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DEPARTMENT OF THE NAVY JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1983 (U)

SUBMITTED TO CONGRESS FEBRUARY 1982

PROCUREMENT

BOOK 2 OF 2

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THIS BOOK CONTAINS SUMMARY SHIPBUILDING AND CONVERSION, NAVY, OTHER PROCUREMENT NAVY, AND PROCUREMENT, MARINE CORPS JUSTIFICATION MATERIAL IN SUPPORT OF THE FY 83 PRESIDENT'S BUDGET SUBMISSION. THIS IS TWO OF TWO VOLUMES.

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20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

Report
THIS BOOK CONTAINS APPROPRIATION LANGUAGE, PROGRAM AND FINANCING EXHIBITS, NARRATIVE BUDGET ACTIVITY AND OTHER SUMMARY MATERIAL FOR SHIPBUILDING AND CONVERSION, NAVY, OTHER PROCUREMENT, NAVY AND PROCUREMENT, MARINE CORPS APPROPRIATIONS.

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DEPARTMENT OF THE NAVY

SHIPBUILDING AND CONVERSION, NAVY

JUSTIFICATION OF ESTIMATE FOR FISCAL YEAR 1983

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SHIPBUILDING AND CONVERSION, NAVY

For expenses necessary for the construction, acquisition, or conversion of vessels as authorized by law, including armor and armament thereof, plant equipment, appliances, and machine tools and installation thereof in public and private plants; reserve plant and Government and contractor-owned equipment layaway; procurement of critical, long lead-time components and designs for vessels to be constructed or converted in the future; and expansion of public and private plants, including land necessary therefor, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title as required by section 355, Revised Statutes, as amended, [as follows: for the Trident submarine program, $315,600,000; for the CVN aircraft carrier program, $475,000,000; for the SSN-688 nuclear attack submarine program, $1,351,000,000; for the reactivation of the U.S.S. New Jersey, $237,000,000; for the reactivation of the U.S.S. Iowa, $88,000,000; for the aircraft carrier service life extension program, $81,000,000; for the CG-47 AEGIS cruiser program, $2,929,300,000; for the LSD-41 landing ship dock program, $301,000,000; for the LHA/LHDX helicopter assault ship program, $45,000,000; for the FFG guided missile frigate program, $926,100,000; for the MCM mine countermeasures ship program, $99,700,000; for the T-AO fleet oiler ship program, $200,000,000; for the T-AGOS SURTASS ship program, $156,500,000; for the ARS salvage ship program, $135,500,000; for the T-AKRX fast logistics ship program, $307,600,000; for the T-AFS Lyness conversion program, $37,000,000; for craft, outfitting, post delivery, cost growth, and escalation on prior year programs, $754,500,000; for acquisition, construction, and improvement, Coast Guard, $300,000,000, to be allocated to the Coast Guard: "Acquisition, Construction and Improvements"; and in addition, $117,500,000 of which $15,100,000 shall be derived by transfer from the "Trident submarine program" of "Shipbuilding and Conversion, Navy, 1979/1983", and $58,000,000 shall be derived by transfer from the "maritime prepositioning ship programs" of "Shipbuilding and Conversion, Navy, 1981/1985", and $44,400,000 shall be derived by transfer from the "fast logistics ship (T-AKRX) program" of "Shipbuilding and Conversion, Navy, 1981/1985"; and reductions in the amounts, as follows: $12,000,000 for inflation offsets; $13,700,000 for consultant, studies and analyses; and $11,900,000 for Army Guard and Reserve equipment transfer; in all: $8,821,400,000, and in addition, $117,500,000 to be derived by transfer,] $18,648,300,000 to remain available for obligation until September 30, [1986] 1989: Provided, That of the appropriation for "Shipbuilding and Conversion, Navy", that expired for obligation on September 30, [1981, $119,000,000] 1982, shall remain available for obligation until September 30, [1983] 1984: Provided further, That none of the funds herein provided for the construction or conversion of any naval vessel to be constructed in shipyards in the United States shall be expended in foreign shipyards for the construction of major components of the hull or superstructure of such vessel: Provided further, That none of the funds herein provided shall be used for the construction of any naval vessel in foreign shipyards. (5 U.S.C. 3103, 10 U.S.C. 5012, 5031, 7296, 7298, 31 U.S.C. 718; Department of Defense Appropriation Act, 1982; additional authorizing legislation to be proposed.)

Program and Financing (in thousands of dollars)

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct.						
1. Fleet ballistic missile ships	1,133,500	330,700	2,485,000	720,238	929,710	1,790,106
2. Other warships	3,494,000	5,141,400	12,490,000	3,283,016	4,322,846	5,569,989
3. Amphibious ships	387,700	342,800	472,000	334,514	230,698	299,311
4. Mine warfare and patrol ships	1,510,000	1,016,300	1,038,000	1,135,469	1,400,355	5,047,912
5. Auxiliaries, craft and prior-year program costs	1,091,800	1,807,700	2,163,300	1,128,389	1,367,838	1,677,517
Total direct	7,617,000	8,638,900	18,648,300	6,601,626	8,251,447	14,384,835
Reimbursable program	316	2,000	2,000	311	5,941	1,440
10.0001 Total	7,617,316	8,640,900	18,650,300	6,601,937	8,257,388	14,386,275
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-217	-2,000	-2,000	531	-2,000	-2,000
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	186	.....	.....
14.0001 Non-federal sources	-99	.....	.....	-99	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-4,399	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-7,623,198	-8,029,394	-8,054,085
21.4002 Available to finance new budget plans	-86,400	-102,400	.....	-86,400	-102,400	.....
21.4003 Reprograming from or to prior year budget plan	-612,647	-358,821	.....	.....	.....	.....
23.4001 Unobligated balance transferred to other accounts	86,400	.....	.....	86,400	.....	.....
Unobligated balance available, end of year:						
24.4001 For completion of prior year budget plans	.....	.....	.....	8,029,394	8,054,085	12,318,110
24.4002 Available to finance subsequent year budget plans	102,400	.....	.....	102,400	.....	.....
25.0001 Unobligated balance lapsing	612,647	461,221	.....	612,647	461,221	.....
39.0001 Budget authority	7,719,400	8,638,900	18,648,300	7,719,400	8,638,900	18,648,300
Budget authority:						
40.0001 Appropriation	7,697,100	8,702,400	18,648,300	7,697,100	8,702,400	18,648,300
41.0001 Transferred to other accounts(-)	-5,600	-300,000	.....	-5,600	-300,000	.....
43.0001 Appropriation (adjusted)	7,691,500	8,402,400	18,648,300	7,691,500	8,402,400	18,648,300
50.0001 Reappropriation	27,900	236,500	.....	27,900	236,500	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				6,602,555	8,255,388	14,384,275
72.4001 Obligated balance, start of year				10,722,597	12,261,132	15,130,520
74.4001 Obligated balance, end of year				-12,261,132	-15,130,520	-23,301,395
77.0001 Adjustments in expired accounts				158,103	.....	.....
78.0001 Adjustments in unexpired accounts				-4,399	.....	.....
90.0001 Outlays				5,217,724	5,386,000	6,213,400

Object Classification (in thousands of dollars)

Identification code 17-1611-0-1-051		1981 actual	1982 est.	1983 est.
	Direct obligations:			
	Other services:			
125.003	Contracts	129,296	163,542	281,166
125.004	Other	84,009	106,273	182,708
126.001	Supplies and materials	69,570	87,990	151,276
131.001	Equipment	6,318,751	7,893,642	13,769,685
139.001	Total direct obligations	6,601,626	8,251,447	14,384,835
	Reimbursable obligations:			
	Other services:			
225.003	Contracts	.....	67	98
225.004	Other	.....	53	84
231.001	Equipment	311	5,821	1,258
299.001	Total reimbursable obligations	311	5,941	1,440
999.901	Total obligations	6,601,937	8,257,388	14,386,275

Program and Financing (in thousands of dollars) | 1977 Fiscal year program

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Fleet ballistic missile ships	.....	.....	.....	43,303	.....	.....
2. Other warships	.....	.....	.....	59,220	.....	.....
4. Mine warfare and patrol ships	.....	.....	.....	115,367	.....	.....
5. Auxiliaries, craft and prior-year program costs	.....	.....	.....	220,128	.....	.....
10.0001 Total	.....	.....	.....	438,018	.....	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	748	.....	.....
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	184	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-2,607	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-1,021,090	.....	.....
21.4002 Reprograming from or to prior year budget plan	-584,747	.....	.....	.....	.....	.....
25.0001 Unobligated balance lapsing	584,747	.....	.....	584,747	.....	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

Program and Financing (in thousands of dollars) — 1978 Fiscal year program

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Fleet ballistic missile ships	.....	.....	.....	72,471	62,122	.....
2. Other warships	.....	.....	.....	117,382	134,138	.....
4. Mine warfare and patrol ships	.....	.....	.....	108,775	472,195	.....
5. Auxiliaries, craft and prior-year program costs	.....	.....	.....	47,980	36,323	.....
Total direct	.....	.....	.....	346,608	704,778	.....
Reimbursable program	.....	.....	.....	311	4,941	.....
10.0001 Total	.....	.....	.....	346,919	709,719	.....
Financing:						
Offsetting collections from:						
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-1,753	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-1,426,506	-1,053,440	.....
21.4002 Reprograming from or to prior year budget plan	-27,900	-343,721	.....	.....	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	1,053,440	.....	.....
25.0001 Unobligated balance lapsing	27,900	343,721	.....	27,900	343,721	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

Program and Financing (in thousands of dollars) | 1979 Fiscal year program

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Fleet ballistic missile ships	.....	.....	.....	.....	284	.....
2. Other warships	.....	.....	.....	177,667	96,087	187,952
4. Mine warfare and patrol ships	.....	.....	.....	108,866	151,960	375,905
5. Auxiliaries, craft and prior-year program costs	.....	.....	.....	174,469	126,986	132,263
10.0001 Total	.....	.....	.....	461,002	375,317	696,120
Financing:						
Offsetting collections from:						
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	2	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-39	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-1,547,503	-1,086,537	-696,120
21.4002 Reprograming from or to prior year budget plan	.....	-15,100	.....	.....	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	1,086,537	696,120	.....
25.0001 Unobligated balance lapsing	.....	15,100	.....	.....	15,100	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

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Program and Financing (in thousands of dollars) | 1980 Fiscal year program

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Fleet ballistic missile ships	.....	.....	.....	416,732	129,628	71,731
2. Other warships	.....	.....	.....	701,185	508,544	136,942
3. Amphibious ships	.....	.....	.....	1,921	685	.....
4. Mine warfare and patrol ships	.....	.....	.....	65,211	169,514	58,689
5. Auxiliaries, craft and prior-year program costs	.....	.....	.....	118,431	188,775	58,691
10.0001 Total	.....	.....	.....	1,303,480	997,146	326,053
Financing:						
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-3,628,099	-2,324,619	-1,327,473
21.4002 Available to finance new budget plans	-86,400	.....	.....	-86,400	.....	.....
23.4001 Unobligated balance transferred to other accounts	86,400	.....	.....	86,400	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	2,324,619	1,327,473	1,001,420
40.0001 Budget authority	.....	....	.....	.....	.....	.....

Program and Financing (in thousands of dollars) — 1981 Fiscal year program

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Fleet ballistic missile ships	1,133,500	.....	.....	187,732	406,976	342,975
2. Other warships	3,494,000	.....	.....	2,227,562	549,851	6,113
3. Amphibious ships	387,700	.....	.....	332,593	27,761	247
4. Mine warfare and patrol ships	1,510,000	.....	.....	737,250	4,849	225,696
5. Auxiliaries, craft and prior-year program costs	1,091,800	.....	.....	567,381	207,118	119,743
Total direct	7,617,000	.....	.....	4,052,518	1,196,555	694,774
Reimbursable program	316	.....	.....	.....	.....	.....
10.0001 Total	7,617,316	.....	.....	4,052,518	1,196,555	694,774
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-217	.....	.....	-217	.....	.....
14.0001 Non-federal sources	-99	.....	.....	-99	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	.....	-3,564,798	-2,368,243
21.4002 Available to finance new budget plans	.....	-102,400	.....	.....	-102,400	.....
Unobligated balance available, end of year:						
24.4001 For completion of prior year budget plans	.....	.....	.....	3,564,798	2,368,243	1,673,469
24.4002 Available to finance subsequent year budget plans	102,400	.....	.....	102,400	.....	.....
25.0001 Unobligated balance lapsing	.....	102,400	.....	.....	102,400	.....
39.0001 Budget authority	7,719,400	.....	.....	7,719,400	.....	.....
Budget authority:						
40.0001 Appropriation	7,697,100	.....	.....	7,697,100	.....	.....
41.0001 Transferred to other accounts(-)	-5,600	.....	.....	-5,600	.....	.....
43.0001 Appropriation (adjusted)	7,691,500	.....	.....	7,691,500	.....	.....
50.0001 Reappropriation	27,900	.....	.....	27,900	.....	.....

Program and Financing (in thousands of dollars) | 1982 Fiscal year program

Identification code 17-1611-0-1-051

		Budget plan (amounts for procurement actions programed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
	Program by activities:						
	Direct:						
	1. Fleet ballistic missile ships		330,700			330,700	
	2. Other warships		5,141,400			3,034,226	683,582
	3. Amphibious ships		342,800			202,252	44,564
	4. Mine warfare and patrol ships		1,016,300			601,837	155,339
	5. Auxiliaries, craft and prior-year program costs		1,807,700			808,636	408,720
	Total direct		8,638,900			4,977,551	1,292,205
	Reimbursable program		2,000			1,000	440
10.0001	Total		8,640,900			4,978,651	1,292,645
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds		-2,000			-2,000	
21.4001	Unobligated balance available, start of year						-3,662,249
24.4001	Unobligated balance available, end of year					3,662,249	2,369,604
39.0001	Budget authority		8,638,900			8,638,900	
	Budget authority:						
40.0001	Appropriation		8,702,400			8,702,400	
41.0001	Transferred to other accounts(-)		-300,000			-300,000	
43.0001	Appropriation (adjusted)		8,402,400			8,402,400	
50.0001	Reappropriation		236,500			236,500	

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Program and Financing (in thousands of dollars) | 1983 Fiscal year program

Identification code 17-1611-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Fleet ballistic missile ships	.....	.....	2,485,000	.....	.....	1,375,400
2. Other warships	.....	.....	12,490,000	.....	.....	4,555,400
3. Amphibious ships	.....	.....	472,000	.....	.....	254,500
4. Mine warfare and patrol ships	.....	.....	1,038,000	.....	.....	4,232,283
5. Auxiliaries, craft and prior-year program costs	.....	.....	2,163,300	.....	.....	958,100
Total direct	.....	.....	18,648,300	.....	.....	11,375,683
Reimbursable program	.....	.....	2,000	.....	.....	1,000
10.0001 Total	.....	.....	18,650,300	.....	.....	11,376,683
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	.....	-2,000	.....	.....	-2,000
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	.....	7,273,617
40.0001 Budget authority	.....	.....	18,648,300	.....	.....	18,648,300

Introductory Statement
(In Thousands of Dollars)

	1981 Actual	1982 Estimate	1983 Estimate	1984 Estimate
Appropriation	7,697,100	8,702,400	18,648,300	12,455,700
Total Direct Obligations	6,601,625	8,251,447	14,384,835	--
Total Direct Budget Plan	7,617,000	8,638,900	18,648,300	12,455,700

The FY 1983 budget request is the thirteenth appropriation requested under the title "Shipbuilding and Conversion, Navy". The Shipbuilding and Conversion, Navy appropriation for FY 1972 expired for new obligations on 30 September 1976 and lapsed on 30 September 1978. The FY 1973 appropriation was extended for obligation by the FY 1978 Department of Defense Appropriation Act until 30 September 1979. The FY 1974 appropriation expired for new obligation on 30 September 1978. Appropriations for each subsequent year are available for five years from date of availability. However, a new appropriation for $96,800,000 for the expiring FY 1976 was created which extended the period of availability of the $96,800,000 appropriation to 30 September 1982. In addition, the FY 1982 appropriation included $119,000,000 for a new line item for completion of FY 1977 programs. The new line item extended the availability of $119,000,000 expiring FY 1977 funds for two additional years to 30 September 1983. The FY 1983 appropriation is requested to remain available for obligation until 30 September 1989. Authorization only is requested for the FY 1984 Navy Shipbuilding Program. The objective of these appropriations is to finance the building of a versatile fleet, equipped with technologically advanced hull designs, propulsion, armament and electronics, capable of performing the Navy's assigned missions. Authorization of the FY 1984 request will allow for a more orderly Congressional Budget Review.

To keep abreast of price changes the Navy periodically reviews ship cost estimates in detail. In addition to estimates for basic construction of the ship, and the Government furnished electronics, hull, mechanical, electrical and ordnance equipments, provision is made in the initial estimates for projected labor and material cost increases and design improvements and technological advances which occur while the ship is being built. Also, Outfitting and Post Delivery requirements are reviewed.

FY 1983 - Of the 18 new construction ships and 7 conversions (including 1 ship acquisition) for which funding is requested in FY 1983, 11 represent the continuation of programs that were funded in FY 1982 and prior years. They include 2 ballistic missile firing submarines of the OHIO class (TRIDENT), 2 nuclear aircraft carriers (CVN), 2 high-speed nuclear attack submarines (SSN-688 class), 1 battleship reactivation (BB), 1 aircraft carrier Service Life Extension Program (CV SLEP), 3 guided missile AEGIS cruisers (CG-47) and landing craft. Funding is also requested in FY 1983 for 1 landing ship dock (LSD), 2 guided missile frigates (FFG), 4 mine countermeasures ships (MCM), one fleet oiler (TAO), one salvage ship (ARS), and for the conversion of four fast logistic ships (TAKRX) and the acquisition and conversion of one hospital ship (TAH). The total funds requested for the 25 ships are $16,359,900,000.

