

DEPARTMENT OF THE NAVY
FISCAL YEAR (FY) 2001
BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
FEBRUARY 2000

OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 7

UNCLASSIFIED

DEPARTMENT OF THE NAVY

FY 2001 PROCUREMENT PROGRAM

SUMMARY
(\$ IN MILLIONS)

February 2000

APPROPRIATION: OTHER PROCUREMENT, NAVY

ACTIVITY -----	FY 1999 -----	FY 2000 -----	FY 2001 -----
01. SHIPS SUPPORT EQUIPMENT	948.4	910.4	573.5
02. COMMUNICATIONS AND ELECTRONICS EQUIPMENT	1,646.1	1,948.8	1,490.3
03. AVIATION SUPPORT EQUIPMENT	247.1	237.6	204.9
04. ORDNANCE SUPPORT EQUIPMENT	719.1	652.0	498.0
05. CIVIL ENGINEERING SUPPORT EQUIPMENT	54.4	68.7	97.7
06. SUPPLY SUPPORT EQUIPMENT	89.2	140.0	161.8
07. PERSONNEL AND COMMAND SUPPORT EQUIPMENT	98.4	71.0	99.5
08. SPARES AND REPAIR PARTS	243.9	273.2	208.9
TOTAL OTHER PROCUREMENT, NAVY	4,046.7	4,301.5	3,334.6

DEPARTMENT OF THE NAVY
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 1810N OTHER PROCUREMENT, NAVY

DATE: February 2000

MILLIONS OF DOLLARS

LINE NO -----	ITEM NOMENCLATURE -----	IDENT CODE -----	FY 1999		FY 2000		FY 2001		S E C -
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 01: SHIPS SUPPORT EQUIPMENT -----									
SHIP PROPULSION EQUIPMENT									
1	LM-2500 GAS TURBINE	A		8.6		8.3		7.0	U
2	ALLISON 501K GAS TURBINE	A		6.7		8.3		6.3	U
3	STEAM PROPULSION IMPROVEMENT	A		.6					U
4	OTHER PROPULSION EQUIPMENT	A		12.0					U
GENERATORS									
5	OTHER GENERATORS	A		18.1					U
PUMPS									
6	OTHER PUMPS	A		1.0					U
PROPELLERS									
7	SUBMARINE PROPELLERS	A		7.8				3.8	U
8	OTHER PROPELLERS AND SHAFTS	A		1.1					U
NAVIGATION EQUIPMENT									
9	OTHER NAVIGATION EQUIPMENT	A		58.7		100.0		33.4	U
UNDERWAY REPLENISHMENT EQUIPMENT									
10	UNDERWAY REPLENISHMENT EQUIPMENT	A		7.3		15.6		9.1	U
PERISCOPES									
11	SUB PERISCOPES & IMAGING EQUIP	A		28.5		64.7		19.0	U
OTHER SHIPBOARD EQUIPMENT									
12	FIREFIGHTING EQUIPMENT	A		11.1		16.9		16.8	U
13	COMMAND AND CONTROL SWITCHBOARD	A		10.0		14.2		10.5	U

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LINE	ITEM NOMENCLATURE	IDENT	FY 1999	FY 2000	FY 2001	S			
NO		CODE	QUANTITY	QUANTITY	QUANTITY	E			
			COST	COST	COST	C			
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14	POLLUTION CONTROL EQUIPMENT	B	117.0	114.4	47.8	U			
15	SUBMARINE SILENCING EQUIPMENT	A	3.4			U			
16	SUBMARINE SUPPORT EQUIPMENT	A		50.3	11.4	U			
17	SUBMARINE BATTERIES	A	8.3	13.0	12.4	U			
18	SSN21 CLASS SUPPORT EQUIPMENT	A	15.3			U			
19	STRATEGIC PLATFORM SUPPORT EQUIP	A	10.1	21.0	6.2	U			
20	DSSP EQUIPMENT	A	10.3	7.9	5.4	U			
21	LCAC	A		4.0	3.6	U			
22	MINESWEEPING EQUIPMENT	A	.4	19.6	16.6	U			
23	HM&E ITEMS UNDER \$2 MILLION	A	50.7			U			
24	ITEMS LESS THAN \$5 MILLION	A		127.7	58.9	U			
25	SURFACE IMA	A	4.1		2.0	U			
26	MINI/MICROMINI ELECTRONIC REPAIR	A	.5			U			
27	SUBMARINE LIFE SUPPORT SYSTEM	A		1.3	4.9	U			
	REACTOR PLANT EQUIPMENT								
28	REACTOR POWER UNITS	A	226.4			U			
29	REACTOR COMPONENTS	A	210.5	198.0	203.4	U			
	OCEAN ENGINEERING								
30	DIVING AND SALVAGE EQUIPMENT	A	5.6	5.5	5.6	U			
31	EOD UNDERWATER EQUIPMENT	B	8.1			U			
	SMALL BOATS								
32	STANDARD BOATS	A	1.4	3.1	2.7	U			

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
TRAINING EQUIPMENT									
33	OTHER SHIPS TRAINING EQUIPMENT	A		1.8		3.8		3.3	U
PRODUCTION FACILITIES EQUIPMENT									
34	OPERATING FORCES IPE	A		.7		4.5		2.7	U
OTHER SHIP SUPPORT									
35	NUCLEAR ALTERATIONS	A		94.1		108.3		80.9	U
DRUG INTERDICTION SUPPORT									
36	DRUG INTERDICTION SUPPORT	A		8.3					U
TOTAL SHIPS SUPPORT EQUIPMENT				948.4		910.4		573.5	
BUDGET ACTIVITY 02: COMMUNICATIONS AND ELECTRONICS EQUIPMENT									
SHIP RADARS									
37	AN/SPS-49	A		1.0		2.2			U
38	RADAR SUPPORT	A		28.6		19.9			U
39	TISS	A		3.5		1.7			U
SHIP SONARS									
40	AN/SQQ-89 SURF ASW COMBAT SYSTEM	A		23.2		31.7		14.3	U
41	SSN ACOUSTICS	A		142.7		216.4		106.6	U
42	UNDERSEA WARFARE SUPPORT EQUIPMENT	A				11.5		.8	U
43	SONAR SUPPORT EQUIPMENT	A		8.1		3.0			U
44	SONAR SWITCHES AND TRANSDUCERS	A		12.7		14.0		10.7	U
ASW ELECTRONIC EQUIPMENT									
45	SUBMARINE ACOUSTIC WARFARE SYSTEM	A		7.3		11.1		10.7	U

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LINE	ITEM NOMENCLATURE	IDENT	FY 1999		FY 2000		FY 2001		S E C
NO			CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	
----	-----	----	-----	-----	-----	-----	-----	-----	-
46	SSTD	A		.8					U
47	ACOUSTIC COMMUNICATIONS	A		.4					U
48	FIXED SURVEILLANCE SYSTEM	A		9.4	16.6		29.9		U
49	SURTASS	A		12.5	7.2		5.5		U
50	ASW OPERATIONS CENTER	A		2.6	4.4		6.2		U
51	CARRIER ASW MODULE	A		.4					U
ELECTRONIC WARFARE EQUIPMENT									
52	AN/SLQ-32	A		1.5	1.9				U
53	AN/WLR-1	A		1.8					U
54	INFORMATION WARFARE SYSTEMS	A		3.4	4.1		3.9		U
55	C-3 COUNTERMEASURES	A		10.0					U
RECONNAISSANCE EQUIPMENT									
56	SHIPBOARD IW EXPLOIT	A		40.1	50.9		61.5		U
57	COMMON HIGH BANDWIDTH DATA LINK	A		55.6	36.8				U
SUBMARINE SURVEILLANCE EQUIPMENT									
58	AN/WLQ-4	A		2.8					U
59	SUBMARINE SUPPORT EQUIPMENT PROG	A		3.9	38.2		17.3		U
OTHER SHIP ELECTRONIC EQUIPMENT									
60	NAVY TACTICAL DATA SYSTEM	A		12.1	22.4				U
61	COOPERATIVE ENGAGEMENT CAPABILITY	B		81.7	60.2		15.9		U
62	GCCS-M EQUIPMENT AFLOAT	A		41.1	24.9		37.4		U
63	NAVAL TACTICAL COMMAND SUPPORT SYSTEM	A		79.2	58.2		46.7		U
64	ATDLS	A		28.8	19.0		19.2		U

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NO			CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	
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65	MINESWEEPING SYSTEM REPLACEMENT	A		17.2		19.6		9.0	U
66	SHALLOW WATER MCM	B		7.3		18.7		16.9	U
67	NAVSTAR GPS RECEIVERS (SPACE)	A		9.4		8.5		9.6	U
68	ARMED FORCES RADIO AND TV	A		15.9		7.7		9.0	U
69	STRATEGIC PLATFORM SUPPORT EQUIP	A		12.5		24.7		15.4	U
	TRAINING EQUIPMENT								
70	OTHER SPAWAR TRAINING EQUIPMENT	A		1.0		1.0		1.3	U
71	OTHER TRAINING EQUIPMENT	A		26.8		51.1		21.4	U
	AVIATION ELECTRONIC EQUIPMENT								
72	MATCALs	A		11.6		12.3		4.3	U
73	SHIPBOARD AIR TRAFFIC CONTROL	B		8.5		7.5		7.9	U
74	AUTOMATIC CARRIER LANDING SYSTEM	A		10.7		18.5		18.5	U
75	NATIONAL AIR SPACE SYSTEM	B		7.7		34.9		30.5	U
76	AIR STATION SUPPORT EQUIPMENT	A		7.2		7.2		6.7	U
77	MICROWAVE LANDING SYSTEM	A		4.6		5.3		5.1	U
78	FACSFAC	A		3.7		5.3		4.3	U
79	ID SYSTEMS	A		17.6		9.2		14.3	U
80	SURFACE IDENTIFICATION SYSTEMS	A		2.6		.6			U
81	TAC A/C MISSION PLANNING SYS(TAMPS)	A		23.2		20.7		12.0	U
	OTHER SHORE ELECTRONIC EQUIPMENT								
82	GCCS-M EQUIPMENT ASHORE	A		4.0		9.4			U
83	OSIS EVOLUTIONARY DEVELOPMENT (OED)	A		.9					U
84	TADIX-B	A		4.3		18.8		*	U

