	Oct 00
SSN 756	NORFOLK	Nov 00
SSN 709	NORFOLK	Dec 00
SSN 764	NORFOLK	Dec 00
SSN 760	GROTON	Jan 01
SSN 720	GROTON	Feb 01
SSN 721	PEARL HARBOR	Jun 01
SSN 714	NORFOLK	Oct 01
SSN 700	GROTON	Nov 01

FY 01

SSN 719	GROTON	Nov 01
SSN 725	SAN DIEGO	Nov 01
SSN 752	PEARL HARBOR	Nov 01
SSN 691	GROTON	Dec 01
SSN 724	PEARL HARBOR	Dec 01
SSN 722	PEARL HARBOR	Feb 02
SSN 765	NORFOLK	Apr 02
SSN 761	GROTON	May 02
SSN 766	PEARL HARBOR	May 02
SSN 711	PEARL HARBOR	Jun 02

BUDGET ITEM JUSTIFICATION SHEET **P-40 CONTINUATION**	DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

FY 02

SSN 723	NORFOLK
SSN 750	NORFOLK
SSN 767	NORFOLK
SSN 763	PEARL HARBOR
SSN 762	PEARL HARBOR
SSN 698	SAN DIEGO
SSN 770	PEARL HARBOR
SSN 751	GROTON
SSN 768	GROTON
SSN 771	PEARL HARBOR

BUDGET ITEM JUSTIFICATION SHEET **P-40 CONTINUATION**	DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

DSRV1 & 2 (HM003)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. Silver Zinc Batteries provide the only power source for DSRV 1&2 rescue vehicles, which provide the Navy with a capability for personnel rescue from a disabled submarine. A complete new battery is installed when an operating set reaches the end of its estimated 15 month life cycle.

Procurement Installation on the following Hulls

	FY 00	
DSRV-1	DSU	3 sets/yr at 3-4 month intervals
DSRV-2	DSU	3 sets/yr at 3-4 month intervals
	FY 01	
DSRV-1	DSU	3 sets/yr at 3-4 month intervals
DSRV-2	DSU	3 sets/yr at 3-4 month intervals
	FY 02	
DSRV-1	DSU	3 sets/yr at 3-4 month intervals
DSRV-2	DSU	3 sets/yr at 3-4 month intervals

BUDGET ITEM JUSTIFICATION SHEET **P-40 CONTINUATION**	DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

NR-1 (HM005)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. The NR-1 Silver Zinc battery is a secondary underwater power source. Its function during a military or oceanographic research mission is an emergency source of power in the event of nuclear reactor shut down. A new battery is installed at the end of its 15 month cycle.

Procurement Installation on the following Hull.

Installing Agent	Date
FY 00 Portsmouth	Apr 01
FY 01	
FY 02	Oct 02

SILVER ZINC EMERGENCY BATTERIES (HM006)

Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment and are utilized aboard the DSRV 1 & 2 deep submergence vehicles to activate critical components, e.g. release valves and devices, as well as emergency back-up power for the life support systems. Batteries can be installed by ships Force after a 12 month life cycle.

GFE (SILVER)
Silver is required for all DSRV, NR-1 and emergency batteries, and is requisitioned from the governments reclaiming facility.

BUDGET ITEM JUSTIFICATION SHEET **P-40 CONTINUATION**	DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

TRIDENT 1 (HM008)
Submarine batteries are consumable items which require replacement upon reaching the end of their service life. Batteries are MISSION CRITICAL equipment. These are replacement batteries for all Trident class ships. Experience gained with testing at Mare Island Naval Shipyard and on board ship has shown that battery life is determined by total months in service and not total equivalent cycles. Renewal criteria for Trident is based on extensive laboratory/tests and evaluation of available operational data, resulting in an expected wet life of 72 months.

Procurement Installation on the Following Hulls (HM008)

FY 00			FY 02		
SSBN 736	Kings Bay	Jan 01	SSBN 739	Kings Bay	Oct-02
SSBN 737	Kings Bay	May 01	SSBN 740	Kings Bay	Jul-03
SSBN 731	Bangor, TRF	Jul 01			
SSBN 743	Bangor, TRF	Nov 01			
SSBN 738	Kings Bay	Jan 02			
FY 01					
SSBN 732	Bangor, TRF	Apr 02			
SSBN 733	Kings Bay	Jun 02			

SEAWOLF (HM009)
Submarine batteries are consumable items which require replacement upon reaching the end of their service lift. Batteries are MISSION CRITICAL equipment. These are replacement batteries for SEAWOLF Class ships. Failure analyses of shipboard, and laboratory test cells has resulted in and estimated net service life of 72 months.

Procurement and Installation on the following Hulls (HM009)

FY01		
SSN 21	Groton	Dec 01
FY 02		
SSN 23	EB	Jul 02

BUDGET ITEM JUSTIFICATION SHEET **P-40 CONTINUATION**	DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

PRODUCTION ENGINEERING HM830

NSWC Crane is the designated procurement activity and engineering agent to monitor battery performance to establish replacement schedules with the fleet. Complementing the battery procurements with technical contractual data, NSWC Crane receives sample cells of lead-acid batteries (all types) to perform continuous life testing until complete cell failure. The procedure is beneficial to the Navy since a cause of premature failure may be detected and corrected before the complete batteries are installed. This test program is also used to verify improved operating and maintenance procedures and application of SEAWOLF/VIRGINIA battery technologies to other designs in order to extend service life and reduce the number of battery changeouts (reduced life cycle costs) over the life of the ship.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **SUBMARINE BATTERIES BLI: 094500 SBHD: 81HM**

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
	N87 SUBMARINE WARFARE														
HM002	ASB - GUPPY 1 MOD E (126 CELL)	A		11	559.7	6,157	10	617.9	6,179	10	656.2	6562			
HM003	DSRV 1-2	A		3 SETS	292.1	876	3 SETS	296.8	890	3 SETS	301.5	905			
HM003A	(GFE) SILVER					224			228			232			
HM005	NR-1	A		1	281.6	282				1	290.0	290			
HM005A	(GFE) SILVER					73						75			
HM006	EMERGENCY BATTERIES	A		8	9.6	77				8	9.8	78			
HM006A	(GFE) SILVER					4						4			
HM008	PDX - TRIDENT 1 TYPE (126 CELL)	A		5	782.9	3,915	2	834.4	1,669	2	861.1	1,722			
HM009	LLL - SEAWOLF (126 CELL)						1	2,045.4	2,045						
HM830	PRODUCTION ENGINEERING					1,564			1,262			1023			
						13,172			**12,273**			**10,891**			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE JUNE 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 1: Ships Support Equipment	C. P-1 ITEM NOMENCLATURE Submarine Batteries BLI: 094500	SUBHEAD 81HM

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
FY 2000										
HM002	11	559.7	NAVSEA		OPTION	GNB LOMBARD, ILL.	DEC 99	JUN 00	YES	
HM003	3	292.0	NAVSEA		OPTION	UNKNOWN	DEC 99	DEC 00	YES	
HM005	1	281.6	NAVSEA		OPTION	UNKNOWN	DEC 99	DEC 00	YES	
HM006	8	9.6	NAVSEA		OPTION	UNKNOWN	DEC 99	DEC 00	YES	
HM008	5	782.9	NAVSEA		C/NP	GNB LOMBARD, ILL.	JUN 00	JAN 01	YES	
FY 2001										
HM002	10	617.9	NSWC CRANE		SS/NP	GNB LOMBARD, ILL.	DEC 00	JUN 01	YES	
HM003	3	296.8	NSWC CRANE		COMP	UNKNOWN	DEC 00	DEC 01	YES	
HM008	2	834.4	NSWC CRANE		OPTION	GNB LOMBARD, ILL.	DEC 00	FEB 02	YES	
HM009	1	2,045	NSWC CRANE		C/NP	GNB LOMBARD, ILL.	DEC 00	MAR 02	YES	
FY 2002										
HM002	10	656.2	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 01	JUN 02	YES	
HM003	3	301.5	NSWC CRANE		TBD	UNKNOWN	DEC 01	DEC 02	YES	
HM005	1	290.0	NSWC CRANE		TBD	UNKNOWN	DEC 01	DEC 02	YES	
HM006	8	9.8	NSWC CRANE		TBD	UNKNOWN	DEC 01	DEC 02	YES	
HM008	2	861.1	NSWC CRANE		TBD	GNB LOMBARD, ILL	DEC 01	FEB 03	YES	

D. REMARKS

BUDGET ITEM JUSTIFICATION SHEET P-40											DATE: May 2001	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY - (BA-1) Ship Support Equipment**							P-1 ITEM NOMENCLATURE **Strategic Platform Support Equipment/#095000**					
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	**$20.8**	**$18.0**	**$11.3**							
SPARES COST (In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION:

Funding in this P-1 line provides for the procurement of tactical Hull, Mechanical and Electrical (HM&E) equipment that will be installed aboard ships and in the facilities at the TRIDENT Refit Facility (TRIREFFAC) and TRIDENT Training Facility (TRITRAFAC). The TRIDENT Refit Facility is a dedicated shore support facility providing a full range of industrial support. Unlike many other programs, TRIDENT does not use tenders for industrial support, but rather depends upon the TRIREFFAC for a full range of maintenance functions. The TRITRAFAC provides the crews for the SSBN 726 Class Submarines with realistic training experience in operating and maintaining shipboard equipment.

TRIPER ASSETS (HM&E) - In order to achieve the required operational availability and not exceed a specific Engineered Availability (EA) Period, a planned, progressive incremental overhaul of the submarine is accomplished utilizing the TRIDENT PLANNED EQUIPMENT REPLACEMENT (TRIPER) Program's inventory of pretested, prestaged ready for issue equipments. TRIPER stock levels are calculated as functions of equipment change out dates, procurement lead times, repair turn around times, equipment recoverability, equipment population and safety level requirements.

HM&E AND STRATEGIC WEAPONS SYSTEMS/SUPPORT SUBSYSTEM (SWS/SS) ALTERATIONS - This provides for the replacement of obsolete equipment on board of SSBN 726 Class Submarines and at dedicated Shore Support Facilities (TLCSF, TRITRAFAC (B), TRIREFFAC (B), TRITRAFAC (KB), TRIREFFAC (KB), Major Shore Spares (MSS)). These alterations are necessary in order to replace obsolete/outdatedequipments with new equipments to maintain or increase mission capabilities, replace or modify components/systems which have proven to be unreliable, correct design and safety problems and reduce fleet maintenance burdens. It provides for installation of Noise Quieting Equipment and system/hull modification to reduce noise transmission to meet Submarine Silencing goals. Alterations and actions are done at the lowest practicable and authorized level (taking into consideration urgency, priority, capability, capacity and cost). Alterations to SSBN 726 Class Submarines are scheduled for accomplishment at the TRIREFFACs. This requires equipment procurement and installation, technical planning, training, and associated resources. This line provides for material procurement necessary to install the required alterations to SSBN 726 Class Submarines at the NAVIMFAC, Bangor, and the TRIREFFAC, Kings Bay. Additionally, this line provides for the utilization of specially trained and dedicated installation teams to ensure accelerated and correct installation of complex and high priority alterations within specific timeframes. Provided are comprehensive program management and execution, including planning, direction, control, installation, integration, and coordination of specifically selected safety related, mission enhancement or technical HM&E alterations.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY - (BA-1) Ship Support Equipment**	P-1 ITEM NOMENCLATURE **Strategic Platform Support Equipment/#095000**

TRIDENT ENGINEERED AVAILABILITY (EA) - TRIDENT EA material support funding is required to provide replacement and contingency material to support the critical path schedule during the SSBN 726 Class Submarine Engineered Availabilities (EAs) commencing in FY93 and continuing through the operational life of the submarine. This equipment is separate and exclusive of TRIPER program equipment. Funding is also required to formulate or procure complex tools and fixtures required to reduce EA scheduled durations. This program also provides funding for installation of Depot level alterations packages.

HM&E MODERNIZATION KITS - Accomplishes alterations and actions at the lowest practicable and authorized level (taking into consideration urgency, priority, capability, capacity and cost). Alterations, and upgrades to SSBN 726 Class Submarines are scheduled for accomplishment at the TRIREFFACs. This requires equipment procurement and installation, technical planning, training, and associated resources. This line provides for material procurement necessary to install the required alterations to SSBN 726 Class Submarines at the TRIREFFAC, Bangor, and the TRIREFFAC, Kings Bay. This project unit is now being used for the placement of the AN/UYQ-70 Display Program that was placed within the TRIDENT (BA1) account.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: Ship Support Equipment**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **Strategic Platform Support Equipment/81HH**

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			
HH007	Equipment TRIPER Assets	A				451			179			486			
HH009	Equipment HM&E & SWS/SS Alteration	A				0			0			5,875			
HH012	Equipment HM&E TRIDENT EA	A				5,445			5,627			4,915			
HH017	Equipment HM&E Modernization Kits	A				14,942			12,233			0			
			0			**20,838**			**18,039**			**11,276**			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	**A. DATE** **May 2001**
B. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: Ship Support Equipment**	**C. P-1 ITEM NOMENCLATURE** **Strategic Platform Support Equipment** **HH007 TRIPER Assets**	**SUBHEAD** **81HH**

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)										
Valve Regulating	6	$66.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	6/00	12/00	Yes	
Valve Pressure Relief	5	$11.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	6/00	12/00	Yes	
Fiscal Year (01)										
Pump Unit, Centirifug	2	$62.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	7/01	12/01	Yes	
Computer Navigation	1	$55.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	7/01	12/01	Yes	
Fiscal Year (02)										
Burner Assembly, Cat	1	$195.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	6/02	12/02	Yes	
Computer, Navigation	5	$40.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	6/02	12/02	Yes	
Valve, Relief, Pressure	1	$91.00	NAVSEA	N/A	Allotment	NAVICP, Mechanicsburg,PA	6/02	12/02	Yes	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		May 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1: Ship Support Equipment	Strategic Platform Support Equipment HH009 HM&E and SWS/SS Alteration	81HH

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)										
None										
Fiscal Year (01)										
None										
Fiscal Year (02)										
Low Sensitivity Rotor	1	$4,339.00	NAVSEA	N/A	CPFF	EB Corp./Groton, CT	12/01	1/03	Yes	
Low Sensitivity Rotor (Startup)	*	$1,536.00	NAVSEA	N/A	CPFF	EB Corp./Groton, CT	12/01	1/03	Yes	

D. REMARKS

* A variety of hardware procured at different quantities.

** Based on Approved Submarine Mod priority list for alterations.

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE May 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: Ship Support Equipment	C. P-1 ITEM NOMENCLATURE Strategic Platform Support Equipment HH012 TRIDENT Engineered Availability	SUBHEAD 81HH

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)										
SWS C4 to D5 Conversion	1	$4,965.00	NAVSEA	N/A	WR	PSNS/Bremerton, WA	12/99	5/00	Yes	
EA Advanced Planning (SSBN 733)	1	$480.00	NAVSEA	N/A	CPFF	PSNS/Bremerton, WA	5/00	5/00	Yes	
Fiscal Year (01)										
SWS C4 to D5 Conversion	1	$5,286.00	NAVSEA	N/A	WR	PSNS/Bremerton, WA	2/01	1/01	Yes	
EA Advanced Planning (SSBN 735)	1	$341.00	NAVSEA	N/A	WR	PSNS/Bremerton, WA	6/01	1/01	Yes	
Fiscal Year (02)										
EA Prod Engr & Mgmt/Material (735)	1	$4,915.00	NAVSEA	N/A	WR	TRF, Kings Bay	12/01	6/02	Yes	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE May 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1: Ship Support Equipment	Strategic Platform Support Equipment HH017 HM&E Modernization Kits	81HH

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)										
AN/UYQ-70 Display	*	$14,667.00	NAVSEA	N/A	CPIF/FPR	Lockheed Martin, Eagan, MN	10/00	*	Yes	
AN/UYQ-70 Display	*	$212.70	NAVSEA	N/A	GSA	DDL OMNI, McLean VA	7/00	*	Yes	
AN/UYQ-70 Display	*	$62.30	NAVSEA	N/A	GSA	DDL OMNI, McLean VA	6/00	*	Yes	
Fiscal Year (01)										
AN/UYQ-70 Display	*	$12,000.00	NAVSEA	N/A	CPIF/FPR	Lockheed Martin, Eagan, MN	3/01	*	Yes	
Misc NAVSEA Adj.		$233.00								
Fiscal Year (02)										
None										

D. REMARKS

* A variety of H/W procured and delivered at different quantities.

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Ship Service Turbine Generator (SSTG) TYPE MODIFICATION: Obsolete Equipment Replacement MODIFICATION TITLE: Low Sensitivity Rotors

DESCRIPTION/JUSTIFICATION:

The Low Sensitivity Rotors (LSR) replaces obsolete SSTG components to increase system reliability and increase platform acoustic advantage through increased system quieting.

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

	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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	2	7.71					1	3.4														
EQUIPMENT NONRECURRING																						
ENGINEERING CHANGE ORDERS																						
DATA																						
TRAINING EQUIPMENT																						
SUPPORT EQUIPMENT																						
OTHER **LLTM Note 1**	3	2.20					1	0.92														
OTHER **Note 2**								1.53														
OTHER																						
INTERIM CONTRACTOR SUPPORT																						
INSTALL COST	2	1.1																				
TOTAL PROCUREMENT	5	9.91	0	0.00	0	0.00	2	5.85														

Note 1: Long Lead Time Material (LLTM) is procured and incorporated into LSR shipset prior to installation. No related installation cost for LLTM.

Note 2: Provides startup cost for restarting production line after 4 year break in production.

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

MODELS OF SYSTEMS AFFECTED: SSTG MODIFICATION TITLE: Low Sensitivity Rotor (LSR)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: Tiger Team/TRIDENT Refit Facility 19.5 Months w/o LLTM procured in advance
ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 13 Months w/LLTM procured in advance
CONTRACT DATES: FY 2000: FY 2001: FY 2002: 12/01
DELIVERY DATE: FY 2000: FY 2001: FY 2002:

($ 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	2	1.1																			2	1.1
FY 2000 EQUIPMENT																					0	0.0
FY 2001 EQUIPMENT																					0	0.0
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				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	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	1	8
Out	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	0	0	0	1	0	1	8

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: MAY 2001					
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **DSSP EQUIPMENT BLI: 095500**					
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)			**$7.8**	**$5.3**	**$7.5**							
SPARES COST (In Millions)												

The Deep Submergence Systems Program (DSSP) is responsible for the procurement, life cycle support, and improvement and modernization of assigned platforms and programs. The DSSP program provides for the procurement of equipment to support the establishment and maintenance of fleet capability for a number of programs which perform submarine research and rescue, inspection, object location and retrieval from the ocean environment, and research and scientific exploration missions. DSSP procurements replace obsolete, non-supportable equipment and subsystems through phased improvement and modernization projects. These projects may include special ship alterations, field change kits, and design corrections. DSSP systems include:

DEEP SUBMERGENCE RESCUE VEHICLES (DSRV) (HJ010)

The DSRVs provide the fleet with a world-wide capability to rescue personnel from submarines disabled on the ocean floor. These funds procure field changes and modernized subsystems for the operating DSRVs MYSTIC (DSRV-1) and AVALON (DSRV-2). Since there are only two DSRVs, one of which must be on 24-hour alert-ready status to respond to a submarine rescue mission anywhere in the world, their reliability and maintainability (minimum down-time) are key to mission readiness, response time, and operational safety. The resolution of equipment deficiencies necessitates that the highest priority field changes/modernization's be completed each fiscal year.