The Advance Procurement request of $1,176,000,000 includes $1,151,700,000 for continuing programs and $24,300,000 for one new program. The continuing programs are the TRIDENT ballistic missile-firing submarine ($243,900,000); the SSN-688 class high-speed nuclear attack submarine ($416,000,000); modernization of a FORRESTAL class aircraft carrier ($163,000,000); the CG-47 AEGIS class cruisers ($22,200,000); the battleship reactivation ($94,000,000); the landing ship dock ($37,800,000); the amphibious assault ship ($55,000,000); the fleet oiler ($109,800,000); and the fleet salvage ship ($10,000,000). Advance Procurement of $24,300,000 is requested for the first time for the AGOS SWATH ocean surveillance ship. Funds in the amount of $466,800,000 are requested for Outfitting Material, Post Delivery work, Service Craft and Landing Craft. $209,200,000 of the FY 1983 request is for escalation on prior year programs, $314,200,000 is requested for cost growth on prior year programs, $97,200,000 is requested for ship design and $25,000,000 is requested for manufacturing technology.

FY 1984 - Of the 21 new construction ships and 2 conversions requested for authorization in FY 1984, 15 represent the continuation of programs which were funded in FY 1983 or prior years. They include 1 ballistic missile-firing submarine of the OHIO class (TRIDENT); 3 high-speed nuclear attack submarines (SSN-688 class); 3 guided missile AEGIS cruisers (CG-47 class); 1 landing ship dock (LSD-41);1 amphibious assault ship (LHD-1); 1 battleship reactivation (BB); 3 fleet oilers (TAO); 1 salvage ship (ARS); and 1 AGOS SWATH ocean surveillance ship. Authorization of funds in FY 1984 is also requested for 2 guided missile frigates (FFG); 4 mine countermeasures ships (MCM); 1 coastal mine sweeper (MSH); and for the conversion of 1 hospital ship (TAHX). The authorization request for these 23 ships is $10,577,300,000.

The $1,308,800,000 Advance Procurement request for authorization in FY 1984 includes $1,168,000,000 for continuing programs and $140,800,000 for 2 new programs. The continuing programs are the TRIDENT ballistic missile-firing submarine ($402,000,000); the TAK resupply ship conversion ($2,900,000); the SSN-688 class high-speed nuclear attack submarine ($336,000,000); the battleship reactivation ($103,800,000); the aircraft carrier Service Life Extension Program ($166,000,000); AEGIS class cruisers ($24,500,000); and the landing ship dock ($132,800,000). The 2 new programs include $107,900,000 for a guided missile destroyer (DDG-51) and $32,900,000 for ocean survey ship conversions (TAGS). $450,700,000 is requested for Landing Craft, Service Craft, Outfitting and Post Delivery. The remaining is $118,900,000 for ship design.

	Uncompleted thru 31 Dec 1981	To Be Completed in FY 1982	To Be Completed in FY 1983	To Be Completed in FY 1984 Subsequent Years
FY 1976 and Prior Years				
Ships	18	8	3	7
New Construction	18	8	3	7
Conversion	0	0	0	0
FY 1977				
Ships	7	3	0	4
New Construction	7	3	0	4
Conversion	0	0	0	0
FY 1978				
Ships	15	5	7	3
New Construction	15	5	7	3
Conversion	0	0	0	0
FY 1979				
Ships	13	0	10	3
New Construction	13	0	10	3
Conversion	0	0	0	0
FY 1980				
Ships	11	0	0	11
New Construction	11	0	0	11
Conversion	0	0	0	0
FY 1981				
Ships	20	0	2	18
New Construction	18	0	0	18
Conversion	2	0	2	0
FY 1982				
Ships	24	2	0	22
New Construction	17	0	0	17
Conversion	7	2	0	5

The request for fiscal year 1983 is $18,648,300, an increase of $10,009,400 from the fiscal year 1982 program. This will provide for completion of all prior year ships as well as for 18 new construction ships and 7 conversions (including one new acquisition).

SUMMARY OF REQUIREMENTS
(in thousands of dollars)

	1981 Actual	1982 Estimate	1983 Estimate	1984 Authorization
FLEET BALLISTIC MISSILE SHIPS	1,133,500	330,700	2,485,000	1,706,800
OTHER WARSHIPS	3,494,000	5,141,400	12,490,000	6,108,300
AMPHIBIOUS SHIPS	387,700	342,800	472,000	1,805,300
MINE WARFARE AND PATROL SHIPS	1,510,000	1,016,300	1,038,000	1,190,200
AUXILIARIES, CRAFT and PY PROGRAM COSTS	1,091,800	1,807,700	2,163,300	1,645,100
Total Direct Program	7,617,000	8,638,900	18,648,300	12,455,700
REIMBURSABLE PROGRAM	316	2,000	2,000	-
Total Program Requirements (Current)	7,617,316	8,640,900	18,650,300	-
Less: Portion of program to be obligated in subsequent fiscal years	-3,564,798	-3,662,249	-7,273,617	-
Plus: Obligation incurred against prior year program funds	2,549,419	3,278,737	3,009,592	-
TOTAL OBLIGATIONS	6,601,937	8,257,388	14,386,275	-

BUDGET ACTIVITY NO. 1- BALLISTIC MISSILE SHIPS

	($ in thousands)
FY 1981 Actual	1,133,500
FY 1982 Estimate	330,700
FY 1983 Estimate	2,485,000
FY 1984 Estimate	1,706,800

PURPOSE AND SCOPE

Budget Activity Number 1 provides for the new construction of Ballistic Missile Ships and supporting vessels and the conversion of existing ships to specialized configurations required to meet strategic objectives.

JUSTIFICATION OF FUNDS

The funds requested for appropriation/authorization for Budget Activity 1 include:

	($ in thousands) FY 1983		FY 1984	
	QTY	AMT	QTY	AMT
TRIDENT	2	2,485,000	1	1,703,900

FY 1983 - The FY 1983 request provides full funding of $2,241,100,000 for the tenth and eleventh TRIDENT submarines plus Advance Procurement funds of $243,900,000 to procure critical long lead ship components for the twelfth and thirteenth TRIDENT submarines. Advance Procurement funding for certain contractor furnished equipment is necessary in order to provide sufficient manufacturing leadtime for delivery of the equipment to meet the shipbuilder's construction schedule. The TRIDENT mission is to provide an undersea strategic missile system in order to ensure that the U.S. continues to maintain a credible, survivable deterrent independent of foreseeable threats. TRIDENT submarines will be highly survivable through incorporation of the latest state of the art in submarine quietness, mobility and self-defense. Each will have an integrated command and control system, including an integrated radio room designed to provide communications links in a hostile electro-magnetic environment, and will carry the latest submarine defensive systems. Other features include a 70-day patrol period, a 25-day turn-around period between patrols, not less than 9-year intervals between overhauls/refuelings and a projected operating life of 30 years.

FY 1984 - The FY 1984 request provides full funding authorization of $1,301,900,000 for the twelfth TRIDENT submarine and Advance Procurement of $402,000,000 to procure critical long lead ship components for the thirteenth and fourteenth TRIDENT submarines planned for authorization in FY 1985 and FY 1986.

TAK(FBM)(CONV) RE-SUPPLY SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	-	-	2,900

FY 1984 - $2,900,000 requested to be authorized in FY 1984 is for Advance Procurement for conversion of a cargo ship to a TAK Re-Supply Ship. The TAK conversion is designed and stocked to permit complete replenishment of FBM submarine tenders including replacement missiles and warheads as well as spare parts, food and stores. The TAK will be converted from a Maritime Administration design cargo ship which is in the reserve fleet.

BUDGET ACTIVITY NO. 2 - OTHER WARSHIPS

($ in thousands)

FY 1981 Actual	3,494,000
FY 1982 Estimate	5,141,400
FY 1983 Estimate	12,490,000
FY 1984 Estimate	6,108,300

PURPOSE AND SCOPE

Budget Activity Number 2 provides for the construction, conversion or modernization of major warships other than Ballistic Missile Ships.

JUSTIFICATION OF FUNDS

The funds requested for appropriation/authorization for Budget Activity 2 include:

CVN AIRCRAFT CARRIER (NUCLEAR)

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
2	6,795,300	-	-

FY 1983 - $6,795,300,000 is requested for full funding for two NIMITZ Class aircraft carriers (CVN-72 and CVN-73). This multi-buy approach will enable the Navy to receive the carriers 44 months earlier than the traditional funding schedule and achieve significant cost savings. The procurement of the two nuclear aircraft carriers will provide for replacement of two MIDWAY class carriers which will be overage in the early 1990's, maintaining a force level of 13 carriers.

SSN-688 CLASS SUBMARINE (NUCLEAR)

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
2	1,443,400	3	2,013,800

FY 1983 - $1,027,400,000 is requested for the construction of two follow-on SSN-688 Class nuclear attack submarines in FY 1983. Funds in the amount of $416,000,000 are requested for long leadtime equipment for follow-on submarines in FY 1984 and FY 1985.

FY 1984 - Authorization in the amount of $1,677,800,000 is requested for the construction of three follow-on SSN-688 Class nuclear submarines in FY 1984. Authorization in the amount of $336,000,000 is requested for long leadtime equipment for FY 1985 follow-on submarines. The attack submarine is a key element in our multi-type warfare forces. These submarines are

the only weapons systems capable of operating for long periods of time in waters under enemy air and surface control. The SSN-688 Class submarine will provide the characteristics necessary to counter the new classes of Soviet high-speed submarines in addition to providing improved sensor and weapons systems. The nuclear propulsion plant is the longest leadtime item in construction of nuclear attack submarines. It paces the delivery of these submarines even when these components are procured in advance of the proposed shipbuilding program. Reactor plant equipment suppliers are now quoting as much as five-year manufacturing spans for reactor plant components. Leadtimes have not decreased from those experienced in recent years and increased leadtimes are possible if the uncertain status of future nuclear powered submarine and surface ship construction programs result in a loss of naval nuclear industrial capacity. Actual leadtimes will depend upon suppliers' willingness to provide equipment deliveries that support ship schedules at the time funds are released, the effects of any breaks in production lines and competition from other orders the suppliers have accepted.

BB - BATTLESHIP REACTIVATION

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
1	417,400	1	480,000

FY 1983 - $323,400,000 is requested for full funding for reactivation of the battleship IOWA. This is in addition to 88,000,000 requested in FY 1982. Funds in the amount of $94,000,000 are requested for Advance Procurement for reactivation of the MISSOURI programmed in FY 1984. The battleship will operate as an element of a carrier battle group or amphibious assault group. In areas of lesser threat the battleship will be capable of surface action group operations with appropriate ASW and AAW escorts.

FY 1984 - Authorization of $376,200,000 is requested for full funding of the battleship MISSOURI in FY 1984. Advance Procurement funds in the amount of $103,800,000 are requested for the battleship WISCONSIN programmed in FY 1985.

CV (SLEP) AIRCRAFT CARRIER

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
1	699,500	-	166,000

FY 1983 - $536,500,000 is requested for the balance of funding for the CV-59 (FORRESTAL) Service Life Extension. In addition, $163,000,000 in Advance Procurement is requested for the CV-62 (INDEPENDENCE) FY 1985 SLEP. The aircraft carrier Service Life Extension Program (SLEP) will extend the life of the FORRESTAL class carriers from 15 years to a total of 45 years. The extension will be accomplished through a 28-month shipyard availability in which equipments, systems, and structures will be repaired or replaced as necessary.

FY 1984 - Authorization of $166,000,000 for Advance Procurement of long leadtime materials is requested for SLEP: this includes $98,600,000 for CV-62 (INDEPENDENCE) FY 1985 and $67,400,000 for CV-63 (KITTY HAWK) FY 1987.

CG-47 CLASS GUIDED MISSILE CRUISER

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
3	3,134,400	3	3,340,600

FY 1983 - $3,112,200,000 is requested for the construction of the eighth, ninth and tenth ships of a new class of cruiser specifically designed to carry the AEGIS Weapon System. With the AEGIS system and other advanced systems augmented by passive protection features including fragmentation protection of launchers and magazines, the CG-47 will be a broadly capable, heavily armed and survivable cruiser for the Navy. Employment of the proven DD-963 class hull and propulsion system will reduce design uncertainties and lifetime costs. The CG-47 class ships will be able to conduct prompt and sustained combat operations at sea, worldwide, as a part of an aircraft Carrier Battle Group and Surface Action Group; to neutralize of destroy hostile air, missile, surface and subsurface threats, and defeat simultaneous coordinated attacks by such forces. $22,200,000 is requested for Advance Procurement for the Vertical Launching System, a missile launching system with expanded capability, for FY 1984 AEGIS Cruisers.

FY 1984 - Authorization of $3,316,100,000 is requested for three AEGIS cruisers. $24,500,000 in Advance Procurement is also requested for long leadtime equipment for three ships programmed in FY 1985.

DDG-51 - GUIDED MISSILE DESTROYER

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	-	-	107,900

FY 1984 - Authorization of $107,900,000 is requested for Advance Procurement funds for long leadtime equipment for one ship programmed in FY 1985. The Guided Missile Destroyer operates offensively in units of Carrier Battle Groups and Surface Action Groups and in support of Underway Replenishment Groups and Amphibious Assault Groups in multi-threat environments that include air, surface and sub-surface threats.

BUDGET ACTIVITY NO. 3 - AMPHIBIOUS SHIPS

($ in thousands)

FY 1981 Actual	387,700
FY 1982 Estimate	342,800
FY 1983 Estimate	472,000
FY 1984 Estimate	1,805,300

PURPOSE AND SCOPE

Budget Activity Number 3 provides for the construction and conversion of amphibious ships.

JUSTIFICATION OF FUNDS

The funds requested for appropriation/authorization for Budget Activity 3 include:

LSD-41 - LANDING SHIP DOCK

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
1	417,000	1	477,200

FY 1983 - $379,200,000 is requested for one dock landing ship. Additionally, $37,800,000 is requested for Advance Procurement for one dock landing ship programmed in FY 1984. The LSD will transport and launch loaded amphibious craft and vehicles with their crews and embarked personnel in amphibious assault operations. It will also provide limited docking and repair services for conventional landing craft and Air Cushion Landing Craft (LCAC).

FY 1984 - $344,400,000 is requested for one dock landing ship. This is in addition to the $37,800,000 that is programmed in FY 1983 for procurement of long leadtime equipment, material, design and support for the ship. $132,800,000 is requested for Advance Procurement for two LSD ships programmed in FY 1985.

LHD-1 - AMPHIBIOUS ASSAULT SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	55,000	1	1,328,100

FY 1983 - $55,000,000 is requested to provide for advance procurement of long leadtime material for one LHD-1 programmed in FY 1984. The LHD-1 ship will be primarily for amphibious assault. The LHD-1 will also operate and support helicopters, VSTOL aircraft, amphibious and landing craft. It will be capable of embarking the troops, vehicles, cargo and aircraft of Marine Corps landing forces and launching them in surface and vertical assault.

FY 1984 - Authorization of $1,328,100,000 is requested to fund one LHD-1 ship.

BUDGET ACTIVITY NO. 4- MINE WARFARE AND PATROL SHIPS

	($ in thousands)
FY 1981 Actual	1,510,000
FY 1982 Estimate	1,016,300
FY 1983 Estimate	1,038,000
FY 1984 Authorization	1,190,200

PURPOSE AND SCOPE

Budget Activity Number 4 provides for the construction and conversion of ships with minesweeping capability, as well as patrol and escort ships.

JUSTIFICATION OF FUNDS

Funds requested for appropriation/authorization for Budget Activity 4 include:

FFG-7 CLASS - GUIDED MISSILE FRIGATE

($ in thousands)			
FY 1983		FY 1984	
QTY	AMT	QTY	AMT
2	666,400	2	774,800

FY 1983 - $666,400,000 is requested for two guided missile frigates. The FFGs will conduct ASW operations in conjunction with other sea control forces and effectively supplement other planned and existing escorts in the protection of amphibious forces, Underway Replenishment Groups and military and merchantile shipping against air surface and sub-surface threats. These ships will be equipped with an advanced fire control system, a 76mm gun, a missile launching system, a close-in weapon system and facilities for two LAMPS MK III helicopters.

FY 1984 - Authorization of $774,800,000 is requested for two ships in FY 1984.

MCM - MINE COUNTERMEASURES SHIP

($ in thousands)			
FY 1983		FY 1984	
QTY	AMT	QTY	AMT
4	371,600	4	342,300

FY 1983 - Appropriation of $371,600,000 is requested for four MCMs. This ship will be built to military standards and will be an effective platform from which to operate new mine hunting and neutralizing equipments. The MCM will have the capability to conduct mine clearance operations.

MSH-1 - COASTAL MINE SWEEPER

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	-	1	73,100

FY 1984 - Authorization of $73,100,000 is requested for one MSH. This ship will provide the U.S. Navy with the capability to conduct mine reconnaissance, classification, neutralization and mechanical mine sweeping operations in port structure and approaches to coastal areas.

BUDGET ACTIVITY NO. 5 - AUXILIARIES, CRAFT AND PRIOR YEAR PROGRAM COSTS

	($ in thousands)
FY 1981 Actual	1,091,800
FY 1982 Estimate	1,807,700
FY 1983 Estimate	2,163,300
FY 1984 Estimate	1,645,100

PURPOSE AND SCOPE

Budget Activity Number 5 provides for construction and conversion of Auxiliary Ship and Craft as well as other costs such as Outfitting, Post Delivery, Cost Growth and Escalation of prior year programs.

JUSTIFICATION OF FUNDS

The funds requested for appropriation/authorization for Budget Activity 5 include:

TAO - FLEET OILER

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
1	320,000	3	530,400

FY 1983 - $320,000,000 is requested for Fleet Oilers, of which $210,200,000 million is for a FY 1983 Fleet Oiler and $109,800,000 is for advance procurement for three additional ships in FY 1984. By purchasing contractor furnished equipment for these ships, an economic buy can be effected which will save the Navy approximately $66 million over the period FY 1982 through FY 1984. The Fleet Oiler will operate as a unit of an Underway Replenishment Group to furnish petroleum (POL) products to operating forces at sea. The ship will be capable of replenishing from five stations simultaneously and will also be capable of replenishment of fleet freight, mail, and personnel.

FY 1984 - Authorization of $530,400,000 is requested for three Fleet Oilers in FY 1984.

ARS - SALVAGE SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
1	84,000	1	68,500

FY 1983 - $84,000,000 is requested for Salvage Ships of which $74,000,000 is for the construction of one ship (the fourth of a five-ship program) and $10,000,000 is for Advance Procurement for the fifth and last ship. The Salvage Ship will operate as a unit of the Mobile Logistic Support Force to provide salvage, rescue towing, diving and rescue service to the rest of the fleet.