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NO		CODE	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	C
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85	NAVAL SPACE SURVEILLANCE SYSTEM	A		7.8		2.7			U
86	GCCS-M EQUIPMENT TACTICAL/MOBILE	A		24.6		14.0			U
87	COMMON IMAGERY GROUND SURFACE SYSTEMS	A		65.2		41.0		47.0	U
88	RADIAC	A		4.0		4.3		8.3	U
89	GPETE	A		9.5		7.7		7.4	U
90	INTEG COMBAT SYSTEM TEST FACILITY	A		6.4		4.3		4.4	U
91	CALIBRATION STANDARDS	A		1.9					U
92	EMI CONTROL INSTRUMENTATION	A		7.5		6.5		5.4	U
93	SHORE ELEC ITEMS UNDER \$2 MILLION	A		10.4					U
94	ITEMS LESS THAN \$5 MILLION	A				10.9		4.9	U
SHIPBOARD COMMUNICATIONS									
95	SHIPBOARD TACTICAL COMMUNICATIONS	A		31.9		25.2			U
96	PORTABLE RADIOS	A		6.4					U
97	SINCGARS	A		27.7					U
98	SHIP COMMUNICATIONS AUTOMATION	A		109.1		229.2		185.1	U
99	SHIP COMM ITEMS UNDER \$5 MILLION	A		31.2		30.5			U
100	INTEGRATED BROADCAST SYSTEM	A		10.2					U
101	COMMUNICATIONS ITEMS UNDER \$5M	A						30.9	U
SUBMARINE COMMUNICATIONS									
102	SHORE LF/VLF COMMUNICATIONS	A		13.9		36.2		31.4	U
103	SUBMARINE COMMUNICATION EQUIPMENT	A		63.7		83.2		78.0	U
104	ADVANCED VLF RECEIVER	B		16.1					U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
SATELLITE COMMUNICATIONS									
105	SATCOM SHIP TERMINALS (SPACE)	A		140.8		216.5			U
106	SATELLITE COMMUNICATIONS SYSTEMS	A						252.7	U
107	SATCOM SHORE TERMINALS (SPACE)	A		65.1		65.3			U
SHORE COMMUNICATIONS									
108	JCS COMMUNICATIONS EQUIPMENT	A		3.3		3.7		2.5	U
109	NSIPS	A		5.1		7.0		1.8	U
110	JEDMICS	A		7.0		16.9			U
111	GCCS EQUIPMENT	A		2.5					U
112	NAVAL SHORE COMMUNICATIONS	A		105.8		113.4		176.1	U
CRYPTOGRAPHIC EQUIPMENT									
113	INFO SYSTEMS SECURITY PROGRAM (ISSP)	A		39.2		66.8		46.6	U
CRYPTOLOGIC EQUIPMENT									
114	SPECIAL DCP	A						15.0	U
115	CRYPTOLOGIC COMMUNICATIONS EQUIP	A		20.8		21.0		17.2	U
DRUG INTERDICTION SUPPORT									
116	OTHER DRUG INTERDICTION SUPPORT	A		5.3					U
				-----		-----		-----	
TOTAL COMMUNICATIONS AND ELECTRONICS EQUIPMENT				1,646.1		1,948.8		1,490.3	
BUDGET ACTIVITY 03: AVIATION SUPPORT EQUIPMENT									

SONOBUOYS									
117	AN/SSQ-36 (BT)	A		2.9					U
118	AN/SSQ-53 (DIFAR)	A		28.0					U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
119	PASSIVE SONOBUOYS (NON-BEAM FORMING)	A			20.8				U
120	AN/SSQ-57 (SPECIAL PURPOSE)	A		2.4					U
121	AN/SSQ-62 (DICASS)	A		24.3	16.6				U
122	AN/SSQ-101 (ADAR)	B		19.4	16.7				U
123	SIGNAL, UNDERWATER SOUND (SUS)	A		1.4					U
124	SONOBUOYS - ALL TYPES	A					49.5		U
125	MISCELLANEOUS SONOBUOYS LESS THAN \$5 M	A			2.2				U
AIRCRAFT SUPPORT EQUIPMENT									
126	WEAPONS RANGE SUPPORT EQUIPMENT	A		22.9	23.0		15.1		U
127	EXPEDITIONARY AIRFIELDS	A		2.4	.1		3.3		U
128	AIRCRAFT REARMING EQUIPMENT	A		12.7	12.4		10.7		U
129	AIRCRAFT LAUNCH & RECOVERY EQUIPMENT	A		37.5	40.4		36.4		U
130	METEOROLOGICAL EQUIPMENT	A		27.9	31.3		30.9		U
131	OTHER PHOTOGRAPHIC EQUIPMENT	A		.6	1.7		1.7		U
132	AVIATION LIFE SUPPORT	A		22.7	36.8		20.4		U
133	AIRBORNE MINE COUNTERMEASURES	A		35.3	31.3		32.1		U
134	REWSON PHOTOGRAPHIC EQUIPMENT	A		.8					U
135	OTHER AVIATION SUPPORT EQUIPMENT	A		5.8	4.2		4.9		U
TOTAL AVIATION SUPPORT EQUIPMENT				247.1	237.6		204.9		
BUDGET ACTIVITY 04: ORDNANCE SUPPORT EQUIPMENT									
SHIP GUN SYSTEM EQUIPMENT									
136	GUN FIRE CONTROL EQUIPMENT	A		31.0	5.8		18.3		U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
SHIP MISSILE SYSTEMS EQUIPMENT									
137	MK-92 FIRE CONTROL SYSTEM	A		1.0					U
138	TARTAR SUPPORT EQUIPMENT	A		*					U
139	POINT DEFENSE SUPPORT EQUIPMENT	A		*					U
140	NATO SEASPARROW	A		7.3		.5		21.7	U
141	RAM GMLS	A		63.1		39.1		37.3	U
142	SHIP SELF DEFENSE SYSTEM	B		38.6		38.6		9.4	U
143	AEGIS SUPPORT EQUIPMENT	A		89.4		91.2		36.8	U
144	SURFACE TOMAHAWK SUPPORT EQUIPMENT	A		96.7		85.3		70.6	U
145	SUBMARINE TOMAHAWK SUPPORT EQUIP	A		3.9		2.1		2.9	U
146	VERTICAL LAUNCH SYSTEMS	A		10.3		7.2		7.0	U
FBM SUPPORT EQUIPMENT									
147	STRATEGIC PLATFORM SUPPORT EQUIP	A		2.9		9.3		2.9	U
148	STRATEGIC MISSILE SYSTEMS EQUIP	A		275.7		238.2		166.6	U
149	ANTI-SHIP MISSILE DECOY SYSTEM	A		21.9		32.3		33.8	U
ASW SUPPORT EQUIPMENT									
150	SSN COMBAT CONTROL SYSTEMS	A		18.7		35.1		20.9	U
151	SUBMARINE ASW SUPPORT EQUIPMENT	A		5.7		3.7		4.0	U
152	SURFACE ASW SUPPORT EQUIPMENT	A		4.9		6.1		6.3	U
153	ASW RANGE SUPPORT EQUIPMENT	A		4.5		6.4		6.9	U
OTHER ORDNANCE SUPPORT EQUIPMENT									
154	EXPLOSIVE ORDNANCE DISPOSAL EQUIP	B		8.8		8.9		7.5	U
155	UNMANNED SEABORNE TARGET	A		1.9					U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
156	INDUSTRIAL FACILITIES (CALIBRATION EQU	A		1.0					U
157	ITEMS LESS THAN \$5 MILLION	A				4.3		5.6	U
158	STOCK SURVEILLANCE EQUIPMENT	A		1.4					U
	OTHER EXPENDABLE ORDNANCE								
159	FLEET MINE SUPPORT EQUIPMENT	A		*					U
160	SURFACE TRAINING DEVICE MODS	A		6.8		10.6		7.9	U
161	SUBMARINE TRAINING DEVICE MODS	A		23.5		27.4		31.6	U
	TOTAL ORDNANCE SUPPORT EQUIPMENT			719.1		652.0		498.0	
BUDGET ACTIVITY 05: CIVIL ENGINEERING SUPPORT EQUIPMENT									
CIVIL ENGINEERING SUPPORT EQUIPMENT									
162	ARMORED SEDANS	A	1	.2			1	.2	U
163	PASSENGER CARRYING VEHICLES	A	102	3.2	25	.6	3	.1	U
164	SPECIAL PURPOSE VEHICLES	A		4.3					U
165	GENERAL PURPOSE TRUCKS	A		.1		1.6		1.0	U
166	CONSTRUCTION & MAINTENANCE EQUIP	A		1.5		2.7		6.2	U
167	FIRE FIGHTING EQUIPMENT	A		1.6		2.3		2.5	U
168	TACTICAL VEHICLES	B		1.3		9.3		10.5	U
169	AMPHIBIOUS EQUIPMENT	A		19.7		20.5		51.6	U
170	COMBAT CONSTRUCTION SUPPORT EQUIP	A		1.1					U
171	MOBILE UTILITIES SUPPORT EQUIPMENT	A		.4					U
172	OCEAN CONSTRUCTION EQUIPMENT	A		.4					U
173	POLLUTION CONTROL EQUIPMENT	A		20.7		23.9		22.2	U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
174	ITEMS UNDER \$5 MILLION	A				7.8		3.4	U
	TOTAL CIVIL ENGINEERING SUPPORT EQUIPMENT			54.4		68.7		97.7	
BUDGET ACTIVITY 06: SUPPLY SUPPORT EQUIPMENT									

SUPPLY SUPPORT EQUIPMENT									
175	MATERIALS HANDLING EQUIPMENT	A		4.7		6.2		7.6	U
176	OTHER SUPPLY SUPPORT EQUIPMENT	A		11.9		6.9		5.2	U
177	FIRST DESTINATION TRANSPORTATION	A		4.4		1.6		4.1	U
178	SPECIAL PURPOSE SUPPLY SYSTEMS	A		68.3		125.2		144.9	U
	TOTAL SUPPLY SUPPORT EQUIPMENT			89.2		140.0		161.8	
BUDGET ACTIVITY 07: PERSONNEL AND COMMAND SUPPORT EQUIPMENT									

TRAINING DEVICES									
179	TRAINING SUPPORT EQUIPMENT	A		5.1		3.1		1.6	U
COMMAND SUPPORT EQUIPMENT									
180	COMMAND SUPPORT EQUIPMENT	A		28.2		14.9		15.6	U
181	EDUCATION SUPPORT EQUIPMENT	A		2.3		2.3		2.1	U
182	MEDICAL SUPPORT EQUIPMENT	A		1.3		5.0		7.4	U
183	INTELLIGENCE SUPPORT EQUIPMENT	A		23.0		19.3		16.0	U
184	OPERATING FORCES SUPPORT EQUIPMENT	A		9.6		5.8		25.0	U
185	ENVIRONMENTAL SUPPORT EQUIPMENT	A		16.5		18.3		22.2	U
186	PHYSICAL SECURITY EQUIPMENT	A				2.3		9.6	U

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			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
OTHER									
187	CANCELLED ACCOUNT ADJUSTMENTS	A		12.4					U
TOTAL PERSONNEL AND COMMAND SUPPORT EQUIPMENT				98.4		71.0		99.5	
BUDGET ACTIVITY 08: SPARES AND REPAIR PARTS									

SPARES AND REPAIR PARTS									
188	SPARES AND REPAIR PARTS	A		243.9		273.2		208.9	U
TOTAL SPARES AND REPAIR PARTS				243.9		273.2		208.9	
TOTAL OTHER PROCUREMENT, NAVY				4,046.7		4,301.5		3,334.6	

Other Procurement, Navy
Program and Financing (in Thousands of dollars)