SUBMARINE NR-1 (HJ020)

The NR-1 is a unique, one-of-a-kind nuclear-powered research and ocean engineering submarine designed for extended search, object recovery, device implantment and submerged repair, and oceanographic research missions. Its research capabilities include ocean topography and geology, and it is capable of on-site data collection on the thermal optical, biological, and acoustic environments of the deep ocean. The NR-1 is equipped with several special systems which provide the capability to perform a number of military and scientific missions, and it has been successful in recovering items of high military value from the ocean floor. (For example, the NR-1 was an important element of the space shuttle "Challenger" recovery operations.) NR-1 is also fitted with special devices, such as an external manipulator arm, to enable it to recover objects on the ocean floor . The service life of NR-1 has been extended to 2012 which will require future replacement of obsolete equipment.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: **MAY 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**	P-1 ITEM NOMENCLATURE **DSSP EQUIPMENT BLI: 095500**

UNMANNED VEHICLE SYSTEMS (HJ060)
The Tethered Unmanned Work Vehicle System (TUWVS) provides operational forces with an effective means of conducting ocean bottom searches, inspections, object recovery, and work operations to a depth of 5,000 feet. The Deep Side Looking Sonar (DSILO) and Side Looking Sonar (SILOS) are being replaced by the Klein 2000 which will be operated and maintained by the unmanned vehicle detachment. In addition emergency life support supply POD's are being developed and tested to support a disabled Submarine.

ADS (Hardsuit 2000) (HJ090)
The ADS is a component of the Submarine Rescue Diving and Recompression System (SRDRS). This modified COTS one-man, one atmosphere diving system will also provide world-wide capability in support of Submarine Rescue Chambers (SRC) mission.
ADS will be used to clear disabled submarines' seating surfaces, attach the SRC downhaul cable and attach salvage fittings.

SUBMARINE ESCAPE & IMMERSION EQUIPMENT (HJ100)
The SEIE is used by a submariner to escape from a disabled submarine and survive on the surface until rescued. The system, which is being adapted from a British design, includes the escape suit, inner thermal suit and a single person life raft, all packaged as a unit onboard the submarine. This is a safety/survival appliance that is vastly superior to the current Stienke Hood escape appliance onboard USN submarines, which has reached obsolescence and has become a maintenance burden to the fleet. The SEIE increases the escape depth to 600 FSW and provides thermal protection to the user from hypothermia. In conjunction with the SEIE, the Submarine Emergency Position Indicating Rescue Buoy's (SEPIRB) are being procured and installed to provide the exact location of a disabled submarine.

EQUIPMENT INSTALLATION (HJINS)
These funds are for the installation of DSSP equipment, as well as the training equipment and items which support shore facilities.

SOURCES:
The sources for these acquisitions are limited. There are few private companies actively engaged in deep ocean engineering and even fewer with the specialized experience, knowledge, and facilities to meet the exacting requirements of the DSSP programs. Accordingly, sole source contracts are typically required with LESC, CSDL, and LMTDS to continue their support of the various DSSP programs. Where possible, contracting via open competition is utilized.

REFERENCES:
Acquisition Plans 584-87 Revision 6 approved 14 February 1997.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: MAY 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **DSSP EQUIPMENT BLI: 095500**

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
HJ010	RESCUE/DSRV	A				880			111			69			
HJ020	NR-1	A				816			384			927			
HJ060	UNMANNED VEHICLE SYSTEMS	A				466			94			187			
HJ090	ADS	A				165			6			203			
HJ100	SUBMARINE ESCAPE AND IMMERSION EQUIPMENT	A				3,993			3,565			2,904			
	MATERIAL TOTAL					6,320			4,160			4,290			
HJINS	EQUIPMENT INSTALLATION	A				1,511			1,147			3,208			
	(FMP)					972			776			3,045			
	(NON-FMP)					539			371			163			
			0			**7,831**			**5,307**			**7,498**			**0**

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE MAY 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	HJ010 RESCUE/DSRV SUPPORT EQUIPMENT	81HJ

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
FY2000										
Unidentified Safety Items	1	$679	NAVSEA		SS/OPTION	LMESC - S. Diego, CA	11/99	11/00	NO	10/99
VB/TB Pump	1	$201	NAVSEA		SS/OPTION	LMESC - S. Diego, CA	11/99	11/00	YES	
FY2001										
Unidentified Safety Items	1	$111	NAVSEA		SS/OPTION	LMESC - S. Diego, CA	11/00	11/01	NO	6/00
FY2002										
Unidentified Safety Items	1	$69	NAVSEA		SS/OPTION	LMESC - S. Diego, CA	11/01	11/02	NO	6/01

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | A. DATE: **MAY 2001**

B. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy**
BA-1 Ships Support Equipment

C. P-1 ITEM NOMENCLATURE: **HJ020 NR-1**

SUBHEAD: **81HJ**

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
FY2000										
GPS Antenna	1	$84	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	12/99	9/00	YES	
Manipulator Turret Rails	1	$90	NAVSEA		SS/BOA	EB Corp-Groton CT	11/99	12/00	YES	
PC Update	1	$122	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	1/00	7/00	YES	
OAS PCOF Cable Replace	1	$140	NAVSEA		RC	Applied Research Lab-UT	12/99	7/00	YES	
UHF Radio Replacement	1	$60	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	11/99	10/00	YES	
Cable Replacement	1	$100	NAVSEA		SS/BOA	EB Corp-Groton CT	11/99	12/00	YES	
Sub Rescue Equipment	1	$220	NAVSEA		SS/BOA	EB Corp-Groton CT	11/99	10/00	YES	
FY2001										
MK23 Gyro Replacement	1	$120	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	11/00	2/01	NO	8/01
Unidentified HM&E		$264	NAVSEA		SS/OPTION	EB Corp-Groton CT	11/00	2/01	NO	8/01
FY2002										
Color Monitors	1	$120	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	11/01	6/02	YES	6/01
SATCON	1	$130	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	11/01	6/02	YES	6/01
Track Point II	1	$177	NAVSEA		SS/OPTION	LMTDS-Great Neck, NY	11/01	6/02	YES	6/01
Tow Systems	1	$170	NAVSEA		SS/OPTION	EB Corp-Groton CT	11/01	6/02	YES	6/01
Pure Water	1	$250	NAVSEA		SS/OPTION	EB Corp-Groton CT	11/01	6/02	YES	6/01
CO2 Hopper	1	$80	NAVSEA		SS/OPTION	EB Corp-Groton CT	11/01	6/02	YES	6/01

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		MAY 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	HJ060 Unmanned Vehicle Systems Equipment	81HJ

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
FY2000										
PODS SSN F/C Kits	24	$20	NAVSEA		COMP/OPTION	O'Tech - Upper Malboro	11/99	3/00	YES	
FY2001										
VEHICLE UPGRADES	1	$94	NAVSEA		COMP/OPTION	O'Tech - Upper Malboro	11/00	7/01	YES	
FY2002										
RESCUE TOOLS	1	$187	NAVSEA		COMP/OPTION	O'Tech - Upper Malboro	11/01	7/02	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE MAY 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	HJ090 ADS	81HJ

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
FY2000										
Communications Upgrade	2	$50	NAVSEA		RC	COASTASYSSTA Panama City, FL	2/00	10/00	YES	
Camera Upgrade	2	$33	NAVSEA		RC	COASTASYSSTA Panama City, FL	2/00	10/00	YES	
FY2001										
ADS Replacement Parts	1	$15	NAVSEA		RC	COASTASYSSTA Panama City, FL	2/01	10/01	YES	
FY2002										
Camera Upgrade	3	$95	NAVSEA		RC	COASTASYSSTA Panama City, FL	11/01	6/02	YES	
Sonar Upgrade	2	$34	NAVSEA		RC	COASTASYSSTA Panama City, FL	11/01	6/02	YES	
						Panama City, FL				

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE MAY 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	HJ100 SEIE SUITS	81HJ

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
FY2000										
SEIE Suits:			NAVSEA		SS/OPTION	Naval Regional Contract-	10/99	3/00	YES	
Trident	2	$537				ing Center, London, UK				
Los Angeles	4	$377								
Seawolf	1	$338								
SEPIRB Equipment	1	$556	NAVSEA		WR	NUWC, NPT	2/00	11/00	YES	
SEPIRB Equipment	1	$252	NAVSEA		WR	NUWC, NPT	2/00	11/00	YES	
SEIE Equipment	1	$187	NAVSEA			Portsmouth NSY	2/00	11/00	YES	
Training Equipment	1	$78	NAVSEA		SS/OPTION	Naval Regional Contracting Center, London, UK	2/00	11/00	YES	
FY2001										
SEIE Suits			NAVSEA		SS/OPTION	Naval Regional Contract-	10/00	2/01	YES	
Trident	1	$537				ing Center, London, UK				
Los Angeles	5	$377								
SEPIRB Equipment	1	$464	NAVSEA		WR	NUWC, NPT				
SEIE Equipment	1	$679	NAVSEA		WR	Portsmouth NSY				
FY2002										
SEIE Suits						Naval Regional Contract-	10/01	2/02	YES	
Los Angeles	4	$377	NAVSEA			ing Center, London, UK				
SEIE Equipment	1	$523	NAVSEA			Portsmouth NSY	10/01	2/02	YES	
Portable Gas Analyzer	1	$873	NAVSEA			Portsmouth NSY	10/01	2/02	YES	

D. REMARKS

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: DSRV SUPPORT EQUIP TYPE MODIFICATION: MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: DSRV - HJ010

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS			2	0.880	1	0.111	1	0.069													4	1.06
INSTALLATION KITS - UNIT COST				0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0			0	0.00
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
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			2	0.250	1	0.075	1	0.025														0.4
TOTAL PROCUREMENT				1.130		0.186		0.094		0.0		0.0		0.0		0.0		0.0				1.4

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: NR-1 SUBMARINE TYPE MODIFICATION: MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: NR-1 HJ020

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS			7	0.816	1	0.384	6	0.927													14	2.13
INSTALLATION KITS - UNIT COST				0.0		0.0		0.0													0	0.00
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
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			7	0.204	1	0.249	6	0.100														0.6
TOTAL PROCUREMENT				1.020		0.633		1.027														2.7

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

MODELS OF SYSTEMS AFFECTED: DSRV MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: Various
ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various Months
CONTRACT DATES: FY 2000 Various FY 2001: Various FY 2002: Various
DELIVERY DATE: FY 2000: Various FY 2001: Various FY 2002: Various

($ 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			2	0.25																	2	0.3
FY 2001 EQUIPMENT					1	0.08															1	0.1
FY 2002 EQUIPMENT							1	0.03													1	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																						

*** NON-FMP DOLLARS**

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

MODELS OF SYSTEMS AFFECTED: NR-1 SUBMARINE MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: Various
ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various Months
CONTRACT DATES: FY 2000: Various FY 2001: Various FY 2002: Various
DELIVERY DATE: FY 2000: Various FY 2001: Various FY 2002: Various

($ 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			7	0.3																	7	0.3
FY 2001 EQUIPMENT					1	0.3															1	0.3
FY 2002 EQUIPMENT							6	0.1													6	0.1
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																						0.0
FY 2005 EQUIPMENT																						0.0
FY 2006 EQUIPMENT																						0.0
FY 2007 EQUIPMENT																						0.0
TO COMPLETE																						

*** NON-FMP DOLLARS**

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: TETHERED UNMANNED WORK VEHICLE SYSTEM TYPE MODIFICATION: MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: UMV - HJ060

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS			24	0.481	1	0.094	1	0.187													26	0.76
INSTALLATION KITS - UNIT COST				0.0		0.0		0.0													0	0.00
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
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			24	0.085	1	0.047	1	0.038														0.2
TOTAL PROCUREMENT				0.566		0.141		0.225														0.9

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

MODELS OF SYSTEMS AFFECTED: UMV MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: Various
ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various Months
CONTRACT DATES: FY 2000: Various FY 2001: Various FY 2002: Various
DELIVERY DATE: FY 2000: Various FY 2001: Various FY 2002: Various

($ 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			24	0.1																	24	0.1
FY 2001 EQUIPMENT					1	0.1															1	0.1
FY 2002 EQUIPMENT							1	0.04													1	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT																						0.0
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						

*** NON-FMP DOLLARS**

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: ATMOSPHERE DIVING SUIT TYPE MODIFICATION: MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: ADS - HO090

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS			4	0.165	1	0.015	4	0.148													9	0.33
INSTALLATION KITS - UNIT COST				0.0		0.0		0.0													0	0.00
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
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																						0.0
TOTAL PROCUREMENT				0.165		0.015		0.148														0.3

CLASSIFICATION: **UNCLASSIFIED**

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SUBMARINE ESCAPE AND IMMERSION EQUIPMENT TYPE MODIFICATION: MODIFICATION TITLE: DSSP

DESCRIPTION/JUSTIFICATION: SEIE - HJ100

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS			11	3.993	8	3.565	6	2.904													25	10.46
INSTALLATION KITS - UNIT COST				0.0		0.0		0.0													0	0.00
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT																						0.0
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			4	0.972	6	0.776	4	3.045														4.8
TOTAL PROCUREMENT				4.965		4.341		5.949														15.3

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

MODELS OF SYSTEMS AFFECTED: SEIE MODIFICATION TITLE: DEEP SUBMERGENCE SYSTEMS PROGRAM (DSSP)

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: Various
ADMINISTRATIVE LEADTIME: Various PRODUCTION LEADTIME: Various Months
CONTRACT DATES: FY 2000: Various FY 2001: Various FY 2002: Various
DELIVERY DATE: FY 2000: Various FY 2001: Various FY 2002: Various

($ 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			4	1.0																	4	1.0
FY 2001 EQUIPMENT					6	0.8															6	0.8
FY 2002 EQUIPMENT							4	3.0													4	3.0
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																						

FMP DOLLARS

INSTALLATION SCHEDULE:

	FY 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	4	0	6	0	0	0	4	0	0	0	7	0	0	0	12	0	0	0	12	0	0	0	13	0	0	0	13	0	0	0	71
Out	4	0	0	6	0	0	0	4	0	0	0	7	0	0	0	12	0	0	0	12	0	0	0	13	0	0	0	13	0	0	71

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET P-40						DATE: June 2001						
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**						P-1 ITEM NOMENCLATURE **LCAC SLEP/097000 21LC**						
Program Element for Code B Items: **BA-1: Ships Support Equipment**						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	**0**		**0**	**1**	**0**						**CONT.**	**1**
COST (In Millions)	**$4.3**		**$4.0**	**$3.5**	**$0.0**						**CONT.**	
SPARES COST (In Millions)			**$0.0**	**$0.0**	**$0.0**						**CONT.**	

PROGRAM DESCRIPTION JUSTIFICATION:

ITEM DESCRIPTION/JUSTIFICATION:

The LCAC (Lancing Craft Air Cushion) mission is to transport from ship-to-shore and across the beach, weapons systems, equipment and cargo to personnel of the assault elements of the Marine Air/Ground Task Force. The LCAC weighs 150 tons, is 88ft long with a beam of 47ft, rides on a cushion of air contained in a flexible skirt and is propelled by two aft mounted reversable variable pitch propellers. It is capable of speeds in excess of 40 knots. The LCAC SLEP will be conducted in two phases (Phase II(F) and Phase I) and will primarily consist of replacing the existing C3N electronic control wuite with a new The new C4N electronics suite. The new C4N electronic suite will replace obsolescent electronic technology, reduce craft electronics life cycle costs, improve supportability and contribute toward extending the life of the craft. The new C4N also introduces new systems architecture which allows simpler lower cost upgrades of individual components and future changes using software rather than hardware.

LC001 - Two LCAC SLEP phases will be conducted as follows: A SLEP Phase II(F) consisting of hull modifications, replacement of existing TF40B engines with ETF40B engines, removal of the craft electronics equipment with procurement and installation of a new C4N electronics suite. This suite will consist of a mod kit assembled at TM&LS facility and additional government furnished material . Equipment removal and installation will take place at the two Assault Craft Units (ACUs), each of which are currently responsible for half of the craft inventory. The SLEP Phase I will consist of replacement of the existing electronic suite with a C4N mod kit with GFM without the hull modifications or the replacement of the existing TF40B engines with ETF40B engines. In FY02 a set of enhanced engiines is being procured for installation in FY03.

Estimates include competitive outsourcing savings associated with consolidation of production support contracting efforts.

P-1 SHOPPING LIST CLASSIFICATION:

DD Form 2454, JUN 86 ITEM NO. 14 PAGE NO. 1

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS **P-5**	Weapon System LCAC		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD LCAC SLEP / 097000 / 21LC	

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
	LCAC SLEP N853														
LC001	**Phase II (F) LCAC SLEP**														
	C4N Suite Upgrade Material	A		1	2,900	2,900									
	C4N Suite Upgrade Installation	A							1,230						
	Hull Enhancements Material	A	775												
	Hull Enhancements Installation	A							1,613						
	LCAC ETF40B Engine Material	A	2,480												
	LCAC Enhanced TF40B Installation	A							233						
	Government Furnished Equip. Material	A	441			81									
	Government Furnished Equip. Installation	A							268						
	Detailed Design	A				842									
	Gov't Eng. & Prog. Supp't	A	614			153			182						
	Phase I LCAC SLEP														
	C4N Suite Upgrade Material	A													
	C4N Suite Upgrade Installation	A													
	Government Furnished Equip. Material	A													
	Government Furnished Equip. Installation	A													
	Gov't Eng. & Prog. Supp't	A													
	LCAC ETF40B Engine Material	A													
	LCAC Enhanced TF40B Installation	A													
	Note:														
	The quantity amount in each case above														
	reflects a shipset of equipment.														
			4,310			**3,976**			**3,526**						

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System LCAC	A. DATE June 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1: SHIPS SUPPORT SYSTEM	C. P-1 ITEM NOMENCLATURE LCAC SLEP / 097000	SUBHEAD 21LC

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 2000										
LC001/Phase II(F)										
C4N Electronic Suite	1	2,931	NAVSEA	06/00	SS/CPAF	TEXTRON, Marine and Land Systems, New Orleans, LA	05/01	05/02	Yes	N/A

D. REMARKS

1. Quantities reflect a shipset of material.
2. Dates slipped 3 months due to 3 month delay in completion of first prototype delivery.