FY 1984 - Authorization of $68,500,000 is requested for one Salvage Ship which is the last ship of a five-ship buy.

TAGS (CONVERSION) - OCEAN SURVEY SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	-	-	32,900

FY 1984 - Authorization of $32,900,000 is requested for Advance Procurement of long leadtime electronic and machinery components for the FY 1985 conversion of two commercial cargo ships. The ships will collect bathymetric and other geophysical data required for deployment of strategic submarines and their missile systems.

TAKRX (CONVERSION) - FAST LOGISTICS SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
4	322,600	-	-

FY 1983 - $322,600,000 is requested for Fast Logistics Ship conversions of SL-7 to TAKRX. These funds are requested for the conversion to commercial standards for the last four SL-7s that were purchased with FY 1981 and FY 1982 funding. These ships are required to enhance the strategic sealift capability in support of the Rapid Deployment Force, specifically by moving equipment and supplies of heavy combat units rapidly to the greater Middle East and provide the capability to move equipment and supplies for rapid reinforcement of NATO.

TAH (CONVERSION) - HOSPITAL SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
1	300,000	1	260,000

FY 1983 - $300,000,000 is requested for conversion of one ship to a definitive care Hospital Ship. This ship will be capable of providing full medical support on a world-wide basis to the Rapid Deployment Joint Task Force and other U.S. forces that are engaged in combat operations or are located in areas where hostilities may be eminent.

FY 1984 - Authorization of $260,000,000 is requested for conversion of one ship in FY 1984.

AGOS-13 SWATH - OCEAN SURVEILLANCE SHIP

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	24,300	1	183,700

FY 1983 - $24,300,000 is requested for Advance Procurement for a lead AGOS-13 class SWATH Ocean Surveillance Ship (first of a six-ship program). The AGOS-13 class Ocean Surveillance Ship collects, processes and transmits acoustic data.

FY 1984 - Authorization of $183,700,000 is requested for the lead AGOS-13 SWATH Ocean Surveillance Ship.

SERVICE CRAFT

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	79,000	-	66,600

FY 1983 - Appropriation of $31,724,000 is requested for six Harbor Tug Boats (YTB). Appropriation of $28,654,000 is requested for six Training Craft (YP). $3,274,000 is requested for six Cargo Barges (YC). $15,348,000 is requested for three Floating Cranes (YD).

FY 1984 - Authorization of $3,510,000 is requested for six Cargo Barges (YC). $30,035,000 is requested for six Training Craft (YP). $33,055,000 is requested for six Harbor Tug Boats (YTB).

LANDING CRAFT

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	83,100	-	144,800

FY 1983 - Appropriation of $65,400,000 is requested for three Air Cushion Landing Craft (LCAC), which is in addition to the $1,400,000 appropriated for procurement of long leadtime equipment in FY 1981. Appropriation of $17,700,000 is requested for twenty mechanized Landing Craft (LCM-8).

FY 1984 - Authorization of $144,800,000 is requested for six Air Cushion Landing Craft (LCAC).

OUTFITTING MATERIAL

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	136,400	-	125,200

Outfitting material consists of Government Furnished Repair parts and other material, including stock fund items and general use consumables, required to fill ships' initial allowance of storeroom and operating space items. A total of $136,400,000 is requested in FY 1983 and $125,200,000 is requested for authorization in FY 1984.

POST DELIVERY

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	168,300	-	114,100

Post Delivery costs are design, planning, Government Furnished Material and related labor costs required to correct ship deficiencies defined during acceptance and shakedown trials, and which can be accomplished within eleven months following Completion of Fitting-Out. All funds required for correction of deficiencies for a particular ship are budgeted in the first fiscal year in which funding is required. $168,300,000 is requested in FY 1983 to fund corrections on twenty-eight ships. Authorization of $114,100,000 is requested in FY 1984.

COST GROWTH ON PRIOR YEAR PROGRAMS

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	314,200	-	-

FY 1983 - $91,300,000 will be used to fund increases resulting from TRIDENT repricing. $179,400,000 will be used for SSNs; of this amount, $139,400,000 is for introduction of the Vertical Launch System (VLS) on the SSN-719 through SSN-724. The remaining $40,000,000 is required to fully-fund the total estimate of FY 1981 SSNs as a result of higher-than-budgeted basic construction contracts. $43,500,000 is for Future Characteristics Changes on the CVN-71.

ESCALATION ON PRIOR YEAR PROGRAMS

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	209,200	-	-

FY 1983 - The request of $209,200,000 in FY 1983 is for FY 1982 and prior shipbuilding programs and is due to higher-than-projected inflation which occurred during FY 1980 and FY 1981 and an increase in the unescalated base cost and later deliveries for the TRIDENT shipbuilding program.

SHIP DESIGN

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	97,200	-	118,900

FY 1983 - Appropriation of $97,200,000 is requested for Ship Contract Design. This program funds efforts which occur during the Contract Design Phase including an engineering data package consisting of contract drawings, contract guidance drawings and ship specifications. The package defines the ship according to dimensions, structure,

arrangements, performance, power, machinery and weaponry. The Contract Design Phase is a prerequisite to the development of the working drawings from which a ship is constructed. This is the first request for Ship Design funds within the SCN appropriation as it has previously been a program within the RDT&E,N appropriation.

FY 1984 - Authorization of $118,900,000 is requested for FY 1984.

MANUFACTURING TECHNOLOGY

($ in thousands)

FY 1983		FY 1984	
QTY	AMT	QTY	AMT
-	25,000	-	-

FY 1983 - $25,000,000 is requested for Manufacturing Technology for the first time. The funds will be used in order to encourage the investment of private capital by demonstrating improved methods, equipment, tooling and facilities used in shipbuilding. The program will be operated on a cost-effective basis and can be expected to result in savings and cost avoidance several times greater than the cost to the government. The objectives to be accomplished under this line item are (1) reduced acquisition costs; (2) reduced acquisition lead times; (3) improved quality and reliability of ship construction; and (4) upgraded preparedness of the shipbuilding industrial base.

COMPARISON OF FY 1981 PROGRAM REQUIREMENT AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENT (In Thousands of Dollars)

	Total Program Requirements Per 1982 Budget	Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
Fleet Ballistic Missile Ships	1,135,000	1,133,500	-1,500
Other Warships	3,283,600	3,494,000	+210,400
Amphibious Ships	356,700	387,700	+31,000
Mine Warfare and Patrol Ships	1,510,000	1,510,000	-
Auxiliaries, Craft and PY Program Costs	1,198,300	1,091,800	-106,500
Reimbursable Program	2,000	316	-1,684
Total Fiscal Year Program	7,485,600	7,617,316	+131,716

EXPLANATION BY BUDGET ACTIVITY

1. Fleet Ballistic Missile Ships. ($-1,500) The decrease results from a reduction for the amount requested for inflation on the TRIDENT program.

2. Other Warships. ($+210,400) The increase results from addition of advance procurement funds for the CG-47 AEGIS program ($+129,000) and the battleship reactivation program ($+89,000), an increase of full funding amounts for cost increases for the CG-47 AEGIS program ($+14,200) as well as reduction for inflation in the SSN-688 nuclear attack submarine ($-21,800).

3. Amphibious Ships. ($+31,000) The increase reflects an addition of advance procurement for the LSL '1 landing ship dock program.

4. Auxiliary, Craft and PY Program Costs. ($-106,500) The decrease reflects a reduction in post delivery ($-6,500), an increase in escalation on prior year programs ($+3,800), an increase in outfitting ($+4,100), an increase in service craft ($+100), deletion of the TAKX maritime prepositioning ship program ($-33,000 in advance procurement and $-285,000 full funding), and addition to the TAKRX fast logistics ship program ($+210,000).

5. Reimbursable Program. ($-1,684) The reduction reflects lower customer programs than were anticipated.

COMPARISON OF FY 1981 FINANCING AS REFLECTED
IN FY 1982 BUDGET WITH FY 1981 FINANCING AS
SHOWN IN FY 1983 BUDGET

	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	7,485,600	7,617,316	+131,716
Program Requirements (Service Account)	(7,483,600)	(7,617,000)	(+133,400)
Program Requirements (Reimbursable)	(2,000)	(316)	(-1,684)
Less:			
Anticipated Reimbursements	2,000	316	1,684
Unobligated balance transferred from other accounts	27,900	-27,900	0
Unobligated balance transferred to other accounts	-	+102,400	+102,400
Appropriation (Adjusted)	7,455,700	7,691,500	+235,800

EXPLANATION OF CHANGES IN FINANCING

The Fiscal Year 1981 Budget has not changed since the presentation of the FY 1981 Budget, except as noted below:

($ in thousands)

1. Program Requirements. There has been an increase of..... $+131,716
   Service Account..... +133,400
   Reimbursable..... - 1,684

COMPARISON OF FY 1982 PROGRAM REQUIREMENT AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENT (In Thousands of Dollars)

	Total Program Requirements Per 1982 Budget	Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
Fleet Ballistic Missile Ships.....	1,329,700	330,700	-999,000
Other Warships.....	2,813,900	5,141,400	+2,327,500
Amphibious Ships.....	-	342,800	+342,800
Mine Warfare and Patrol Ships.....	599,500	1,016,300	+416,800
Auxiliaries, Craft and PY Program Costs...	1,896,500	1,807,700	-88,800
Reimbursable Program.....	2,000	2,000	-
Total Fiscal Year Program.....	6,641,600	8,640,900	+1,999,300

EXPLANATION BY BUDGET ACTIVITY

($ in thousands)

1. Fleet Ballistic Missile Ships. ($-999,000) Congressional action on the FY 1982 budget deleted the Trident submarine ($-1,099,000). In addition, advance procurement was increased ($+100,000) to avoid delay in the delivery date of the Trident submarine delayed until FY 1983.

2. Other Warships. ($+2,327,500) Congressional action on the FY 1982 budget made the following changes; added one SSN-688 class submarine ($+397,500), increased SSN advance procurement ($+368,800), reduced advance procurement for CV-SLEP ($-19,800), added one CG-47 AEGIS cruiser ($+781,000), added advance procurement for the CVN nuclear aircraft carrier ($+475,000) and added full funding for the U.S.S. New Jersey ($+237,000) and advance procurement for the U.S.S. Iowa ($+88,000).

3. Amphibious Ships. ($+342,800) Congressional action on the FY 1982 budget added $297,800 for one LSD-41 landing ship dock and added $45,000 for advance procurement for the LHD-1 amphibious assault ship program.

4. Mine Warfare and Patrol Ships. ($+416,800) Congressional action on the FY 1982 budget added two FFG guided missile frigates ($+418,500) and deleted $1,700 from one MCM mine countermeasures ship.

5. Auxiliaries, Craft and PY Program Costs. ($-88,800) Congressional action on the FY 1982 budget deleted the TAKX maritime prepositioning ship ($-154,000 full funding and $-88,100 advance procurement), deleted the TAKX RO/RO conversion maritime prepositioning ship ($-93,900), reduced the TAO fleet oiler ($-4,900), reduced the TAGOS Surtass Ship ($-3,200), reduced the ARS salvage ship ($-26,300), added two TAKRX fast logistics ships ($+193,600), reduced advance procurement for the TAH hospital ship ($-10,000), increased the TAFS Lyness conversion ($+17,000), reduced service craft ($-1,000), increased landing craft ($+13,600), reduced outfitting ($-2,800), reduced post delivery ($-29,300), increased cost growth on prior year programs ($+118,000), reduced escalation on prior year programs ($-136,500) and added a new line item for 1977 program completion ($+119,000).

COMPARISON OF FY 1982 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 FINANCING AS SHOWN IN FY 1983 BUDGET

	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements (TOTAL)	6,641,600	8,640,900	+1,999,300
Program Requirements (Service Account)	(6,639,600)	(8,638,900)	(+1,999,300)
Program Requirements (Reimbursable)	(2,000)	(2,000)	-
Less:			
Anticipated Reimbursements	2,000	2,000	-
Reappropriation	-	236,500	+236,500
Appropriation	6,639,600	8,402,400	+1,762,800

EXPLANATION OF CHANGES IN FINANCING

The fiscal year 1982 budget has increased by $1,999.3 million since the presentation of the FY 1982 budget, as noted below:

1. Program Requirements. There has been an increase of.....1,999,300

   Service Account. Reflects actual appropriation act vice amount requested.....1,999,300

ANALYSIS OF UNOBLIGATED BALANCES - FY 1983

SUMMARY OF CATEGORY

CATEGORY	Estimated Unobligated Dollars (Millions)	% of Total Unobligated
1. Engineering Changes	1,303	17.9
2. Phased Procurement of Government Furnished Material	2,965	40.8
3. Price Redetermination	3,006	41.3
TOTAL UNOBLIGATED FY 1983	7,274	100%

EXPLANATION BY CATEGORY

1. Engineering Changes-$1,303 million. This category is for specific changes in ship construction, ordnance and electronics procurement.

2. Phased Procurement of Government Furnished Material-$2,965 million. This category is composed of materials, components, ordnance, subsystems and spare parts which are not contracted for or required in the early stages of construction.

3. Price Redeterminations -$3,006 million. This category covers estimates for contracts which have price redetermination clauses, anticipated cost growth and labor and material escalation reserves.

It is Department of Defense policy, in concert with the Congress, that the procurement and military construction appropriations are to fully fund in one fiscal year the total cost of construction projects and end items to be procured. The basis for this policy is to ensure that the Congress and the public can see the full dimensions and cost of an acquisition program when presented for appropriation, and to ensure that the action of one Congress does not commit a successor Congress to appropriate funds to continue a program that has been initiated in a prior fiscal year. Accordingly, each program budgeted in procurement and military construction appropriations will encompass all of the costs associated with the acquisition of an approved quantity of distinguishable usable end items through completion of deliveries and/or completion of construction, to include amounts for cost escalation based on approved inflation factors.

Therefore, the amounts shown above will be obligated in years later than FY 1983 for the purposes shown above for all ships requested in the FY 1983 appropriation request.

Department of the Navy
Other Procurement, Navy

Justification of Estimates for Fiscal Year FY 1983

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Other Procurement, Navy

For procurement, production, and modernization of support equipment and materials not otherwise provided for, Navy ordnance and ammunition (except ordnance for new aircraft, new ships, and ships authorized for conversion); the purchase of not to exceed three hundred and four three hundred and twenty-four passenger motor vehicles of which two hundred and ninety-two shall be for replacement only; expansion of public and private plants, including the land necessary therefore, and such lands and interests therein, may be acquired, and construction prosecuted therein prior to approval of title as required by section 355, Revised Statutes, as amended; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; $3,708,777,000, $3,970,156,000 to remain available for obligation until September 30, 1984, 1985. (10 U.S.C. 5012, 5031; 31 U.S.C. 718; Department of Defense Appropriation Act, 1982.

Program and Financing (in thousands of dollars)

Identification code 17-1810-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ships support equipment	674,868	692,066	568,863	651,868	635,925	575,169
2. Communications and electronics equipment	1,054,345	1,174,146	1,487,998	986,147	1,203,143	1,380,389
3. Aviation support equipment	369,716	579,155	608,208	373,746	512,730	602,810
4. Ordnance support equipment	596,816	830,147	785,195	508,767	749,533	806,264
5. Civil engineering support equipment	74,372	114,362	172,837	63,549	107,938	151,869
6. Supply support equipment	68,726	75,921	91,164	79,241	67,935	86,910
7. Personnel and command support equipment	191,014	210,780	255,891	131,487	257,473	250,667
Total direct	3,029,857	3,676,577	3,970,156	2,794,805	3,534,677	3,854,078
Reimbursable program	48,568	40,000	40,000	17,351	100,549	40,000
10.0001 Total	3,078,425	3,716,577	4,010,156	2,812,156	3,635,226	3,894,078
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-25,151	-16,000	-16,000	-20,440	-16,000	-16,000
13.0001 Trust funds	-22,860	-22,000	-22,000	-18,679	-22,000	-22,000
14.0001 Non-federal sources	-557	-2,000	-2,000	187	-2,000	-2,000
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-7,195	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-841,086	-1,054,122	-1,135,473
21.4002 Available to finance new budget plans	-21,500	.....	.....	-21,500	.....	.....
21.4003 Reprogramming from or to prior year budget plan	-50,791	.....	.....	.....	.....	.....
23.4001 Unobligated balance transferred to other accounts	21,500	.....	.....	21,500	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	1,054,122	1,135,473	1,251,551
25.0001 Unobligated balance lapsing	50,791	.....	.....	50,791	.....	.....
39.0001 Budget authority	3,029,857	3,676,577	3,970,156	3,029,857	3,676,577	3,970,156
Budget authority:						
40.0001 Appropriation	3,037,657	3,708,777	3,970,156	3,037,657	3,708,777	3,970,156
41.0001 Transferred to other accounts(-)	-7,800	-32,200	.....	-7,800	-32,200	.....
43.0001 Appropriation (adjusted)	3,029,857	3,676,577	3,970,156	3,029,857	3,676,577	3,970,156
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				2,773,224	3,595,226	3,854,078
72.4001 Obligated balance, start of year				3,797,168	4,076,890	4,974,916
74.4001 Obligated balance, end of year				-4,076,890	-4,974,916	-5,591,794
77.0001 Adjustments in expired accounts				34,738	.....	.....
78.0001 Adjustments in unexpired accounts				-7,195	.....	.....
90.0001 Outlays				2,521,046	2,697,200	3,237,200

Object Classification (in thousands of dollars)

Identification code 17-1810-0-1-051		1981 actual	1982 est.	1983 est.
	Direct obligations:			
	Other services:			
125.002	Purchases from industrial funds	30,677	45,864	48,897
125.003	Contracts	71,581	98,461	106,963
125.004	Other	34,085	50,597	55,179
126.001	Supplies and materials	479,927	722,358	786,814
131.001	Equipment	2,178,535	2,617,397	2,856,225
199.001	Total direct obligations	2,794,805	3,534,677	3,854,078
	Reimbursable obligations:			
	Other services:			
225.002	Purchases from industrial funds	333	560	560
225.003	Contracts	884	1,160	1,100
225.004	Other	416	600	600
226.001	Supplies and materials	2,484	9,200	9,200
231.001	Equipment	13,234	89,029	28,480
299.001	Total reimbursable obligations	17,351	100,549	40,000
999 901	Total obligations	2,812,156	3,635,226	3,894,078

Program and Financing (in thousands of dollars) | 1979 Fiscal year program

Identification code 17-1810-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ships support equipment				12,210		
2. Communications and electronics equipment				56,910		
3. Aviation support equipment				44,064		
4. Ordnance support equipment				15,099		
5. Civil engineering support equipment				4,372		
6. Supply support equipment				2,624		
7. Personnel and command support equipment				14,868		
Total direct				150,147		
Reimbursable program				1,512		
10.0001 Total				151,659		
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde				1,315		
13.0001 Adjustment to prior year trust fund orders				667		
14.0001 Adjustment to non-federal sources				-23		
17 0001 Recoveries of prior year obligations(-)				-4,484		
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans				-199,925		
21.4002 Reprograming from or to prior year budget plan	-50,791					
25.0001 Unobligated balance lapsing	50,791			50,791		
40.0001 Budget authority						

Program and Financing (in thousands of dollars) | 1980 Fiscal year program

Identification code 17-1810-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ships support equipment	.....	.....	.....	78,030	25,509	.....
2. Communications and electronics equipment	.....	.....	.....	165,787	81,160	.....
3. Aviation support equipment	.....	.....	.....	61,541	17,459	.....
4. Ordnance support equipment	.....	.....	.....	65,310	23,916	.....
5. Civil engineering support equipment	.....	.....	.....	7,103	1,182	.....
6. Supply support equipment	.....	.....	.....	21,713	1,816	.....
7. Personnel and command support equipment	.....	.....	.....	28,254	16,915	.....
Total direct	.....	.....	.....	427,738	167,957	.....
Reimbursable program	.....	.....	.....	15,443	25,057	.....
10.0001 Total	.....	.....	.....	443,181	193,014	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	3,396	.....	.....
13.0001 Adjustment to prior year trust fund orders	.....	.....	.....	3,514	.....	.....
14.0001 Adjustment to non-federal sources	.....	.....	.....	767	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-2,711	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-641,161	-193,014	.....
21.4002 Available to finance new budget plans	-21,500	.....	.....	-21,500	.....	.....
23.4001 Unobligated balance transferred to other accounts	21,500	.....	.....	21,500	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	193,014	.....	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....