Identification code	17-1810-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1999 actual	2000 est.	2001 est.	1999 actual	2000 est.	2001 est.
Program by activities:							
Direct program:							
00.0101	Ships support equipment	946,065	910,427	573,480	939,561	771,374	609,406
00.0201	Communications and electronics equipment	1,642,290	1,948,778	1,490,336	1,597,867	2,135,453	1,537,011
00.0301	Aviation support equipment	251,256	237,554	204,932	255,317	202,969	204,020
00.0401	Ordnance support equipment	714,877	651,967	497,956	674,332	580,051	510,092
00.0501	Civil engineering support equipment	54,367	68,674	97,670	42,748	68,151	93,629
00.0601	Supply support equipment	89,139	139,984	161,808	94,599	114,395	151,299
00.0701	Personnel and command support equipment	104,909	70,961	99,488	109,472	76,146	98,117
00.0801	Spares and repair parts	243,799	273,155	208,941	235,003	235,346	210,511
00.9101	Total direct program	4,046,702	4,301,500	3,334,611	3,948,899	4,183,885	3,414,085
01.0101	Reimbursable program	53,392	42,000	42,000	45,999	54,202	42,000
10.0001	Total	4,100,094	4,343,500	3,376,611	3,994,898	4,238,087	3,456,085
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-1,735	-42,000	-42,000	-1,627	-42,000	-42,000
14.0001	Non-Federal sources(-)	-51,657			-52,778		
17.0001	Recovery of prior year obligations				-8,731		
Unobligated balance available, start of year:							
21.4002	For completion of prior year budget plans				-465,555	-543,326	-648,739
21.4003	Available to finance new budget plans		-38,951			-38,951	
21.4009	Reprogramming from/to prior year budget plan	-37,167					
Unobligated balance available, end of year:							
24.4002	For completion of prior year budget plans				543,326	648,739	569,265
24.4003	Available to finance subsequent year budget	38,951			38,951		
25.0001	Unobligated balance expiring	6,500			6,500		
39.0001	Budget authority	4,054,986	4,262,549	3,334,611	4,054,986	4,262,549	3,334,611
Budget authority:							
40.0001	Appropriation	4,060,662	4,320,238	3,334,611	4,060,662	4,320,238	3,334,611
40.3601	Unobligated Balance Rescinded	-28,500	-38,951		-28,500	-38,951	
40.7601	Reduction pursuant to P.L. 106-113(-), Titl		-22,138			-22,138	
40.7701	Reduction pursuant to P.L. 105-262 (-), 803	-55,247			-55,247		
41.0001	Transferred to other accounts (-)	-3,000			-3,000		
42.0001	Transferred from other accounts	81,071	3,400		81,071	3,400	
43.0001	Appropriation (adjusted)	4,054,986	4,262,549	3,334,611	4,054,986	4,262,549	3,334,611

Other Procurement, Navy
Program and Financing (in Thousands of dollars)

Identification code	17-1810-0-1-051	Budget Plan (amounts for PROCUREMENT actions programed)			Obligations		
		1999 actual	2000 est.	2001 est.	1999 actual	2000 est.	2001 est.
Relation of obligations to outlays:							
71.0001	Obligations incurred				3,940,493	4,196,087	3,414,085
72.1001	From Federal sources: Receivables and unpaid, unfilled orders, SOY				-78,045	-66,263	-66,263
72.4001	Obligated balance, start of year				3,193,645	3,682,444	4,005,971
74.1001	From Federal sources: Receivables and unpaid, unfilled orders, EOY				66,263	66,263	66,263
74.4001	Obligated balance, end of year				-3,682,444	-4,005,971	-3,633,925
77.0001	Adjustments in expired accounts (net)				-68,467		
78.0001	Adjustments in unexpired accounts				-8,731		
90.0001	Outlays (net)				3,362,714	3,872,560	3,786,131

Other Procurement, Navy
Object Classification (in Thousands of dollars)

Identification code	17-1810-0-1-051	1999 actual	2000 est.	2001 est.

Direct obligations:				
125.101	Advisory and assistance services	21,340	23,159	21,976
125.201	Other services	7,603	131,712	159,771
	Purchases goods/services from Government accounts			
125.301	Purchase of goods/services from Government accounts	126,825	138,806	131,034
125.303	Purchases from revolving funds	908,958	950,977	876,731
126.001	Supplies and materials	111,066	118,846	69,334
131.001	Equipment	2,773,107	2,820,385	2,155,239
		-----	-----	-----
199.001	Total Direct obligations	3,948,899	4,183,885	3,414,085
Reimbursable obligations:				
	Purchases goods/services from Government accounts			
225.303	Purchases from revolving funds	14,718	41,598	41,591
226.001	Supplies and materials		402	409
231.001	Equipment	31,281	12,202	
		-----	-----	-----
299.001	Total Reimbursable obligations	45,999	54,202	42,000
999.901	Total obligations	-----	-----	-----
		3,994,898	4,238,087	3,456,085

Comparison of FY 1999 Financing as reflected
in FY 2000 Budget with 1999 Financing as
Shown in the FY 2001 Budget

(\$ In Thousands)

	Financing Per FY 2000 Budget	Financing Per FY 2001 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	4,050,915	\$4,100,094	+\$49,179
Program Requirements (Service Account)	(\$4,008,915)	(\$4,046,702)	(+37,787)
Program Requirements (Reimbursable)	(\$42,000)	(\$53,392)	(+11,392)
Appropriation (Adjusted)	\$3,980,415	\$4,054,986	+\$74,571

Explanation of Changes in Financing

The Fiscal Year 1999 program has changed since the presentation of the FY 2000 budget as noted below:

1. Program Requirements. There has been a net increase to the appropriation (adjusted) of (+\$49,179). This net change is comprised of an increase in program requirements (+\$37,787) plus an increase in reimbursable authority of (+\$11,392).

Comparison of FY 1999 program requirements as reflected
in the FY 2000 Budget with FY 1999 program requirements
as shown in the FY 2001 Budget

Summary of Requirements
(\$ in Thousands)

	Total Program Requirements per FY 2000 Budget	Total Program Requirements per FY 2001 Budget	Increase (+) or Decrease (-)
Ships Support Equipment	\$954,401	\$948,436	-\$5965
Communications and Electronic Equip	1,184,901	1,646,128	-46,122
Aviation Support Equipment	243,679	247,148	-3,469
Ordnance Support Equipment	715,972	719,069	+3,097
Civil Engineering Support Equip	54,856	54,389	-467
Supply Support Equipment	89,537	89,230	-307
Personnel and Command Support Equip	74,063	98,411	+23,348
Spares and Repair Parts	246,506	243,891	-2,615
Total Fiscal Year Program	\$4,063,915	\$4,046,702	-\$17,213

Explanation by Budget Activity
(\$ In Thousands)

1. SHIP SUPPORT EQUIPMENT (-\$5,965) - Net decrease reflecting (-\$17,650) FY 1999 Congressional adjustments and internal reprogrammings (+\$11,685) including (+\$5,300) for Counter Drug Interdiction.

Explanation by Budget Activity (Continued)

(\$ In Thousands)

2. COMMUNICATIONS & ELECTRONIC EQUIPMENT (-\$46,122) - Net decrease reflecting (-\$9,307) FY 1999 Congressional rescissions, other Congressional adjustments (-\$17,026), offsets for high priority Navy programs, (-\$10,399), and internal reprogramming actions of (-\$9390).
3. AVIATION SUPPORT EQUIPMENT (-\$3469) - Net decrease reflecting (-\$15,243) Congressional adjustments, and internal reprogrammings (+11,774).
4. ORDNANCE SUPPORT EQUIPMENT (+\$3,097) - Net increase reflecting Congressional adjustments (-\$7,073), and internal reprogrammings (+\$10,170).
5. CIVIL ENGINEERING SUPPORT (-\$467) - Net decrease reflecting Congressional adjustments (-\$620), and internal realignments (+\$153).
6. SUPPLY SUPPORT EQUIPMENT (-\$307) - Net decrease reflecting Congressional adjustments (-\$307).
7. PERSONNEL & COMMAND SUPPORT (+\$23,348) - Net increase reflecting Congressional adjustments (+\$6,500), economic assumptions (-\$704), and increases for high priority Navy programs including paperless acquisition and smartcard (+\$16,144).
8. SPARES & REPAIR PARTS (-\$2,615) - Net decrease reflecting Congressional adjustments (-\$3,191), and internal realignments (+\$576).

Comparison of FY 2000 Financing as reflected
in FY 2000 Budget with 2000 Financing as
Shown in the FY 2001 Budget

(\$ In Thousands)

	Financing Per FY 2000 Budget	Financing Per FY 2001 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	\$4,142,091	\$4,343,500	+\$201,409
Program Requirements (Service Account)	(\$4,100,091)	(\$4,301,500)	(+201,409)
Program Requirements (Reimbursable)	(\$42,000)	(\$42,000)	0
Appropriation (Adjusted)	\$4,100,091	\$4,262,549	+\$162,458

Explanation of Changes in Financing

The Fiscal Year 2000 program has changed since the presentation of the FY 2000 budget as noted below:

1. Program Requirements. There has been a net increase to the appropriation (adjusted) of +\$162,458. This net change is comprised of an increase in program requirements (+\$184,596), less rescissions of (-\$22,138).

Comparison of FY 2000 program requirements as reflected
in the FY 2000 Budget with FY 2000 program requirements
as shown in the FY 2001 Budget

Summary of Requirements (\$ in Thousands)

	Total Program Requirements per FY 2000 Budget	Total Program Requirements per FY 2001 Budget	Increase (+) or Decrease (-)
Ships Support Equipment	\$858,709	\$910,427	+\$51,718
Communications and Electronic Equip	1,845,227	1,948,778	+103,551
Aviation Support Equipment	216,237	237,554	+21,317
Ordnance Support Equipment	629,418	651,967	+22,549
Civil Engineering Support Equip	67,144	68,674	+1,530
Supply Support Equipment	139,628	139,984	+356
Personnel and Command Support Equip	67,598	70,961	+3,363
Spares and Repair Parts	276,130	273,155	-2,975
Total Fiscal Year Program	\$4,100,091	\$4,301,500	+\$201,409

Explanation by Budget Activity
(\$ in Thousands)

1. Ships Support Equipment (+\$51,718) – Net changes reflect FY 2000 Congressional adjustments (+\$51,718).
2. Communications and Electronics Equipment (+\$103,551) – Net changes reflect FY 2000 Congressional adjustments (+\$103,551).

Comparison of FY 2000 program requirements as reflected
in the FY 2000 Budget with FY 2000 program requirements
as shown in the FY 2001 Budget

Explanation by Budget Activity (Continued)
(\$ in Thousands)

3. Aviation Support Equipment (+\$21,317) - Changes reflect FY 2000 Congressional reductions (-\$8953), and Congressional increases (+\$30,270).
4. Ordnance Support Equipment (+\$22,549) - Changes reflect FY 2000 Congressional adjustments (+\$13,345), and DoN internal realignments (+\$9,204).
5. Civil Engineering Support Equipment (+\$1,530) - Changes reflect FY 2000 Congressional adjustments (+\$1,530).
6. Supply Support Equipment (+\$356) - Changes reflect FY 2000 Congressional reductions (-\$744), and Congressional increases (+\$1,100).
7. Personnel and Command Support (+\$3,363) - Changes reflect Congressional reductions (-\$286), and Department realignments (+\$3,649).
8. Spare and Repair Parts (-\$2,975) - Changes reflect FY 2000 Congressional reductions (-\$1,435) and internal reprogrammings (-\$1,540).