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

MODELS OF SYSTEMS AFFECTED: **ALL Landing Craft Air Cushioned** MODIFICATION TITLE: C4N Replacement

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: **Craft Availability**
ADMINISTRATIVE LEADTIME: Varies PRODUCTION LEADTIME: Varies
CONTRACT DATES: FY 2001: 5/01 FY 2002: FY 2003 10/02
DELIVERY DATE: FY 2001: FY 2002: 5/02 FY 2003

($ in Millions)

Cost:	Prior Years		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005			FY 2006		To Complete		Total	
	Qty	**$**	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$	Qty	$		Qty	$	Qty	$
PRIOR YEARS																				0	0.0
FY 2000 EQUIPMENT					1	3.6														1	3.6
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 2000	FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				TC	
	& 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	1	2	3	4		TOTAL
In	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	30	37
Out	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	33	37

CLASSIFICATION:

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: Landing Craft Air Cushion TYPE MODIFICATION: Craft Availability MODIFICATION TITLE: C4N Replacement

DESCRIPTION/JUSTIFICATION:

Replacement of LCAC C4N equipment
.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT		4.3	1	3.2																	1.0	7.5
EQUIPMENT NONRECURRING				0.8																		0.8
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		0.0			1	3.5															1.0	3.5
TOTAL PROCUREMENT		4.3		4.0		3.5																11.8

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1**							P-1 ITEM NOMENCLATURE **MINESWEEPING EQUIPMENT/BLI #0975**					
Program Element for Code B Items: **0603654N**							Other Related Program Elements **0204228N; 0204302N; 0204424N**					
	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**	**$20.5**	**$16.4**	**$20.2**							
SPARES COST (In Millions)			**$0.4**	**$0.4**	**$0.4**							

BUDGET CONTROLS REFLECT CONSOLIDATION OF SUBHEAD 81GG/BLI 18000 (OTHER PROPULSION EQUIPMENT) AND SUBHEAD 71HZ/BLI 114000 (EOD UNDERWATER EQUIPMENT) WITH SUBHEAD 71UQ/BLI 097500 (MINESWEEPING EQUIPMENT).

Mine Sweeping: This program provides systems, subsystems, and engineering change kits for minesweeping and mine neutralization systems used by the surface MCM force. Systems and equipments are used for magnetic, acoustic, and mechanical type minesweeping systems, plus the AN/SLQ-48 (MNS) for mine neutralization. Engineering change kits improve reliability and maintainability and correct deficiencies to allow equipment to perform in accordance with specified requirements.
Other Propulsion Equipment: Includes Solar Marine Gas Turbine (MGT) Modification Program for improvement to T1302S gas turbine engines used for driving electric pulse generators on MCM Class ships; MCM/MHC Diesel Engine Improvement Program to improve reliability and maintainability of installed MCM and MHC diesel engines; and Integrated Ship Control System (ISCS) to replace the existing MCM Machinery Control System (MCS) and implement condition-based maintenance. Procurement of improved hardware, including modification kits as a result of Product Improvement Programs, is essential for maintaining/increasing engine reliability. Procurement of special tooling and support equipment is required to facilitate incorporation of modifications as well as enable routine and expanded repair of equipment to improve life cycle support. The procurement of technical documentation, e.g., technical manuals, PMS, Level III production drawings, etc., is essential to maintain complete life cycle support for these engines and related equipment.
Underwater EOD Equipment: This program supports Explosive Ordnance Disposal (EOD) Groups, Units and Detachments worldwide. This EOD diving program supplies EOD forces with the necessary diving and diving related equipment to fulfill assigned missions.

UQ014-MAGNETIC SWEEP CABLES: The Magnetic Minesweeping Cables provide MCM-1 Class ships with the capability of magnetic minesweeping. Types of cables currently used are S-3, CL-3, and Q3. New cable assemblies will be procured to phase out obsolete equipment. The new assemblies decrease weight and diameter of the cables, while increasing durability and ease of han The Q-3 will be replaced by a coaxial cable and the CL-3 and S-3 will be replaced by the CA 1452.

UQ015-SOLAR MARINE GAS TURBINE (MGT) MODIFICATION MCM: Provides a standardized engine configuration, introduces reliability/maintainability improvements, and implements an effective Integrated Logistics Support (ILS) program realizing fleet mission readiness improvements while supporting the operation of the Regional Repair Center.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1**	P-1 ITEM NOMENCLATURE **MINESWEEPING EQUIPMENT/BLI #0975**

UQ016-MCM/MHC DIESEL ENGINE PROGRAM: Isotta Fraschini (I-F) diesel engines installed in MCM/MHC class ships have design deficiencies that significantly effect reliability and maintainability, and severely undermine the ability to operate and maintain the ship as designed with reduced manning. This program is critical to correct design deficiencies and improve the Mean-Time-Between-Failure for increased ship operational availability. MCM and MHC class ships are minimally-manned, and four ships have been forward deployed since FY96, providing valuable operational experience for the identification of required system improvements. Increased reliability and maintainability is achieved through the implementation of engineering changes such as MACHALTs and associated engineering; ILS; improved spare parts support; correction of cooling system design deficiencies; improvements to the fuel system, lube oil system, drive train, and main bearings; reduction of sea water corrosion; configuration control, and increased spare parts sourcing/availability. CR & EI funded for MHC Electronic Fuel Injection (EFI) on MHC 51 class main propulsion diesel engines (MPDE's).

UQ017-INTEGRATED SHIP CONTROL SYSTEM (ISCS): Funds the MCM ISCS to implement condition-based maintenance, reduce shipboard preventive maintenance, improve equipment reliability (by detecting changes in equipment performance prior to catastrophic failure), and permit shipboard training, while also replacing the existing MCM Machinery Control System (MCS). The MCS replacement will bring all MCM ships to a common configuration

UQ018-EOD INFLATABLE CRAFT: Provides EOD units with sturdy lightweight, low influence signature improved inflatable craft to support MK 16 diving in an MCM environment.

UQ019-OUTFITTING EOD DETACHMENT: Provides for the outfitting of diving systems/equipment which enhance mission capability for established EOD detachments.

UQ020-VERY SHALLOW WATER MINE COUNTERMEASURES (VSW MCM) INITIAL OUTFITTING: Provides for procurement of equipment and hardware supporting VSW MCM Detachment operations.

UQ021-C4I UPGRADES: Provides for the upgrade of existing EOD Mobile Communication Systems (MCS) to C4I requirements.

UQ022-UNDERWATER ACOUSTIC FIRING SYSTEM: Provides the capability to acoustically actuate an explosive charge from a stand off point to neutralize a mine or activate a lift device. The following DT/OT is completed/scheduled DT IA 09/96 to 03/97; DT IB 6/97 to 8/97; DT IIA 9/00 to 11/00; DT IIB 12/00 to 7/01; DT IIC 10/01 to 2/02; OT 2/02 to 4/02.

UQ023-OBSTACLE AVOIDANCE SONAR: Provides EOD MCM and Area Search detachments with the capability to avoid mines ahead of their small craft during operations within a mine field (formerly Forward Looking Sonar).

UQ024-TRANSITION FROM GASOLINE: Provides for the replacement of current gasoline powered equipment with diesel powered equipment for use by EOD Detachments when deployed shipboard or when transported by aircraft

UQ025-DIVER U/W IMAGING: Provides a next generation replacement for the AN/PQS-2A Sonar which will provide increased accuracy for detection and classification of mine-like objects in reduced visibility. Will also provide diver with an underwater navigation capability. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System Testing Advanced Development Model (ADM) 9/00 to 11/00; Engineering Development Model (EDM) 4/01 to 7/01.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1**	P-1 ITEM NOMENCLATURE **MINESWEEPING EQUIPMENT/BLI #0975**

UQ026-OUTFITTING EOD MOBILE UNIT: Provides for outfitting of diving system equipment which enhance mission capability for established EOD Mobile Units.

UQ027-ADVANCED UNDERWATER BREATHING APPARATUS ENHANCEMENT-Provides for the next generation product improvement of the MK 16 UBA's O2 tolerances to increase diver capability and reduce time on target in the MCM environment.

UQ028-FORCE PROTECTION EQUIPMENT: Provides force protection equipment for sailors to conduct maritime interdiction operations.

UQ029-DYAD MINE COUNTERMEASURES: A device which creates the magnetic signature used to sweep magnetic influence mines.

UQ030-IMPROVED MCM INFLATABLE CRAFT: Provide EOD units with an improved multi-functional, lightweight craft with no magnetic and extremely low acoustic signature to MCM and over-the-horizon operations.

UQ033-EMERGENCY EVACUATION DIVER SYSTEM: Provides a lightweight 2 person portable stretcher that is air transportable for emergency treatment for hyperbaric related illness for embarked organic EOD forces deployed in Naval Task Groups. An Abbreviated Acquisition Program (AAP) with no formal DT/OT required. System testing 12/01 to 7/02.

UQ830-PRODUCTION ENGINEERING: Provides production engineering in support of the above procurements. This includes conduct of first article tests, factory acceptance tests, and other production support efforts directly related to delivery of the hardware. In addition for EOD equipment, review all technical data packages prior to procurement and provide procurement instruction to the procuring activity in support of the EOD unified procurement system.

UQ850-PRODUCT IMPROVEMENT: Engineering servcies to improve EOD Systems/Equipment in production to improve maintainablility, utilize current technology, and decrease cost.

UQ860-ACCEPTANCE, TEST, AND EVALUATION: Test, inspect, and 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.

UQTNG-INITIAL TRAINING: Provide training support packages which include curriculum material and training aids for Underwater EOD/VSW MCM Detachment equipment

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS **P-5**	Weapon System		DATE: **June 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy/BA-1**	ID Code **A**	P-1 ITEM NOMENCLATURE/SUBHEAD **MINESWEEPING EQUIPMENT/BLI #0975**	

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 N85														
UQ014	MAGNETIC SWEEP CABLES	A				675			397						
	CA1452 CABLE									21	109	2,295			
	COAXIAL CABLE									7	314	2,199			
UQ015	SOLAR MGMT MOD PROGRAM	A				351			343			300			
UQ016	MCM/MHC DIESEL ENGINE PROGRAM	A				732			2,440			2,439			
UQ017	INTEGRATED SHIP CONTROL SYS	A				9,233			5,318			4,820			
UQ018	INFLATABLE CRAFT	A		7	59	413	8	60	480						
UQ019	OUTFITTING EOD DET	A		6	329	1,977									
UQ020	VSWMCM INITIAL OUTFITTING	A				1,834			811			1,381			
UQ021	C4I UPGRADES	A				294			286			292			
UQ022	ACOUSTIC FIRING SYSTEMS	B													
UQ023	OBSTACLE AVOIDANCE	A		1	140	140									
UQ024	TRANSISTION FROM GASOLINE	A				884			1,236			524			
UQ025	U/W IMAGING SYSTEM	B								75	41	3,075			
UQ026	OUTFITTING EOD MOBILE UNIT	A							1,656			1,212			
UQ027	ADV UBA ENHANCEMENT	A					300	4	1,200						
UQ028	FORCE PROTECTION EQUIPMENT	A							635						
UQ029	DYAD	A		5	400	2,000									
UQ030	IMPROVED MCM INFLATABLE CRAFT	A													
UQ033	EMERGENCY EVACUATION DIVER SYS	B													
UQ830	PRODUCTION ENGINEERING	A				391			482			304			
UQ850	PRODUCT IMPROVEMENT	A				1,058			600			868			
UQ860	ACCEPTANCE, TEST & EVAL	A				390			289			270			
UQTNG	INITIAL TRAINING					107			264			189			
			0			**20,479**			**16,437**			**20,168**			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		June 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy/BA-1	MINESWEEPING EQUIPMENT/BLI #0975	71UQ

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)										
UQ018	7	59			WR	CINCLANT,VA/SURFPAC,CA	2/00	2/01	YES	
UQ019	6	329			WR	CINCLANT,VA/SURFPAC,CA	2/00	2/01	YES	
UQ023	1	140			WR	NEODTD, IH, MD	2/00	2/01	YES	
UQ029	5	400			WR/RC	CSS, PANAMA CITY, FL	6/00	12/00	YES	
FISCAL YEAR(01)										
UQ018	8	60			WR	CINCLANT,VA/SURFPAC,CA	2/01	2/02	YES	
UQ027	300	4	NAVAIR		SS/FP	CARLETON TECH, INC, NY	6/01	9/01	YES	
FISCAL YEAR(02)										
UQ014										
Coaxial Cable	7	314	NAVSEA		SS/FP	COGENT DEF. SYS, UK	1/02	7/02	YES	
CA1452 Cable	21	109	NAVSEA		SS/FP	COGENT DEF. SYS, UK	1/02	7/02	YES	
UQ025	75	41	NSWCIHD, IH, MD		TBD	TBD	3/02	7/02	NO	8/01

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE

P-23 ISCS (UQ017)

A. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy**

B. P-1 ITEM NOMENCLATURE: **MINESWEEPING EQUIP/BLI #0975**

C. DATE: **Jun-01**

		FY 2000				FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2005				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	MCM Ships (P)		1	2	1																									
RESERVE SHIPS	MCM Ships (P)					1		1		1	1																			
SCHOOLS/OTHER TRAINING	(P)																													
OTHER	(P)																													
TOTAL PHASED REQ	(C)	6	7	9	10	11	11	12	12	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
ASSETS ON HAND	(BP)	6																												
DELIVERY FY 99 & PRIOR	(P)																													
FY 99 & PRIOR	(P)																													
FY 00 SS OPN	(P)		1	2	1																									
FY 01 OPN	(P)					1		1																						
FY 02 OPN	(P)									1	1																			
FY 03	(P)																													
FY 04	(P)																													
FY 05	(P)																													
FY 06	(P)																													
To Complete	(P)																													
TOTAL ASSETS	(C)	6	7	9	10	11	11	12	12	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

D. REMARKS

E. RQMT (QTY)	TOTAL RQMT	INSTALLED	ON HAND AS OF 9 /30 /99	FY 98 & PRIOR UNDELIVERED	UNFUNDED
1. APPN - 1810 (OPN)	14	6	6	0	
2. APPN -					

3. PROCUREMENT LEADTIME	ADMIN	INITIAL ORDER	REORDER

DD for 2447, JUN 86

P-1 SHOPPING LIST

ITEM NO 15 PAGE NO 6

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A ISCS (UQ017)	P-1 ITEM NOMENCLATURE/PROJECT UNIT: MINESWEEPING EQUIP/BLI #0975	DATE: Jun-01

APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy	Installing Agent: Naval Surface Warfare Center, Carderock Division - Philadelphia

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 1999								FY 2000							
MCM 11	1	MCM 9 MCM 13	1 1			MCM 12	1			MCM 14	1	MCM 5 MCM 7	1 1	MCM 10	1
FY 2001								FY 2002							
MCM 3	1			MCM 4	1			MCM 2	1	MCM 1	1				

P-1 SHOPPING LIST ITEM NO. 15 PAGE NO. 7

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: May 2001					
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**							P-1 ITEM NOMENCLATURE ITEMS UNDER $5 MILLION (81LT) (0981)					
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)			**$125.1**	**$64.9**	**$79.3**							
SPARES COST (In Millions)												

PROGRAM DESCRIPTION/JUSTIFICATION

This request provides support for all "S" cognizance equipment for submarines, surface ships, and aircraft carriers which are not in any specific category. These components will be used to accomplish both shipyard/Type Commander (TYCOM) alterations, fill Fleet requisitions from casualties, attrition, etc. as well as procure allowance items as required by the Consolidated Shipboard Allowance List (CSAL). A list of these items is provided below. This category purchases and installs various machinery pumps, generators, ships propellers and shafts, and steam propulsion items. Also included in this category are the Integrated Condition Assessment System (ICAS) and Smart Ship Initiatives. Additional explanatory notes are provided at the end of this section.

LT010 - LANDING CRAFT AIR CUSHION (LCAC) - This line will fund material procurement and SHIPALT installation and design for the LCAC Fleet Modernization Program (FMP). Funds in this line are for modifications on the craft to enhance military capabilities directed by CNO or technical characteristics when warranted by reason of safety, reliability and/or cost effectiveness. Advanced technology used in LCAC demands constant and continual modifications to ensure proper mission performance and maintain craft configuration to those new craft. In addition, funding will also support modification on two Full Mission Trainers (FMT).

LT020 - SUPPORTING ARMS COORDINATION CENTER (SACC) AUTOMATION - The SACC initiative will automate the communications and data flow for fire and supporting arms for marine forces ashore. This effort will convert the current manual and voice accomplished process. It will also provide interface with the Advance Combat Direction System (ACDS) which brings the automated functions of supporting arms into the coherent tactical picture. The procurement items are jam boxes, Automated Distribution Network Systems (ADNS), and racks.

LT030 - LHA MIDLIFE UPGRADE - This program supports material procurement and installation of engineering solutions developed as part of the LHA Mid-Life Maintenance Upgrade Program. This program is a joint OPNAV, CINCLANTFLT, SURFLANT, CINCPACFLT, and SURFPAC initiative to resolve maintenance deficiencies, increase readiness and reduce future maintenance costs enabling the ships to reach their service life. Upgrades include: CHT Systems Upgrades, Star Rotary Compressors, and 300 Ton A/C Plant, Reverse Osmosis Desalination units, and the boiler desuperheater.

LT040 - AEC (ASSESSMENT OF EQUIPMENT CONDITION) - This supports the implementation of Condition Based Maintenance (CBM) by providing work package validation for HM&E systems, pre-deployment HM&E systems condition assessment, OJT and repair assistance to ships during TYCOMs TARGET process. These funds are for the outfitting and periodic replacement of the AEC team's Test Measurement and Diagnostic Equipment (TMDE) inventories, provide deckplate diagnostic capability to improve the quality of AEC process and products and to leverage technology to streamline the visit process.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: **May 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE ITEMS UNDER $5 MILLION (81LT) (0981)

LT050 - COMMAND AND CONTROL UPGRADES - Modifications to provide enhancements for Fleet Commanders and embarked staff. The Navy has four flagships or command ships; one for each of the three numbered fleets and one for the Middle East Forces in the Persian Gulf. These ships serve as headquarters for the numbered fleet commanders and provide extensive communications, support and berthing for embarked staff. Their mission is to provide support for command and control centers.

Commander, Second Fleet	USS MOUNT WHITNEY (LCC 20)
Commander, Third Fleet	USS CORONADO (AGF 11)
Commander, Sixth Fleet	USS LASALLE (AGF 3)
Commander, Seventh Fleet	USS BLUE RIDGE (LCC 19)

LT060 - MACHALTs - The Machinery Alteration Program (MACHALT) is a program that permits changes to HM&E equipment and systems where the changes are contained within the boundaries of the individual equipment of systems and have limited system ramifications.

LT830 - PRODUCTION ENGINEERING - The review and approval of any production contract technical documentation, or the separate development of this documentation to include: Technical Manuals, Planned Maintenance System (PMS), Level III Production Drawings, Provisioning Technical Documentation (PTD), Program Support Data (PSD), and Allowance Parts List (APL); engineering support for final design reviews.

LT080 - 363 TON AIR CONDITIONING (A/C) UNIT - This program procures and installs Air Conditioning Plants on CVN-68 Class.

LT110- VARIOUS PROPELLERS AND SHAFTS - DDG 51 CL: (a) BLADE SET, PORT/STBD, (b) HUB SET PORT/STBD, (c) PROP SHAFT, (d) STERN TUBE SHAFTS, AND (e) OD BOXES PORT/STBD; CG-47 CL: (a) OD BOXES PORT/STBD; CG66-73 CL: (a) HUB SET PORT/STBD AND (b) OD BOXES PORT/STBD.

LT120 - PROPULSION PLANT INSPECTION TOOLING - Funds will be utilized to procure latest technology inspection system tooling, i.e., laser-optic, ultrasonic, fiber-optic and electro-optic inspection systems.