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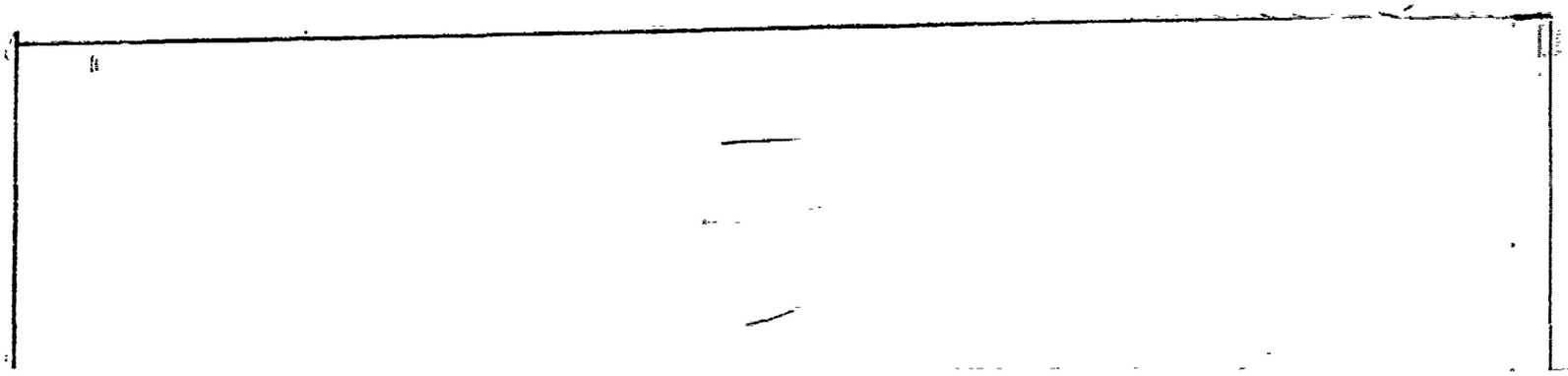
Program and Financing (in thousands of dollars) | 1981 Fiscal year program

Identification code 17-1810-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1 Ships support equipment	674,868	.....	.....	561,628	91,366	21,874
2. Communications and electronics equipment	1,054,345	.....	.....	763,450	241,374	49,521
3. Aviation support equipment	369,716	.....	.....	268,141	60,905	40,669
4. Ordnance support equipment	596,816	.....	.....	428,358	103,007	65,451
5. Civil engineering support equipment	74,372	.....	.....	52,074	20,985	1,313
6. Supply support equipment	68,726	.....	.....	54,904	9,178	4,644
7. Personnel and command support equipment	191,014	.....	.....	88,365	82,473	20,176
Total direct	3,029,857	.....	.....	2,216,920	609,288	203,648
Reimbursable program	48,568	.....	.....	396	45,492	2,680
10.0001 Total	3,078,425	.....	.....	2,217,316	654,780	206,328
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-25,151	.....	.....	-25,151	.....	.....
13.0001 Trust funds	-22,860	.....	.....	-22,860	.....	.....
14.0001 Non-federal sources	-557	.....	.....	-557	.....	.....
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	-861,108	-206,328
24.4001 Unobligated balance available, end of year	.....	.....	.....	861,108	206,328	.....
39.0001 Budget authority	3,029,857	.....	.....	3,029,857	.....	.....
Budget authority:						
40.0001 Appropriation	3,037,657	.....	.....	3,037,657	.....	.....
41.0001 Transferred to other accounts(-)	-7,800	.....	.....	-7,800	.....	.....
43.0001 Appropriation (adjusted)	3,029,857	.....	.....	3,029,857	.....	.....

Program and Financing (in thousands of dollars) — 1982 Fiscal year program

Identification code 17-1810-0-1-051

		Budget plan (amounts for procurement actions programed)			Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
	Program by activities:						
	Direct:						
	1. Ships support equipment	.....	692,066	.....	.....	519,050	126,648
	2. Communications and electronics equipment	.....	1,174,146	.....	.....	880,609	214,869
	3. Aviation support equipment	.....	579,155	.....	.....	434,366	105,985
	4. Ordnance support equipment	.....	830,147	.....	.....	622,610	151,917
	5. Civil engineering support equipment	.....	114,362	.....	.....	85,771	20,928
	6. Supply support equipment	.....	75,921	.....	.....	56,941	13,893
	7. Personnel and command support equipment	.....	210,780	.....	.....	158,085	38,573
	Total direct	.....	3,676,577	.....	.....	2,757,432	672,813
	Reimbursable program	.....	40,000	.....	.....	30,000	7,320
10.0001	Total	.....	3,716,577	.....	.....	2,787,432	680,133
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds	.....	-16,000	.....	.....	-16,000	.....
13.0001	Trust funds	.....	-22,000	.....	.....	-22,000	.....
14.0001	Non-federal sources	.....	-2,000	.....	.....	-2,000	.....
21.4001	Unobligated balance available, start of year	.....	.....	.....	.....	.....	-929,145
24.4001	Unobligated balance available, end of year	.....	.....	.....	.....	929,145	249,012
39.0001	Budget authority	.....	3,676,577	.....	.....	3,676,577	.....
	Budget authority:						
40.0001	Appropriation	.....	3,708,777	.....	.....	3,708,777	.....
41.0001	Transferred to other accounts(-)	.....	-32,200	.....	.....	-32,200	.....
43.0001	Appropriation (adjusted)	.....	3,676,577	.....	.....	3,676,577	.....



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Program and Financing (in thousands of dollars) | 1983 Fiscal year program

Identification code 17-1810-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ships support equipment	.....	.....	568,863	.....	.....	426,647
2. Communications and electronics equipment	.....	.....	1,487,998	.....	.....	1,115,999
3. Aviation support equipment	.....	.....	608,208	.....	.....	456,156
4. Ordnance support equipment	.....	.....	785,195	.....	.....	588,896
5. Civil engineering support equipment	.....	.....	172,837	.....	.....	129,628
6. Supply support equipment	.....	.....	91,164	.....	.....	68,373
7. Personnel and command support equipment	.....	.....	255,891	.....	.....	191,918
Total direct	.....	.....	3,970,156	.....	.....	2,977,617
Reimbursable program	.....	.....	40,000	.....	.....	30,000
10.0001 Total	.....	.....	4,010,156	.....	.....	3,007,617
Financing:						
Offsetting collections from:						
11.0001 Federal funds	.....	.....	-16,000	.....	.....	-16,000
13.0001 Trust funds	.....	.....	-22,000	.....	.....	-22,000
14.0001 Non-federal sources	.....	.....	-2,000	.....	.....	-2,000
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	.....	1,002,539
40.0001 Budget authority	.....	.....	3,970,156	.....	.....	3,970,153



INTRODUCTORY STATEMENT
(In Thousands of Dollars)

	FY 1981 Actual	FY 1982 Estimate	FY 1983 Estimate	FY 1984 Estimate
Appropriation (Adjusted)	3,029,857	3,676,577	3,970,156	5,259,161
Total Direct Obligation	2,794,805	3,534,677	3,854,078	-
Total Direct Budget Plan	3,029,857	3,676,577	3,970,156	5,259,161

The Other Procurement, Navy (OPN) appropriation provides for the procurement of all major items of equipment except ships, aircraft, missiles, torpedoes and other weapons. The procurements support programs to improve the active fleet and shore establishment by the introduction of equipments to expand or maintain existing capabilities or to provide for replacement of ineffective units. Also included is the procurement of air and ship launched ammunition, the procurement of nuclear cores and components for refueling nuclear powered surface ships and submarines, the procurement of vehicular and materials handling units and support equipment to maintain forces ashore and afloat.

The Total Direct Budget Plan for FY 1983 is $3,970,156 thousand, an increase of $293,579 thousand over the FY 1982 budget plan. New Obligational Authority of $3,970,156 thousand is required to finance the planned FY 1983 program.

Significant features of the FY 1983 budget request are:

1. A ships support equipment program of $568.9 million which include a program of $257.1 million for reactor fuel and replacement reactor components for nuclear submarines and surface ships and a program of $311.8 million for major hull, mechanical, and electrical (HM&E) items and other shipboard equipment.

2. A communications and electronic equipment program of $1,488.0 million. This program includes $207.4 million for ship sonars, $270.9 million for Anti-Submarine Warfare (ASW) Electronic Equipment, $257.0 million for communications equipment, $268.0 million for Reconnaissance and Electronic Warfare Equipment, and $171.4 million for ship radar equipment. The remaining funds ($313.3 million) are required for aviation, ship, shore and specialized electronic support equipment.

3. A program of $608.2 million for aviation support equipment. This includes $183.6 million for sonobuoys and $207.9 million for bombs, rockets and other air launched ordnance. In addition, $216.7 million is budgeted for a variety of supporting programs, such as LAMPS MK III Shipboard Equipment, aircraft launching and retrieving equipment, weapons range equipment, photographic equipment, meteorological equipment and survival equipment.

4. A program of $785.2 million for ship ordnance and supporting programs. Included is $55.3 million for Fleet Ballistic Missile (FBM) Support Equipment, $90.1 million for Ship Gun Ammunition, $350.0 million for ship missile systems equipment, and $69.9 million for Anti-Submarine Warfare (ASW) Support Equipment. The remaining funds ($219.9 million) are required for such programs as gun fire control systems, miscellaneous expendable ordnance, and spare parts.

5. A program of $172.8 million for vehicles and construction equipment ($74.3 million of which is for Fleet Hospitals).

6. A program of $91.2 million for supply equipment.

7. A Personnel and Command Support Equipment program of $255.9 million.

The FY 1984 authorization estimate is $5,259,161 thousand, an increase of $1,289,005 thousand over the FY 1983 budget plan.

Significant features of the FY 1984 authorization request are:

1. A program of $801.1 million for ships support equipment which includes a program of $477.2 million for reactor fuel and replacement reactor components for nuclear submarines and surface ships and a progra. of $323.9 million for major hull, mechanical, and electrical (HM&E) items and other shipboard equipment.

2. A communications and electronic equipment program of $1,761.6 million. This program includes $278.8 million for ship sonars, $418.0 million for Anti-Submarine Warfare (ASW) Electronic Equipment, $300.6 million for communications equipment, $208.6 million for Reconnaissance and Electronic Warfare Equipment, and $126.3 million for ship radar equipment. The remaining funds ($429.3 million) are required for aviation, ship, shore and specialized electronics support equipment.

3. A program of $881.3 million for aviation support equipment. This includes $245.4 million for sonobuoys and $397.0 million for bombs, rockets and other air launched ordnance. In addition, $238.9 million is budgeted for a variety of supporting programs, such as LAMPS MK III Shipboard Equipment, aircraft launching and retrieving equipment, weapons range equipment, photographic equipment, meteorological equipment and survival equipment.

4. A program of $985.6 million for ship ordnance and supporting programs. Included is $55.3 million for Fleet Ballistic Missile (FBM) Support Equipment, $154.2 million for Ship Gun Ammunition, $396.0 million for ship missile systems equipment, and $105.4 million for Anti-Submarine Warfare (ASW) Support Equipment. The remaining funds ($274.7 million) are required for such programs as gun fire control systems, miscellaneous expendable ordnance and spare parts.

5. A program of $287.3 million for vehicular and construction equipment ($180.2 million of which is for Fleet Hospitals).

6. A program of $118.4 million for supply equipment.

7. A Personnel and Command Support Equipment program of $423.9 million.

SUMMARY OF REQUIREMENTS
(In Thousands of Dollars)

	FY 1981 Actual	FY 1982 Estimate	FY 1983 Estimate	FY 1984 Estimate
Ships Support Equipment	674,868	692,066	568,863	801,101
Communications and Electronics Equipment	1,054,345	1,174,146	1,487,998	1,761,599
Aviation Support Equipment	369,716	579,155	608,208	881,268
Ordnance Support Equipment	596,816	830,147	785,195	985,591
Civil Engineering Support Equipment	74,372	114,362	172,837	287,267
Supply Support Equipment	68,726	75,921	91,164	118,407
Personnel and Command Support Equipment	191,014	210,780	255,891	423,928
Total Direct Program	3,029,857	3,676,577	3,970,156	5,259,161
Reimbursable Program	48,568	40,000	40,000	40,000
Total Program Requirements (Current)	3,078,425	3,716,577	4,010,156	5,299,161
Less: Portion of program to be obligated in subsequent fiscal years	861,108	929,145	1,002,539	-
Plus: Obligations incurred against prior year program funds	594,839	847,794	886,461	-
Total Obligations	2,812,156	3,635,226	3,894,078	-

BUDGET ACTIVITY 1: SHIP SUPPORT EQUIPMENT
SUMMARY OF BUDGET PLAN
(IN THOUSANDS)

	BUDGET PLAN (Amounts For Procurement Actions Programmed)				
	FY 1981 ACTUAL	FY 1982 ESTIMATE	FY 1983 ESTIMATE	FY 1984 ESTIMATE	JUSTIFICATION PAGE
SHIPBOARD COMPONENTS	$215,905	$252,729	$248,032	$258,448	4-1-1
REACTOR PLANT EQUIPMENT	288,805	367,583	257,147	477,217	4-1-13
OTHER SUPPORT SUPPORT	170,158	71,754	63,684	65,436	4-1-13
TOTAL BUDGET PLAN	$674,868	$692,066	$568,863	$801,101	

Budget Activity 1 - Ships Support Equipment

($ IN THOUSANDS)
FY 1984 Estimate - $801,101
FY 1983 Estimate - 568,363
FY 1982 Estimate - 692,066
FY 1981 Actual - 674,868

Purpose and Scope of Work

Budget Activity 1 programs include Shipboard Components, Reactor Fuel and Components, support of the Deep Submergence, TRIDENT and Small Boat procurement programs, and procurement of Production Facilities and Equipment.

Shipboard components, as well as nuclear components and small boats, are procured for direct installation on Active Fleet ships as part of a planned maintenance replacement program or as part of an improvement program. These components are also procured to fill authorized stock requirements. Funding for the Deep Submergence Program is aimed at expanding the Navy's capability to live, work, explore and rescue in deep ocean areas. Funds are also required to provide plant equipment and other support equipment for the TRIDENT Refit Facility. Production and Plant equipment includes new and replacement machine tools and shop equipment for naval activities, operating forces and Shore Intermediate Maintenance Activities.

Justification of Funds

Shipboard Components (Includes P-1 Line Items 1-44)

($ IN THOUSANDS)
FY 1984 Estimate - $258,449
FY 1983 Estimate - 248,032
FY 1982 Estimate - 252,729
FY 1981 Actual - 215,905

The funds requested in FY 1983 and FY 1984 will provide for a program to improve and maintain the Active Fleet by the introduction of new types of shipboard components and maintenance/replacement of existing components. Funds requested will also provide for the replacement of submarine batteries, procurement of TRIDENT Refit Facility Equipment and procurement of equipment to upgrade maintenance activities for the Intermediate Maintenance concept.

Ship Propulsion Equipment (P-1 Line Items 1-7).

($ IN THOUSANDS)	
FY 1983	FY 1984
$32,863	$50,720

These funds will provide for the procurement of equipment designed to improve the reliability, maintainability and durability of the LM 2500 Gas Turbine Engines introduced into the fleet through the DD-963 and FFG-7 Class construction programs and the Allison 501K Gas Turbine engine introduced into the fleet through the DD-963, DD-993, and DD-997 Class ships. This will be accomplished through procurement of necessary modifications identified as a result of an on-going Component Improvement Program now financed in the RDT&E appropriation. Existing 1200 and 600 PSI Steam Plants require sufficient funds to modify and improve reliability, including procurement of fuel oil strainers, main feed pump lube oil mods and overspeed trips. Funds requested will also procure ME831-800 gas turbines, stronger struts and foils and improved foilborne gearboxes to support PHM-1 Class ships.

Other Generator/Pumps (P-1 Line Items 8-10).

($ IN THOUSANDS)	
FY 1983	FY 1984
$24,584	$10,687

These funds will provide for continuation of programs to replace obsolescent, unsupportable, underpowered and unreliable generators and pumps of various capacities and sizes. These programs also procure equipment to support programmed SHIPALTS. Types of equipment procured include a 300KW Diesel Generator to support DDG-2 Class overhauls and funds to convert the DD-963 400 HZ static frequency converter from water cooled to air cooled.