**DEPARTMENT OF THE NAVY
OTHER PROCUREMENT, NAVY
FY 2001 PRESIDENT'S BUDGET
CHIEF OF NAVAL EDUCATION AND TRAINING**

		APPROPRIATION	BUDGET ACTIVITY: 7				LINE ITEM: 808100									
		OTHER PROCUREMENT, NAVY	PERSONNEL AND COMMAND SUPPORT EQUIPMENT				TRAINING SUPPORT EQUIPMENT				FEB 2000					
NO	ITEM	END USER	TOTAL COSTS IN THOUSANDS													
			FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		FY 2004		FY 2005	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
1	STASS	VARIOUS		2,141		3,059		1,562		419		0		0		0
2	LASER MARKSMANSHIP TRAINING SYSTEM (LMTS)			3,000		3,059		1,562		419		0		0		0
	TOTAL			5,141		3,059		1,562		419		0		0		0

P40 - JUSTIFICATION STATEMENT:

1. STASS is a mission critical training management system approved by CNET as delegated by ASN (RD&A) implemented at 90+ Navy training activities. STASS has eliminated seven legacy systems that were more than 15 years old, obsolete both technically and functionally, and cost prohibitive to maintain. STASS provides a comprehensive automation support tool for the day to day schoolhouse training functions. In today's environment when accurate and current information is critical to the training mission and in accordance with SECNAV's direction, there are no alternatives. STASS "up-line" reporting provides accurate student status and quota utilization information to the Navy Integrated Training Resource Management System (NITRAS) and the Navy Training Reservation System (NTRS). These systems, STASS/NITRAS/NTRS, form the overarching strategy which integrates the critical functions required for the efficient and effective recruiting, training, and distribution of personnel to the fleet. Together these systems, known as the Integrated Navy Training Requirements and Planning Data Base (INTRPD), support on-line real time synchronization of data bases and provide timely accurate processing of military manpower between the personnel and training commands. STASS is a major building block and key element to the success of the INTRPD concept.

2. The Laser Marksmanship Training System (LMTS) will enable military personnel to train with their own weapons and do so under home station conditions thereby conserving ammunition and other resources. LMTS is so precise that it can be used to correct the aim of both weapons and aiming devices.

EXHIBIT P-40

**DEPARTMENT OF THE NAVY
FY 2001 PRESIDENT'S BUDGET**

**STANDARD TRAINING ACTIVITY SUPPORT SYSTEM (STASS)
(\$000)**

Exhibit P-5 Cost Analysis

Date: February 2000

Appropriation/Budget Activity:

OTHER PROCUREMENT, NAVY

BA-7 - Training Support Equipment

LI: 808100

P-1 Line Item Nomenclature:

TRAINING SUPPORT EQUIPMENT

COST ELEMENTS: ID Code Hardware for STASS Locations	FY 99 Total Cost	FY00 Total Cost	FY 01 Total Cost
SUBTRAFAC NORVA (BETA)		0.098	
RTC GREAT LAKES		0.124	
NAMTRAGRU DET NORFOLK (BETA)		0.043	
NATTC PCOLA (Phase 1)		0.019	
NATTC PCOLA (Phase 2)		0.077	
FTC NORVA		0.094	
COMTRALANT/LTA		0.004	
NAMTRAGRU DET HQ PCOLA		0.019	
NAVOSHENVTRACEN		0.024	
NAMTRAGRU DET OCEANA		0.054	
NASC PNCLA		0.028	
MATSG 90 PNCLA/EAMTU PCOLA		0.039	
NAMTRAGRU DET CHER PT		0.039	
NAMTRAGRU DET NEW BERN		0.025	
TRITRAFAC KINGS BAY			0.101
NAMTRAGRU DET JAX			0.068
NAVHOSPCORPSCOL			0.026
SERVSCOLCOM GLKS			0.109
NMITC DAM NECK			0.021
NAVCONSTRACEN PH			0.032
NAVSCOLCECOFF PH			0.019
EDOSCOL PORT HUENEME			0.007
NAMTRAGRU DET LEMOORE			0.052
NAMTRAGRU DET NORTH ISL			0.068
NAMTRAGRU DET MIRAMAR			0.018
NAVCONSTRACEN GULFPORT			0.063
FCTCL DAM NECK			0.104
TRITRAFAC BANGOR			0.101
TORPEDOMAN "C" SCOL KEYPORT			0.006
NSHS SAN DIEGO CA			0.020
NAMTRAGRU DET MAYPORT			0.021
FLETRACEN MAYPORT FL			0.018
NAMTRAGRU DET CECIL FIELD			closed
NAVLEADTRUNIT LC			0.011
SWOSCOLCOM NEWPORT	0.080		
FCTCP SAN DIEGO	0.080		
NAVDIVESALVTRACN	0.080		
NAMTRAGRU DET TINKER	0.060		
NAMTRAGRU DET CAMP PEN	0.063		
NAVSCOLEOD DET EGLIN	0.043		
NAVTECHTRACEN MERIDIAN	0.232		
NAVTECHTRACEN CORRY	0.121		
FAMWTC INGLESIDE	0.121		
FLEASWTRACENPAC	0.219		
NAVTECHTRAU KEESLER	0.232		
NATTCDET LAKEHURST	0.006		
NAVSCSOL ATHENS	0.006		
FITCPAC SAN DIEGO	0.006		
NAVRESPRODEVGEN	0.121		
LTA SAN DIEGO	0.043		
CNATRA	0.043		
NCTC DET SHEPPARD	0.006		
DENTAL SCHOOL SHEPPARD	0.006		
NAVSCSCOLDET FT GORDON	0.043		
NAVSPECWARCEN	0.043		
NAVTECHTRACEN DET FT HUA	0.043		
NAMTRAGRUDET FT HUA	0.023		
NAS MAYPORT	0.043		
NCTCDET FORT LEONARD WOOD	0.043		
NTTCDET GOODFELL	0.043		
AFLOATRAGRU MIDPAC	0.043		
DLI MONTEREY	0.098		
FASOTRAGRUPAC	0.043		
TACTRAGRULANT	0.043		
TACTRAGRUPAC	0.043		
COMNAVAIRLANT	0.022	0.021	
COMNAVAIRPAC		0.043	
COMNAVSRFPAC		0.043	
COMNAVSRFLANT		0.043	
AFLOATRAGRU WESTPAC		0.121	
COMSUBPAC		0.043	
COMSUBLANT		0.043	
NAMTRAGRUDET Corpus Christi		0.121	
NAVAIRSYSCOM Pax River		0.043	
Regional Training Labs		0.188	
STASS Regional Production Hosts		0.523	0.342
STASS Regional Host Backup(s)			0.087
STASS RTM Upgrade/Expansion		0.290	0.268
Replace Obsolete Host Computer (STASS/NITRAS)		0.850	
Upgrade Host Computer (STASS/NITRAS)			
TOTALS	2.141	3.059	1.562

EXHIBIT P-5

**DEPARTMENT OF THE NAVY
FY 2001 PRESIDENT'S BUDGET**

**LASER MARKSMANSHIP TRAINING SYSTEM (LMTS)
(\$000)**

Exhibit P-5 Cost Analysis

Date: February 2000

Appropriation/Budget Activity:
OTHER PROCUREMENT, NAVY
BA-7 - Training Support Equipment

LI: 808100

P-1 Line Item Nomenclature:
TRAINING SUPPORT EQUIPMENT

COST ELEMENTS: ID Code	FY 99 Total Cost	FY 00 Total Cost	FY01 Total Cost
	<u> </u>	<u> </u>	<u> </u>
LMTS	3,000	0	0

TOTALS	3,000	0	0
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EXHIBIT P-5

BUDGET ITEM JUSTIFICATION SHEET										DATE:			
P-40										February 2000			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA7								P-1 ITEM NOMENCLATURE/LINE ITEM # BLI: 8106 Command Support Equipment					
Program Element for Code B Items:								OTHER RELATED PROGRM ELEMENTS					
	Prior Years	ID Code			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY													
EQUIPMENT COST (In Millions)					\$28.2	\$14.9	\$15.6	\$12.7	\$11.6	\$10.7	\$10.5	N/A	
SPARES COST (In Millions)													
PROGRAM DESCRIPTION/JUSTIFICATION:													
<u>Naval Sea Systems Command (NAVSEA)</u>													
<i>FY99 & FY00 funding procures Advanced Technical Information System (ATIS), to be attached to ship local area networks to allow access to technical drawings/tech manuals and other CD ROMs. The funding will allow completion of 50 ships in FY99 and 50 ships in FY00. The specific ships will be determined by Fleet priorities, but most likely will be tied to deploying battlegroup ships.</i>													
<i>FY99 & FY01 funding for this line item provides ADP/IT Equipment and Software funding for the newly established consolidated Pearl Harbor Naval Shipyard/Intermediate Maintenance Facility (PHNSY/IMF). Funds will be used for the procurement and execution of ADP/IT equipment projects (hardware and software) to maintain, modernize, and improve the PHNSY/IMF infrastructure and industrial base. Funding will allow PHNSY/IMF to support 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.</i>													
<i>FY00 funding provides support for the Regional Maintenance Automated Information System (RMAIS) Initiative. 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.</i>													
<u>Naval Computer and Telecommunications Command (NCTC)</u>													
<i>Command Support Equipment for NCTC involves the purchase of various pieces of equipment, such as: reprographic equipment and security disintegrators. This program provides the systematic replacement of investment items required in support of the operational mission of the claimancy.</i>													

BUDGET ITEM JUSTIFICATION SHEET										DATE: February 2000			
P-40													
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA7								P-1 ITEM NOMENCLATURE/LINE ITEM # BLI: 8106 Command Support Equipment					
Program Element for Code B Items:								OTHER RELATED PROGRM ELEMENTS					
	Prior Years	ID Code			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY													
EQUIPMENT COST (In Millions)					\$27.9	\$27.2	\$10.4	\$13.9	\$12.8	\$11.9	\$11.7	N/A	
SPARES COST (In Millions)													
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p><u>Chief of Naval Operations</u> <i>Command Support Equipment Supports the U.S. Atlantic Command in performing its mission of commanding most continental U.S. combat forces. Various systems to be kept operational include those for Information Transfer, Information, Training, Analysis, Modeling and Simulation and Command/Control Computers/Communications Intelligence (C4I). It also supports the Naval Space Command, which budgets for satellite/ground/fleet interface equipment., and the Naval Central Command, which budgets for equipment to protect forces from terrorism.</i></p> <p><u>Bureau of Naval Personnel</u> <i>The Chief of Naval Personnel Claimancy is charged with the responsibility of providing the quantitative and qualitative manpower requirements of the United States Navy as determined by the Chief of Naval Operations. To accomplish this task, the Claimancy is concerned with the conception, development, execution, appraisal and management of plans and programs for the recruitment; distribution; accounting; utilization; morale, welfare, and recreation; religious programs; and discipline of the members of the Navy. Programs include: Navy Recruiting Command; Human Resource Management Support System; United States Navy Bands; Enlisted Personnel Management Center; and various other functions and activities. Funds requested provide necessary equipment for the Defense Message System, Memphis Local Area Network, Recruiting Tools - Twenty-first Century, and Personalized Recruiting for Immediate and Delayed Enlistment , and the Electronic Military Personnel Records System.</i></p> <p><u>Department of the Navy, Information Network Program Office</u> <i>The Department of the Navy, Information Network Program Office (DoNINPO) is a SECNAV directed program tasked to consolidate the disparate DoN HQ Local Area Networks (LANs) and resources within the Pentagon, interconnect the major Navy Wide Area Networks (WANs) in the National Capitol Region (NCR), and to facilitate the development of DoN Information Technology (IT) standards.</i></p>													