LT130 - STEAM PROPULSION ITEMS - This provides for several initiatives oriented to upgrading boiler efficiency and safety with downstream maintenance effectiveness. In particular, the items procured include GIS Safety Valves, Compact Water Jet Units, Low Level Conductivity Meters, WMB Recirculating Pump Improvement Items, Hydrostatic Tube Kits, and Chloride Meters.

LT140 - SMART SHIP - This provides for the procurement and installation of proven initiatives into several Navy ship classes including LSD 41/49, LHA1, and Aircraft Carriers. The Carrier initiatives include the installation of core Smart Carrier technologies, such as Smart Card, Wireless Communication System Upgrade, Digital Physical Security System Upgrade, Advanced Damage Control System, Network Infrastructure Upgrade and Advanced Vent/Filter Cleaning System. For the LSD Class the focus is on the HYDRA system. HYDRA is chiefly the wireless internal communication system (WICS) which will reduce the need for dedicated phone talkers while providing improved perfomance in flight deck, well deck, and damange control operations. The goal of the Smart Ship effort is to evaluate and select solutions which demonstrate major workload reductions while maintaining or improving readiness. Lessons learned and technology previously demonstrated on ships such as the CG 47 and the LSD 47 have confirmed the value and applicability of Smart Ship Technologies and will result in future life cycle cost avoidance in manpower and ship maintenance.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: **May 2001**
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY**	P-1 ITEM NOMENCLATURE ITEMS UNDER $5 MILLION (81LT) (0981)

LT150 - INTEGRATED CONDITION ASSESSMENT SYSTEM (ICAS) - This provides for ICAS procurement and installation in a variety of amphibious and surface combatants and aircraft carriers. ICAS is an installed, state of the art, automated system which can analyze hundreds of sensor inputs continuously. The heart of ICAS is the Machinery Work Station (MWS) which is an integrated software program. The MWS is a collection of electronic programs coupled to form the basis of a Condition Based Monitoring System (CBMS). MWS integrates measurement tools, performance analysis tools, and an expert inference image within a single integrated software package. The MWS is configurable to meet the maintenance needs of a wide variety of machinery and systems commonly found onboard Naval vessels. Much of the MWS' effectiveness is derived from its ability to measure and analyze maintenance information while operating from a single, configuration driven software shell. The ship classes scheduled to undergo the ICAS effort include: DD 963, FFG 7, LCC, AGF, LHA 1, LHD 1, AOE, and CV/CVN.

LT160 - MACHINERY PLANT UPGRADES (ICAN)- ICAN provides core infrastructure (node rooms, air blown fiber optic cable plant, network services) for integrating voice, video and data systems. This capability is easily upgradable for rapid and cost effective expansion to support new technologies, such as IT-21, and is compatible with the Navy integrated Information Netw MOA.

LT200 - WATER TIGHT DOORS - This effort addresses the high priority damage control deficiency and high maintenance costs related to watertight doors, chiefly on surface combatants. Problems include hinge strength and galvanic corrosion with aluminum doors, as well as hinge and sleeve upgrades. Procurements will include both aluminum doors, and hinge and sleeve upgrades.

LT210 - AOE CLASS UPGRADES- This effort consists of the procurement and installation of Forced Draft Blower (FDB) Controls, Boiler Feedwater Evaporators, and a Stern Embarkation Platform. (Boiler Feedwater Evaporators): The effort will buy and install 2 shipsets of new evaporators which will markedly reduce maintenance costs. The evaporators distill seawater to fresh water for personnel and feedwater for the boilers. (Stern Embarkation Platform): This effort will procure and install an embarkation platform on the stern of the ship. The platform accompanying ladder are used for moving personnel and cargo to and from the ship. The current accommodation ladders on the ship sides are exposed to seas and have been very dangerous to personnel. This alteration will increase personnel safety as well as reduce maintenance costs. (Forced Draft Blower , FDB, Controls Upgrade): This effort will buy and install new controls and tachometers for the FDBs.

LT220 - ENVIRONMENTALLY CONTROLLED UNATTENDED PAINT REMOVAL AND APPLICATION SYSTEM (ECUPRAS)- The ECUPRAS is a remotely controlled system that uses robotics, artificial intelligence and 3-D digital imagining technologies to greatly enhance the ship paint removal and painting process. It is designed to augment the current manual and environmentally hazardous process of paint removal and application used on ships.

LT5IN, LT6IN, LT8IN- INSTALLATION OF EQUIPMENT -Funding is for installation of equipment including Fleet Modernization Program (FMP) Installation.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY	P-1 ITEM NOMENCLATURE ITEMS UNDER $5 MILLION (81LT) (0981)

Explanatory Notes:

VARIOUS "S" COGNIZANCE SHIPS PROPELLERS AND SHAFTS which are not listed as separate P-1 Items. A malfunctioning propeller or shaft can result in excessive vibration, noise, loss of speed or possible loss of motion. In addition, these items are susceptible to damage, have long repair lead time, and due to their increased size and weight, are becoming more difficult to transp is mandatory to store propellers/shafts at sufficient locations to avoid delaying ship's deployments. It should be noted that in addition to new propellers and shafts required to support active fleet planning for spares to support ship classes still under construction such as CG-47 and AOE-6 and new ship classes being introduced such as DDG-51, must be accommodated. These propellers and shafts can be installed during drydocking, Selected Restricted Availability or Regular Overhaul and in the event of a casualty, propellers can be waterborne installed alongside a tender.

The Inventory Objective (I.O.) for propellers and shafts is a numerical quantity referred to as the "Maintenance Stock Objectives" (MSO). The MSO is a numerical quantity established for each propeller and shaft after considering: (1) the average annual demand, (2) Repair lead time, (3) safety level or the quantity required to be on hand to support unpredictable fluctuations in demand or delays in the normal refit cycle, (4) transportability considerations, and (5) Type Commanders review and recommendations. For ships entering the Fleet from the shipbuilding programs, the I.O.'s annual demand is based upon experience with similar type propellers and shafts for which supply/demand experience has been gained.

VARIOUS STEAM PROPULSION EFFORTS - The Steam Propulsion Improvement Program provides for ship movement through the water and in addition provides power to ships combat and habitability systems, whether electrical or steam dependent. At any given time, due to propulsion plant casualties ship propulsion systems may be operating at reduced capability, adversely affecting the ship's mission(s). The Steam Propulsion Improvement program encompasses steam and diesel propulsion surface ships in the fleet, and provides for material upgrades to propulsion systems resulting in increased readiness, safety and reliability. Items can be installed during a Regular Overhaul (ROH), Selected Restricted Availability (SRA), Restricted availability by a shipyard, tender/Intermediate Maintenance Activity or Alteration Installation Team (AIT).

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **May 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ITEMS UNDER $5 MILLION (81LT) (0981)	

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
	EXPEDITIONARY WARFARE														
LT010	MOD KITS LAND CRAFT CUSHION	A				1,066			100			622			
LT020	SACC AUTOMATION											346			
LT030	**MIDLIFE UPGRADE**														
	REVERSE OSMOSIS	A		12	392	4,701									
	UPGRADE CHT SYSTEMS	A		1	484	484									
	STAR ROTARY COMPRESSORS	A		4	233	930									
	300 TON AC PLANTS	A		1	953	953									
	FLUID SYSTEMS IMPROVEMENT	A								n/a		180			
	BOILER LOW PROFILE DESUPERHTRS			6	89	533									
	SUBTOTAL					**$7,601**			**$0**			**$180**			
	SURFACE														
LT040	AEC	A				730						345			
LT050	**COMMAND & CONTROL UPGRADE**														
	GENERATORS (1200 kw)			2	668	1,335									
	GENERATORS (2000 kw)			2	1,197	2,395									
	A/C PLANTS (125 TON)			1	140	140									
	LPAC (LOW PRESS AIR COMP)(LCC19)			3	204	611									
	SSM-6 DEGAUSSING SYSTEMS			2	260	521									
	SOLID STATE FREQ CONV (SSFC)														
	SUBTOTAL					**$5,002**			**$0**			**$0**			
LT060	MACHALTS	A				7,460			127			2,144			
LT110	**PROPELLERS AND SHAFTS**														
	BLADE SET PORT/STBD, DDG-51 CL	A													
	HUB SET PORT/STBD, DDG-51 CL	A		1	823	823									

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD: ITEMS UNDER $5 MILLION (81LT) (0981)	

TOTAL COST IN THOUSANDS OF DOLLARS

COST CODE	ELEMENT OF COST	ID Code	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
LT110	**PROPELLERS AND SHAFTS**														
	HUB SET PORT/STBD, CG 66-73	A		1	798	798									
	PROP SHAFT DDG-51 CL	A													
	OD BOXES CG47 CL			1	188	188									
	OD BOXES DDG51-CL			2	237	473									
	OD BOXES CG 66-73 CL			1	222	222									
	SUBTOTAL					**$2,504**			**$0**			**$0**			
LT120	PROPULSION PLANT INSPECTION	A				29			17			30			
LT130	STEAM PROPULSION ITEMS			10	72	721									
LT200	WATER TIGHT DOORS					3,137									
LT830	PRODUCTION ENGINEERING/HM&E	A				209			187			222			
	PRODUCTION ENGINEERING/Prop. Surf	A				6			5			10			
	PRODUCTION ENGINEERING/Props&Shafts	A				97						34			
	AIRCRAFT CARRIERS														
	PRODUCTION ENGINEERING/Props CV					97			82			24			
	SUBTOTAL (PROD ENG)					**$409**			**$274**			**$290**			
LT080	363 TON A/C PLANT	A		2	1,038	2,075	3	1,085	3,255	1	1,143	1,143			
LT120	PROPULSION PLANT INSPECTION	A				143			155			126			
LT160	MACHINERY PLANT UPGRADES	A								2	2,600	5,200			
LT220	UNATTENDED PAINT REMOVAL SYS						2	1,000	2,000						
	SUBTOTAL					**$2,218**			**$5,410**			**$6,469**			

WEAPONS SYSTEM COST ANALYSIS P-5			Weapon System												DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**			ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ITEMS UNDER $5 MILLION (81LT) (0981)											
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
LT210	**AOE CLASS UPGRADES**														
	BOILER FEEDWATER EVAP UPGR									4	560	2,240			
	EMBARKATION PLATFORM									1	600	600			
	FORCED DRAFT BLOWER UPGR \3_											277			
	SUBTOTAL					**$0**			**$0**			**$3,117**			
LT140	**SMART SHIP**														
	AMPHIBIOUS SHIP \1_					19,961			8,955						
	CARRIERS									1		39,085			
	SUBTOTAL					**$19,961**			**$8,728**			**$39,085**			
LT150	**ICAS**														
	AMPHIBIOUS/MINE SHIPS \2_			9	660	5,941	1	950	950						
	SURFACE SHIPS			11	752	8,272	4	763	3,050						
	CARRIERS			2	3,059	6,119	2	2,764	5,528						
	UNREPLENISHMENT SHIPS			3	1,250	3,750	3	1,557	4,543						
	SUBTOTAL					**$24,082**			**$14,071**			**$0**			
	TOTAL EQUIPMENT					**$74,920**			**$28,727**			**$52,628**			
LT4IN	INSTALL OF EQUIPMENT-UNREP											1,536			
LT5IN	INSTALL OF EQUIPMENT-AMPHIB					19,380			20,302			1,070			
LT6IN	INSTALL OF EQUIPMENT-SURFACE					17,091			89			903			
LT8IN	INSTALL OF EQUIPMENT -CARRIERS					13,713			15,826			23,148			
	TOTAL INSTALLATION					**$50,184**			**$36,217**			**$26,657**			
						125,104			**64,944**			**79,285**			**0**

DD FORM 2446, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

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UNCLASSIFIED

\1_ Installations on ships will be coordinated with CNO availability schedule and ship operational schedules.
\2_ MHC ships (12) are not counted, dollars are included (ICAS upgrades accomplished based on ships' schedules).
\3_ Procurement consists of control system and tachometer

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | A. DATE: May 2001

B. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy**

C. P-1 ITEM NOMENCLATURE: **ITEMS UNDER $5 MILLION** | 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
FY 00										
LT030										
REVERSE OSMOSIS	12	392	NAVSEA		OPT	VILLAGE MARINE	Dec-99	Oct-00	N/A	
STAR ROTARY	4	233	NAVSEA		OPT	RIX INDUSTRIES	Jun-00	Sep-01	YES	
300 TON AC PLANTS	1	953	NAVSEA		CFP	YORK INT, YORK PA	Dec-99	Mar-01	YES	
UPGRADE CHT SYSTEM	1	484	NAVSEA		WR	NSY PUGET/NORFOLK	Apr-00	Oct-00	YES	
BOILER DESUPERHEATER	6	89	NSWC,C PHILA		RCP/OPT	ABB COMBUSTION WINDSOR CT	Apr-00	Sep-00	YES	
LT050										
GENERATORS (1200kw)	2	668	NAVSEA		RFP	NATIONAL ELECT SYS	Dec-99	Sep-00	YES	
A/C PLANTS (125 TON)	1	140	NAVICP		PO	NAVICP (SF UNIT)	Mar-00	Jun-00	YES	
SSM-6 DEGAUSSING SYS	2	260	NSWC,C PHILA		RCP	LOUIS-ALLIS POWER	Apr-00	Jul-00	YES	
GENERATORS (2000kw)	2	1,197	NAVSEA		RFP	TBD	Aug-01	Nov-02	YES	
LPAC	3	204	NAVSEA		RFP	TBD	Apr-01	Feb-02	YES	
LT080										
363 TON A/C PLANTS	2	1,038	NAVSEA		OPT	YORK INT, YORK PA	Mar-00	Jun-01	YES	
LT110										
(HUB SETS PORT/STBD)										
DDG-51 CL	1	823	NAVICP MECH		RCP/FP	BIRD-JOHNSON WALPOLE, MA	Jan-00	Jan-02	YES	
CG 66-73 CL	1	798	NAVICP MECH		RCP/FP	TBD	Sep-00	Sep-02	YES	
(OD BOXES)										
CG-47 CL	1	188	NAVICP MECH		RCP/FP	TBD	Jul-00	Jul-02	YES	
DDG-51 CL	2	237	NAVICP MECH		RCP/FP	TBD	Jul-00	Jul-02	YES	
CG 66-73 CL	1	222	NAVICP MECH		RCP/FP	TBD	Jul-00	Jul-02	YES	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE May 2001
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy	C. P-1 ITEM NOMENCLATURE: ITEMS UNDER $5 MILLION	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
FY 00 (cont'd)										
LT130										
STEAM PROPULSION	10	72	NWSC,C PHILA		WR/RCP	NSWC,C PHIL, PA	VAR	VAR	YES	
LT140										
SMART SHIP LSD41/49	\3_	19,961	NAVSEA		FP	ERICSSON LYNCHBURG, VA	Jun-00	Dec-00	\1_	
LT150 ICAS										
AMPHIB SHIPS	9	660	NWSC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Apr-00	May-00	\2_	
SURFACE SHIPS	11	752	NWSC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Apr-00	May-00	\2_	
CARRIERS	2	3,059	NWSC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Apr-00	May-00	\2_	
UNREP SHIPS	3	1,250	NWSC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Feb-00	Mar-00	\2_	

D. REMARKS

\1_ First delivery.

\2_ Effort is both material procurement and labor (short-lead time items have a one-to-two month turnaround). Work is proceeding on some ships anticipating the arrival of this material

\3_ HYDRA and Digital Control Sys will installed on all LSDs over 2-year period

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE May 2001
B. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy	C. P-1 ITEM NOMENCLATURE: ITEMS UNDER $5 MILLION	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
FY 01										
LT080										
363 TON A/C PLANTS	3	1,085	NAVSEA		OPT	YORK INT, YORK, PA	Mar-01	Jun-02	YES	
LT140 SMART SHIP										
LSD41/49	\2_	8,955	NAVSEA		OPT/CP	ERICSSON LYNCHBURG, VA	Dec-00	Feb-01		
LT150 ICAS										
AMPHIB SHIPS	1	950	NSWC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Nov-00	Dec-00	\1_	
SURFACE COMBATANTS	4	763	NSWC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Nov-00	Dec-00	\1_	
CARRIERS	2	2,764	NSWC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Nov-00	Dec-00	\1_	
UNREP SHIPS	3	1,557	NSWC,C PHILA		RCP/CPFF	IDAX CORP, NORFOLK, VA	Nov-00	Dec-00	\1_	
LT 220										
UNATTENDED PAINT REMOVAL SYS	2	1,000	NAVSEA		FP	SPATIAL INTEG SYS, ROCKVILLE, MD PENTEK, PITTSBURGH, PA	Mar-01	Dec-01	YES	

D. REMARKS

\1_ Effort is both material procurement and labor (short-lead time items have one (1) month turnaround).
\2_ HYDRA and Digital Control Sys will installed on all LSDs over 2-year period

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | **A. DATE** May 2001

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Navy

C. P-1 ITEM NOMENCLATURE
ITEMS UNDER $5 MILLION

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
FY 02										
LT080										
363 TON A/C PLANTS	1	1,143	NAVSEA		OPT	YORK INT, YORK, PA	Dec-01	Mar-03		
LT160										
MACH PLANT UPGR	2	2,600	NAVSEA		TBD	TBD	Dec-01	\2_		
LT140 SMART SHIP \1_										
CARRIERS	1	39,478	NAVSEA		VARIOUS	VARIOUS	Dec-01	Feb-02		
LT210										
BOILER FEEDWTR EVAP	4	560	SOSPORT		FFP	TBD	Nov-01	Feb-02		
EMBARK PLATFORM	1	600	SOSPUGET SOUND		FFP	NAVAL IMPIANTE, ITALY	Nov-01	May-02		

D. REMARKS

\1_ For SMART SHIP, quantities represent ship installations.

\2_ For Mach Plant Upgr, delivery of items vary from short term (6 weeks) up to several months.