Air Compressors (P-1 Line Items 11-12).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 4,408	$ 7,489

These funds will provide for the procurement of higher capacity and more reliable high pressure air compressors than those currently installed in the Active Fleet. Oil free 20 and 13 1/2 Cubic foot/hour (CFH) Air Compressors

are needed to support combat weapon system operations on combatants. Also being procured are 30 CFH Air Compressors which are essential to the operation of Liquid Oxygen (LOX) Generating Plants on aircraft carriers in direct support of aircraft.

Propellers (P-1 Line Items 13-14).

($ IN THOUSANDS)	
FY 1983	FY 1984
$15,749	$13,392

These funds will provide for the procurement of Damped Propellers to reduce the noise signature on FBM and attack submarines and as replacements for these propellers currently installed as casualties occur. Funds are also required for replacement of blades, shafts and hubs in support of Active Fleet ships as damage or failure occurs as well as for support inventories for new classes of ships.

Navigation Equipment (P-1 Line Items 15-17).

($ IN THOUSANDS)	
FY 1983	FY 1984
$32,937	$33,611

These funds will procure Electrically Suspended Gyro Navigators (ESGN) which are programmed as replacement for MK-3 Ships Inertial Navigation System (SINS) on SSN-637 Class and SSN's 671 and 685; and as replacement for Dual Miniature Inertial Navigation System (DMINS) on SSN-688 Class ships. The improvement over the MK-3 SINS is in reliability, maintability, availability and performance. The improvement over DMINS is in performance. Funds are also required for maintenance items and newly developed improvements such as the AN/WSN-5 Inertial Navigation Sets for CG/CGN/DDG Class ships.

Underway Replenishment Equipment (P-1 Line Item 18).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 7,668	$ 3,043

The equipment procured under this program is required to provide the Active Fleet with new or improved underway replenishment-at-sea capability. This equipment is used to transfer fuel, cargo, ammunition, and missiles by both alongside and vertical replenishment techniques. The equipment being procured is in support of the following objectives: personnel/equipment safety; reduction in maintenance costs; and reduction in alongside time, to minimize ship vulnerability to enemy action. Major equipment is air clutch winches, anti-slack devices, and highline/spanwire winches.

Periscopes (P-1 Line Items 19-21).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 4,574	$ 7,312

These funds will provide for the procurement of the Type 18 Periscope related material and other periscopes and accessories. The Type 18 periscope equipment ($2.1 million in FY 1983 and $5.9 million in FY 1984) includes eyepiece boxes and masts to set up an inventory of these parts based on actual/predicted failure rates and turn around times. Field change kits are being procured to implement approved changes on previously procured Type 18 Periscopes. Equipment to provide additional shore/tender based components for other type periscopes also is required to ensure that an issuable periscope is always available as a replacement for damaged units on SSN-594 and 637 Class ships. This requirement is based on past demand experience and repair turn around time. The Type 8B/8D Periscopes Modification Program ($0.6 million in FY 1983) will enable the modification of Type 8B/8D Periscopes to incorporate Electronic Surveillance Measure (ESM) capability on Fleet Ballistic Missile submarines. $1.8 million in FY 1983 and $1.4 million in FY 1984 is requested for periscopes and accessories for support and improvement of the Type 2 and 15 series periscopes for all Active Fleet submarines.

Firefighting Equipment (P-1 Line Item 22).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,933	$ 3,533

This program provides funds to supply shipboard personnel participating in fire fighting operation, fuel tank inspection, and other activities involving exposure of lungs to noxious substances with the latest available equipment in order to perform assigned tasks without risking personal injury. FY 1983 and FY 1984 funding will provide Halon 1301 Fire Fighting systems to complement the existing Aqueous Film Forming Foam/Purple K Dry Chemical Powder hose reel systems in machinery spaces, Oxygen Breathing Apparatus Voice Amplifiers to improve communication between fire fighting team members, and improved fire fighting equipment for main machinery spaces.

Command and Control Switchboards (P-1 Line Item 23).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 2,144	$ 2,128

The Navy Tactical Data System Command and Control Switchboard performs data routing, action cutout, test and operating mode selection and power monitoring and control operations. It typically switches and converts signals and power in order to provide systems interface compatibility between the target designation, electronic warfare, search radar, and fire control systems and the Interior Communications switchboard. Processed signals and ships parameters are sent to the Navy Tactical Data System computers via a multiplexer. It thus effectively ties all related ship systems together at one point. FY 1983 funds will provide switchboards for two CGNs and one DDG, and FY 1984 funds will provide switchboards for two DDGs, two CGs and one CGN.

Submarine Rescue Chambers (P-1 Line Item 24).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 0	$ 2,512

In FY 1981 efforts began to provide the Fleet with a new Deep Rescue Chamber of improved design and new handling/support systems to replace the existing forty-year old chambers. The new design Deep Rescue Chambers incor-

porate proven capabilities of existing chambers but utilize new materials to extend depth and rescue payload to accommodate today's larger, deeper-diving submarines. The new chambers will be air-transportable and capable of operating with ships-of-opportunity to permit world-wide deployment.

Pollution Control Equipment (P-1 Line Item 25).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 5,173	$ 6,924

This program will provide equipment which will enable the Navy to comply with Federal law and DOD and Environmental Pollution Control regulations. This equipment includes trash compactors, oil/water separators, sewage pumps, garbage grinders, classified waste disposers, open sea oil containment booms and vessel offload systems.

Submarine Silencing Equipment (P-1 Line Item 26).

($ IN THOUSANDS)	
FY 1983	FY 1984
$11,999	$10,407

The requested funds will provide for the procurement of equipment such as Glass Reinforced Plastic (GRP) Domes and Rings, electrical system mods, air reducing manifolds and noise/vibration monitor analyzers required to implement the militarily high priority Submarine Silencing Program on existing nuclear submarines. This equipment incorporates technology developed under R&D programs for improving detection capability and reducing the detectability of the submarine.

Surface Ship Silencing (P-1 Line Item 27).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 6,822	$ 1,516

This program will provide for the acoustic quieting of radiated noise and sonar self noise for surface ships. It will make use of the extensive silencing

technology already developed under the Submarine Silencing program. FY 1983 and 1984 provides for the procurement of Hub devices, Cascade Orificial Resistive Devices, Masker Belts, Sonar Dome Baffles, Ship Service Turbine Generator Quieting Devices, and Main Reduction Gear Quieting Devices for FF-1052 Class Ships and Orificial Resistive Devices and Masker Belts for DD-963 and FFG-7 Class Ships.

Submarine Batteries (P-1 Line Item 28).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 8,799	$ 5,897

The purpose of this program is to provide replacement batteries for all active submersible craft/ships. In FY 1983 $4.9 million is for the procurement of 22 Guppy I Mod C Batteries for SSN/SSBN Class submarines, $2.3 million is for the procurement of 2 Guppy I Mod A Batteries for SS Class Submarines, and $0.6 million is for silver zinc batteries for DSRVs and DSVs. In FY 1984 $4.0 million is for the procurement of 17 Guppy I Mod C Batteries for SSN/SSBN Class Submarines and $1.1 million is for silver zinc batteries for DSRVs and DSVs.

TRIDENT Support Equipment (P-1 Line Item 29).

($ IN THOUSANDS)	
FY 1983	FY 1984
$11,916	$22,167

Funding in this program provides for hull, mechanical and electrical equipment for the TRIDENT Training Facility (TRITRAFAC) and the TRIDENT Refit Facility (TRIREFFAC) located at the Naval Submarine Base, Bangor, WA. Also included is funding for alteration/modification kits for training equipment and tactical test hardware. Specific items included in the budget request are determined by procurement leadtimes, installation and checkout periods and equipment operational need dates.

Funding the FY 1983 and FY 1984 request is required for procurement of TRIREFFAC support items because training hardware was procured in earlier years in order to support instructor and crew training schedules. The TRIREFFAC 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 facility consists of a consolidated waterfront complex including refit piers, a drydock, a wharf for outloading explosive hardware and missiles, a magnetic silencing facility for measuring submarine magnetic field signature, and various industrial shops and warehousing facilities.

The Deep Submergence Systems Project (P-1 Line Item 30).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 6,508	$10,207

The requested funds will provide for the procurement of hardware to improve/modify Deep Submergence Vehicles to provide the Navy with the capability to rescue personnel from craft disabled on the ocean floor. It also will improve the capability to perform manned underwater search, inspection and recovery missions.

Sealift Support Equipment (P-1 Line Item 31).

($ IN THOUSANDS)	
FY 1983	FY 1984
$22,007	$24,367

This program will provide funds to procure and position special equipment for merchant ships to provide them with the capability to perform Naval auxiliary roles such as resupply shuttle ships, underway replenishment ships and container offloading ships.

Ship Support Improvement Program, LO-MIX Support (P-1 Line Item 32).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,061	$ 797

This program will procure critical, long lead time equipments, assemblies, and components to support the maintenance-limited LO-MIX classes of ships after delivery. Shipboard maintenance will emphasize modular replacement with repairables being returned to Intermediate Maintenance Activities (IMA) and Depot Overhaul Points (DOP) for repair or rework and return to stock. This modular maintenance concept requires investment in stocks of repairables. FY 1983 and FY 1984 funds will provide for support of FFG-7 and PHM Classes of ships.

MSO Ship Extension Program (P-1 Line Item 33).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 5,635	$ 1,546

This program will provide for extension of the useful service life of existing MSOs to FY 1991. Prior to the decision to defer the retirement of MSOs twenty-two of the twenty-five MSOs presently in the active fleet were scheduled for retirement in FY 1985. FY 1983 and FY 1984 funds will procure ship alteration material for the steering systems, auxiliary boilers, high temperature smoke detectors, galleys, refrigeration plants, air condition central plants, stern cranes, and battery charging switchboards.

Air Conditioning Equipment (P-1 Line Item 34).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,594	$ 2,926

The purpose of this program is to upgrade the air conditioning capacity on major combatants. This upgrade has been made necessary by the introduction of additional electronic equipment weapon systems and habitability requirements. The major FY 1983 and FY 1984 procurements are 125 ton capacity air conditioner ($1.0 million in FY 1983, $1.6 million in FY 1984), 150 ton capacity air conditioners ($2.1 million in FY 1983, $1.0 million in 1984), 75 ton capacity air conditioners ($0.5 million in FY 1983) and 40 ton capacity air conditioners ($0.3 million in FY 1984).

Minesweeping Cable (P-1 Line Item 35).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,873	$ 6,386

This program will provide for the procurement of minesweeping cables necessary to counter moored and influence mines. This equipment is needed due to the recent decision to defer the retirement of MSOs. FY 1983 and FY 1984 funds will procure Q-1, Q-3, S-1 and S-3 cables.

The Hull, Mechanical and Electrical Items Under $900K (P-1 Line Item 37).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 8,383	$ 5,214

This program supports modification/replacement for all equipment that is not in any specific category and which cost less than $900,000 by category. This includes Deck Handling Gear, Interior Communications and Switchboards, Special Test Equipment, Monitoring Equipment, and Habitability Equipment.

Surface Intermediate Maintenance Activity (P-1 Line Item 39).

($ IN THOUSANDS)	
FY 1983	FY 1984
$10,111	$11,727

This program will provide funds to upgrade facilities both ashore and afloat (industrial plant and tenders) in order to improve and expand intermediate level maintenance by the surface forces. Several recent changes, such as extended operating cycles for Cruisers and Destroyers, will shift a large portion of work normally performed at the organization level to the surface intermediated maintenance activities.

Ship Support Improvement Program Engineered Operating Cycle (P-1 Line Item 40).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 4,233	$ 5,278

This program will provide for improvement in the material condition of Engineered Operating Cycle (EOC) ships, the maintenance of that material condition at an acceptable cost and the achievement of increased operational availability. Inherent in the EOC will be several intervening maintenance availabilities of extremely short duration for performing scheduled alterations and planned overhaul of installed equipment. FY 1983 and FY 1984 funds will procure industrial plant equipment, support and test equipment, test station equipment and supporting piece parts, jigs, fixtures and adaptors in support of EOC ships, hull, machinery and electrical systems modular repair.

Radiological Controls (P-1 Line Item 42).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,961	$ 4,225

This program will provide for the protection of personnel from exposure to nuclear weapons radiation. Shielding will be affixed to ships' bulkheads and to cradles containing the individual weapons and will be composed of water extended polyethylene and aluminum. FY 1983 and 1984 funds will procure shielding for CVs, SSN 688 Class, Non-FBM ASs, and shore facilities.

Miniature/Microminiature Electronic Repair (P-1 Line Item 43).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 1,181	$ 1,179

This program will provide specialized training and equipment to assure reliable repair of modules at selected shore, surface and subsurface Fleet activities. This equipment is required to provide a minimum routine repair capability of those modules designated for organizational or intermediate level maintenance. FY 1983 funds will procure 217 repair kits, and FY 1984 funds will procure 200 repair kits.

Chemical Warfare Detectors (P-1 Line Item 44).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 1,927	$ 3,258

This program is applicable to all amphibious combat and selected combat support ships in the Active Fleet. The Active Fleet today has no capability to detect chemical warfare agents before ship contamination occurs. Advance warning of a chemical warfare attack will permit Active Fleet units to take timely action to properly combat chemical warfare agents and to continue their assigned missions. Funds will procure chemical warfare directional detectors and chemical agent point detector systems.

Reactor Plant Equipment (Includes P-1 Line Items 45-46).

	($ IN THOUSANDS)
FY 1984 Estimate -	$477,217
FY 1983 Estimate -	257,147
FY 1982 Estimate -	367,583
FY 1981 Actual -	288,805

The FY 1983 and 1984 requests provide funds for the procurement of replacement reactor cores, power units and other reactor plant components and equipment. Replacement cores and power units are the assemblies of nuclear fuel and necessary associated structural and reactivity control equipment required for the periodic refueling of nuclear powered ships. The procurement of these units is accomplished by the Department of Energy (DOE). The DOE has developed production lines within the civilian nuclear industry to fabricate these units. The funds requested are required to meet the refueling needs of the Navy in a manner most efficient to the government as recommended by the DOE. The Reactor component line item includes the components, equipment, and material required to provide minimum support needed for the continued safe and reliable operation of naval nuclear propulsion plants. Funds are programmed for acquisition of replacement components for ship alterations, replenishment of stock spare components, and specialized equipment necessary for refueling of nuclear powered ships.

Other Support Equipment (Includes P-1 Line Items 47-60).

	($ IN THOUSANDS)
FY 1984 Estimate -	$ 65,436
FY 1983 Estimate -	63,684
FY 1982 Estimate -	71,754
FY 1981 Actual -	170,158

The funds requested in FY 1983 and FY 1984 will provide for the procurement of Diving and Salvage Equipment, Naval Special Warfare Equipment, Small Boats,

Torpedo Retrievers, Life Rafts, Other Training Equipment, Calibration Equipment, Production Support Facilities Equipment, Operating Forces Industrial Plant Equipment, and Productivity Investment.

Man-In-The-Sea (P-1 Line Item 47).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 0	$ 2,960

This program provides for the procurement of equipment to support safely the existing depth capabilities imposed on the working diver as well as mission duration. FY 1984 funds will procure the MK-14 Push-Pull System.

Diving and Salvage (P-1 Line Item 48).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 4,312	$ 5,029

This program provides for procurement of equipment to improve the Navy's diving capabilities and maintain sufficient levels of critical salvage items. FY 1983 and FY 1984 funds will procure hardware which increases U.S. Navy operational surface supported maximum diving depth from 300 to 450 feet and salvage equipment such as hydraulic pullers, 30KW generators, compressors, stato anchors, puller beach gearlegs, jetting pumps, spooling systems, and nylon line.

Naval Special Warfare Equipment (P-1 Line Item 49).

($ IN THOUSANDS)	
FY 1983	FY 1984
$10,510	$ 7,194

The funds requested here provide Underwater Demolition Teams, SEAL Teams and Explosive Ordnance Disposal Teams with the improved equipment developed as part of Swimmer Support Systems. The major equipment items are Low

Influence Signature SCUBA, gas transfer and storage systems, submarine deck shelters, rubber raiding craft, and MK-89 batteries. Also included is equipment for outfitting SEAL Team Six.

Small Boats/Torpedo Retrievers/Life Rafts (P-1 Line Items 50-52).

($ IN THOUSANDS)	
FY 1983	FY 1984
$25,253	$30,557

Standard boats procured with these funds will be used to fill new or revised allowances, to replace obsolescent wooden boats now in service, and to replace boats of fiberglass or steel construction which are beyond economical repair. Types of boats to be procured with these funds include 26', 33' and 40' Personnel, 22' and 33' Utility, 25' Motor Whaleboat, 14' Punt, 35' Workboat, 24' EOD Craft, and 50' Workboat. Torpedo Retriever Procurement ($7.2 million in FY 1983, $13.2 million in FY 1984) will procure 100' retrievers used for recovering spent torpedos, missiles, small drones and mobile targets fired during Weapons Systems Acceptance Test. Life Raft procurement ($3.2 million in FY 1983, $3.7 million in FY 1984) will support the requirement for 25 man life rafts.

Other Training Equipment (P-1 Line Item 54).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 1,032	$ 3,219

This program supports initial training requirements developed through the Navy Training Plan process and sustaining training requirements developed by the Chief of Naval Education and Training. FY 1983 and FY 1984 funds will procure equipment such as a forced draft blower, a diesel engine, air compressor, and SSN-688 Class training equipment.

Calibration Equipment (P-1 Line Item 55).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 1,065	$ 1,011

This program provides for the procurement of calibration equipment for the intermediate and organizational maintenance levels. FY 1983 and FY 1984 funds will procure high temperature and pressure calibration systems and mechanical standards.

Productivity Investment Fund (P-1 Line Item 57).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 790	$ 0

This program provides for the procurement of productivity investment equipment for Naval shipyards. FY 1983 funds will procure equipment for modernization of electric shops and command management information systems.

Production Support Facilities (P-1 Line Item 58).