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET										DATE:			
P-40										February 2000			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/BA7								P-1 ITEM NOMENCLATURE/LINE ITEM # BLI: 8106 Command Support Equipment					
Program Element for Code B Items:								OTHER RELATED PROGRM ELEMENTS					
	Prior Years	ID Code			FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY													
EQUIPMENT COST (In Millions)					\$27.9	\$27.2	\$10.4	\$13.9	\$12.8	\$11.9	\$11.7	N/A	
SPARES COST (In Millions)													
PROGRAM DESCRIPTION/JUSTIFICATION:													
<u>Department of the Navy, Information Network Program Office (cont.)</u>													
<p><i>Included in this effort are the architectures, technologies, standards, policies, and profiles necessary to provide or direct the acquisition and installation of the plethora of common information infrastructure tools and E-apps including those listed here as well as those emergent in the future to include: local area networks (LAN), remote and mobile network connectivity, palm-top and Personal Digital Assistant (PDA) technologies, wireless networking, wide area networks (WAN), network management, E-desktop applications, file standards, groupware applications, E-tools, E-data and repositories, telephony and telephone switching, cellular, Personal Communications Systems (PCs), television, desktop video teleconferencing technology (DT-VTC), low bit rate video (LBRV) and theater or conference room video teleconferencing technologies (VTC) used in support of connectivity and communications between Headquarters elements within the Washington region. In conjunction with the Defense Messaging System (DMS) architecture, an electronic mail system supporting both the X.400 and X.500 messaging protocols will be implemented on both the Classified and Unclassified LANs. Desktop and network hardware and software updates will be accomplished over a four year refresh cycle.</i></p>													

CLASSIFICATION:

UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System			DATE: February 2000					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-7						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD BLI: 8106 Command Support Equipment							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
						FY 1999			FY 2000			FY 2001		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
NAVSEA	Advanced Technical Info System	8106				50	40	1,986			2,000			
	Standard Procurement System (SPS)							0			0			
	Pearl Harbor ADP/IT Equipment and Software (Pearl Harbor Pilot)							1,563			0			761
	Regional Maintenance AIS							0	10	100	992			
	TOTAL NAVSEA							3,549			2,992			761
NCTC	Command Support Equipment	8106						1,299			1,653			1420
	TOTAL NCTC							1,299			1,653			1420
BUPERS	Memphis Local Area Network							0			300			0
	Defense Message System							348			0			0
	Recruiting Tools - 21st Century							0			300			0
	Personal Recruitment Immed/Delay Enlist							0			498			0
	Mail Sorting Eqpt							0			0			0
	Electronic Mil Pers Records System													3,300
	TOTAL BUPERS							348			1,098			3,300
CNO	USACOM							6,199			7,669			6,605
	NAVSPACECOM							0			1,441			429
	NSA Bahrain							1,113						
	Naval Post Graduate School							47						
	NAVCENT							165			0			
	TOTAL CNO							7,524			9,110			7,034
AAUSN	EA-21							5,790			0			0
	Electronic Commerce Commerce Online							610			0			0
	CPARS							780			0			0
	Electronic Mail/E-Catalog							0			0			0
	DONINPO							8,315			0			0
	DON SLDCADA System							0						3,077
	TOTAL AAUSN							15,495			0			3,077
TOTAL					0			28,215			14,853			15,592

CLASSIFICATION

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET						DATE February 2000		
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy/BA-7				P-1 Nomenclature FY 01 President's Budget BLI: 8108 Education Support Equipment				
		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
QUANTITY		Various	None	None	None	None	None	None
COST (in millions)		\$2.3	\$2.3	\$2.1	\$4.1	\$4.1	\$4.1	\$4.0
<p><u>Naval War College: IT-21 Requirements, McCarty-Little Hall (MLH) Requirements:</u> <u>(\$2,279 thousand in FY 1999, \$0 thousand in FY 2000, \$0 thousand in FY 2001)</u></p> <p>IT-21 Requirements The Maritime Battle Center and the Concept Development Group (newly established under the Navy Warfare Development Command) require expansion of Local Area Network infrastructures, upgrades to IT21 standards, and acquisition of technical equipment. One of the principle functions of the Maritime Battle Center will be to support Fleet Battle Exercises. Interaction to support these activities requires information exchange. As information exchange in the fleets is now based on IT21 standards, interoperability and compatibility requirements mandate the new organization be compliant with this information technology standard to communicate and exchange information both internally and with the Fleets. The funding provided to date covers 1) planned FY99 IT-21 requirements, except for the backbone upgrade to ATM (deferred to FY00), and 2) the partial coverage of equipment/systems to backfill Sims Hall (now occupied by NWDC) for equipment/systems that migrated from Sims Hall to McCarty-Little Hall when the NWC Wargaming Department moves from Sims Hall to McCarty Little Hall (remaining funding requirement deferred to FY00).</p> <p>McCarty-Little Hall Requirements McCarty-Little Hall is an integral facility for the development and examination of the Navy's Network Centric Warfare (NCW) concepts. As such, an infrastructure must be established for the data, video, and audio systems that will provide the technological foundation to support the mission of NWC's Wargaming Department. The OPN funding received to date will cover the full stand up of the Joint Command Center (JCC) and several Component Commander Cells (C3). These gaming centers will constitute the focal areas to examine and simulate NCW, and will be equipped with the presentation and information technology that is necessary to communicate with the fleets and other military gaming centers. Funding for the remainder of the MLH rooms deferred to FY00.</p> <p><u>Bureau of Personnel</u></p> <p>Funding will procure equipment to support Virtual Recruiting. This touch screen kiosk system provides education information to the user about the Navy. Users browse through web based sites to gain more information about Navy life, jobs, and benefits and interested users can provide necessary information to recruiters so that recruiters can contact eligible prospects.</p>								

CLASSIFICATION
UNCLASSIFIED

PROGRAM COST BREAKDOWN						Date: Feb 00		
P-5								
Appropriation/Budget Activity				P-1 Nomenclature				
Other Procurement, Navy/BA-7				BLI: 8108 Education Support Equipment				
TOTAL COST IN THOUSANDS OF DOLLARS								
COST CODE	ELEMENT OF COST	IDENT CODE	QTY	FY 1999 TOTAL COST	QTY	FY 2000 TOTAL COST	QTY	FY 2001 TOTAL COST
<u>Naval War College: IT-21 Requirements, McCarty-Little Hall (MLH) Requirements:</u>								
NWC IT-21/Sims Hall:								
	Desktop PCs	8108		0		0		0
	Servers	8108	var	230		0		0
	Notebooks	8108	var	155		0		0
	Network Hubs	8108	var	200		0		0
	Contractor Support	8108	var	50		0		0
	Miscellaneous (firewalls, wiring, etc..)	8108	var	56		0		0
	Subtotal, IT-21/Sims Hall			<u>691</u>		<u>0</u>		<u>0</u>
NWC McCarty-Little Hall:								
	Contract Support	8108	var	404		0		0
	Projection Equipment	8108	var	628		0		0
	A/V Switchers and Components	8108	var	228		0		0
	Audio Systems	8108	var	64		0		0
	Equipment Racks/Components	8108	var	135		0		0
	Security Devices	8108	var	11		0		0
	Simulation Models	8108	var	100		0		0
	Misc. Equipment	8108	var	18		0		0
	Subtotal, McCarty-Little Hall			<u>1,588</u>		<u>0</u>		<u>0</u>
	BUPERS - Virtual Recruiting					2300		2076
GRAND TOTAL, Education Support Equipment				<u>2,279</u>		<u>2,300</u>		<u>2,076</u>

**OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET**

(DOD EXHIBIT P-40)
February 2000

BUDGET ACTIVITY
BA-7

P-1 ITEM NOMENCLATURE
BLI: 8109 MEDICAL SUPPORT EQUIP

QUANTITY	FY 98	FY99	FY00	FY 01	FY02	FY 03	FY 04	FY 05
COST (in millions)	\$ -	\$ 1.3	\$ 5.0	\$ 7.4	\$ 7.7	\$ 6.6	\$ 7.3	\$ 6.7

This line provides funding for the Fleet Hospital Program whose mission is to provide comprehensive medical support to the Fleet and Fleet Marine Forces engaged in combat operations. Fleet Hospitals complement and expand the medical capabilities of the Fleet and play a critical role in the Navy's doctrinal concept of overseas theater support. Fleet Hospitals will deliver definitive health care (surgical or other acute) necessary to stabilize, treat, and rehabilitate (in-theater) wounded Sailors and Marines through relocatable, prepositioned, modular, rapidly erectable medical and surgical facilities accommodating 500 beds.

This line item also provides deployable medical support equipment to CINCLANTFLT for the USNS Comfort hospital ship and to CINCPACFLT for the USNS Mercy. These ships are deployed in the combat theater to treat wounded sailors and marines.

Classification: Unclassified

Exhibit P-40a, Budget Item Justification for Aggregated Items

February-00

OTHER PROCUREMENT, NAVY/BA-7, PERSONNEL AND COMMAND SUPPORT EQUIPMENT											(In Millions)	
Procurement Items \ Quantity	ID Code								PY FY 1998	CY FY 1999	BY1 FY 2000	BY2 FY 2001
COMP RAD (C-R) WORKSTATION (2)	A									\$0	\$0	
C-ARM (2)	A										\$440	
ENDOSCOPIC SYSTEM (1)	A										\$0	\$396
X-RAY ROOM W/TOMOGRAPHY (1)	A									\$0	\$0	\$670
NON-STEAM STERILIZER (1)	A									\$0	\$0	\$128
TOTAL PACFLT									\$0	\$0	\$440	\$1,194
Comp RAD (C-r) Workstation	8109									\$1,263	\$0	
C-ARM	8109									\$0	\$440	
Endoscopic System	8109									\$0	\$0	\$400
X-Ray Room W/Tomography	8109									\$0	\$0	\$659
Non Stern Sterilizer	8109									\$0	\$0	\$130
TMIP Hardware	8109									\$0	\$0	\$975
TOTAL LANTFLT									\$0	\$1,263	\$440	\$2,164
TRK, TRACTOR 25 TON	8109										\$1,433	\$1,512
LAUNDRY	8109										\$250	\$265
FIRE TRUCK	8109										\$91	\$96
AMBULANCE	8109										\$580	\$610
BUS AMBULANCE	8109										\$380	\$0
PICKUP 6 PASS	8109										\$350	\$324
TRK, STAKE 15 TON	8109										\$588	\$516
TRK, LUBE/FUEL SERV	8109										\$89	\$94
TRK, UTIL, MAINT	8109										\$0	\$39
TRK, SEPTIC, CLEAN	8109										\$0	\$132
TRK, WRECKER	8109										\$0	\$47
RTCH	8109										\$365	\$393
TOTAL BUMED									\$0	\$0	\$4,126	\$4,028
TOTAL MEDICAL SUPPORT EQUIPMENT									\$0	\$1,263	\$5,006	\$7,386

FY 2001 BUDGET ESTIMATES FOR PRESIDENT'S BUDGET

FEB 2000

ONI

BUDGET ITEM JUSTIFICATION SHEET

APPROPRIATION/BUDGET ACTIVITY: OTHER PROCUREMENT, NAVY BA 7 P-1 LINE ITEM: INTELLIGENCE SUPPORT EQUIPMENT (N7YG)

(U)		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Quantity		VARIOUS						
Cost (In Thousands)	\$	\$ 22967	\$ 19331	\$ 15993	\$ 13050	\$ 10578	\$ 12117	\$ 10913

(U) This line item funds equipment needed for the Office of Naval Intelligence, and intelligence activities of the Unified Commands. It is part of the General Defense Intelligence Program (GDIP) and National Foreign Intelligence Program (NFIP).