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: STAR ROTARY (LHA MIDLIFE UPGRADE) (LT030) #831 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	12	3.0	4	0.9																	16	3.9
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	8	2.2	4	1.1	4	1.3															16	4.6
TOTAL PROCUREMENT		5.2		2.0		1.3		0.0		0.0		0.0		0.0		0.0		0.0				8.5

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

MODELS OF SYSTEMS AFFECTED: STAR ROTARY (LHA MIDLIFE UPGRADE) (LT030) #831 MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD/COMP
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 15 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	8	2.2	4	1.0																	12	3.2
FY 2000 EQUIPMENT			AP	0.1	4	1.3															4	1.4
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																						

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	12	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Out	12	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: BALLAST/DEBALLAST (LHA MIDLIFE UPGRADE)(LT030) AIT TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	10	2.0																			10	2.0
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	8	1.8	2	0.3																	10	2.1
TOTAL PROCUREMENT		3.8		0.3		0.0		0.0		0.0		0.0		0.0		0.0		0.0				4.1

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

MODELS OF SYSTEMS AFFECTED: BALLAST/DEBALLAST (LHA MIDLIFE UPG) (LT030) AIT MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	8	1.8	2	0.3																	10	2.1
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																						

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	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Out	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 300 TON A/C (LHA MIDLIFE UPGRADE) (LT030) #418 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	4	4.3	1	1.0																	5	5.3
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	2	13.2	1	5.5	2	9.6															5	28.3
TOTAL PROCUREMENT		17.5		6.5		9.6		0.0		0.0		0.0		0.0		0.0		0.0				33.6

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

MODELS OF SYSTEMS AFFECTED: 300 TON A/C (LHA MIDLIFE UPGRADE) (LT030) #418 MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD/COMP
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 15 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	2	13.2	1	4.2	1	4.2															4	21.6
FY 2000 EQUIPMENT			AP	1.3	1	5.4															1	6.7
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																						

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	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Out	3	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 363 TON AIR CONDITIONER (LT080) VARIOUS S/A TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

The air conditioning plants provide cooling to the chilled water system which is a vital system supporting and the ships critical offensive, and defensive electronic systems. Lack of a continuous supply of chilled water to these vital systems has a serious effect on mission capability. The chilled water demand on aircraft carriers has grown as a result of installation of numerous electronic systems.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	16	14.8	2	2.1	3	3.3	1	1.1	1	1.2											23	22.5
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	13	72.9	2	12.7	2	15.2	1	16.2	3	24.5	1	8.9	1	13.1							23	163.5
TOTAL PROCUREMENT		87.7		14.8		18.5		17.3		25.7		8.9		13.1		0.0		0.0				186.0

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

MODELS OF SYSTEMS AFFECTED: 363 TON A/C (LT080) CVN (LT080) VARIOUS S/A

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD/COMP
ADMINISTRATIVE LEADTIME: 12 Months PRODUCTION LEADTIME: 15 Months
CONTRACT DATES: FY 2001: 3/01 FY 2002: 12/01 FY 2003:
DELIVERY DATE: FY 2001: 6/02 FY 2002: 3/03 FY 2003:

($ 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	13	72.9	2	12.4	1	4.1															16	89.4
FY 2000 EQUIPMENT			AP	0.3	1	9.9	1	13.8													2	24.0
FY 2001 EQUIPMENT					AP	1.2	AP	1.9	3*	23.7											3	26.8
FY 2002 EQUIPMENT							AP	0.5	AP	0.2	1	7.5									1	8.2
FY 2003 EQUIPMENT									AP	0.6	AP	1.4	1	13.1							1	15.1
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																						

*Two plant installs on CV67; one plant install on CVN75

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	15	1	0	0	1	0	0	1	0	2	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	23
Out	15	0	0	1	0	0	1	0	0	1	0	0	0	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	23

NEED INSTALL DATE

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: REV OSMOSIS (LHA MIDLIFE UPGRADE) LT030 #834 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	8	3.2	12	4.7																	20	7.9
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	4	1.2	4	1.5	12	3.2															20	5.9
TOTAL PROCUREMENT		4.4		6.2		3.2		0.0		0.0		0		0.0		0.0		0.0				13.8

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

MODELS OF SYSTEMS AFFECTED: REV OSMOSIS (LHA MIDLIFE UPGRADE) (LT030) #834

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD/COMP
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 10 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	4	1.2	4	1.0																	8	2.2
FY 2000 EQUIPMENT			AP	0.5	12	3.2															12	3.7
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																						

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	8	0	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Out	8	0	0	8	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20

P-3A

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: CHT UPGRADE (LHA MIDLIFE UPGRADE) (LT030) #942 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	3	1.5	1	0.5																	4	2.0
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	2	12.4	1	4.0	1	4.0															4	20.4
TOTAL PROCUREMENT		13.9		4.5		4.0		0.0		0.0		0.0		0.0		0.0		0.0				22.4

P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)** 2

MODELS OF SYSTEMS AFFECTED: CHT UPGRADE (LHA UPGRADE) (LT030) #942 MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD/COMP
ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 6 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	2	12.4	1	3.7																	3	16.1
FY 2000 EQUIPMENT			AP	0.3	1	4.0															1	4.3
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																						

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	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

P-3A

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: COMMAND/CONTROL UPG (250 TON A/C) LT050 #1179/1180 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	4	3.5									4	4.3									8	7.8
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	4	11.6							A/P	0.4	A/P	1.2	4	9.8							8	23.0
TOTAL PROCUREMENT		15.1		0.0		0.0		0.0		0.4		5.5		9.8		0.0		0.0				30.8

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

MODELS OF SYSTEMS AFFECTED: COMMAND/CONTROL UPG (250 TON A/C) (LT050) #1179/1180

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: SHIPYD/COMP

ADMINISTRATIVE LEADTIME: 9 Months PRODUCTION LEADTIME: 12 Months

CONTRACT DATES: FY 2001: FY 2002: FY 2003:

DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	4	11.6																			4	11.6
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									AP	0.4	AP	1.2	4	9.8							4	11.4
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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	8
Out	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	8

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LPAC (LT050) LCC/AGF CL #1325/5198 AND AIT TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			3	0.6							7	1.6									10	2.2
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					AP	0.012	AP	0.1	3	1.1	AP	0.2	7	3.1							10	4.5
TOTAL PROCUREMENT		0.0		0.6		0.012		0.1		1.1		1.8		3.1		0.0		0.0				6.7

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

MODELS OF SYSTEMS AFFECTED: LPAC (LT050) #1325/#5198 and AIT MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD AND AIT
ADMINISTRATIVE LEADTIME: 6 Months PRODUCTION LEADTIME: 10 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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					AP	0.012	AP	0.1	3	1.0											3	1.1
FY 2001 EQUIPMENT																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT									AP	0.1	AP	0.2	7	3.1							7	3.4
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	0	0	0	0	0	3	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	10
Out	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	3	2	0	0	0	0	0	0	0	0	0	10

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: ICAN CVN CLASS (AIT) MACHINERY PLANT UPGRADE(LT160) TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING							2	5.2	1	3.0	2	3.0	2	3.0	2	3.0					9	17.2
EQUIPMENT																					0	0.0
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					A/P	0.6	1	6.5	1	5.9	1	7.0	1	7.3	2	13.7	3	19.5			9	60.5
TOTAL PROCUREMENT		0.0		0.0		0.6		11.7		8.9		10.0		10.3		16.7		19.5				77.7

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

MODELS OF SYSTEMS AFFECTED: ICAN CVN CL (AIT) MODIFICATION TITLE: ITEMS UNDER 5M
MACHINERY PLANT UPGRADE

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months
CONTRACT DATES: FY 2001: FY 2002: 12/01 FY 2003:
DELIVERY DATE: FY 2001: FY 2002: Various FY 2003:

($ 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					AP	0.6	1	6.5	1	5.3											2	12.4
FY 2003 EQUIPMENT							A		AP	0.6	1	6.4									1	7.0
FY 2004 EQUIPMENT											AP	0.6	1	6.7	1	6.0					2	13.3
FY 2005 EQUIPMENT													AP	0.6	1	6.4	1	6.6			2	13.6
FY 2006 EQUIPMENT															AP	1.3	2	12.9			2	14.2
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	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	1	1	0	0	2	0	1	0	9
Out	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	0	1	0	1	2	9

P-3A

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 2000 GPM FIRE PUMP
LHA MIDLIFE UPGRADE #709

TYPE MODIFICATION:

MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

One ship set equals two units
The ship set procured in FY1997 was provided to the Fleet as a repair/replacement unit.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT (see explanation)	2	0.4																			2	0.4
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			1	0.2																	1	0.2
TOTAL PROCUREMENT		0.4		0.2		0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.6

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

MODELS OF SYSTEMS AFFECTED: 2000 GPM FIRE PUMP
LHA MIDLIFE UPGRADE #709

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: 5 Months PRODUCTION LEADTIME: 12 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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			1	0.2																	1	0.2
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																						

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SOLID STATE FREQUENCY CHANGERS TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M
LHA AND C&C SHIPS (LT050) s/a #00856/01332

DESCRIPTION/JUSTIFICATION:

Solid frequency Changers priority #20C.
One ship set equals 3 units.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	4	0.4							2	0.2	2	0.2									8	0.8
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	3	1.0	1	0.4			AP	0.1	2	0.9	AP	0.1	2	0.7							8	3.2
TOTAL PROCUREMENT		1.4		0.4		0.0		0.1		1.1		0.3		0.7		0.0		0.0				4.0

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

MODELS OF SYSTEMS AFFECTED: SOLID STATE FREQUENCY CHANGERS MODIFICATION TITLE: ITEMS UNDER 5M
LHA and C&C SHIPS (LT030) s/a #00856/01332

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD/AIT
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	3	1.0	1	0.4																	4	1.4
FY 2000 EQUIPMENT																					0	0.0
FY 2001 EQUIPMENT																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT							AP	0.1	2	0.9											2	1.0
FY 2004 EQUIPMENT									AP	0.040	AP	0.049	2	0.7							2	0.8
FY 2005 EQUIPMENT																					0	0.0
FY 2006 EQUIPMENT																					0	0.0
FY 2007 EQUIPMENT																					0	0.0
TO COMPLETE																						3.2

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	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	8
Out	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	8

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 1200KW GENERATORS AIT C&C SHIPS (LT050) #5071/5072 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

Relieves shortage of available power.

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	2	1.7	2	1.3																	4	3.0
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	2	15.2	2	8.5																	4	23.7
TOTAL PROCUREMENT		16.9		9.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0				26.7

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

MODELS OF SYSTEMS AFFECTED: 1200KW GENERATORS AIT
C&C SHIPS #5071/5072

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 9 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	2	15.2																			2	15.2
FY 2000 EQUIPMENT			2	8.5																	2	8.5
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																						

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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: LHA MID LIFE DESUPERHEATER LT030 #660 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

The capability to quickly plug a lacking tube is vital for meeting commitments. A new desuperheater has been designed that permits access. Installation of this ShipAlt will also help resolve water drum blind Flange leakage which has occurred on various LHA.
I/O

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT	4	0.6	6	0.5																	10	1.1
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	2	0.1	2	0.1	6	0.1															10	0.3
TOTAL PROCUREMENT		0.7		0.6		0.1		0.0		0.0		0.0		0.0		0.0		0.0				1.4

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

MODELS OF SYSTEMS AFFECTED: LHA MID DESUPERHEATER (LT030) #660 MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYD
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 5 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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	2	0.1	2	0.028																	4	0.128
FY 2000 EQUIPMENT			AP	0.023	6	0.1															6	0.123
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																						

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	4	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Out	4	0	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 125 TON AIR CONDITIONER (LT050) S/A 05077/05177 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			1	0.1							2	0.8									3	0.9
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			1	2.6					AP	0.1	AP	0.4	2	3.1							3	6.2
TOTAL PROCUREMENT		0.0		2.7		0.0		0.0		0.1		1.2		3.1		0.0		0.0				7.1

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

MODELS OF SYSTEMS AFFECTED: 125 TON A/C
S/A 05077/05177

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD/AIT
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 6 months (FY00 unit supply system spare)
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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
FY 2000 EQUIPMENT			1	2.6																	1	2.6
FY 2001 EQUIPMENT																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT																					0	0.0
FY 2004 EQUIPMENT									AP	0.1	AP	0.4	2	3.1							2	3.6
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 1	2	3	4	FY 2002 1	2	3	4	FY 2003 1	2	3	4	FY 2004 1	2	3	4	FY 2005 1	2	3	4	FY 2006 1	2	3	4	FY 2007 1	2	3	4	TC	TOTAL
In	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
Out	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SSM-6 DEGAUSSING SYSTEM (LT050) S/A 0888 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																					0	0.0
PROCUREMENT																						
INSTALLATION KITS																					0	0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			2	0.5																	2	0.5
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			2	0.3																	2	0.3
TOTAL PROCUREMENT		0.0		0.8		0.0		0.0		0.0		0.0		0.0		0.0		0.0				0.8

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

MODELS OF SYSTEMS AFFECTED: SSM-6 DEGAUSSING SYSTEM
S/A 0888

MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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
FY 2000 EQUIPMENT			2	0.3																	2	0.3
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																						

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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Out	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: 2000KW GENERATORS (LT050) #1276 TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT			2	2.4					2	2.3											4	4.7
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					AP	0.1	AP	0.8	2	10.6	2	9.3									4	20.8
TOTAL PROCUREMENT		0.0		2.4		0.1		0.8		12.9		9.3		0.0		0.0		0.0				25.5

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

MODELS OF SYSTEMS AFFECTED: 2000KW GENERATORS # 1276 MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months
CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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
FY 2000 EQUIPMENT					AP	0.1	AP	0.6	2	9.5											2	10.2
FY 2001 EQUIPMENT																					0	0.0
FY 2002 EQUIPMENT																					0	0.0
FY 2003 EQUIPMENT							AP	0.2	AP	1.1	2	9.3									2	10.6
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	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

CLASSIFICATION: **UNCLASSIFIED** May-01

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: SLEWING ARM DEVICES (SLADS) #1313 (LCC) AND #1172 (AGF) TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT											4	0.5									4	0.5
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									AP	0.2	AP	0.2	4	1.3							4	1.7
TOTAL PROCUREMENT		0.0		0.0		0.0		0.0		0.2		0.7		1.3		0.0		0.0				2.2

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

MODELS OF SYSTEMS AFFECTED: SLEWING ARM DEVICES (SLADS) #1313 (LCC) AND #1172 (AGF) MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: SHIPYARD
ADMINISTRATIVE LEADTIME: 4 Months PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 2001: FY 2002: FY 2003:
DELIVERY DATE: FY 2001: FY 2002: FY 2003:

($ 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									AP	0.2	AP	0.2	4	1.3							4	1.7
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	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
Out	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	4

CLASSIFICATION: **UNCLASSIFIED** May-01

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: BOILER FEEDWATER EVAP AOE UPGRADE (LT210) AIT TYPE MODIFICATION: MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							4	2.2													4	2.2
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							4	0.8													4	0.8
TOTAL PROCUREMENT		0.0		0.0		0.0		3.0		0.0		0.0		0.0		0.0		0.0				3.0

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

MODELS OF SYSTEMS AFFECTED: BOILER FEEDWATER EVAPORATOR (LT210) AIT MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 3 Months

CONTRACT DATES: FY 2001: FY 2002: 11/01 FY 2003:
DELIVERY DATE: FY 2001: FY 2002: 02/02 FY 2003:

($ 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							4	0.8													4	0.8
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	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Out	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: EMBARKATION PLATFORM
AOE UPGRADE (LT210) AIT

TYPE MODIFICATION:

MODIFICATION TITLE: ITEMS UNDER 5M

DESCRIPTION/JUSTIFICATION:

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	$
FINANCIAL PLAN (IN MILLIONS)																						
RDT&E																						0.0
PROCUREMENT																						
INSTALLATION KITS																						0.0
INSTALLATION KITS - UNIT COST																						
INSTALLATION KITS NONRECURRING																						0.0
EQUIPMENT							1	0.6													1	0.6
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							1	0.7													1	0.7
TOTAL PROCUREMENT		0.0		0.0		0.0		1.3		0.0		0.0		0.0		0.0		0.0				1.3

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

MODELS OF SYSTEMS AFFECTED: EMBARKATION PLATFORM (LT210) AIT MODIFICATION TITLE: ITEMS UNDER 5M

INSTALLATION INFORMATION:
METHOD OF IMPLEMENTATION: AIT
ADMINISTRATIVE LEADTIME: 3 Months PRODUCTION LEADTIME: 6 Months

CONTRACT DATES: FY 2001: FY 2002: 11/01 FY 2003:
DELIVERY DATE: FY 2001: FY 2002: 05/02 FY 2003:

($ 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							1	0.7													1	0.7
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	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Out	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

P-3A

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE

P-23 SMART SHIP SYSTEMS (LT 140)

A. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy**

B. P-1 ITEM NOMENCLATURE: **ITEMS UNDER $5 MILLION (81LT)**

C. DATE: **May-01**

			FY 2001				FY 2002				FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				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	**LSD41/49 CI**	(P)	2	1	2		3	3	1																						
	CV/CVN	(P)						1				1		1		2				1	1			1	1					2	
SCHOOLS/OTHER TRAINING		(P)																													
OTHER		(P)																													
TOTAL PHASED REQ		(C)	2	3	5	5	8	12	13	13	13	14	14	15	15	17	17	17	17	18	19	19	19	20	21	21	21	21	21	23	23
ASSETS ON HAND		(BP)																													
DELIVERY FY 99 & PRIOR		(P)																													
FY 00		(P)																													
FY 01		(P)	2	1	2																										
FY 02		(P)					2	5	1																						
FY 03		(P)										1		1																	
FY 04		(P)														2															
FY 05		(P)																		1	1										
FY 06		(P)																						1	1						
FY 07		(P)																												2	
To Complete		(P)																													
TOTAL ASSETS		(C)	2	3	5	5	7	12	13	13	13	14	14	15	15	17	17	17	17	18	19	19	19	20	21	21	21	21	21	23	23
QTY OVER (+) OR SHORT (-)			0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

D. REMARKS

E. RQMT (QTY)	TOTAL RQMT	INSTALLED ON 10/00	ON HAND AS OF / /00	FY 00 & PRIOR UNDELIVERED	UNFUNDED
1. APPN - OPN (1810)	23	0	0	0	0
2. APPN -					

3. PROCUREMENT LEADTIME	ADMIN	INITIAL ORDER	REORDER

DD for 2447, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

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UNCLASSIFIED

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT **ITEMS UNDER $5 MILLION (81LT)** SMART SHIP (LT140)								DATE **May-01**	
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**								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									
								LSD 52 LSD 51	1 1	LSD 48	1	LSD 43 LSD 46	1 1				
FY 2002								FY 2003									
LSD 46 LSD 47 LSD 49	1 1 1	LSD 44 LSD 50 LSD 45 CVN 70	1 1 1 1	LSD 41	1					CVN 73	1			CVN 72	1		

P-1 SHOPPING LIST CLASSIFICATION:

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT **ITEMS UNDER $5 MILLION (81LT)** SMART SHIP (LT140)								DATE **May-01**	
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**								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 2004								FY 2005									
		CVN 71 CVN 68	1 1							CVN 74	1	CVN 75	1				
FY 2006								FY 2007									
		CVN 65	1	CVN 69	1									CVN 67 CVN 76	1 1		

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE

P-23 ICAS (LT150) (AIT)

A. APPROPRIATION/BUDGET ACTIVITY: **Other Procurement, Navy**

B. P-1 ITEM NOMENCLATURE: **ITEMS UNDER $5 MILLION (81LT)**

C. DATE: **May-01**

			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	SURFACE COMB	(P)			5			4	2	3																					
	CARRIERS	(P)	1				1	2																							
	OTHERS	(P)		2	2	1	4	4	4																						
		(P)																													
SCHOOLS/OTHER TRAINING		(P)																													
OTHER		(P)																													
TOTAL PHASED REQ		(C)	1	3	10	11	16	26	32	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
ASSETS ON HAND		(BP)																													
DELIVERY FY 99 & PRIOR		(P)																													
FY 00 (25) *		(P)			5	6	3	8	2	1																					
FY 01 (10)		(P)				3	1	3	2	1																					
FY 02		(P)																													
FY 03		(P)																													
FY 04		(P)																													
FY 05		(P)																													
FY 06		(P)																													
FY 07		(P)																													
To Complete		(P)																													
TOTAL ASSETS		(C)	0	0	5	14	18	29	33	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
QTY OVER (+) OR SHORT (-)			-1	-3	-5	3	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

D. REMARKS

MHC SHIP ICAS UPGRADES WILL BE ACCOMPLISHED DEPENDING ON SHIPS' SCHEDULE (NOT IN COUNT)

*CVN75, LHA5, AOE8, LHD1, and FFG49 avails extend long enough to receive ICAS updates from the May 00 delivery of 5 units.