($ IN THOUSANDS)	
FY 1983	FY 1984
$12,895	$11,087

The funds requested in FY 1983 and FY 1984 will provide for Industrial Plant Equipment and other plant equipment necessary to support Naval Sea Systems Command managed industrial facilities other than shipyards. Funds requested will procure shop equipment, plant equipment, degaussing equipment for these facilities, and office equipment for Naval Sea Systems Command Headquarters. Prior to FY 1983 the procurement of capital investment equipment for Naval Shipyards was funded in the Other Procurement, Navy appropriation in this budget activity. Commencing in FY 1983, these capital equipment procurements will be financed by the Navy Industrial Fund (NIF) and charged to customer accounts.

Operating Forces Industrial Plant Equipment (P-1 Line Item 59).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 6,158	$ 4,192

The funds requested here are for the procurement of machine tools, industrial plant equipment and other plant equipment necessary to support fleet operations.

Spares and Repair Parts (P-1 Line Item 60).

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 1,563	$ 187

The funds requested will provide for the procurement of initial spares and repair parts required to support components installed on-board ships of the Active Fleet.

BUDGET ACTIVITY 2: COMMUNICATIONS AND ELECTRONIC EQUIPMENT

SUMMARY OF BUDGET PLAN

(In Thousands)

	BUDGET PLAN (Amounts for Procurement Actions Programmed)				
	1981 Actual	1982 Estimate	1983 Estimate	1984 Estimate	Justification Page
SHIP RADARS	62,337	79,928	171,396	126,348	4-2-2
SHIP SONARS	285,092	202,221	207,416	278,765	4-2-6
ASW ELECTRONICS	155,725	165,931	270,941	418,027	4-2-10
ELECTRONIC WARFARE EQUIPMENT	44,948	58,303	76,290	118,056	4-2-15
RECONNAISSANCE EQUIPMENT	31,881	32,292	41,320	45,515	4-2-19
SUBMARINE SURVEILLANCE EQUIPMENT	68,567	155,959	150,404	45,046	4-2-21
OTHER SHIP ELECTRONIC EQUIPMENT	48,925	77,003	87,049	179,007	4-2-24
TRAINING EQUIPMENT	3,129	4,465	5,454	9,831	4-2-28
AVIATION COMM & ELECT EQUIPMENT	54,611	63,354	59,857	79,722	4-2-28
OTHER SHORE ELECTRONIC EQUIPMENT	61,753	51,839	77,072	82,449	4-2-33
SHIPBOARD COMMUNICATIONS	23,838	43,368	49,628	55,295	4-2-37
SPECIAL COMMUNICATIONS	15,358	16,817	21,800	22,798	4-2-40
SATELLITE COMMUNICATIONS EQUIPMENT	29,897	49,773	49,635	58,688	4-2-42
SHORE COMMUNICATIONS EQUIPMENT	18,956	43,803	41,616	39,842	4-2-44
CRYPTOGRAPHIC EQUIPMENT	49,942	55,338	94,281	123,949	4-2-50
CRYPTOLOGIC EQUIPMENT	3,316	9,500	13,641	18,697	4-2-56
OTHER ELECTRONIC SUPPORT	9,109	9,105	19,864	6,773	4-2-58
SPARES AND REPAIR PARTS	86,961	55,147	50,334	52,791	4-2-59
TOTAL BUDGET PLAN	1,054,345	1,174,146	1,487,998	1,761,599	

Budget Activity 2: Communications and Electronic Equipment

	($ in Thousands)
FY 1984 Estimate	1,761,599
FY 1983 Estimate	1,487,998
FY 1982 Estimate	1,174,146
FY 1981 Actual	1,054,345

Purpose and Scope of Work

Budget Activity 2 programs include the procurement of shipboard and shore communications and electronic equipment for the Active Fleet and training activities. Improved shipboard surface and air search radars are designed to enhance the military capability of combatant ships. Anti-Submarine Warfare Electronics equipment furnishes surface ships, submarines and special shore activities with equipment used for detection tracking localization and classification of submarines. Special sonars are procured for employment in Fleet Ballistic Missile submarines. Also procured in this activity is equipment which will provide the Fleet the capability of deceiving, intercepting, and analyzing airborne, electro-magnetic and underwater radiation for the purpose of executing an effective surveillance and intelligence collection capability.

Justification of Funds

Ship Radars (P-1 Line Items 61-69)

	($ in Thousands)
FY 1984 Estimate	126,348
FY 1983 Estimate	171,396
FY 1982 Estimate	79,926
FY 1981 Actual	62,337

The Ship Radar program provides the Active Fleet with detection, tracking and identification equipment to meet the challenge of high speed attack capabilities of low-flyers, anti-ship missiles and modern aircraft. Specific projects to be funded from this request are as follows:

AN/SPS-67 (P-1 Line Item 61)

($ in Thousands)	
FY 1983	FY 1984
3,138	8,125

The AN/SPS-10 radar, which is the primary surface search radar in the Fleet, will be modernized through the use of standard electronic modules and solid state receivers and transmitters. The reliability and maintainability of the radar will be improved thereby increasing its operational availability in the Fleet. Also included as a part of this modernization will be the incorporation of a narrow pulse mode for improved navigation capability. This modernized version of the AN/SPS-10 radar has been designated the AN/SPS-67. The AN/SPS-67 was granted approval for service use in August 1980.

AN/SPS-39 (P-1 Line Item 62)

($ in Thousands)	
FY 1983	FY 1984
-0-	4,920

The AN/SPS-39A radar is a medium range three dimensional air search radar used aboard DDG-2 and DDG-15 class ships. This radar is of mid-1950's design employing vacuum tube technology and piece part repair maintenance philosophy. The radars have reached the point where a major overhaul and design upgrade is required. The funds requested will provide improvements that replace the high-failure rate and commercially unavailable parts with modern, high reliability solid-state parts. Maintainability improvements will include repackaging techniques, incorporation of built-in test features and the use of maintenance assistance modules.

AN/SPS-40 (P-1 Line Item 63)

($ in Thousands)	
FY 1983	FY 1984
14,053	14,414

The funds requested will correct problem areas in the currently installed AN/SPS-40/40A radars. The short range goal of the program is to improve the reliability and maintainability of these radars. This goal is being accomplished by the procurement and installation of major field changes in the AN/SPS-40/40A radars, upgrading them to the AN/SPS-40C configuration and by correcting recurrent maintenance problems in the Antenna and Pedestal. In addition a derivative of the automatic target field change will replace the analog moving target

indicator with a digital subsystem. The long range goal of the program is designed to increase the detection capability in a hostile or cluttered environment and against low flyer threats through improved system availability and automation techniques.

AN/SPS-48 (P-1 Line Item 64)

($ in Thousands)	
FY 1983	FY 1984
93,716	36,358

Funds are requested for the AN/SPS-48 radar, a three-coordinate air search radar whose primary function is to provide target position data to a weapon system. Collateral functions include air traffic and intercept control. Funds will provide for New Threat Upgrade (AN/SPS-48E) modification kits, New Threat Upgrade antennas, AN/SPS-48C configuration standardization, AN/SPS-48C antennas High Availability Solid State Transmitter modification kits, a Digital Moving Target Indicator modification kit, and reliability, maintainability and availability improvements. The New Threat Upgrade modification is designed to make it more difficult to jam the radar, provide higher elevation angle coverage [ ], provide frequency and pattern flexibility [ ] while detecting targets through heavy clutter, and provide a significant increase in overall availability by improving reliability and maintainability. The High Availability Solid State Transmitter modification kit provides a solid-state modification to the transmitter that is common to both the AN/SPS-48C and the AN/SPS-48E (New Threat Upgrade) radars and significantly increases the overall availability of the unit.

AN/SPS-49 (P-1 Line Item 65)

($ in Thousands)	
FY 1983	FY 1984
20,259	17,371

Funds are requested for the AN/SPS-49 radar which is a narrow beam, very long range two dimensional, air search radar. It provides the capability to conduct air search operations on a previously unused frequency thus minimizing electronic interference between ships and the effects of electronic counter-measures. The AN/SPS-49 radar enhances the overall frequency diversity of the Fleet by replacing some 200 MHZ radars, which are near end-of-life. This radar, in addition to providing good range, also provides bearing measurement for back-up three dimensional radar weapon system designation and its beam width substantially improves its resistance to jamming. The AN/SPS-49 radar is designated to replace the AN/SPS-29, 37 and 43 radar on DDG/CG/CV hulls and is the primary air search system in the new construction FFG-7 class. Development of the AN/SPS-49(V)5 radar was initiated in FY 1978 to meet the increased electronic countermeasurer (ECM) threat of the 1985-2000 time frame. This variant of the AN/SPS-49 radar includes enhanced electronic counter-countermeasures detection capability that is compatible with the New Threat Upgrade program requirements. Commencing

in FY 1983, all OPN funded procurements of the AN/SPS-49 radar will be of the AN/SPS-49(V)5 configuration.

AN/SPS-52 (P-1 Line Item 66)

($ in Thousands)	
FY 1983	FY 1984
485	-0-

The AN/SPS-52C radar is a medium range, height finding system which is an outgrowth of the AN/SPS-52B radar. The AN/UYK-20 digital computer replaces the Hughes 3118 used in the AN/SPS-52B and performs stabilization and beam control, target processing, and interface with the AN/SYS-1 Computer. In order to provide automatic target detection capability, the Video Extractor and Control Group was added to the AN/SPS-52B to perform the radar beam control conversion functions and the Radar Video Converter functions necessary to support the AN/SYS-1 system. Funds requested will provide training hardware necessary to support Navy training on the PPC display which includes AN/UYA-4 consoles, AN/UYK-20 computers, peripherals and prefaulted modules.

AN/SYS-( ) (P-1 Line Item 67)

($ in Thousands)	
FY 1983	FY 1984
10,205	14,679

The Integrated Automatic Detection and Tracking System AN/SYS-( ), provides the capability to correlate contact data from up to three radars, determine target tracks, and provide a single target output to the ship's command and decision system automatically. The net result is improved reaction time and greater resistance to degradation by electronic countermeasures. Funds requested will initiate procurement of the AN/SYS-2 in support of the New Threat Upgrade program.

MK-23 Target Acquisition System (TAS) (P-1 Line Item 68)

($ in Thousands)	
FY 1983	FY 1984
23,464	15,085

The MK-23 Target Acquisition System is a rapid reaction, fully automatic, electronic counter-countermeasure capable radar system developed as the target acquisition system for the Improved Point Defense Missile System. This system consists of the MK-23 Target Acquisition System and NATO SEASPARROW which are currently being

installed in the DD-963 class ships and high-value auxiliaries. Funds are requested for five systems in FY 1983 and three systems in FY 1984.

Radar Support (P-1 Line Item 69)

($ in Thousands)	
FY 1983	FY 1984
6,076	15,396

Funds requested are for radar support items, such as: (1) replacements for obsolete surface search radars, (2) reliability and maintainability improvements to shipboard radars and ancillary equipment; (3) replacement antennas; and (4) solid state improvements.

Ship Sonars (P-1 Line Items 70-79)

	($ in Thousands)
FY 1984 Estimate	278,705
FY 1983 Estimate	207,410
FY 1982 Estimate	202,221
FY 1981 Actual	285,092

The FY 1983 and 1984 estimates for these programs is for the procurement and support of major Ship Sonar Systems as follows:

AN/SQS-26/53/53A (P-1 Line Item 71)

($ in Thousands)	
FY 1983	FY 1984
19,099	9,361

FY 1983 funds provide for the procurement of the redesigned Louis-Allis Power Supply (LAPS) Input Inverter for the AN/SQS-26 sonar system, Passive Equipment Cabinet (PEC), and Sonar In-Situ Mode Assessment System (SIMAS) for the AN/SQS-26CX/53 systems. The LAPS provides improved reliability and maintainability. PEC and SIMAS provide performance improvements. The FY 1984 funds provide for procurement of AN/SQS-26 CX Group I improvements consisting of two sets of trainer hardware and six sets of shipboard hardware. Also included is associated production engineering support.

AN/SQS-53B (P-1 Line Item 73)

($ in Thousands)	
FY 1983	FY 1984
-0-	60,441

The AN/SQS-53 Phase I Improvement program (designated AN/SQS-53B) will provide improved system maintainability, reduced manning levels resulting in total life cycle cost savings and integration with other shipboard systems. It will interface with Anti-Submarine Warfare (ASW) control systems aboard the DD-963, CG-47, DDG-993, CGN-38 class ships and CG-26. FY 1984 funds provide for initial procurement of shipboard kits, a maintenance trainer, operator trainer hardware and associated production engineering support.

AN/BQQ-5 (P-1 Line Item 74)

($ in Thousands)	
FY 1983	FY 1984
70,237	72,826

The AN/BQQ-5 sonar system provides major capabililty improvements over the existing AN/BQQ-2 sonar system. Areas of improvements include [redacted] classification and tracking, and active search and detection. The AN/BQQ-5 sonar will be installed on all SSN-594 and SSN-637 class submarines during regular overhaul in order to meet the late 1980's submarine threat. The last complete AN/BQQ-5 backfit systems were procured in FY 1981. Commencing in FY 1982 this line item funds the procurement of modification kits to upgrade installed systems to the AN/BQQ-5C Expanded DIFAR configuration. The FY 1983 program primarily provides for procurement of additional towed arrays and AN/BQQ-5C modification kits required to upgrade previously procured and installed systems on SSN-594, SSN-637, and SSN-688 class submarines. In FY 1984 13 of these upgrade kits will be procured with associated production engineering support.

AN/BQN-17 (P-1 Line Item 75)

($ in Thousands)	
FY 1983	FY 1984
1,304	182

The AN/BQN-17 provides a depth sounding capability at all submarine speeds, in shallow or deep water. Utilizing the non-linear characteristics of water, the system produces a narrow beam acoustic signal with no

side lobes which provides a secure depth sounding and contour navigation capability. The system is the planned replacement for AN/UQN-1/4 on SSNs. Funds requested provide basic equipment and support of SSN-594 and SSN-637 class submarines during overhauls.

Surface Sonar Windows and Domes (P-1 Line Item 76)

($ in Thousands)	
FY 1983	FY 1984
6,947	7,809

This program provides for the procurement of emergency replacement windows and domes for the AN/SQS-26/53, AN/SQQ-23, AN/SQS-56, AN/SQS-38 Sonar Systems and "F" cog material for AN/SQS-53/38 Sonar Systems.

Sonar Support Equipment (P-1 Line Item 77)

($ in Thousands)	
FY 1983	FY 1984
5,855	5,055

This program supports procurement of in-service Anti-Submarine Warfare (ASW) submarine sonar modifications, components and field changes required when units are reported defective due to age, obsolescence or casualty. This support is provided to both SSNs and SSBNs. In addition, various sonar general support equipment will be procured. Major items programed for procurement in FY 1983 and FY 1984 include: Upgrade Equipment for the Transducer Repair Facilities (TRF's) including Towed Line Array (TLA) Plant Equipment for the AN/SQR-18A(V1), AN/SQR-18A(V2), and AN/SQR-19; additional engineering change kits for the AN/BQS-15 Sonar; AN/WQM-5 Test Set Components, and various BQR-20 Series Improvements.

Sonar Switches and Transducers (P-1 Line Item 78)

($ in Thousands)	
FY 1983	FY 1984
57,478	39,680

This program supports the procurement of in-service Anti-Submarine Warfare (ASW) surface ship and submarine sonar hydrophones, transducers, cables and electronic scanning switches. These components are required to support units in the Fleet on a replacement basis, at regularly scheduled ship overhauls and at interim availabilities when units are reported defective due to age, obsolescence or casualty. The major items of

procurement in FY 1983 and FY 1984 are the TR-155 transducers for AN/BQS-11/12/13 and AN/BQQ-5 sonars on SSN-594 and SSN-637 class submarines and the new TR-313 transducer (formerly TR-227 ( ) transducer) for the AN/SQS-26 sonar. The other major items being procured in this line are the Electronic Scanning Switches which are required to support replacement of unreliable mechanical switches with electronic switches on both surface ships and submarines.

FBM System Sonars (P-1 Line Item 79)

($ in Thousands)	
FY 1983	FY 1984
46,496	83,211

The Fleet Ballistic Missile (FBM) System Sonar consist of the AN/BQR-15, AN/BQR-23, AN/BQR-19, AN/BQR-21, AN/BQR-T4 (on board sonar trainer), Improved Sonar Processing Equipment (ISPE) and the Improved Ballistic Nuclear Submarine (SSBN) Acoustic Recording System (ISARS). Funds requested in FY 1983 and FY 1984 are for the AN/BQN-15 Array Modification which will result in the replacement of the present towed array system with a longer aperture array; for AN/BQR-23 cathode ray tube, improved memory and improved processor modifications, for AN/BQR-21 Improved Processor which will provide solutions to the major operational and maintenance deficiencies identified by the users; for AN/BQR-T4 multi-path arrival modification which will permit the simulated oceanic conditions to be adjusted to represent realistically conditions outside the submarine at any given time; and for Towed Array Signal Processing Equipment (commencing in FY 1984) which will provide processing and display for the AN/BQR-15 towed array.

ASW Electronics (P-1 Line Items 80-93)

	($ in Thousands)
FY 1984 Estimate	418,027
FY 1983 Estimate	270,941
FY 1982 Estimate	165,931
FY 1981 Actual	155,725

The Fiscal Year 1983 and Fiscal Year 1984 estimates provide for the procurement and support of major Anti-Submarine Warfare (ASW) Electronic Systems.

Surface Ship Silencing Electronic (P-1 Line Item 80)

($ in Thousands)	
FY 1983	FY 1984
7,949	8,117

This line item requests funds for the procurement of the AN/SQR-17 Adaptive Line Enhancer (ALE) and the AN/SQR-18A Sonar Post Beamformer Interference Canceller (PIC). Procurement of these items will improve the passive performance of the respective sonar systems by reducing the effects of ship generated noise, far field noise, and broadband noise.

Submarine Acoustic Warfare System (P-1 Line Item 81)

($ in Thousands)	
FY 1983	FY 1984
7,436	16,202

The Submarine Acoustic Warfare System will provide submarines with an enhanced survival capability against enemy torpedoes and a means to reduce the effectiveness of enemy sensors. FY 1983 funds will continue the procurement of the Modified Aft Signal Ejector (MASE) Launcher, the Countermeasures Set Acoustic (CSA MK-1 Mod 0) device, complete procurement of the AN/WLR-9A sensitivity Improvement Mod kits, and associated production support. FY 1984 funds will continue the procurement of MASE; the General Noise and Tonal System (GNATS), GNATS SHIPALT kits, AN/BLR-14 programming changes, launcher modules, and associated production support.