Derived From: OPNAVINST S5513.4B-04.1

Declassify On: X1

Exhibit P-40

FY 2001 BUDGET ESTIMATES FOR PRESIDENT'S BUDGET

(U)

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)								A. DATE FEBRUARY 2000		
B. APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA7 - ONI					C. P-1 ITEM NOMENCLATURE INTELLIGENCE SUPPORT EQUIPMENT					
Cost Element/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
NOTE: DETAILS AVAILABLE AT A HIGHER CLASSIFICATION.										
AAUSN/NCIS: DETAILS AVAILABLE AT A HIGHER CLASSIFICATION										
D. REMARKS										

**OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET**

(DOD EXHIBIT P-40)
February 2000

BUDGET ACTIVITY 07 - Personnel and Command Support Equipment				P-1 ITEM NOMENCLATURE Operating Forces Support Equipment					BLI: 8118
QUANTITY	FY 98	FY 99	FY00	FY01	FY02	FY03	FY04	FY05	
COST (in millions)		\$9.6	\$5.8	\$25.0	\$4.9	\$4.9	\$5.0	\$5.0	

This category includes funding for
 LANTFLT: (a) Information Technology Systems of automated financial equipment (FMIS); other information technology systems inclusive of computers, ancillary equipment, software, and support services; an automated warfare system (FIWC); and communications and connectivity LAN for warfare and Battle Group commanders (COMNAVBASE Norfolk); (b) General Purpose Equipment which encompasses telephone system upgrades and emergency generators; and (c) Waterfront Equipment which includes camels (carrier, Trident, wooden, and deep draft), paint floats, and fenders (submarine, Arleigh Burke Class, and Yokohama); and Anti-Terrorism/Force Protection equipment for deploying battle groups.
 PACFLT: Security Communications System, Firetrucks, Generators, Intrusion Detection System. Central Dispatch System, and Portal Crane.
 NAVEUR: FY1999: A Public Address System to encompass Capodichino (the main operational site, containing the C4I complex) adjacent to the civilian airport at Naples,Italy. System consists of 25 sirens connected to a central control unit.An emergent requirement to harden force protection, made necessary by the increased threat level resulting from operations Allied Force and Joint Guardian. FY 2000 funding in support of NATO - procurement of light armored vehicles. FY 2001: (a) Signella NAS I and NAS II Waves Personnel Alerting System (PAS). a wireless based emergency information system designed to alert and protect both major installations at Sigonella and the personnel from life threatening crisis situations. (b) Naples residential Intrusion Detection Security system, a wireless based system for the protection of sailors and their families living off base. (c) Naples consolidated dispatch center. A fully integrated system providing computer aided dispatch for police, fire and emergency vehicles, crime and fire report monitoring, 2-way mobile communications, remote location vehicle monitoring, voice recording and personnel warning. (d) Naples communications trunking system. Provides Digital SmartZone Narrowband Capable Trunking Radio System to meet land mobile radio communications to unify communications among the Giciagnano and CapodiChino areas and coverage along the road to Gaeta. It will greatly enhance the force protection for this high threat area.
 NAVSEA: FY 1999 funding for reverse osmosis life raft desalination gear.

UNCLASSIFIED										
CLASSIFICATION										
APPROPRIATION										
OTHER PROCUREMENT, NAVY										
BUDGET ACTIVITY										
07 - Personnel and Command Support Equipment										
PROGRAM COST BREAKDOWN (DOD Exhibit P-5)										
P-1 ITEM NOMENCLATURE										
SUBHEAD NO.										
Operating Forces Support Equipment										
TOTAL COST IN THOUSANDS OF DOLLARS										
FY 1999 FY 2000 FY 2001										
TOTAL TOTAL TOTAL										
COST IDENT QTY COST QTY COST QTY COST										
CODE ELEMENT OF COST CODE										
Security Communications System A										
Stuctural Fire Truck A										
Emergency Generator A										
Intrusion Detection System A										
Central Dispatch System A										
Portal Crane A										
Smart Card Program A										
Hyroneumatic Fenders A										
TOTAL (PACFLT)										
Waterfront 8118										
IT 8118										
General										
Repographic										
TOTAL (LANTFLT)										
NAPLES Public Address System										
Sigonella NAS I,II Waves PAS										
IDS										
Consolidated dispatch center										
Communications Trunking System										
Light Armored Vehicles										
AT/FP										
Public Address System										
TOTAL (NAVEUR)										
Reverse Osmosis Life Raft Gear										
TOTAL (NAVSEA)										
TOTAL OPERATING FORCES SUPPORT EQUIPMENT										

CLASSIFICATION:

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40										DATE: February 2000			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT							P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT LI:8126						
Program Element for Code B Items:							OTHER RELATED PROGRAM ELEMENTS						
	Prior Years	ID Code	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY					N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
EQUIPMENT COST (In Millions)					\$16.5	\$18.3	\$22.2	\$27.2	\$23.5	\$23.9	\$24.4		
SPARES COST (In Millions)													
PROGRAM DESCRIPTION/JUSTIFICATION:													
<p><u>AIRCRAFT SYSTEMS</u> AIRCRAFT DATA ACQUISITION SYSTEM</p> <p>This line item is for portable data acquisition and processing systems for use on either Fleet aircraft or dedicated aircraft (Naval Research Laboratory (NRL)). The systems will have the capability to collect/process physical oceanographic (temperature, conductivity, and sound speed versus depth) and acoustic data (ambient noise, bottom reverberation and transmission loss). The data will be collected via expendable sensors: physical oceanography (AXB, ACTD, AXSV) and Acoustics (sonobuoys). One of the systems will be UNIX-based and be derived from AIRDALE technology. A significant portion of its mission will include in-house processing and training for NAVOCEANO personnel. The other systems shall utilize a PC-based technology. All the systems will provide field personnel with data to prepare near real time briefings to support Fleet exercises such as SHAREM and Rapid Response.</p>													
<p><u>ALTIMETRY DATA FUSION SYSTEMS</u> ADFC (ALTIMETRY DATA FUSION CENTER)</p> <p>NAVOCEANO's Altimetry Data Fusion Center (ADFC) is the DoD processing center for all military, civilian, and foreign altimetry data streams (USN GEOSAT Follow-On, NASA Topex, European Space Agency ERS-2) as mandated by CNO OCEN 90-02 . Altimetry is an essential input to modeling and determining ocean currents as required by LITT OCEN 93-01 (Improved Mine Drift Predictions), LITT OCEN 93-06 (High Resolution Surface/Subsurface Current Predictions), and CINC OCEN 91-06 (Ocean Prediction Models). Two additional data streams will become operational in the FY00 timeframe, namely NASA's JASON and the European Space Agency's ENVISAT. These systems will dramatically improve the Navy's capability to meet the above requirements through improved ocean circulation modeling, but will also dramatically increase the data volume and processing load on the ADFC. In addition, by FY00 much of the ADFC hardware will be 5 to 7 years old. This acquisition is for hardware replacements and upgrades to the baseline ADFC system.</p>													
<p><u>AUV SYSTEMS</u> AUTONOMOUS UNDERWATER VEHICLE</p> <p>The Autonomous Underwater Vehicle (AUV) consists of a relatively low cost, 300 nautical mile range autonomous vehicle equipped with bathymetric, side-scan, Acoustic Doppler Current Profiler (ADCP), and Current, Temperature and Depth (CTD) sensors capable of independent high resolution environmental data collection. The AUV will significantly increase seafloor survey capability with only a modest increase in operating cost.</p>													

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT LI:8126
<p><u>GF MPL SYSTEMS</u> DTC/GF MPL SYSTEMS</p> <p>NAVOCEANO is tasked to provide deployed on-scene environmental prediction systems to the Fleet. These high visibility systems are developed to provide a local resource to predict the effects of the environment on Fleet platforms, sensors, and systems. NAVOCEANO must maintain currency with the Navy's Tactical Advanced Computer (TAC-n) family which includes the base line TAC-n processor with standard 3-D display subsystems (or "g3" subsystems as described by TAC-3 and TAC-4). Acquisition of a high-end TAC-n visualization system (i.e. "g4" for TAC-4) which will allow NAVOCEANO to develop advanced visualization capabilities for deployment on Fleet assets.</p> <p style="text-align: center;">GF MPL HARDWARE UPGRADE</p> <p>NAVOCEANO is tasked to provide deployed on-scene environmental prediction systems to the Fleet. These high visibility systems are developed to provide a local resource to predict the effect of the environment on Fleet platforms, sensors, and systems. The Tactical Environmental Support System (TESS) is a bundled hardware/software package, while the Geophysical Fleet Mission Program Library (GF MPL) essentially consists of the TESS software configured to be run on the Fleet users' own computer resources. This equipment will allow TESS (3) software to be rehosted for subsequent distribution to the Fleet for use on their systems.</p> <p><u>HYCOOP SYSTEMS</u> HYCOOP DIGITAL SIDE SCAN SONAR</p> <p>Side scan sonar data is used to ascertain hazards to navigation and to determine depth between survey lines. These data are used to populate imagery data bases such as the Sea Floor Trackline Data Base and various Mapping, Charting, and Geodesy (MC&G) charts. Current HYCOOP assets do not possess the capability to digitally record the side scan data. The existing analog paper records obtained have short shelf lives, are expensive to use, and are generally poor quality. Moreover, the side scan data record acquired by NAVOCEANO from HYCOOP is a paper copy of the single, poor quality original. The upgrade to digital recording will facilitate digital archiving on magnetic media which has a much longer shelf life, is inexpensive to use, has high accuracy recording and is readily and accurately reproducible. Digital archiving will facilitate the construction of sonar mosaics to obtain aerial views having a photographic-like quality from acoustic side scan data. The systems will incorporate a video display to provide fast, accurate, and simple target marking identification. This computerized approach will dramatically reduce the required data analysis time. Additionally, the acquisition of digital technology has much greater system dynamic range than current systems and enables the use of in-house digital signal and image processing techniques to extract subtle details from the data.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
 SEAMAP TOWFISH UPGRADE This upgrade to the SEAMAP system will allow survey requirements to be met without interruption. Fleet requirements for seafloor bathymetric and acoustic backscatter maps, and quantitative backscatter measurements for SWASI, Mine Warfare, and Route Survey data collection can be accomplished. This upgrade will increase pulse compression and calibration capability which will allow a much greater transmit energy which results in better bathymetric data records and more accurate products for the warfighter. <u>SHALLOW WATER SYSTEMS</u> SHALLOW WATER SEISMIC SYSTEM The Shallow Water Seismic System is a portable roll on/roll off system for use on T-AGS 60 ships in water depths to approximately 300 meters. The system includes a CHIRP Subbottom Profiler, a Wide Angle Bottom Reflection (WABR) , a seismic sound source, and a seismic data acquisition system. This system is required to support high priority acoustic and geophysical survey operations. Data collected from this system is used to produce acoustic and geophysical databases. These data provide support for Fleet sonar system performance and weapons system predictions.		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT LI:8126	
<u>SHIPBOARD INSTRUMENTATION</u>		
CTD ACQUISITION & PROCESSING SYSTEM CALIBRATION UPGRADE		
<p>The existing inventory of Connectivity, Temperature and Depth (CTD) sensors consists primarily of the Falmouth Scientific, Inc. (FSI) ICTD underwater unit and deck unit. Due to problems associated with design and quality control there have been complaints about performance and reliability. NAVOCEANO is working directly with the manufacturer to resolve these issues at this time. However, it is imperative that NAVOCEANO has a plan in place in the event that the problems with the FSI ICTD cannot be resolved. The CTD is one of the primary sensor systems used in the NOLS program throughout the research community. This CTD system will be evaluated "in-house" and at sea as a potential replacement for FSI ICTD.</p>		
DIGITAL SIDE SCAN WITH CHIRP - T-AGS 63		
<p>NAVOCEANO does not currently have side scan sonar capability aboard T-AGS 63. It is anticipated that these vessels will be fitted with Hydrographic Survey Launches (HSLs) at some point. Side scan sonar capability is required to effectively meet DMA hydrographic and Mine Warfare (MIW) data requirements. T-AGS 63 and later HSLs will be outfitted with these systems, which will provide the capability to (1) digitally archive raw side-scan data to be used in populating sea floor trackline databases, (2) precisely geo-reference side scan sonar scan-line data for accurate target location and identification, and (3) monitor real-time data collection using a video display with optional and concurrent hardcopy output. Current systems collect analog data only and are limited to hardcopy archiving. This is a significant operational and processing limitation, supporting only marginal data analysis and subsequent product development.</p>		
EM1000 MULTIBEAM UPGRADE - T-AGS 51		
<p>T-AGS 51 is currently equipped with an EM1000 Shallow Water Multibeam. This system is no longer in production and is expensive to maintain, especially with regard to replacements part availability and long lead time logistics support. This EM1000 multibeam has been in use for approximately 10 years and required life cycle replacement. Without the EM1000 system, the ability of the ship to conduct multibeam surveys will degrade as equipment becomes unsupportable.</p>		