E. RQMT (QTY)	TOTAL RQMT	INSTALLED ON 10/00	ON HAND AS OF 10/01/00	FY 00 & PRIOR UNDELIVERED	UNFUNDED
1. APPN - 1810 (OPN)	35	11	2	22	0
2. APPN -					
3. PROCUREMENT LEADTIME	ADMIN	INITIAL ORDER		REORDER	

DD for 2447, JUN 86 P-1 SHOPPING LIST CLASSIFICATION:

ITEM NO 16 PAGE NO 53

UNCLASSIFIED

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT **ITEMS UNDER $5 MILLION (81LT)** ICAS (LT150) AIT								DATE **May-01**			
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy**								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											
CVN 75	1	LHA 5 AOE 8	1 1	FFG 49 LHD 1 DD 967 FFG 46 FFG 55 FFG 58 AOE 3	1 1 1 1 1 1 1	LHA 4	1	LCC 19 CVN 74 AOE 7 AOE 10 MCS (TBD)	1 1 1 1 1	LHA 2 PC 9 DD 991 DD 992 FFG 38 CVN 72 CVN 73 AOE 6 DD 972 LHA 3	1 1 1 1 1 1 1 1 1 1	AOE 4 LHA 1 PC 7 PC 8 FFG 41 DDG 60	1 1 1 1 1 1	FFG 54 FFG 52 CG 51	1 1 1				
FY 2002								FY 2003											

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: June 2001						
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA -1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **Submarine Life Support BLI: 099000 SBHD: 815D**						
Program Element for Code B Items:							Other Related Program Elements						
	Prior Years	ID Code	FY 2000	FY 2001	FY 2002								
QUANTITY													
COST (In Millions)			**$1.8**	**$4.8**	**$4.9**								
SPARES COST (In Millions)													

5D007 - THE ELECTROLYTIC OXYGEN GENERATOR CONTROLLER - A replacement digital controller developed to replace the antiquated analog controller currently being used on all Electrolytic Oxygen Generators (EOG). This Controller was designed in the 1950's and redesigned in the 1960's is no longer logistically serviceable.

The replacement controller will require 12,000 fewer parts, replace the gas analyzer, provide greater reliability and allow for self diagnostics. In addition, this change will completely automate EOG including start-up, shut-downs and purging situations. The EOG will be modified by installation teams during the ships refit period and will take eight days to complete.

5D830 - PRODUCTION ENGINEERING - The review and approval of any production contract technical documentation, or the separate development of this documentation to include, technical manuals, PMS, Level III production drawings, provisioning technical documentation (PTD), Program Support Data (PSD) and Allowance Parts Lists (APL); Engineering & support for final design reviews. This work can be accomplished by NSWC PHILA as the in-service engineering agent, other Naval activities or contractors as appropriate.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1 Ships Support Equipment	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Submarine Life Support BLI: 099000 SBHD: 815D

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
	N87 SUBMARINE WARFARE														
5D007	ELECTROLYTIC OXYGEN GENERATOR (EOG) CONTROLS	A		1	1,802	1,802	3	1,500	4,500	3	1,500	4,500			
5D830	PRODUCTION ENGINEERING								307			440			
			0			1,802			4,807			4,940			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		June 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	Submarine Life Support BLI: 099000	815D

Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY 2000										
EOG CONTROLLER	1	1,802	NICP MECH, PA		RCP	TREADWELL	MAY 00	MAY 01	YES	
FY 2001										
EOG CONTROLLER	3	1,500	NSWC PHILA		RCP	TREADWELL	DEC 00	JAN 02	YES	
FY 2002										
EOG CONTROLLER	3	1,500	NSWC PHILA		RCP/OPT	TREADWELL	DEC 01	JAN 03	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE P-23	A. APPROPRIATION/BUDGET ACTIVITY: Other Procurement, Navy; BA-1 Ships Support Equipment	B. P-1 ITEM NOMENCLATURE: Submarine Life Support	C. DATE: June 2001

		FY 2001				FY 2002																									
		1	2	3	4	1	2	3	4																						
ACTIVE FORCE INVENTORY	(P)			1				3																							
	(P)																														
SCHOOLS/OTHER TRAINING	(P)																														
OTHER	(P)																														
TOTAL PHASED REQ	(C)	0	0	1	1	1	1	4	4																						
ASSETS ON HAND	(BP)																														
DELIVERY FY 99 & PRIOR	(P)																														
FY 00				1																											
FY 01	(P)	C						3																							
FY 02	(P)					C																									
TOTAL ASSETS	(C)	0	0	1	1	1	1	4	4																						
QTY OVER (+) OR SHORT (-)		0	0	0	0	0	0	0	0																						

D. REMARKS	E. RQMT (QTY)	TOTAL RQMT 76	INSTALLED 0	ON HAND AS OF 6/00 0	FY 03 & PRIOR UNDELIVERED 8	UNFUNDED 0
	1. APPN -					
	2. APPN -					
	3. PROCUREMENT LEADTIME 12 months	ADMIN 3 months	INITIAL ORDER 12 mos	REORDER 12 mos		

DD for 2447, JUN 86

P-1 SHOPPING LIST

CLASSIFICATION:

ITEM NO 18 PAGE NO 4

UNCLASSIFIED

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A	P-1 ITEM NOMENCLATURE/PROJECT UNIT	DATE
	Submarine Life Support BLI: 099000 SBHD: 815D	June 2001

APPROPRIATION/BUDGET ACTIVITY	Installing Agent
Other Procurement, Navy BA-1 Ship Support Equipment	

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							
												EOG	1		
FY 2002															
				EOG	3										

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: May 2001					
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment**							P-1 ITEM NOMENCLATURE **Diving and Salvage Equipment BLI: 113000 SBHD: 81HY**					
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)			**$5.4**	**$5.6**	**$5.7**	**$5.8**	**$5.9**	**$6.0**	**$6.1**	**$6.3**		**$46.8**
SPARES COST (In Millions)												**$0.0**

DIVING

This request provides funding for procurement of modern equipment to replace the Navy's archaic diving systems. The demand for divers' services for salvage, ship husbandry, repair and sanitizing work is rapidly increasing. The requested funding buys diving hardware which increases the efficiency and safety of the working diver. Program objectives are to: (1) provide increased safety for diver decompression and better recompression chamber patient monitoring capability, (2) increase underwater ship maintenance capabilities, (3) improve quick response capability, and (4) standardize the configuration of diving systems in the Fleet. The major items of procurement are:

HY106 Lightweight Dive System (LWDS):

a. This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working divers and a standby diver to 190 feet of seawater (FSW) for up to a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. The Diver Equipment will interface with all Navy certified, air surface supplied diving systems. Required I/O is 40.

DLSS:

1. Compressor Package - Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.
2. Composite Flasks - Racks of composite HP cylinders; with manifolds and interconnecting hoses.
3. Volume Tank - Assembly mounted on separate frame; with interconnecting hoses.
4. Control Console - Suitcase size with air supply and pneumofathometer control.

b. 3000 PSI Flask Replacement:

This item replaces the composite flasks used in the LWDS which have reached their 15 year service life. I/O is 564.

c. Engineering Change Proposals: Required to upgrade the LWDS for 190 fsw capability and 5000 psi service.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment	P-1 ITEM NOMENCLATURE Diving and Salvage Equipment BLI: 113000 SBHD: 81HY

HY107 Portable Recompression Chamber:

a. Portable Chamber: The Paracel Transportable Recompression Chamber System provides an effective two-man evacuation, transport, treatment, and transfer under pressure capability in order to benefit a diver suffering a pressure related ailment requiring urgent hyperbaric treatment. This is the lightest, most transportable system available to the U. S. Navy. Required I/O is 16.

b. H. P. Composite Flask Replacement: This item replaces the composite flasks used in the LWDS which have reached their 15 year service life. I/O is 414.

c. Engineering Change Proposals

d. Environmental Upgrade Package: This item modified existing systems with an environmental system to allow operation in both hot and cold extreme temperature environments. I/O is 16.

HY123 Flyaway Dive System (FADS) III: The FADS III is a matrix of components designed to support manned diving to 300 fsw. It is made up of two major subsystems, the High Pressure (H.P.) Air System and the Mixed Gas System. The air system consists of a 5000 psi air rack using lightweight composite flasks, a portable diver's air console, and a 5000 psi air compressor packaged for flyaway applications. The mixed gas subsystem consists of H.P racks for containment of various gas mixes required for diving operations, a mixed gas diving console, and a gas transfer system for charging mixed gas flasks. Support equipment includes diver life support items such as diver hot water heaters, hot water suits, dry suits, umbilicals, diver full face masks, small, man-portable, diesel-powered, 5000 psi compressors and diver communication boxes. The matrix concept is designed to provide maximum flexibility in assembling equipment necessary to support a dive mission. Required I/O's are 21 High Pressure Air Systems and 5 Mixed Gas Systems.

HY132 Recompression Chamber: The Recompression Chambers are to be conventional chambers designed to be built using standard commercial specification and standards. Chambers will be capable of providing a full range of recompression treatment to two patients and two attendants. Two types will be procured, a portable chamber (containerized) and a fixed chamber. These will replace aging and difficult to maintain recompression chambers that will be retired due to fatigue and material flaws. Required I/O's are 12 portable and 5 fixed chambers.

HY177 Air Purification Units: This item is used when charging diver's life support system (DLSS) flasks or inserted inline in the DLSS to purify and monitor diver's breathing air. It will enhance diver's safety by providing constant monitoring of diver's breathing air and eliminate the need for the semi-annual air samples of all diver's breathing air compressors. Required I/O is 500 units.

HY179 Navy Experimental Diving Unit: NEDU's mission is to support the Fleet diver through test and evaluation of diving equipment's and procedures as well as hyperbaric systems for NAVSEA, Navy, and DoD activities. Funding is to procure equipment for test, facilities atmospheric control, life support, and physiological systems. These systems not only ensure the safety and lives of NEDU sailors performing experimental dives, but ultimately support the combat readiness and mission success of the Fleet sailors who use the equipment tested at NEDU.

HY183 Emergency Evacuation Hyperbaric Stretcher: This system is a portable and collapsible pressurized stretcher that provides a means of transporting diving personnel suffering from decompression sickness or gas embolism to a recompression treatment chamber. The EEHS provides a ready means of quickly recompressing the casualty at the dive site and transporting the casualty under pressure to a recompression chamber or a land based/hospital hyperbaric facility. Required I/O is 52.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment	P-1 ITEM NOMENCLATURE Diving and Salvage Equipment BLI: 113000 SBHD: 81HY

SALVAGE:
This request provides program support for the procurement of critical salvage and underwater ship repair items. Public Law 513 (80th Congress, 10 USC 7361 ET SEQ) authorizes the Secretary of the Navy to provide, by contractor or otherwise, necessary salvage and diving equipment, services and facilities for public, private, and military vessels upon such terms and conditions as he may, in his discretion, determine to be in the best interest of the United States.

The U. S. Navy Supervisor of Salvage maintains the Emergency Ship Salvage Material (ESSM) System which consists of a network of bases that maintain, control, and issue material for salvage operations, underwater ship husbandry operations, pollution abatement operations, ocean engineering projects, special authorized projects, and equipment for use in national emergencies. The major bases are located in Williamsburg, Virginia; Stockton, California; Singapore; and Livorno, Italy. Satellite bases having smaller allowances are maintained at Sasebo, Japan; Pearl Harbor, Hawaii; and Bahrain. This system provides the Nation's first line of defense for major pollution abatement operations and the Navy's second line of defense for salvage operations. The equipment's to be procured are:

HY016 Deck Capstans: The portable hydraulic capstan system consists of one portable hydraulic driven capstan, one portable hydraulic power unit, and all necessary controls and hydraulic hoses. Required I/O is 39.

HY050 Synthetic Line: This line is used for lifting, mooring, towing, rigging, and in conjunction with the remotely operated vehicles at the salvage site. Required I/O is 200.

HY062 Sonar System: These sonars are used on the ORION, DEEP DRONE, CURV III, MAGNUM and SWISS remotely operated vehicles to locate items lost on the sea floor, aircraft debris fields, sunken hull sections, and submerged obstacles. Total I/O is 10.

HY116 Portable Submersible Pumps: The hydraulic submersible salvage pump system is designed for dewatering ships and craft. The pumping system is packaged in containers for ease of shipment and handling at the casualty site. The pump with attached hoses can be lowered into flooded spaces or can be handcarried into confined spaces. The system includes a hydraulic power unit, hose, and all ancillary equipment. Required I/O is 53.

HY153 Tensiometer Systems: Tensiometers are used to measure the tension exerted on a beach gear ground leg or heavy lift system. One system consists of two load sensing units with associated rigging and read-out meters. Required I/O is 36.

HY155 15 KW Generators: These generators are used to fill the power gap between the existing 5 KW and 30 KW generators. They are used aboard a ship and shore-side to provide general purpose electrical power during salvage and debeaching operations. The generators are a system consisting of a diesel powered, portable generating unit, a power distribution panel, and associated distribution apparatus. Required I/O is 36.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment	P-1 ITEM NOMENCLATURE Diving and Salvage Equipment BLI: 113000 SBHD: 81HY

HY156 Salvage Vans: These vans are modified ISO shipping containers equipped to store and ship portable salvage equipment to a vessel of opportunity in times of National emergency and functions as a support van on station. Each van is complete with a humidity controlling device for prolonging equipment life during storage. The system includes all necessary rigging and handling equipment. Required I/O is 50.

HY159 Sonar Dome Repair Kits: Provides special underwater tools necessary to repair rubber and glass reinforced plastic (GRP) sonar domes. Repairs include both non-structural (correcting self-noise problems) operations and structural (correcting ruptured or cracked domes) operations. Kits also contain tools necessary to replace GRP domes in the event repair is not possible. I/O is 4.

HY160 Underwater Ship Husbandry Gas Free Equipment: Kits provide environmental monitoring equipment to provide diving supervisors with real time data on air quality within a confined space such as a cofferdam or ballast tank. Monitoring the air allows divers to remove their helmets once inside the area and thereby increase productivity and reduce fatigue. I/O is 16.

HY161 Underwater Shaft and Bearing Repair Equipment: Provides tools necessary to repair propulsion shafts and bearings underwater thereby eliminating the requirement for drydocking. Required I/O is 3.

HY162 Trash Pump System: The Trash Pump System consists of one portable hydraulically driven, submersible pump, hydraulic power unit and all necessary hydraulic and product delivery hoses. The pumps are capable of passing solid objects without damage to the system. Required I/O is 36.

HY163 Towing Load Cells: Towing load cells are systems designed to monitor towline tensions during open ocean towing evolutions. They include tension measuring devices, telemetry systems, power supplies and all software and hardware required to maintain and operate them. Required I/O is15.

HY164 Flyaway FADOSS System: This system consists of lightweight motion compensators, winches and rigging jewelry for lifting heavy objects off the sea floor. All of the components are designed to be flown to the salvage site and loaded aboard ships of opportunity. Required I/O is 14.

HY165 Underwater Welding Equipment: Improved welding equipment necessary to permit permanent underwater weld repairs to ship and submarine hull structure. Machines incorporated new technology to stabilize arc voltage and reduce equipment maintenance. I/O is 12.

HY166 ROV Tool Package: This tool package is utilized by remotely operated vehicles to accomplish work on objects on the sea floor and in the water column. These systems consist of dual manipulators, control systems, video inspection systems, range measuring systems, power supplies, hydraulic power units, an ancillary end effectors. I/O is 20.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment	P-1 ITEM NOMENCLATURE Diving and Salvage Equipment BLI: 113000 SBHD: 81HY

HY168 SHT Replacement Kits: Submarine Special Hull Treatment Tiles sustain damage below the waterline which cannot currently be repaired without drydocking. Kits will provide tools to remove damaged tiles, prepare the steel hull surface and replace tiles. In-water repairs will be equivalent to drydock repairs. I/O is 5.

HY169 UWSH Power Tools: These tools will replace the hydraulic tool sets designed and issued to Fleet divers in the 1970's with improved technology. This technology improvement will provide tools which are more environmentally compatible, offer greater power, lighter weight and reduced maintenance. I/O is

HY173 Digital Still Cameras: Underwater still cameras for divers use during hull damage inspections. Digital cameras will enable divers to quickly view images to ensure they are correct before suspending diving operations. Repair activities will then be given images which can be forwarded electronically for review by cognizant technical authorities. I/O is 20.

HY184 Salvage Support Systems: These systems are used to support Fleet salvage operations and include equipment required for command and control, communications, supply, repair, rigging, and personnel support. Each system includes the storage and shipping containers necessary to forward deploy the equipment to a salvage site. Required I/O is 30.

HY185 Precise Navigation Systems: These systems are used to position and track search platforms, survey vehicles and ROV systems. I/O is 12.

HY187 Non-destructive Examination (NDE) Equipment: Non-destructive Examination (NDE) Equipment: Underwater examination equipment necessary to evaluate bimetallic welds. Equipment will be used to define cracks and accept or reject underwater welds for service. Current NDE equipment cannot inspect bimetalic welds. I/O is 10.

DIVING AND SALVAGE RESERVE EQUIPMENT
In accordance with the Surface Warfare Plan of 26 July 1986 as amplified by CNO ltr 37/7U388746 of 29 Jun 1987, we are restructuring our Naval Reserve Procurement Plan to include outfitting with updated systems fully compatible with those used by the active forces. Dive system compatibility is imperative to ensure safety and readiness. The equipment's to be procured are:

HY105 Lightweight Dive System (LWDS):
a. This system is completely self-contained, man-portable, and can be deployed from dockside or a ship of opportunity. The system will support two working divers and a standby diver to 60 feet of seawater (fsw) for a six hour mission performing ship husbandry, light salvage, and underwater inspection tasks. Required I/O is 11.

DLSS:
1. Compressor Package - Compressor and prime mover mounted on a common frame; with external fuel tank and gauges.
2. Composite Flasks - Racks of composite HP cylinders; with manifolds and interconnecting hoses.
3. Volume Tank - Assembly mounted on separate frame; with interconnecting hoses.
4. Control Console - Suitcase size with air supply and pneumofathometer control.

b. 3000 PSI Flask Replacement: This item replaces the composite flasks used in the LWDS which have reached their 15 year service life. Required I/O is 132.

HY178 H.P. Air Compressors: This item provides reserve commands with indigenous H.P. air compressors for use with their Lightweight Dive Systems procured in HY105. Required I/O is 11.