AN/SLQ-25 (NIXIE) (P-1 Line Item 83)

($ in Thousands)	
FY 1983	FY 1984
5,102	11,631

The AN/SLQ-25 (NIXIE) is a surface ship towed acoustic torpedo countermeasure system[redacted] The system consists of an acoustic projector housed in a watertight streamline body towed up to 1500 ft astern of the deploying ships, a combination tow and signal cable, a streaming winch, a remote control panel and a main electronic console that generates and amplifies signals. FY 1983 funds will procure 26 AN/SLQ-25 systems and associated production support services. FY 1984 funds will procure 52 NIXIE systems and associated support.

ASW Combat System Integration (P-1 Line Item 84)

($ in Thousands)	
FY 1983	FY 1984
-0-	44,079

The Anti-Submarine Warfare (ASW) Combat System Integration program is a computer based data management system which correlates contact/track data from AN/SQQ-89 sensors (consisting of integration of the AN/SQR-19 Towed Array Sonar, the AN/SQQ-28 LAMPS MK III Shipboard processor for sonobuoy data, SQS-53b/C Hull mounted Sonar) and supports threat localization and engagement with shipboard weapons and LAMPS MK III. FY 1984 funds will procure ten systems and provide associated production engineering.

Integrated Acoustic Communication System (P-1 Line Item 85)

($ in Thousands)	
FY 1983	FY 1984
1,941	2,258

The Integrated Acoustic Communications System is a multiphase program that provides improved tactical acoustic communication systems for three primary Anti-Submarine Warfare (ASW) platforms: aircraft, surface ships, and submarines. The Low Data Rate (LDR) system provides a low data tonal system and voice capability

which is used in the development of tactics and during high priority missions. The Medium Data Range (MDR) system provides improved acoustic communications by interfacing programable signal processors and controllers with existing sonars on surface ships and submarines. FY 1983 and FY 1984 funds will provide for procurement of AN/SSQ-86 Down-Link Communications Sonobuoys, AN/WQC-2A and AN/WQC-5 Engineering Changes, and associated support.

SOSUS Security (P-1 Line Item 86)

($ in Thousands)	
FY 1983	FY 1984
-0-	1,953

The objective of this program is to [redacted] of the SOSUS (Sound Surveillance System). The objective of the improvements is to (1) correct documented deficiencies, (2) increase time for defense reaction, (3) increase reaction effectiveness[redacted]

SOSUS (P-1 Line Item 87)

($ in Thousands)	
FY 1983	FY 1984
111,980	131,558

SOSUS (Sound Surveillance System) is a network of ocean bottom hydrophone arrays connected to a shore processing site via undersea cable. The system is designed to identify submarines by their noise emanations. FY 1983 funds provide for the continuation of the fixed base and cable repair/management programs, procurement of cable and arrays, procurement of electronics for a classified project, procurement of Light Under Sea Components (LUSC), and training hardware. Under the backfit program, equipment will be procured for [redacted] FY 1984 funds will continue the fixed base and cable procurement/management programs; procurement of general processing equipment as well as the phased procurement of [redacted] equipment; continue procurement of [redacted] shore electronics; complete procurement of cable and shore electronics [redacted] and commence procurement of cable and array assembly [redacted] and LUSC component production.

AN/SQR-17 Acoustic Processor (P-1 Line Item 88)

($ in Thousands)	
FY 1983	FY 1984
16,875	9,562

The AN/SQR-17 Acoustic Processor is a shipboard processor that analyzes and evaluates acoustic sonobuoy data relayed from the Light Airborne Multipurpose Systems (LAMPS) MK I helicopter. FY 1983 and FY 1984 funds provide for AN/SQR-17 performance improvements which will add Directional Frequency Analysis and Recording/Directional Command Active Sonobuoy System (DIFAR/DICASS) Sonobuoy processing and recording capability to the AN/SQR-17 Shipboard Processor. FY 1983 and FY 1984 funds also provide for the procurement of the AN/SKR-4 Data Link Modifications required to receive the new DIFAR/DICASS frequencies. AN/ARR-75 Sonobuoy Receiver and the AN/SQR-17(V)4 shipboard Acoustic Processor procurements are part of a joint Navy/Coast Guard Improvement Program.

AN/SQR-18 Towed Array Sonar (P-1 Line Item 89)

($ in Thousands)	
FY 1983	FY 1984
16,677	19,157

This program provides the surface fleet with a passive towed array capability which can be employed at tactical speeds. It also will improve detection capability and enable classification of detected targets through utilization of a [redacted] subsystem. The AN/SQR-18A will be installed on FF 1052/1078 class ships with rubber windows and stern doors. FY 1981 was the last procurement of basic AN/SQR-18A systems. Commencing in FY 1983 modification kits will be procured to upgrade the AN/SQR-18A installed systems to the AN/SQR-18A(V)1 configuration. The chief improvements from this upgrade are a new improved modular array with better flow noise characteristics, greater reliability/maintainability; and a noise cancellation feature which cancels out own ship's noise. FY 1983 and FY 1984 funds will provide for the procurement of replacement reels, AN/SQR-18A(V)1 improvement kits, field change kits, replacement arrays and cables, training equipment and associated production support.

AN/SQR-19 Towed Array Sonar (P-1 Line Item 91)

($ in Thousands)	
FY 1983	FY 1984
77,290	153,863

The AN/SQR-19 Towed Array Sonar (TACTAS) will be the primary passive Anti-Submarine Warfare (ASW) sensor for surface combatants. It will provide long range passive detection, classification and tracking of submarines at high ship's speed. The AN/SQR-19 consists of an array subsystem, winch and handling subsystem, and shipboard electronics subsystem. FY 1982 and FY 1983 funds provide for the procurement of AN/UYQ-21 displays to support the Light Airborne Multipurpose Systems (LAMPS) MK III system. These displays will be shared by LAMPS MK III and AN/SQR-19 (TACTAS). Because the LAMPS MK III program entered production a year and a half earlier than the AN/SQR-19, it is necessary to procure these AN/UYQ-21 displays in advance of the complete AN/SQR-19 systems they will ultimately support. FY 1983 funds also initiate procurement of five complete AN/SQR-19 (TACTAS) systems following DSARC III in March 1983. FY 1984 funds provide 16 complete systems and sixteen AN/UYQ-21 displays.

SURTASS (P-1 Line Item 92)

($ in Thousands)	
FY 1983	FY 1984
13,942	10,990

Dedicated Ocean Surveillance Auxiliary Research Ships towing long passive acoustic arrays will operate like mobile [redacted] stations with their operations directed by shore evaluation centers. Funds in this line will support the procurement of shore based processing and display equipment. The TAGOS ships and the towed arrays are being procured in the Shipbuilding and Conversion, Navy (SCN) appropriation. FY 1983 funds are required to procure the final three sets of shore electronics equipment to support the twelve TAGOS ships funded in FY 1979 through FY 1982, paper gram displays for the first two sets of shore electronics equipment, configuration control model and trainer (backfit to supplement existing cathode ray tube (CRT) displays), and array maintenance support equipment. FY 1984 funds will provide additional array/support equipment for the Array Maintenance Facilities, paper gram displays for six of the eight sets of shore electronics funded in FY 19[redacted] through FY 1983 for which paper gram displays have not been procured, and one complete array subsystem to replace any operational array lost at-sea.

ASW Operations Center (P-1 Line Item 93)

($ in Thousands)	
FY 1983	FY 1984
11,749	8,057

The Anti-Submarine Warfare (ASW) Operations Center (ASWOC) program is a consolidation of the land-based Tactical Support Centers (VP-TSC), the High Level Terminal portion of the Anti-Submarine Warfare Centers Command and Control System (ASWCCCS) and the ASW Communications program (ASCOMM). These programs were established in the early 1970's (1) to meet the tactical support requirements of the P-3C long range air ASW weapon system and (2) to provide terminals for the ASW area commanders in the overall Navy Command Control System (NCCS). The air ASW weapon systems now operational in the Fleet utilize computer integrated avionics and sophisticated sensors and data link communications requiring a type and level of support only available from a computer based operations center linked to the tactical and strategic decision making levels to insure rapid response as well as the effective use of resources. FY 1983 funds provide for the procurement of Fast Time Analyzer (FTA) Reliability and Maintainability Improvements, ASWOC Tape Operating Systems (ATOS) and various equipments to support the basic operational system. FY 1984 funds continue to provide for the procurement of various equipments to maintain the ASWOC operability.

Electronic Warfare Equipment (P-1 Line Items 94-101)

	($ in Thousands)
FY 1984 Estimate	118,056
FY 1983 Estimate	76,290
FY 1982 Estimate	58,303
FY 1981 Actual	44,948

These programs provide the Fleet with the capability of detecting overt electromagnetic emissions through passive means.

AN/SLQ-32 (P-1 Line Item 94)

($ in Thousands)	
FY 1983	FY 1984
7,842	44,179

The Anti-Ship Missile Defense (ASMD) Electronic Warfare (EW) System provides a family of modular shipborne

electronic warfare equipments, which will be installed in most combatants and auxiliaries in the surface Navy. The equipments are delivered in three configurations designated AN/SLQ-32(V)1, AN/SLQ-32(V)2, and AN/SLQ-32(V)3. The AN/SLQ-32(V)1 and AN/SLQ-32(V)2 configurations are radar warning receivers and surveillance receivers that automatically detect, sort, classify and continuously display signals within their frequency range. The AN/SLQ-32(V)3 system provides the capabilities of the lesser systems plus an integrated active electronic countermeasure response for all signals classified as threat. The FY 1983 request will fund the procurement of 90 engineering change proposal (ECP) Mod Kits for Expanded AN/SLQ-32 Computer Memory, 20 ECP Mod Kits for AN/SLQ-32(V)3 Isolation Improvements, and 29 Heat Exchangers. The AN/SLQ-32 system will be installed on approximately 310 ships (surface combatants, amphibious warfare ships and U.S. Coast Guard cutters. The FY 1984 funds will procure two AN/SLQ-32(V)3 systems and Mod Kits for electronic support measure (ESM) Sensitivity Improvement (Bands 1 and 3).

AN/SLQ-17 (A-1 Line Item 95)

($ in Thousands)	
FY 1983	FY 1984
22,657	19,829

The AN/SLQ-17A(V)2 system is a [redacted] response to Anti-Ship Missile (ASM). The system offers aircraft carriers viable and effective defense against simultaneous multi-threat, multi-axis, ASM attack. The FY 1983 request will fund the procurement of two AN/SLQ-17 systems, two AN/UYK-20 computers for use with each system, depot maintenance equipment, jigs, fixtures and maintenance training and documentation. The FY 1984 request will fund the procurement of one AN/SLQ-17 system plus remaining depot maintenance hardware and a partial AN/SLQ-17 system for depot use. Additionally, a simulation AN/SLQ-17 for establishment of a software development laboratory at Naval Surface Weapons Center (NAVSWC) Dahlgren, VA for AN/SLQ-17 support is being procured. The AN/SLQ-17 is planned for installation on all aircraft carriers.

AN/WLR-8 (P-1 Line Item 97)

($ in Thousands)	
FY 1983	FY 1984
4,783	12,795

The AN/WLR-8 is a tactical electronic support measure (ESM) receiver featuring signal analysis capabilities. It is intended for use aboard SSN 688 class submarines and aircraft carriers (CV's/CVN's). The system has a high probability to intercept and provide surveillance capability, signal parameter analysis, and hard copy

printout of the signal environment. The AN/WLR-8(V)4 system is designed to replace existing AN/WLR-1(G) or AN/WLR-1(G) equipments on all CV/CVN class ships. The AN/WLR-8(V)4 will provide aircraft carriers with a modern and effective electromagnetic surveillance and electronic intelligence (ELINT) collection capability. The funds requested in FY 1983 will procure two AN/WLR-8(V)4 systems, associated ancillary equipment required for carrier application, and upgrade of depot capability. The funds requested in FY 1984 will procure one AN/WLR-8(V)4 system. FY 1984 commences the upgrading of existing AN/WLR-8(V)4 equipments on SSN-688 class submarines by field change kits.

Integrated Cover and Deception (ICAD) (P-1 Line Item 98)

($ in Thousands)	
FY 1983	FY 1984
14,728	14,394

This system is designed to deceive [redacted] The FY 1983 request will fund procurement of [redacted] The FY 1984 funds will provide [redacted]

Offboard Deception Devices (P-1 Line Item 99)

($ in Thousands)	
FY 1983	FY 1984
13,518	12,886

This system is a family of nine buoy-configured devices designed to simulate the electromagnetic and acoustic signature of a carrier. The FY 1983 request will fund procurement of High Frequency (HF) simulators and Aircraft Radar Jammers. The FY 1984 funds will complete procurement of HF simulators and commence procurement of radar simulator buoys.

Electronic Warfare (EW) Support Equipment (P-1 Line Item 100)

($ in Thousands)	
FY 1983	FY 1984
6,525	1,893

The Electronic Warfare Support Program provides supporting equipment to major budget line items under the Electronic Warfare Program. FY 1983 funds are for continuation of the AN/SLA-10B buy and AN/SLA-10A/B modifications which provide blanking for electronic support measure (ESM) systems to reduce interference from own ship pulsed emitters; Decoy Launching System Interface Modifications required to provide an automated interface between decoy launching systems and ESM/electronic countermeasures (ECM) equipments, AN/SLQ-20A which provides special threat detection and deception for carrier and major combatants, and AN/TAS-6 forward looking infrared night vision site for SEAL UNITS 1 and 2. FY 1984 funds provide for continuing procurement of the Decoy Launcher Interface Modifications; and for Frequency blanking Units, a major modification to the AN/SLA-10 series of equipment to improve ESM/ECM receiver availability.

Fleet Electronic Warfare Support Group (FEWSG) (P-1 Line Item 101)

($ in Thousands)	
FY 1983	FY 1984
6,237	2,555

The purpose of the Fleet Electronic Warfare Support Group is to provide a realistic air, surface, and subsurface threat environment for Fleet Training and support of Operational Test and Evaluation of Electronic Systems. The FY 1983 funds provide for the procurement [redacted] for installation in the AN/ULQ-13(V) Vans, and for Special Purpose Electronic Test Equipment (SPETE) required to support these systems. The FY 1984 funds provide for the procurement [redacted] to complete the outfitting of the AN/ULQ-13(V) vans, [redacted] In addition, FY 1984 funds commence the procurement [redacted]

Reconnaissance Equipment (P-1 Line Items 102-104)

	($ in Thousands)
FY 1984 Estimate	45,515
FY 1983 Estimate	41,320
FY 1982 Estimate	32,292
FY 1981 Actual	31,881

This equipment provides the tactical capability to acquire, locate and track hostile targets at long Over-the-Horizon (OTH) ranges and provide timely tactical data to the Task Force Commander.

Combat DF (P-1 Line Item 102)

($ in Thousands)	
FY 1983	FY 1984
-0-	9,525

Combat Directional Finder (DF) is an Electronic Warfare Program to provide selected DD-963 and DDG-51 class ships with the AN/ SRS-1 Signal Acquisition and Direction Funding System. The AN/SRS-1 will [redacted] and (4) input this information into the ships Tactical Data System. Design is based on the proven technology of OUTBOARD but has been steered toward greater flexibility and responsiveness to new threat signals while reducing space and manning requirements. The program is in full scale development as a Rapid Deployment Capability (RDC-80-03-03) and is being executed in two phases to allow the earliest possible Initial Operational Capability (IOC). Phase I [redacted] Phase II adds [redacted] FY 1984 funds will provide for one AN/SRS-1 System including non-recurring production costs.

OUTBOARD (P-1 Line Item 103)

($ in Thousands)	
FY 1983	FY 1984
31,248	34,515

OUTBOARD is an Electronic Warfare program which provides selected combatants with the tactical capability to [redacted]

OUTBOARD Phase I is composed of the AN/SRD-19 direction finding set, AN/SLR-16 special signal acquisition set, and the System Supervisor Station (tasking and control). OUTBOARD Phase II consists of the AN/SLR-23 automated signal acquisition set and the AN/SYQ-8 automated signal processing/identification set. All OUTBOARD equipment, less AN/SLR-23 and AN/SYQ-8, has been previously installed on seventeen ships and is scheduled for installation on thirteen additional ships. The FY 1983 procurement will provide for three OUTBOARD Phase I and four OUTBOARD Phase II suites. The FY 1984 procurement will provide for two OUTBOARD Phase I and six OUTBOARD Phase II suites.

Naval Intelligence Processing System (NIPS) (P-1 Line Item 104)

($ in Thousands)	
FY 1983	FY 1984
10,072	11,000

The Naval Intelligence Processing System (NIPS) is an integrated tactical shipboard intelligence system which provides the operational commander with an organic capability to rapidly process, analyze, and update tactical intelligence and to disseminate such intelligence throughout the Fleet and to higher commands. The NIPS includes ship tactical Intelligence Centers (ICs) for aircraft carriers (CV-IC), amphibious command ships (LCC-IC), general purpose amphibious assault ships (LHA-IC), and also a NIPS Training Center and NIPS Engineering Center. In all there are a total of twenty-five systems for which this budget will provide equipment. The FY 1983 and FY 1984 procurements are essential to provide these systems with necessary hardware to maintain intelligence data in accordance with Defense Intelligence Agency (DIA) standardization requirements, to analyze raw information collected by Naval tactical surveillance systems, and to provide, through appropriate command and control systems, accurate intelligence data for the tactical commander's decisions. Installation of the equipment is performed by shipyards as budgeted in the Fleet Modernization Program (FMP) and with engineering support provided by the Naval Electronic Systems Engineering Activity Detachment (NESEADET) Philadelphia, Pennsylvania. The rate of procurement for the components listed is programed to be in accordance with the ship FMP scheduling. FY 1983 funds will complete the procurement of disk files to store digital intelligence data and graphic display devices to display orders of battle to the intelligence analyst. FY 1984 funds will provide closed circuit television systems for shipboard dissemination of intelligence and a plotting device to be used in support of pilot briefings, targeting support, and order of battle maintenance.

Submarine Surveillance Equipment (P-1 Line Items 105-112)

	($ in Thousands)
FY 1984 Estimate	45,046
FY 1983 Estimate	150,404
FY 1982 Estimate	155,959
FY 1981 Actual	68,567

This program provides special equipment to support submarine surveillance operations.