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P- 40 CONTINUATION		FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #	
OTHER PROCUREMENT, NAVY	ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT		
GGPS - TAGS 64		
<p>Differential Global Positioning System (DGPS) with Geodetic capability are required to provide the geographic accuracy specified on hydrographic charts. These new systems replace older versions that become obsolete in CY97. DGPS Reference Stations and landmarks can be rapidly positioned if the DGPS includes a geodetic capability. Set up time can be reduced by 90 to 95%. Since JPO will be eliminating non-military access to the L2 frequency on GPS satellites, accuracy of civilian systems will be immediately degraded. This affects NAVOCEANO since we use untended receivers and currently employ civilian systems.</p>		
HIDEX BIOLUMINESCENCE PHOTOMETER		
<p>The High Intake Defined Excitation (HIDEX) photometer system supports numerous validated requirements to provide bioluminescence data to determine non-acoustic detection of naval assets. These data are vital to the Navy's ability to operate undetected. The system measures bioluminescence, light propagation, and other pertinent parameters in the water column which are required to produce such warfighting support products as STOICs, STORMs, and Environmental Guides.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
HIGH SPEED DIGITAL SIDE SCAN SONAR-T-AGS 62		
<p>NAVOCEANO currently collects high speed side scan imagery data in support of Q-Routes and Mine Warfare (MW) requirements. Requirements for this type of data have been increasing and NAVOCEANO has only a single system of this type in the inventory. This significantly limits the ability to collect high resolution data in more than one operational area, or to have an installed backup capability on another platform. Without the addition of this high speed digital side scan sonar system to T-AGS 62, our ability to collect this data will remain very limited.</p>		
HSL (SHORE-BASED) T-AGS 60/61		
<p>The procurement and outfitting of a shore-based Hydrographic Survey Launch (HSL) provides NAVOCEANO with a local system integration platform that is identical to the HSLs that will be deployed on T-AGS 60 class ships. This platform will be used for at-sea testing of survey system installation or upgrade. The shore-based HSL will also provide NAVOCEANO the capability to provide its survey personnel with comprehensive hydrographic training prior to field assignment. Incorporating this capability into NAVOCEANO's operating tools will increase the effectiveness of hydrographic survey efforts by providing the ability to perform integration and engineering testing and improved personnel training in the local commuting area.</p>		
MULTIBEAM UPGRADE HSL - TAGS 51		
<p>NAVOCEANO has multiple requirements to collect bathymetry and imagery data in littoral areas. Presently the near-shore data (less than 50 meters) is collected from HSLs having a single beam sounder and imagery data is collected by towing a side-scan sonar. The replacement of the single-beam sonar with a high resolution swath multibeam capable of collecting 140 degrees swath to 20 meters., 100 degrees swath 20 to 50 meters and 60 degrees swath 50 to 150 meters. The system will collect concurrent bathymetry and imagery data. In 25 meters the HSL would need less than 10% of the time to survey a given area and would collect higher resolution bathymetry and imagery data.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
MULTICHANNEL ACOUSTICS SYSTEM		
This equipment is PC based sonar simulator for the SIMRAD EM121A. The equipment will operate on the TAGS-60 class ships to allow system testing dockside rather than at sea. The equipment will also be used for SIL training.		
MULTICHANNEL SEISMIC SYSTEM		
This equipment provides high resolution measurements of sediment structure along with velocity information of the sediments. This information is critical for construction of geophysical data bases that support acoustic performance prediction systems.		
POS-MV		
The POS-MV is an attitude sensor system which will provide backup/replacement for existing equipment. The new equipment will reduce life cycle maintenance cost, reduce lost survey time and provide a redundant system.		
WIRE ROPE REELING MACHINE		
The Wire Rope Reeling machine is portable equipment used for reeling wire to/from ship equipment to shore/spools. The equipment currently in use is over 20 years old. The equipment cannot be repaired economically because the manufacturer is no longer in business.		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
FLEET NUMERICAL METEOROLOGY AND OCEANOGRAPHY CENTER		
<p>Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA provides responsive quality meteorological and oceanographic (METOC) guidance and information to Navy and other Department of Defense activities worldwide to increase safety of forces and to optimize the use of platforms, weapons, sensors and facilities. METOC support to the operating forces is provided principally through five geographically dispersed commands (four USN sites located in Fleet concentration areas, and Air Force Global Weather Center which supports USAF and USA) via direct connectivity and through DoD circuits. Additionally, thousands of DoD PC users receive their product support directly from FNMOC using advanced mathematical techniques on high-performance computers. Analyses are used to predict the state of atmosphere and oceans for periods ranging from a few hours to a week. These analyses and predictions are used as the basis of specific, fleet-related products for platforms, weapon systems and sensors.</p>		
<p>PRIMARY OCEAN PREDICTION SYSTEM (POPS) ENHANCEMENTS</p> <p>DoD's role of "global presence" has stressed the current super computer architecture beyond its capacity to provide adequate support. Mission critical functions will be addressed through the use of additional processors and disk storage devices. Customer service will be improved via upgrades to client/server architecture of the worldwide distribution system. Greater emphasis on preparation for and reaction to regional conflicts and the littoral threat has resulted in a greatly increased demand for high resolution, coupled model meteorological guidance and forecasts, as well as oceanographic support to tactical coastal operations. The capability to produce and distribute products to users will be significantly improved as well. Improved atmospheric model output will be available for regional centers to initialize locally-run mesoscale models. Higher resolution nests will be available to ships to run local area analysis and short duration forecasts. This upgrade will provide FNMOC customers with better atmospheric and oceanographic forecasts at longer ranges as a result of sharper data focus, improvements in physics and increase in the resolution of the models, including a coupled atmosphere/wave model. It will also provide improved operational data management and implementation of 3-dimensional variational data assimilation.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT LI:8126	
U.S. NAVAL OBSERVATORY		
<p>The Naval Observatory, Washington, DC, provides the astronomical and timing data required by the Navy, the Department of Defense, other government agencies and the general public. Precise time and astronomical data are essential for command, control and communications; navigation and precise positioning; and targeting of tactical and strategic weapons systems.</p>		
<p>VLBI SUBSYSTEM</p>		
<p>VLBI provides the most accurate means of determining astronomical time and the celestial reference frame. Subsystems are needed to keep the VLBI program in Earth orientation in operation. These are data acquisition systems (receivers, digitizing and recording systems) and hydrogen maser clocks needed at the three observation sites in Kokee Park, Hawaii; Fairbanks, Alaska; and Green Bank, West Virginia.</p>		
<p>1.3M CHARGED COUPLED DEVICE ARRAY</p>		
<p>Procurement of this array is to enable the 1.3M astrometric telescope to track Earth satellites and space debris. This array must have a state-of-the-art readout capability in order to achieve this.</p>		
<p>IR ASTROMETRIC TELESCOPE</p>		
<p>This telescope will measure the precise celestial position of space objects at wavelengths of 1-10 microns. This is the wavelength band that makes manmade space objects more luminous. This telescope will track satellites and map space debris. It will also establish an IR reference frame.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
<p>INDIUM ANTIMONIDE ARRAY DETECTORS</p> <p>These array detectors with sensitivities between 1 and 5 micron wavelengths are needed to astronomically map the celestial background emission. The precise positions of objects at these wavelengths may be used in guidance systems for infrared seekers.</p> <p>TIME TRANSFER RECEIVER</p> <p>These receivers are needed to monitor the time on the GPS code signal. They are to be multi-channel in order to monitor all satellites above the horizon at Washington, D.C. and Falcon, AFB. This information is needed to maintain time on the GPS satellites in accord with an Interface Control Document between the Observatory and the Air Force.</p> <p>MARK IV UPGRADE</p> <p>This procurement will upgrade the VLBI Data Acquisition System to Mark IV capability. These capabilities will replace the data acquisition hardware at the VLBI station at Kauai (Hawaii) and at Green Bank (West Virginia) currently equipped with Mark IIIA or VLBI style systems. This is also essential to maintain compatibility with other VLBI stations in the global network, some of which have already made the upgrade.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
<p>CESIUM SYSTEM</p> <p>The Master Clock consists of over 10 hydrogen masers, 45 cesium standards and associated electronics, computer and communications systems to establish the time scale. Additional maser and cesium atomic clock standards must be procured to replace those that have reached the end of their useable ten-year lifetime. The hydrogen maser atomic clocks are very precise in short-term stability and are utilized in conjunction with cesium beam atomic clocks that provide long-term stability to ensure the accuracy of the Navy/DOD/National Master Clock System. The components of the clock must be replaced as they age to maintain the accuracy of the timescale. This system must continue to provide a timescale stable to 12 billionths of a second for GPS operations. Smart weapons, long-range Cruise missiles and weapons delivery platforms need near-perfect positioning and precise time (nanoseconds) information. Lack of replacement of the hydrogen maser and cesium standards will degrade the accuracy of the Maser Clock, leading to the possibility of failing to meet the requirements for accurate time for precise targeting systems and degraded security for secure communication systems. The Observatory will not be able to meet its mission of providing time to GPS and other DOD users who need accurate time without the Master Clock Replacement.</p> <p>OPTICAL INTERFEROMETER SUBSYSTEM</p> <p>These subsystems are necessary to bring the optical interferometer into full operation. Subsystems include mirror systems for conditioning and reducing the beam size and fast steering mirror systems to compensate for the atmosphere. These observations are necessary for the maintenance of the accuracy of the celestial reference frame for guidance systems.</p>		