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Diving and Salvage Equipment BLI: 113000 SBHD: 81HY**

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
	DIVING EQUIPMENT														
HY106	Lightweight Dive Systems	A													
	a. Systems														
	b. 3000 PSI Flask Replacements						25	3	75	50	3	150			
	c. Engineering Change Proposals														
HY107	Portable Recompression Chambers	A													
	a. Portable Chambers			2	219	438	2	363.5	727						
	b. HP Composite Flask Replacement														
	c. Engineering Change Proposals														
	d. Environmental Upgrade Packages						2	40	80	10	30.5	305			
HY123	Flyaway Dive System III	A													
	a. High Pressure Air Systems			1	240	240	2	237.5	475	2	247.5	495			
	b. Engineering Change Proposals														
	c. Mixed Gas Systems														
	d. Control Console/Volume Tank Assembly			2	80	160									
	e. FADS III Support Equipment			4	185	740									
HY132	Recompression Chambers	A													
	a. Portable/Containerized Chambers						1	600	600	3	602.6	1,808			
	b. Fixed Chambers			1	494	494	1	600	600						
	c. Fixed Chamber Support Equipment			1	726	726									
	d. Engineering Change Proposals								311			50			
HY177	Air Purification Unit	A								15	15.9	238			
HY179	Navy Experimental Diving Unit	A				285			285			297			
HY183	Emergency Evacuation Hyperbaric Stretchers	A		3	40	120	3	41.7	125	1	43	43			
	Subtotal					**3,203**			**3,278**			**3,386**			

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System	DATE: May 2001
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Diving and Salvage Equipment BLI: 113000 SBHD: 81HY**

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
	SALVAGE EQUIPMENT														
HY016	Deck Capstans	A		4	37.5	150	3	38.7	116						
HY050	Synthetic Lines	A					2	124	248	1	95	95			
HY062	Sonar Systems	A								1	92	92			
HY116	Portable Submersible Pumps	A		6	44	264	5	45.4	227						
HY153	Tensiometer Systems	A		11	22	242									
HY155	15 KW Generators	A		10	21.7	217	5	23.4	117						
HY156	Salvage Vans	A		7	27	189									
HY159	Sonar Dome Repair Kits	A					2	112.5	225						
HY160	UWSH Gas Free Equipment	A		3	53	159									
HY161	Underwater Shaft & Bearing Repair Equipment	A		1	314	314									
HY162	Trash Pump Systems	A								6	19.8	119			
HY163	Towing Load Cells	A								2	14	28			
HY164	Flyaway FADOSS System	A								1	920	920			
HY165	Underwater Welding Equipment	A		4	29.7	119									
HY166	ROV Tool Packages	A					1	555	555						
HY168	SHT Replacement Kits	A		1	134	134									
HY169	UWSH Power Tools	A					10	71.4	714						
HY173	Digital Still Cameras	A								5	33	165			
HY184	Salvage Support Systems	A								7	89.6	627			
HY185	Precise Navigation Systems	A		4	81.3	325									
HY187	Non-destructive Examination (NDE) Equipment	A								1	161	161			
	Subtotal					**2,113**			**2,202**			**2,207**			

WEAPONS SYSTEM COST ANALYSIS P-5			Weapon System												DATE: **May 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1 Ships Support Equipment**			ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **Diving and Salvage Equipment BLI: 113000 SBHD: 81HY**											
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
	RESERVE EQUIPMENT														
HY105	Lightweight Dive Systems	A													
	a. Systems														
	b. 3000 PSI Flask Replacements						33	3.6	117	33	3.6	119			
HY178	H.P. Air Compressors	A		1	106	106									
	Subtotal					**106**			**117**			**119**			
						5,422			**5,597**			**5,712**			

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | **A. DATE** May 2001

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Navy
BA-1 Ships Support Equipment

C. P-1 ITEM NOMENCLATURE
Diving and Salvage Equipment BLI: 113000

SUBHEAD
81HY

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)										
DIVING EQUIPMENT										
HY107 Portable Recomp Chamber										
a. Portable Chamber	2	219	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	02/01	YES	
HY123 Flyaway Dive Sys III										
a. High Pressure Air Systems	1	240	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	02/01	YES	
d. Control Console/Volume Tank	2	80	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	02/01	YES	
e. FADS III Support Equipment	4	185	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	02/01	YES	
HY132 Recompression Chamber										
b. Fixed Chamber	1	494	Arlington, VA	02/00	C/CPAF	GPC	04/00	03/01	YES	
c. Fixed Chmbr Spt Equip	1	726	Arlington, VA	02/00	C/CPAF	GPC	04/00	03/01	YES	
HY183 Emrg Evac Hyp Strch	3	40	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	09/00	YES	
SALVAGE EQUIPMENT										
HY016 Deck Capstans	4	37.5	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	04/01	YES	
HY116 Port Submrs. Pumps	6	44	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	06/01	YES	
HY153 Tensiometer Systems	11	22	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	12/00	YES	
HY155 15KW Generators	10	21.7	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	04/01	YES	
HY156 Salvage Vans	7	27	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	06/01	YES	
HY160 UWSH Gas Free Eqp	3	53	Arlington, VA	10/99	C/CPAF	GPC	03/00	03/01	YES	
HY161 UW Shaft/Bearing Eqp	1	314	Arlington, VA	10/99	C/CPAF	GPC	03/00	01/01	YES	
HY165 UW Welding Equip	4	29.7	Arlington, VA	10/99	C/CPAF	GPC	03/00	12/00	YES	
HY168 SHT Rplcmnt Kits	1	134	Arlington, VA	11/99	C/CPAF	GPC	04/00	10/00	YES	
HY185 Prcs Navigation Sys	4	81.3	Arlington, VA	06/30/95 (OPTION)	C/CPAF	GPC	02/00	02/01	YES	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A) | Weapon System | **A. DATE** May 2001

B. APPROPRIATION/BUDGET ACTIVITY
Other Procurement, Navy
BA-1 Ships Support Equipment

C. P-1 ITEM NOMENCLATURE
Diving and Salvage Equipment BLI: 113000

SUBHEAD
81HY

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)										
RESERVE EQUIPMENT										
HY178 HP Air Compressor	1	106	Arlington, VA	11/15/93 (OPTION)	C/CPAF	GPC	02/00	10/00	YES	
FISCAL YEAR (01)										
DIVING EQUIPMENT										
HY106 Ltwt Dive System										
b. 3000 PSI Flask Rplcmnt	25	3	Arlington, VA	09/00	C/CPAF	GPC	03/01	08/01	YES	
HY107 Portable Recomp Chamber										
a. Portable Chamber	2	363.5	Arlington, VA	09/00	C/CPAF	GPC	01/01	02/02	YES	
d. Environ Upgrade Pkg	2	40	Arlington, VA	09/00	C/CPAF	UNKNOWN	06/01	10/01	YES	
HY123 Flyaway Dive Sys III										
a. HP Air System	2	237.5	Arlington, VA	09/00	C/CPAF	GPC	03/01	02/02	YES	
HY132 Recompression Chamber										
a. Port/Container Chmbr	1	600	Arlington, VA	09/00	C/CPAF	GPC	01/01	04/02	YES	
b. Fixed Chamber	1	600	Arlington, VA	09/00	F/FP	UNKNOWN	08/01	03/02	YES	
HY183 Emrg Evac Hyp Strch	3	41.7	Arlington, VA	09/00	C/CPAF	GPC	01/01	09/01	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE
		May 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	Diving and Salvage Equipment BLI: 113000	81HY

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 (01)										
SALVAGE EQUIPMENT										
HY016 Deck Capstans	3	38.7	Arlington, VA	09/00	C/CPAF	GPC	01/01	10/01	NO	10/99
HY050 Synthetic Line	2	124	Arlington, VA	09/00	C/CPAF	UNKNOWN	06/01	12/01	YES	
HY116 Port Submrs. Pumps	5	45.4	Arlington, VA	09/00	C/CPAF	GPC	01/01	10/01	YES	
HY155 15KW Generators	5	23.4	Arlington, VA	09/00	C/CPAF	GPC	01/01	10/01	NO	10/99
HY159 Sonar Dome Rpr Kits	2	112.5	Arlington, VA	10/00	C/CPAF	UNKNOWN	06/01	12/01	YES	
HY166 ROV Tool Package	1	555	Arlington, VA	09/00	C/CPAF	UNKNOWN	04/01	02/02	YES	
HY169 UWSH Power Tools	10	71.4	Arlington, VA	10/00	C/CPAF	UNKNOWN	0601	12/01	YES	
RESERVE EQUIPMENT										
HY105 Ltwt Dive System										
b. 3000 PSI Flask Rplcmnt	33	3.6	Arlington, VA	09/00	C/CPAF	GPC	03/01	08/01	YES	

D. REMARKS

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE May 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1 Ships Support Equipment	Diving and Salvage Equipment BLI: 113000	81HY

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 (02)										
DIVING EQUIPMENT										
HY106 Ltwt Dive System										
b. 3000 PSI Flask Rplcmnt	50	3	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	08/02	YES	
HY107 Portable Recomp Chamber										
c. Envirn Upgrade Pkg	10	30.5	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	10/02	YES	
HY123 Flyaway Dive Sys III										
a. HP Air System	2	247.5	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	02/03	YES	
HY132 Recompression Chamber										
a. Port/Container Chmbr	3	602.6	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	02/03	YES	
HY177 Air Purification Unit	15	15.9	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	09/02	NO	
HY183 Emrg Evac Hyp Strch	1	43	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	09/02	YES	
SALVAGE EQUIPMENT										
HY050 Synthetic Lines	1	95	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	10'02	YES	
HY062 Sonar Sytems	1	92	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	10/02	YES	
HY162 Trash Pump Systems	6	19.8	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	10/02	YES	
HY163 Towing Load Cells	2	14	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	10/02	YES	
HY164 Flyaway FADOSS Sys	1	920	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	02/03	YES	
HY173 Digital Still Camera	5	33	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	07/02	YES	
HY184 Salv Support Sys	7	89.6	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	02/03	YES	
HY187 Non'destructive Exan	1	161	Arlington, VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	09/02	YES	
RESERVE EQUIPMENT										
HY105 Ltwt Dive System										
b. 3000 PSI Flask Rplcmnt	33	3.6	Arlington,VA	UNKNOWN	C/CPAF	UNKNOWN	02/02	08/02	YES	

D. REMARKS

BUDGET ITEM JUSTIFICATION SHEET P-40												DATE: JUNE 2001
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT**							P-1 ITEM NOMENCLATURE **STANDARD BOATS/21H0 BLI: 1210**					
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			**17**	**15**	**128**							**143**
COST (In Millions)			**$3.2**	**$2.7**	**$32.2**							**$34.9**
SPARES COST (In Millions)												

Boats are procured to fill allowances established by CNO and NAVSEA and to replace boats now in service which are beyond economical repair at shore activities and aboard ships. Total inventory objectives change based on Fleet requirements.

H0005 7m (22ft) Utility Boat - Used for general utility, supply and mail transport, at shore activities. Service life is 10 years.

H0028 7m (24ft) Rigid Inflatable Boat (RIB) - Used as ships' lifeboats, rescue boats and liberty boats, and for general transportation on auxiliaries, combatants, carriers, amphibious, and shore activities. Anticipated service life is 10 years.

H0033 13m (42ft) Personnel Boat - Used for officer/personnel transportation on carriers and shore activities. Service life is 20 years.

H0035 EOD Support Craft (RIB) - Used for MK 16 UBA/Diving Training, Mammal Operations, Ordnance recovery, parachute insertion support and Command and Control. Used for area search, MK5 Mammal Systems, diving training and operations, ordnance/mine recovery. Service life is 10 years.

H0038 Utility Boat (Small) - Gasoline outboard engine powered utility boats from 5.5 to 8.2 meters (18 to 27 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, general ports and waterways duties, routine harbor maintenance, and cleanup duties, patrol, rescue, firefighting, traffic and picket duties. Service life is 10 years.

H0039 11m (36ft) Rigid Inflatable Boat (RIB) - Carried as a ship's boat or assigned to a shore activity to perform a variety of operations including personnel and light cargo transfer, anchorage administration and swimmer defense, visit/boarding/search and maritime interdiction, AAV safety boat and AAAV assist boat. Anticipated service life is 10 years.

H0040 Force Protection Boat (small) - Light gasoline twin outborad engine powered (up to 150 hp each) aluminum boats from 7 to 8.2 meters (24 to 27 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Can operate in areas wehre the environment (sea states/climatology) do not present a significant challenge. Service life is 10 years.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: JUNE 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-1: SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # Standard Boats/21H0 BLI: 1210

H0041 Force Protection Boat (medium) - Heavy gasoline outboard engine powered (over 150 hp each) aluminum boats from 8.2 to 9 meters (27 to 30 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Needed for operations in areas where the environment (sea states/climatology) are significant enough to necessitate the larger boat and resultant larger engines to meet the performance/operational requirements. Service life is 10 years.

H0042 Force Protection Boat (large) - Twin diesel engine powered aluminum boats over 9 meters (30 ft) in length used primarily for fleet force protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Needed in areas where the environment (sea states/climatology) necessitate a larger boat for dependability. Too heavy to meet the performance/operational requirements with outboard engines. Service life is 10 years.

H0043 Force Protection Boat (special mission) (FP(SM)) - Twin engine powered boat of a larger size/greater complexity to support fleet force proection missions beyond the missions of Harbor Security Boats (HSBs). The typical FP (SM) is at least 9 meters (30 ft) in length used for special missions (e.g. air trransportable FP capability, FP fleet escort duties in open oceans, and special purpose communications/defense capabilities) in addition to fleet force protection protection, maritime interdiction, law enforcement operations, at Naval activities and adjacent ports and waterways duties. Service life is 10 years.

H0830 PRODUCTION ENGINEERING - Used for development of technical data packages, technical support, Test and Evaluation, manual development and printing, trials, boat inspections, etc.

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5	Weapon System		DATE: **JUNE 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **STANDARD BOATS/21H0 BLI: 1210**	

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			
H0028	7M (24FT) RIGID INFLATABLE BOAT			14	112	1,566	5	126	630	17	120	2,040			
H0033	13M (42FT) PERSONNEL BOAT			3	393	1,179	1	399	399	2	406	812			
H0005	7M (22FT) UTILITY BOAT						1	112	112						
H0035	EOD SUPPORT CRAFT (RIB)						8	127	1,016	2	120	240			
H0039	11M (36FT) RIGID INFLATABLE BOAT									2	450	900			
H0040	FORCE PROTECTION (small)									24	161	3,864			
H0041	FORCE PROTECTION (medium)									43	207	8,901			
H0042	FORCE PROTECTION (large)									22	304	6,688			
H0043	FORCE PROTECTION (special mission)									16	509	8,144			
H0900	CONSULTING SERVICES					245			290			320			
H0830	PRODUCTION ENGINEERING					216			224			242			
SUBTOTAL			**0**	**17**		**3,206**	**15**		**2,671**	**128**		**32,151**			

UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE JUNE 2001
B. APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA1: SHIPS SUPPORT EQUIPMENT	C. P-1 ITEM NOMENCLATURE STANDARD BOATS	SUBHEAD 21H0

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
FY01										
H0028 7M (24FT) RIB	2	126	NAVSEA	N/A	GSA	WILLARD	Nov 00	Apr 01	YES	
H0028 7M (24FT) RIB	2	126	NAVSEA	N/A	GSA	ZODIAC	Dec 00	Jun 01	YES	
H0035 EOD SC	8	136	NAVSEA	N/A	GSA	ZODIAC	Mar 01	Jun 01	YES	
FY02										
H0028 7M (24FT) RIB	17	120	NAVSEA		GSA	UNKNOWN				
H0033 13M (42FT) PE	2	406	NAVSEA		GSA	UNKNOWN				
H0035 EOD SC	2	120	NAVSEA		GSA	UNKNOWN				
H0039 11M (36FT) RIB	2	450	NAVSEA		GSA	UNKNOWN				
H0040 FP (small)	24	161	NAVSEA		GSA	UNKNOWN				
H0041 FP (medium)	43	207	NAVSEA		GSA	UNKNOWN				
H0042 FP (large)	22	304	NAVSEA		GSA	UNKNOWN				
H0043 FP (special mission)	16	509	NAVSEA		GSA	UNKNOWN				

D. REMARKS

Exhibit P-20, Requirements Study	Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): xx months				Prod Leadtime		
Project Unit/Item **H0028/7M (24 FT) RIB**	PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY	14	5	17					
Unit Cost	112	126	120					
Total Cost	1568	630	2040					
Asset Dynamics								
Beginning Asset Position	316	326	335					
Deliveries from all prior year funding	14	0	0					
Deliveries from CY funding		5						
Deliveries from BY1 funding			17					
Deliveries from BY2 funding								
Deliveries from subsequent years' funding								
Other Gains*		8	4					
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage	2	2	2					
Disposals/Retirements/Attritions/etc.	2	2	10					
End of Year Asset Position	326	335	344					
Inventory Objective/Current Authorized Allowance	314	343	354					
DELTA	12	-8	-10					

Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: 0 BY2: 0			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									

REMARKS: *starting in FY01 LPD 17 (2 per ship for 10 ships).

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study		Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): xx months					Prod Leadtime		
Project Unit/Item **H0033/13M (40FT) PERSONNEL BOAT**		PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY		3	1	2					
Unit Cost		393	399	406					
Total Cost		1179	399	812					
Asset Dynamics									
Beginning Asset Position		23	24	21					
Deliveries from all prior year funding		4							
Deliveries from CY funding			1						
Deliveries from BY1 funding				2					
Deliveries from BY2 funding									
Deliveries from subsequent years' funding									
Other Gains									
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.		3	4	2					
End of Year Asset Position		24	21	21					
Inventory Objective/Current Authorized Allowance		28	28	28					
DELTA		-4	-7	-7					
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: BY2:			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									
REMARKS:									

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study		Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature		Admin Leadtime (after Oct 1): xx months					Prod Leadtime		
Project Unit/Item **H0035/EOD SUPPORT CRAFT (RIB)**		PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY			8	2					
Unit Cost			127	120					
Total Cost			1016	240					
Asset Dynamics									
Beginning Asset Position			0	108					
Deliveries from all prior year funding			0	0					
Deliveries from CY funding			8						
Deliveries from BY1 funding				2					
Deliveries from BY2 funding									
Deliveries from subsequent years' funding									
Other Gains*			138						
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.			38	19					
End of Year Asset Position		0	108	91					
Inventory Objective/Current Authorized Allowance			138	138					
DELTA		0	-30	-47					
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: 0 BY2: 0			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									
REMARKS: *realignment of all EOD assets.									

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study	Approp Code/BA OTHER PROC, NAVY/BA1	Subhead 21H0	Date: JUNE 2001
P-1 Line Item Nomenclature	Admin Leadtime (after Oct 1): xx months		Prod Leadtime

Project Unit/Item **H0038/UTILITY BOAT (small)**	PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY		1	0	8	7	12	12	12
Unit Cost		112	0	116	118	120	123	125
Total Cost		112	0	928	826	1440	1476	1500
Asset Dynamics								
Beginning Asset Position			263	263	246	228	215	202
Deliveries from all prior year funding				0	0	0	0	0
Deliveries from CY funding		1						
Deliveries from BY1 funding								
Deliveries from BY2 funding								
Deliveries from subsequent years' funding				8	7	12	12	12
Other Gains*		262						
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.				25	25	25	25	25
End of Year Asset Position		263	263	246	228	215	202	189
Inventory Objective/Current Authorized Allowance		302	302	302	302	302	302	302
DELTA		-39	-39	-56	-74	-87	-100	-113

Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Boats Eligible for Replacement
	PY thru _____:	PY thru _____:	PY thru _____:	BY1: 0 BY2: 0
	PY-1:	PY-1:	PY-1:	
	PY-2:	PY-2:	PY-2:	
	PY-3:	PY-3:	PY-3:	
TOTAL:				

REMARKS: *realignment of 17' through 27' UB's.

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study	Approp Code/BA OTHER PROC, NAVY/BA1		Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature	Admin Leadtime (after Oct 1): xx months				Prod Leadtime		
Project Unit/Item **H0039/11m (36 FT) RIB***	PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY			2					
Unit Cost			450					
Total Cost			900					
Asset Dynamics								
Beginning Asset Position			0					
Deliveries from all prior year funding								
Deliveries from CY funding								
Deliveries from BY1 funding			2					
Deliveries from BY2 funding								
Deliveries from subsequent years' funding								
Other Gains			91					
Combat Losses/Usage								
Training Losses/Usage								
Test Losses/Usage								
Other Losses/Usage								
Disposals/Retirements/Attritions/etc.			12					
End of Year Asset Position			81					
Inventory Objective/Current Authorized Allowance			98					
DELTA			-17					

Inventory Objective	Actual Training Expenditures	Other than Training Usage	Disposals (Vehicles/Other)	Boats Eligible for Replacement
	PY thru _____:	PY thru _____:	PY thru _____:	BY1: 0 BY2: 0
	PY-1:	PY-1:	PY-1:	
	PY-2:	PY-2:	PY-2:	
	PY-3:	PY-3:	PY-3:	
TOTAL:				

REMARKS: *numbers represent LCPLs to be replaced with 11m RIBs

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study		Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature			Admin Leadtime (after Oct 1): xx months				Prod Leadtime		
Project Unit/Item **H0040/Force Protection (small)**		PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY				24					
Unit Cost				161					
Total Cost				3864					
Asset Dynamics									
Beginning Asset Position				0					
Deliveries from all prior year funding									
Deliveries from CY funding									
Deliveries from BY1 funding				24					
Deliveries from BY2 funding									
Deliveries from subsequent years' funding									
Other Gains									
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.									
End of Year Asset Position				24					
Inventory Objective/Current Authorized Allowance				71					
DELTA				-47					
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: 0 BY2: 0			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									
REMARKS:									

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study		Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature			Admin Leadtime (after Oct 1): xx months				Prod Leadtime		
Project Unit/Item **H0041/Force Protection (medium)**		PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY				43					
Unit Cost				207					
Total Cost				8901					
Asset Dynamics									
Beginning Asset Position				0					
Deliveries from all prior year funding									
Deliveries from CY funding									
Deliveries from BY1 funding				43					
Deliveries from BY2 funding									
Deliveries from subsequent years' funding									
Other Gains									
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.									
End of Year Asset Position				43					
Inventory Objective/Current Authorized Allowance				81					
DELTA				-38					
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: 0 BY2: 0			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									
REMARKS:									

P-1 Shopping List Item No. 22

Exhibit P-20, Requirements Study		Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature			Admin Leadtime (after Oct 1): xx months				Prod Leadtime		
Project Unit/Item **H0042/Force Protection (large)**		PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY				22					
Unit Cost				304					
Total Cost				6688					
Asset Dynamics									
Beginning Asset Position				0					
Deliveries from all prior year funding									
Deliveries from CY funding									
Deliveries from BY1 funding				22					
Deliveries from BY2 funding									
Deliveries from subsequent years' funding									
Other Gains									
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.									
End of Year Asset Position				22					
Inventory Objective/Current Authorized Allowance				63					
DELTA				-41					
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: 0 BY2: 0			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									
REMARKS:									

P-1 Shopping List Item No.22

Exhibit P-20, Requirements Study		Approp Code/BA OTHER PROC, NAVY/BA1			Subhead 21H0		Date: JUNE 2001		
P-1 Line Item Nomenclature			Admin Leadtime (after Oct 1): xx months				Prod Leadtime		
Project Unit/Item **H0043/Force Protection (SM)**		PY FY 2000	CY FY 2001	BY1 FY 2002	BY2 FY 2003	BY2+1 FY 2004	BY2+2 FY 2005	BY2+3 FY 2006	BY2+4 FY 2007
Buy Summary QTY				16					
Unit Cost				509					
Total Cost				8144					
Asset Dynamics									
Beginning Asset Position				0					
Deliveries from all prior year funding									
Deliveries from CY funding									
Deliveries from BY1 funding				16					
Deliveries from BY2 funding									
Deliveries from subsequent years' funding									
Other Gains									
Combat Losses/Usage									
Training Losses/Usage									
Test Losses/Usage									
Other Losses/Usage									
Disposals/Retirements/Attritions/etc.									
End of Year Asset Position				16					
Inventory Objective/Current Authorized Allowance				27					
DELTA				-11					
Inventory Objective	Actual Training Expenditures	Other than Training Usage		Disposals (Vehicles/Other)		Boats Eligible for Replacement			
	PY thru _____:	PY thru _____:		PY thru _____:		BY1: 0 BY2: 0			
	PY-1:	PY-1:		PY-1:					
	PY-2:	PY-2:		PY-2:					
	PY-3:	PY-3:		PY-3:					
TOTAL:									
REMARKS:									

P-1 Shopping List Item No.22

BUDGET ITEM JUSTIFICATION SHEET P-40											DATE: June 2001	
APPROPRIATION/BUDGET ACTIVITY **OTHER PROCUREMENT, NAVY/BA-1: OTHER SHIPS SUPPORT EQUIPMENT**							P-1 ITEM NOMENCLATURE **OTHER SHIPS TRAINING EQUIPMENT LI:132000 81H5**					
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)			**$3.8**	**$3.3**	**$16.8**							**CONT.**
SPARES COST (In Millions)												**$0.0**

The equipment procured under the Other Ships Training Equipment line supports Hull, Mechanical, and Electrical (HM&E) training requirement:

(H5265) Surface Sustaining TTE
Funds procure HM&E technical training equipment (TTE) identified by the Chief of Naval Education and Training (CNET) and the Surface Warfare Training Requirements Review (SWTRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair.

(H5276) Subsurface Sustaining TTE
Funds procure Subsurface HM&E technical training equipment (TTE) , support equipment, simulators/stimulators, and Diving and Salvage Training Center equipment identified by the Type Commander, Chief of Naval Education and Training (CNET) and the Submarine and Integrated Undersea Sonar System (IUSS) Training Requirements Review (SITRR) process, as approved by CNO. This TTE sustains a better quality of training and/or replaces equipment beyond economical repair. In FY02 there are non-recurring procurements of TTE for the Virginia Class SSN for HM&E training and for procurement of AEOG (Automated Electrolytic Oxygen Generator) simulators for submarine training.

(H5262) BFTT (GNSS)
Funds will procure and install Generic Navy Stimulators/Simulators(GNSS), as part of the AN/USQ-T46 A(V) Battle Force Tactical Training (BFTT) System, on CVN 74 and CVN 75. The GNSS set for each aircraft carrier provides stimulation for AN/SPS-48, AN/SPS-49, AN/SPS-67, IFF, MK23 TAS and NSSMS(3).

(H52XX) Gas Equipment Engineering Corp (GEECO) TTE

Funds added to procure and install (1) Gas Equipment Engineering Corp (GEECO) low pressure 02N2 producer. The system is required in the schoolhouse at Fleet Training Center, Norfolk.

WEAPONS SYSTEM COST ANALYSIS **P-5**	Weapon System	DATE: **Jun 2001**
APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA 1: Other Ships Support Equipment**	ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD **OTHER SHIPS TRAINING EQUIPMENT LI: 132000/SUBH: 81H5**

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years	FY2000			FY2001			FY2002			FY2003		
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	SURFACE WARFARE N86)														
H5265	Surface Sustaining TTE			5	108	548	4	125	497	2	288	578			
	SUBMARINE WARFARE (N87)														
H5276	Subsurface Sustainng TTE					1,119			758			1,181			
	SSN 774 TTE											7,713			
	AEOG FPS											3,300			
	AIR WARFARE (N88)														
H5262	BFTT (GNSS)			8	268	2,126	8	253	2,017						
H52XX	GEECO 02N2 PLANT									1	3,995	4,000			
	SUBTOTAL (N86)								493			583			
	(N87)								758			12,194			
	(N88)								2,017			4,000			
			0			**3,793**			**3,272**			**16,772**			

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)	Weapon System	A. DATE June 2001

B. APPROPRIATION/BUDGET ACTIVITY	C. P-1 ITEM NOMENCLATURE	SUBHEAD
Other Procurement, Navy BA-1: OTHER SHIPS SUPPORT EQUIPMENT	Other Ships Training Equipment	81H5

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
H5265										
Surface Sustaining										
						FAIRMOUNT AUTOMATION				
Training TTE 00	5	108	NAVSEALOGCEN	N/A	FFP	PHOENIXVILLE, PA	VARIOUS	VRIOUS	YES	
Training TTE 01	4	125	NAVSEALOGCEN	N/A	VARIOUS	UNIDYNE, NORFOLK,VA	TBD	VRIOUS	YES	
Training TTE 02	2	288	NAVSEALOGCEN	N/A	VARIOUS	UNIDYNE, NORFOLK,VA	TBD	VRIOUS	YES	
Training TTE 03	3	194	NAVSEALOGCEN	N/A	VARIOUS	UNIDYNE, NORFOLK,VA	TBD	VRIOUS	YES	
H5276										
SUBSURFACE										
SUSTAINING TTE (00-03)	Multi		VARIOUS	N/A	VARIOUS	VARIOUS	VARIOUS	VARIOUS	YES	
SSN 774 TTE (02)	Multi		NAVSEA	TBD	TBD	TBD	02/02	VARIOUS	YES	
H5262										
BFTT (GNSS)										
FISCAL YEAR 00	8	268	NAVSEA ARLINGTON	MAY 97	OPTION	AAI, HUNT VALLEY, MD	MAR00	JUN 00	YES	
FISCAL YEAR 01	8	253	NAVSEA ARLINGTON	MAY 97	OPTION	AAI, HUNT VALLEY, MD	MAR01	JUN 01	YES	
H52xx										
GEECO (FY02)	1	3,995	NAVSEALOGCEN	N/A	CPFF	UNIDYNE, NORFOLK,VA	TBD	2002	YES	

D. REMARKS

CLASSIFICATION: **UNCLASSIFIED**

TIME PHASED REQUIREMENT SCHEDULE **P-23**		A. APPROPRIATION/BUDGET ACTIVITY **Other Procurement, Navy** **BA-1: OTHER SHIPS SPT EQPT**	B. P-1 ITEM NOMENCLATURE **AN/USQ-T46V(A) BFTT (GNSS)**	C. DATE Jun 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)					8			8																					
	(P)																													
SCHOOLS/OTHER TRAINING	(P)																													
OTHER	(P)																													
TOTAL PHASED REQ	(C)	0	0	0	0	8	8	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
ASSETS ON HAND	(BP)	0																												
DELIVERY FY 98 & PRIOR	(P)	0																												
FY 99 & Prior	(P)	0																												
FY 00	(P)	0	C-8	8																										
FY 01	(P)					0	C-8	8	0																					
FY 02	(P)																													
FY 03	(P)																													
FY 04	(P)																													
FY 05	(P)																													
To Complete	(P)																													
TOTAL ASSETS	(C)	0	0	8	8	8	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
QTY OVER (+) OR SHORT (-)		0	0	8	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

D. REMARKS	E. RQMT (QTY)	TOTAL RQMT	INSTALLED	ON HAND AS OF 6/30/00	FY 99 & PRIOR UNDELIVERED	UNFUNDED
	1. APPN - 1810 16	16	8	0	0	0
	2. APPN -					
	3. PROCUREMENT LEADTIME N/A	ADMIN 3MON	INITIAL ORDER 3MON		REORDER 3MON	

TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT AN/USQ-T46V(A) BFTT (GNSS)								DATE June 2001			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy								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											
								CVN74	8					CVN75	8				
FY 2002								FY 2003											

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA 1: SHIPS SUPPORT EQUIPMENT								P-1 ITEM NOMENCLATURE/LINE ITEM # *OPERATING FORCES IPE BLI:144500 SBHD: 81KN*					
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)				$7.7	$19.5	$27.5						N/A	CONT.
SPARES COST (In Millions)													

PROGRAM DESCRIPTION/JUSTIFICATION:

AS A RESULT OF ISSUE 62639 (CONSOLIDATION OF P-1 ITEMS UNDER $5M) THIS BUDGET CONTAINS THE FOLLOWING PROGRAMS: OPERATING FORCES IPE, SURFACE IMA, AND MINI/MICROMINATURE ELECTRONIC TEST AND REPAIR EFFECTIVE FY 00 AND OUT.

LOGISTICS SUPPORT/INDUSTRIAL PLANT EQUIPMENT (IPE) REPLACEMENT/BATTLE FORCE INTERMEDIATE MAINTENANCE ACTIVITIES (BFIMA) The IPE Replacement Program maintains the infrastructure of repair capability on tenders and other ships. It supplies IPE to replace aging equipment to comply with EPA and OSHA regulations and to introduce repair technology. Activities are inspected periodically to determine the need for refurbishment or replacement of existing equipment where machinery becomes uneconomical to repair. New equipment is procured to satisfy realignment of capabilities at IMAs in support of new systems. The BFIMA IPE Upgrade Program upgrades battle force and amphibious group leaders (CV/CVN and LHA/LHD) to the core repair capability to accomplish "mission essential" maintenance actions while deployed. The BFIMA Program repairs CASREPS, emergent jobs and routine work within their capability and capacity.

SURFACE SUPPORT/INDUSTRIAL PLANT EQUIPMENT (IPE) REPLACEMENT/BATTLE FORCE INTERMEDIATE MAINTENANCE ACTIVITIES (BFIMA) These funds are used to procure industrial plant equipment for afloat (surface) activities which provide maintenance capabilities for Sailors to maintain battle group vessels of the U.S. Navy. The equipment provided to activities correlates to skills required when Sailors are assigned to maintenance shops afloat. The program provides new and used industrial plant equipment to replace equipment beyond economical repair and to upgrade capabilities for ship maintenance and repair.

LOGISTICS SUPPORT/MILITARY CONSTRUCTION OUTFITTING (MCON) Under Operating Forces IPE, modern IPE, test equipment, and associated support equipment must be procured and installed or available for use in the work spaces. Procurement of equipment is phased to coincide with military construction milestones.

BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA 1: SHIPS SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # OPERATING FORCES IPE BLI: 144500

PEARL HARBOR PILOT PROGRAM:

This line item provides funding for the consolidated Pearl Harbor Naval Shipyard and Intermediate Maintenance Facility (PHNSY&IMF) activity established at the beginning of FY99 in accordance with the MOA between NAVSEA and CINCPACFLT, NAVSEA ltr 5450 Ser 00/133 of 31 Oct 97 / PACFLT ltr 5450 Ser 00/5445 of 26 Nov 97. Funds will be used for the procurement and execution of Class 3 & 4 plant and personal property projects to maintain, modernize, and improve the PHNSY&IMF infrastructure and industrial base. Funding will allow PHNSY&IMF to acquire equipment necessary to perform the mission of repairing, conversion, and modernization of fleet ships and submarines in the most economical, efficient, environmentally sound, and safe manner possible. As this is a pilot program having impact on other fleet depot maintenance activities, it is critical these projects be funded in order to most accurately determine the economic and operational success or failure of the program itself.

MINI/MICROMINIATURE ELECTRONIC TEST AND REPAIR:

The Navy 2M Module Test & Repair (MTR) Program provides sailors with the capability to repair electronic Circuit Card Assemblies (CCAs) and Electronic Modules (EMs) at Intermediate Maintenance Activities and aboard most combatants. Funding to requirement levels will enable Navy cost avoidance annually by Fleet mainten levels executing CCA repairs in lieu of more expensive depot sites. The services provided by 2M allow new repair tools to be selected, deployed, and supported in the Fleet in time to support new CCA technologies. Deploying Automatic Test (ATE) and Dagnostic Equipment, and their respective Test Program Sets and Gold Disks allows shipboard personnel to test and diagnose circuit card assemblies at the site of the operational failure. The 2M Program (2M/ATE) together provide a complete electronics subassembly field level maintenance program, avoiding Fleet OPTAR costs and averting CASREPs. This funding is used to procure and deploy non-avia Test Program Sets (TPSs) and Gold Disks. Due to changing technologies, CCAs currently in the Fleet range in price from $500 to $40K each. Currently deployed repair tools, equipment and repair processes will not support repair of CCAs containing advanced technologies such as surface mount and leadless ship carrier. This technology is now becoming prevalent in commercial and military equipment. Outyear funding will be used to procure and deploy commercial equipment to test and diagnose new electronic technologies being introduced into the Fleet.

The value of the 2M repair program is not restricted to a platform or system nor is limited to purely monetary avoidance's. The 2M repair program allows Fleet readiness to be maintained by providing a capability for quality Fleet repairs, thus reducing degradation of equipment reliability and availability. This is a continuing program . As such the quantities identified in this budget will be used to procure new technology tools and integrate capabilities to enable them to be more usable for the Sailor.

REGIONAL MAINTENANCE AIS:

FY02 and outyear funding provides support for the Regional maintenance Automated Information systems (RMAIS) initiative. RMAIS is the sole providers of automated electronic brokering of ship maintenance actions among maintenance activities and provide visibility of maintenance/repair workload and status necessary to support sound maintenance management decisions locally, on a regional basis, and at the national level. RMAIS provide the Regional Maintenance Center with the capability to efficiently manage all maintenance and repair resources, Specifically the funds will be used to procure computer hardware and software needed to connect existing Maintenance Automated Information Systems with established Local Area Networks (LANs) and Wide Area Networks (WANs) to facilitate the transfer of maintenance data. The per unit cost for this effort is $100K per server, which includes hardware, software and installation.

WEAPONS SYSTEM COST ANALYSIS P-5			Weapon System	DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA 1: SHIPS SUPPORT EQUIPMENT		ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD OPERATING FORCES IPE BLI:144500 SBHD: 81KN	

COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 2000			FY 2001			FY 2002			FY 2003		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
KN100	**N43 LOGISTIC SUPPORT/IPE/BFMA**													
	IPE REPLACEMENT				437			975			2,510			
	BFIMA IPE UPGRADE				592			537			1,200			
KN100	**N86 SURFACE SUPPORT**													
	BFIMA IPE UPGRADE				567			488			0			
KN200	**N43 LOGISTIC SUPPORT**													
	SUBPAC (MCON) OUTFITTING				0			0			0			
	SUBTOTAL KN100-KN200				**1,596**			**2,000**			**3,710**			
KN300	**PEARL HARBOR PILOT SUPPORT**													
	PEARL HARBOR PILOT				5,665			17,000			19,413			
	PEARL HARBOR PILOT DEFICIENCIES										(8,660)			
	SUBTOTAL KN300 PH				**5,665**			**17,000**			**19,413**			
KN400	**MINI/MICROMINIATURE ELEC TEST & REPAIR**													
	DIAGNOSTIC AND REPAIR TOOLS				481			508			712			
	DEFICIENCIES													
	SUBTOTAL KN400				**481**			**508**			**712**			
KN500	**N88 EQUIPMENT SUPPORT**													
	OTHER EQUIPMENT				0			0			2,656			
	SUBTOTAL KN500				**0**			**0**			**2,656**			
KN600	**REGIONAL MAINTENANCE AIS**													
	REGIONAL MAINTENANCE AIS				0			0			1,031			
	SUBTOTAL KN600				**0**			**0**			**1,031**			
GRAND TOTAL					**7,742**			**19,508**			**27,522**			