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BUDGET ITEM JUSTIFICATION SHEET		DATE:
P- 40 CONTINUATION		FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE/LINE ITEM #	
OTHER PROCUREMENT, NAVY	ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT		
<p>PMM DIGITAL</p> <p>DVD storage system capable of serving the 10-terabyte Precision Measuring Machine (PMM) database to DoD and civilian astronomers over the World Wide Web.</p> <p>3H MASER SYSTEM</p> <p>Hydrogen Masers are an integral part of the Master Clock system at the Naval Observatory. These clocks are very precise in the short term and are utilized in conjunction with cesium beam clocks to ensure accuracy of the Navy/DoD/National Master Clock System.</p> <p>FIBER OPTIC DISTRIBUTION SYSTEM</p> <p>Fiber optic systems offer the highest accuracy time transfer over limited distances. This system is needed to replace the present system that links the cesium and hydrogen maser time standards making up the Master Clock in Washington, DC. The present system will reach the end of its operational lifetime in 2002.</p> <p>MOBILE EARTH STATION</p> <p>This Mobile Earth Station is needed to calibrate the Two Way Satellite Time Transfer (TWSTT) at remote sites. This technique is employed when the highest possible accuracy is needed for time synchronization. This earth station is needed to support space operations for surveillance.</p> <p>NEW TECHNOLOGY CLOCK</p> <p>New atomic clocks are being developed that will exceed the accuracy of the present atomic clocks making up the Master Clock. This improvement in accuracy will approach will make it possible to have knowledge of time at the 0.1 billionth of a second level. It is expected that production models will be available by 2002. This accuracy is needed for improvement in the accuracy of the GPS system necessary for precisely guided munitions such as Cruise missiles.</p>		

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BUDGET ITEM JUSTIFICATION SHEET P- 40 CONTINUATION		DATE: FEBRUARY 2000
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT	P-1 ITEM NOMENCLATURE/LINE ITEM # ENVIRONMENTAL SUPPORT EQUIPMENT	LI:8126
CNMOC HEADQUARTERS		
<p>LASER AIRBORNE BATHYMETRIC SURVEY SYSTEM (LABS)</p> <p>The objective of the LABS program is to obtain very high speed bathymetric data collection capability in very shallow water (0-50m) in non-hostile environments that support Navy MC& G requirements. Data would support Navy and conventional nautical charting efforts in both routine operation and rapid response capability. The LABS system can acquire data at a rate of about 130 sqnm/24 vs 20 sqnm/24 for a survey ship.</p>		
<p>UNMANNED UNDERWATER VEHICLE (UUV)</p> <p>The UUV program acquires UUV technology that can operate as force multipliers and collect various oceanographic data in support of Oceanographic and MC&G requirements and provide access to denied areas. The intent of the UUV operations center is to have a variety of UUV's to meet various jobs. They will be deployed from the fantail and be allowed to survey in a passive mode for a specified period. Once that period is met, they will wait for recovery and its data downloaded for processing. Sensors onboard this UUV will include CTD, SSS, and single beam echo sounders.</p>		
<p>SHALLOW WATER SYSTEMS</p> <p>A new Fleet requirement for a worldwide Shallow Water digital navigation database for the littoral regions has resulted in a need for a greater resolution, more stringent bathymetric database than already exists. Consequently, new multibeam swath sonar systems, digital side scan sonars systems, and additional shallow water survey platforms (Hydrographic Survey Launches (HSL)) must be procured to meet this critical navigation to support safe, secure SSN operations. Additionally, recent changes in hydrographic data collection techniques by the International Hydrographic Organization (IHO) have necessitated newer, more precise, shallow water survey systems be procured or upgraded to support the National Imagery and Mapping Agency's chart production in order to meet these new IHO standards.</p>		

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WEAPONS SYSTEMS COST ANALYSIS P-5						WEAPONS SYSTEMS			DATE: FEBRUARY 2000					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ENVIRONMENTAL SUPPORT EQUIPMENT L7Z7							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1999			FY 2000			FY 2001			FY 2002		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	Naval Oceanographic Office													
	<u>Aircraft Systems</u>													
	Aircraft Data Acquisition System		1	200	200									
	<u>Altimetry Data Fusion Systems</u>													
	ADFC (Altimetry Data Fusion System)		1	200	200									
	<u>AUV Systems</u>													
	Autonomous Underwater Vehicle		1	2,650	2,650	1	2,656	2,656						
	<u>Central Site Systems</u>													
	Central Data Base Server		1	169	169									
	Survey Workstations/Mass Storage		3	130	390									
	<u>Communications Systems</u>													
	ATM Capability/ATM Upgrade					1	274	274	1	444	444			
	<u>Environmental Systems</u>													
	Comprehensive Environmental Assessment								1	600	600			
	Integrated Drifting Buoys		145	4	580	119	4	475	164	4	655			
	MIDEX Bioluminescence Photometer								3	105	315			
	Optics Measurement Array		1	120	120				1	120	120			
SubTotal			153		4,309	121		3,405	170		2,134			

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WEAPONS SYSTEMS COST ANALYSIS P-5						WEAPONS SYSTEMS			DATE: FEBRUARY 2000					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ENVIRONMENTAL SUPPORT EQUIPMENT L7Z7								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1999			FY 2000			FY 2001			FY 2002		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	<u>GMPL SYSTEMS</u>													
	DTC/GMPL System		1	150	150									
	GMPL Hardware Upgrade		1	150	150									
	<u>HYCOOP SYSTEMS</u>													
	HYCOOP Digital Side Scan Sonar		1	515	515									
	FLYAWAY Survey System							1	370	370				
	<u>HYDROPHONE SYSTEMS</u>													
	Hydrophone Collection System		1	250	250									
	<u>NAVIGATION SYSTEMS</u>													
	Geodetic GPS - T-AGS 52		1	171	171									
	Geodetic GPS - T-AGS 64					1	175	175						
	Ultrashort Baseline Tracking System							1	125	125				
	<u>SATELLITE SYSTEMS</u>													
	Satellite Processing Upgrade		1	200	200									
SubTotal			6		1,436	1		175	2		495			

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WEAPONS SYSTEMS COST ANALYSIS P-5						WEAPONS SYSTEMS			DATE: FEBRUARY 2000					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ENVIRONMENTAL SUPPORT EQUIPMENT L7Z7							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1999			FY 2000			FY 2001			FY 2002		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	<u>SEAMAP SYSTEMS</u>													
	SEAMAP Fiber Optics System									1	125	125		
	SEAMAP Towfish Upgrade									1	250	250		
	<u>SHALLOW WATER SYSTEMS</u>													
	Shallow Water Seismic System									1	816	816		
	<u>SHIPBOARD INSTRUMENTATION</u>													
	CTD Acquisition & Processing System UG									7	125	875		
	Digital Side Scan with Chirp - T-AGS 63		1	530	530					1	600	600		
	EM1000 Multibeam Upgrade - T-AGS 51/52		2	684	1,368									
	HIDEX Bioluminescence Photometer									1	500	500		
	High Speed Digital Side Scan - T-AGS 62		1	400	400									
	Hydrographic Survey Launch -T-AGS 60/61					2	2,050	4,100		2	2,000	4,000		
	Multibeam Upgrade HSL - T-AGS 51									2	861	1,722		
SubTotal			4		2,298	2		4,100		16		8,888		

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WEAPONS SYSTEMS COST ANALYSIS P-5						WEAPONS SYSTEMS			DATE: FEBRUARY 2000					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ENVIRONMENTAL SUPPORT EQUIPMENT L7Z7							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1999			FY 2000			FY 2001			FY 2002		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	Multichannel Acoustic System								1	125	125			
	Multichannel Seismic System								1	670	670			
	POS/MV								1	175	175			
	Wire Rope Reeling Machine								1	137	137			
	Subtotal								4		1,107			
	NAVOCEANO Total		163		8,043	124		7,680	192		12,624			

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System			DATE: FEBRUARY 2000					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ENVIRONMENTAL SUPPORT EQUIPMENT L7Z7								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1999			FY 2000			FY 2001			FY 2002		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	U.S. NAVAL OBSERVATORY													
	1.3 Charged Coupled Device Array					1	185	185						
	Indium Antimonide Array Detectors		1	190	190				1	250	250			
	IR Astrometric Telescope								1	300	300			
	Optical Interferometer Subsystem		1	538	538	1	508	508						
	Cesium System		1	413	413	1	420	420	1	420	420			
	Time Transfer Receiver		1	300	300	1	300	300	1	150	150			
	PMM Digital								1	100	100			
	3H Maser System		1	235	235	2	250	500	2	250	500			
	Mobile Earth Station								1	206	206			
	Fiber Optic Distribution System								1	100	100			
	Mark IV Upgrade		1	240	240	1	150	150						
	VLBI Subsystem		2	125	250	1	150	150	1	150	150			
	OBSERVATORY SUBTOTAL		8		2,166	8		2,213	10		2,176			

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System			DATE: FEBRUARY 2000					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-7 PERSONNEL AND COMMAND SUPPORT EQUIPMENT						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD ENVIRONMENTAL SUPPORT EQUIPMENT L7Z7							
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 1999			FY 2000			FY 2001			FY 2002		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
	FLEET NUMERICAL METEOROLOGY AND OCEANOGRAPHY CENTER POPS Enhancements		1		6,291	1		8,359	1		7,447			
TOTAL			172		16,500	133		18,252	203		22,247			

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BUDGET ITEM JUSTIFICATION SHEET						DATE February 2000		
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 7				P-1 ITEM NOMENCLATURE PHYSICAL SECURITY EQUIPMENT (812800)				
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
Cost (in millions)	-	-	\$2.3	\$9.6	\$1.0	\$10.2	\$10.3	\$10.3
<p>Up-Armored High Mobility Multipurpose Wheeled Vehicles (HMMWVs)</p> <p>The SSP funding in this P-1 line provides for the procurement of nuclear weapons security vehicles required at the Strategic Weapons Facility, Atlantic (SWFLANT) and Strategic Weapons Facility, Pacific (SWFPAC). The current armored personnel carriers (APCs) in use at SWFLANT and SWFPAC are not HMMWV-type vehicles. SWFLANT has a model of APC known as Dragoons and the SWFPAC vehicles are V-150s. Vehicles at both sites are becoming increasingly more difficult and expensive to support. The existing vehicles have major reliability and operability problems requiring significant management attention to maintain the fleet without presenting excessive risk to site security. The HMMWV is the proposed replacement APC to both Dragoons and V-150s since it fulfills all mission requirements, has proven reliability, has low projected major maintenance costs and has a projected long production run.</p> <p>Naval Criminal Investigative Service (NCIS)</p> <p>This program provides integrated physical security/antiterrorism security essential to detect, deter and defeat terrorist and criminal activity targeted against Navy people, government property, and facilities ashore. Specifically, physical security equipment/systems procured provide protection of mission essential assets, such as: nuclear weapons; arms, ammunition, and explosives CAT's I and II. Security upgrades in support of the White House Military Office. Additionally, funding is included for Intrusion Detection Systems requirements.</p>								

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EXHIBIT P-40 BUDGET JUSTIFICATION SHEET

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WEAPON SYSTEM COST ANALYSIS								DATE:	
EXHIBIT (P-5) PROGRAM COST BREAKDOWN								Feb 2000	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE/SUBHEAD					
OPN BA-7:PERSONNEL AND COMMAND				PHYSICAL SECURITY EQUIPMENT/37X7					
SUPPORT EQUIPMENT				TOTAL COST IN THOUSANDS OF DOLLARS					
WEAPON SYSTEM	Ident.	FY 98	TOTAL	FY 99	TOTAL	FY 00	TOTAL	FY 01	TOTAL
COST ELEMENTS	Code	Qty	COST	Qty	COST	Qty	COST	Qty	COST
Up-Armored High Mobility Multipurpose Wheeled Vehicles (HMMWVs)						9	1,377	17	2,426
Regional Security Systems							967		7,203
Total							2,344		9,629

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