AN/WLQ-4(V) (Prairie Wagon) (P-1 Line Item 105)

($ in Thousands)	
FY 1983	FY 1984
[redacted]	--

The AN/WLQ-4(V) System is a highly classified advanced signal exploitation system which will replace the AN/WLR-6(V) on SSN-637 class submarines. The FY 1983 funds will complete the procurement of these systems toward the objective of forty-three systems. This P-1 line item is part of the National Foreign Intelligence Program (NFIP), and additional information is contained in the General Defense Intelligence Program (GDIP) volume of the NFIP Congressional Budget Justification Books submitted by the Director of Central Intelligence (DCI).

AN/WLO-4(V) Depot (P-1 Line Item 106)

($ in Thousands)	
FY 1983	FY 1984
938	463

The AN/WLQ-4(V) Depot provides for repair stations, test equipment, test fixtures, test aids and Automatic Test Equipment (ATE) required to achieve short repair turn around times at the Depot. FY 1983 and FY 1984 funds will procure critical automatic test equipment.

AN/BRD-7 (P-1 Line Item 107)

($ in Thousands)	
FY 1983	FY 1984
689	4,677

[1983 funds will procure one AN/BRD-7 test shroud which will allow in-port testing. FY 1984 funds will provide two complete AN/BRD-7 systems.] The FY

E/O Mast (P-1 Line Item 108)

($ in Thousands)	
FY 1983	FY 1984
-0-	11,382

This system is an Electro-Optical sensor system[ ] FY 1984 funds will procure four systems.

Submarine Acint/Sigint Equipment (P-1 Line Item 109)

($ in Thousands)	
FY 1983	FY 1984
-0-	6,996

This procurement will provide acoustic and signals intelligence gathering equipment[ ] It will also provide improved acoustic recorders for the SSN-637 class. FY 1984 funds

will provide three acoustic and signals intelligence systems and five tape recorders.

Type 18 Periscope Antennas (P-1 Line Item 110)

($ in Thousands)	
FY 1983	FY 1984
3,553	3,277

These funds provide improved [redacted] for the current Type-18 periscope and will permit submarines to [redacted]
The FY 1983 request will provide fifteen improved antennas. FY 1984 funds will provide 13 improved antennas.

AN/BLD-1 (Interferometer) (P-1 Line Item 111)

($ in Thousands)	
FY 1983	FY 1984
5,952	10,175

[redacted] The FY 1983 procurement will consist of three systems and special purpose test equipment. FY 1984 funds will provide ten systems.

SSEP Support (P-1 Line Item 112)

($ in Thousands)	
FY 1983	FY 1984
2,178	2,076

The Submarine Surveillance Equipment Program (SSEP) was established to develop and support systems which will permit combat submarines to detect, track, identify and analyze the activities of foreign military systems. Requested funds are for procurement of unique equipments in limited quantities that are maintained in a pool and rotated among attack submarines as dictated by operations. FY 1983 funds will also provide six improved power supplies for the AN/WLR-8 system. The FY 1984 funds will provide 15 power supplies.

Other Ship Electronic Equipment (P-1 Line Items 113-121)

	($ in Thousands)
FY 1984 Estimate	179,007
FY 1983 Estimate	87,049
FY 1982 Estimate	77,003
FY 1981 Actual	48,925

This program provides for the procurement of such items as improvements to the Navy Tactical Data System (NTDS) which allow the tactical commander to perform his combat function accurately and quickly. Included in NTDS are additional components to upgrade current installations and additional memory chassis to alleviate downtime problems.

Also procured are improved antenna systems for submarines, modifications to improve the reliability and maintainability of submarine surface search radars and radio equipment that will provide the Fleet with an Ultra High Frequency communications capability with the Naval Tactical Data System. Specific projects to be funded from this request are as follows:

Navy Tactical Data System (P-1 Line Item 113)

($ in Thousands)	
FY 1983	FY 1984
25,486	125,709

The Navy Tactical Data System provides a general purpose combat direction system in major warships which permits rapid integration of ship sensor information, analysis and display of tactical information, and designation of weapon systems to force threats. This system consists of three major subsystems - Data Processing, Data Display and Data Link Systems. Funds requested will procure (1) additional components and equipment to upgrade installations through ship alterations; (2) field changes and components to meet the joint interface to the Tactical Air Control System/Tactical Air Defense System and to interface with emerging combat system improvements such as Aircraft Identification and Monitoring System, Anti-Ship Missile Defense, Ships Signal Exploitation Space, Aircraft Carrier/Tactical Support Center, Performance and Integrated Retrofit, and Light Airborne Multi-purpose System; and (3) the Major Ship Upgrade which will improve Shipboard Combat Direction Systems on board Navy Combatants by replacing obsolete equipments.

Tactical Flag Command Center (P-1 Line Item 114)

($ in Thousands)	
FY 1983	FY 1984
23,379	3,947

The Tactical Flag Command Center (TFCC) is the Flag Commander's afloat interface with the Navy Command and Control System (NCCS). The TFCC will support the tactical commander in his decision making process by receiving and displaying information relative to the current tactical situation. The baseline system is defined in terms of two increments. Increment 1 provides the austere essential Officer in Tactical Command (OTC) command center organic data display and communications capability and stands alone as a requirement. Increment 2, the Flag Data Display System (FDDS) consists of a core Automatic Data Processing (ADP) system, operator terminals, a communications package providing access to satellite transmissions and selected Navy Tactical Data System (NTDS) data, and a large screen display group. Equipment in Increment 2 has been chosen from inventory or Navy standards and provides a stand alone austere command and control capability to display consolidated information received from remote and organic sources. The current inventory objective is for installation of Increment 1 on 19 designated flagships (14 carriers and five cruisers) and installation of Increment 2 on six carriers and and the Software Support Activity. One ship, the USS AMERICA (CV-66), will be an Research, Development, Test and Evaluation (RDT&E) installation. In addition, an RDT&E funded Land based Prototype/ Trainer is being installed at the Naval Ocean Systems Center, San Diego, CA. FY 1983 funds provide for procurement of two Increment 1 shipsets; two Increment 2's (complete) and four large screen display groups.

Shipboard NCCS Equipment (P-1 line Item 115)

($ in Thousands)	
FY 1983	FY 1984
-0-	2,327

The Augmented Tactical Information System (ATIS) is required to provide adequate tactical command and control (C2) support for Battle Group units that will have Tactical Flag Command Centers (TFCC) or similarly capable systems installed. Acquisition of 150 systems will permit dedicated assignment of equipment and enhance Fleet C2 capabilities. FY 1984 funds will commence procurement of 33 systems.

Minesweeping System Replacement (P-1 Line Item 116)

($ in Thousands)	
FY 1983	FY 1984
3,328	2,330

The surface mine countermeasures force consists of 25 Oceangoing Minesweepers (MSO's) and seven Minesweeping Boats (MSB's). One task for these ships is to locate mines using minehunting sonars. In order to be effective in minehunting, a ship must have sonars for mine location and a navigation system to know where the ship is and where the mine contact is relative to the ship and other sonar contacts. The program provides the MSBs with a minehunting capability so they can perform the peacetime task of channel conditioning and the wartime task of clearing mines from Continental United States (CONUS) ports and harbors. None of the MBSs have minehunting capability or precise navigation equipment. Only two of the MSOs have precise navigation equipment. This funding provides systems for 16 MSO's and supports back-up equipment and extension of the channel conditioning and minesweeping capability to additional CONUS and overseas areas.

MSO Ship Extension Program (P-1 Line Item 117)

($ in Thousands)	
FY 1983	FY 1984
1,836	1,390

In April 1980, The Chief of Naval Operations (CNO) directed that the retirement of Oceangoing minesweepers (MSO's) be deferred so that, in conjunction with the delivery of new oceangoing surface minesweeps, there would not be a critical dip in force level. Prior to the CNO decision, 22 of the 25 MSOs were scheduled to be retired in FY 1985. Under the revised plan the last MSO will be retired in FY 1991. In order to be capable of performing assigned missions through the extended use of these ships, obsolescent ship systems must be replaced with repairable and supportable systems. This funding provides for procurement of material to support the AN/SQQ-14 sonar engineering changes.

Submarine Communications Equipment (P-1 Line Item 118)

($ in Thousands)	
FY 1983	FY 1984
9,674	11,232

Funds are requested for the Integrated Submarine Communication Antenna Systems (ISCAS) Program which incorporates a multiplicity of technical advances in the areas of the environment and its demands on materials

and component integrity: speed capability and related hydrodynamic forces imposed on structures and towed antenna services; depth capabilities and associated forces and limited fairwater space to accommodate all antenna requirements. The Submarine Communication Program in FY 1983 and FY 1984 will continue to implement Fleet requirements by incorporating a variety of technical advances, including OE-305 BRR improved towed buoys and systems. The AS-2629/BRR will receive Medium Frequency/High Frequency (MF/HF) and directional Very Low Frequency (VLF) signals.

AN/SRN-19 NAVSAT Receiver (P-1 Line Item 119)

($ in Thousands)	
FY 1983	FY 1984
187	184

FY 1983 funds will provide field change kits for Receiver Systems of the Navy Navigation Satellite System. Field change kits are needed to correct operating and maintenance problems. FY 1984 funds will provide additional field change kits to correct operating and maintenance problems.

HF Link-11 (P-1 Line Item 120)

($ in Thousands)	
FY 1983	FY 1984
1,732	3,353

The AN/USQ-74 is a Link-11 Data Terminal Set designed to be a functional replacement for the AN/SSQ-29 and other data terminal sets. This program provides funding to replace the AN/SSQ-29.

Trident Electronic Equipment (P-1 Line Item 121)

($ in Thousands)	
FY 1983	FY 1984
21,425	28,535

Funding requested provides electronic equipment for the TRIDENT Training Facility (TRITRAFAC) and, the TRIDENT Refit Facility (TRIREFFAC) located at the Naval Submarine Base, Bangor, Washington. Also included is funding for alterations/modifications, and various other support equipment. Specific items included in the budget request are determined by procurement leadtimes, installation and checkout periods, and equipment operational need dates.

Training Equipment (P-1 Line Items 122-124)

	($ in Thousands)
FY 1984 Estimate	9,831
FY 1983 Estimate	5,454
FY 1982 Estimate	4,465
FY 1981 Actual	3,129

These items of equipment are necessary to train Navy personnel at the various training activities in the operations and maintenance of shipboard electronic equipment.

Other Training Equipment (P-1 Line Items 123-124)

	($ in Thousands)	
	FY 1983	FY 1984
NAVELEX	1,497	-0-
NAVSEA	3,957	9,831

Funds requested in this line item are for the procurement of equipment to satisfy initial training requirements developed through the Navy Training Plan process to give the Navy the capability to train officer, operator and maintenance personnel on new or significantly modified equipment for which no Navy training is currently available. It also satisfies requirements to expand the Navy training capability on existing equipment to meet heavier needs for trained personnel in the Fleet.

Aviation Communication and Electronic Equipment (P-1 Line Items 125-136)

	($ in Thousands)
FY 1984 Estimate	79,722
FY 1983 Estimate	59,857
FY 1982 Estimate	63,354
FY 1981 Actual	54,611

This program provides for the acquisition of electronic equipment to support Naval and Marine aviation shore activities, shipboard aircraft control equipment and secure identification systems.

MATCALS (P-1 Line Item 125)

($ in Thousands)	
FY 1983	FY 1984
20,686	20,933

The Marine Air Traffic Control and Landing System (MATCALS) will provide a fully automatic air traffic control and automatic landing system for use by the Marine Air Traffic Control Squadrons at expeditionary airfields. The equipment will significantly increase the safe controlled landing rate at the tactical expeditionary airfields. This is basically an extension of the capability currently available on aircraft carriers for the landing forces ashore. FY 1983 funds will procure three command and control subsystems consisting of Ground to Air Microwave Data Links, minicomputers, operator consoles and communication equipment and will also procure replacement equipment for the AN/TSQ-18 Landing Control System which will be used with MATCALS when fielded. FY 1984 funds will procure three additional command and control subsystems and additional replacement equipment for the AN/TSQ-18.

TERPES (P-1 Line Item 126)

($ in Thousands)	
FY 1983	FY 1984
1,538	2,636

The Tactical Electronic Reconnaissance Processing and Evaluation System (TERPES) is used to process data obtained by the EA-6 aircraft. This processed data enables TERPES to provide mission planning and briefing support to aviation elements of the Marine Air Ground Task Force (MAGTF), and provides reports to Tactical Commanders and the Intelligence Analysis Center (IAC) within the Marine Air Ground Intelligence System (MAGIS) concept. FY 1983 funds will update one system and ensure that operational support is continued by replacing commercial equipment with militarized equipment that has reached its life cycle expectancy. FY 1984 funds will update an additional system. One system is presently deployed aboard the USS NIMITZ in support of the Marine Corps EA-6B Detachment.

CATTC Improvements (P-1 Line Item 127)

($ in Thousands)	
FY 1983	FY 1984
-0-	15,089

This program is designed to improve all aspects of air traffic control operations so as to alleviate the present problems and allow safe operations under positive control, while lessening the present burdens on Air Traffic Controllers. Funds requested in FY 1984 commence procurement of five AN/SPN-43A's for LPH's and LHA's.

Automatic Carrier Landing System (ACLS) Navigation/Detection (NAV/DET) Support (P-1 Line Item 128)

($ in Thousands)	
FY 1983	FY 1984
5,382	16,552

This program continues to provide the necessary hardware, field changes, support items and reliability/maintainability improvements for all Automatic Carrier Landing Systems (ACLS).

Tactical Air Navigation (TACAN) (P-1 Line Item 131)

($ in Thousands)	
FY 1983	FY 1984
12,236	4,957

This short distance navigation equipment is the basic navigation system in use by the Navy. The FY 1983 shore TACANs will replace old equipment at 16 Naval Air Facilities. FY 1983 funds will provide TACANs for 15 Navy ships. FY 1984 funds also will provide TACANs for 15 Navy ships. The equipments to be replaced are old, show a high failure rate, and are beyond economical repair. The new equipments are lightweight, solid state, have quick channel change capability and provide twice as many channels.

Air Station Support Equipment (P-1 Line Item 132)

($ in Thousands)	
FY 1983	FY 1984
3,785	6,051

This program procures required equipments to support air navigation, tactical communications, mobile air traffic control systems, FM communications, special instrumentation systems and ancillary equipment at Naval and Marine Corp aviation shore activities in both the continental United States and overseas.

FACSFAC (P-1 Line Item 133)

($ in Thousands)	
FY 1983	FY 1984
9,545	8,754

Fleet Area Control and Surveillance Facilities (FACSFAC's) are established to provide a multi-mission service related to the Navy Air Traffic Control, air operations in off-shore operating areas, surveillance of air operations and related training evolutions such as ground control intercept and air combat maneuvers. The basic purpose of FACSFAC is to prevent mid-air collisions between military and civil aircraft, and to guard against restrictions caused by increasing encroachment of commercial interests. FY 1983 funds will provide for an expanded communications systems and surveillance coverage of aircraft operating in the warning areas and provide equipment for positive control interface with the National Airspace System. FY 1984 funds will correct deficiencies and provide system modernization for the (FACSFAC's).

Radar Air Traffic Control (RATC) (P-1 Line Item 134)

($ in Thousands)	
FY 1983	FY 1984
3,110	1,601

RATC Automation provides a capability for the automated transfer and tracking of naval aircraft between Federal Aviation Administration (FAA) enroute or terminal facilities of the National Airspace Systems and Naval Air Traffic Control Terminal Facilities associated with naval air stations. Due to both the shortage and extended hours of Navy controllers, FY 1983 funds will provide automatic synthetic voice alarms to control-

lers to warn of aircraft emergencies, minimum safe aircraft altitude, aircraft collision avoidance and to reforce controllers procedures. In addition, it includes the procurement of the standard integrated communication system for maintaining essential air traffic control during emergency conditions. Existing emergency communication systems are unreliable in situations involving total power outages, power switching, lighting strikes or cable damage. FY 1984 funds will provide position recorders for each Programable Indicator Data Processor (PIDP) OD-152 display for operational air traffic control facilities.

MK XII AIMS IFF (P-1 Line Item 135)

($ in Thousands)	
FY 1983	FY 1984
2,394	1,974

This is a Department of Defense (DOD) directed tri-service program designated to provide a universal air traffic control radar beacon system compatible with the National Airspace Program and provide a secure identification system for military use. This MK XII AIMS IFF system is used on all major combatant ships, selected auxiliaries, and patrol craft. FY 1983 funding will provide MK XII AIMS training equipment and MK XII AIMS improvements. FY 1984 funding will provide MK XII AIMS improvements.

VHF/UHF Conversion (P-1 Line Item 136)

($ in Thousands)	
FY 1983	FY 1984
1,181	1,175

This program provides kits to convert Very High Frequency (VHF) and Ultra High Frequency (UHF) transmitters and receivers employed in the Naval Air Traffic Control Air Navigation Aids and Landing System (NAALS) Program from 50 KHz to 25 KHz channel spacing. The shortage of VHF and UHF communication channels has led the Military Communications Electronic Board and the Federal Aviation Administration (FAA) and Federal Communications Commission (FCC) to establish requirements to convert the present VHF/UHF environment to 25 KHz channel spacing. The 25 KHz increment will double the number of channels in both environments and alleviate the present frequency spectrum crowding. FY 1983 funding will provide for 761 conversion kits. FY 1984 funding will provide 722 conversion kits.

Other Shore Elect Equipment (P-1 Line Items 137-149)

	($ in Thousands)
FY 1984 Estimate	82,449
FY 1983 Estimate	77,072
FY 1982 Estimate	51,839
FY 1981 Actual	61,753

These programs provide electronic equipments for activities and shore-based commands of the Fleet's Operating Forces. These equipments support projects at operational shore activities, assure compliance with safety and transmission security requirements and decrease operational equipment downtime.

Naval Space Surveillance System (P-1 Line Item 137)

($ in Thousands)	
FY 1983	FY 1984
5,322	4,521

The Naval Space Surveillance System provides for unalerted real-time detection of non-radiating satellites and other spacecraft and objects which pass through multistatic continuous wave radar beams in a system which extends from Fort Stewart, Georgia to San Diego, California . This system has been operational since 1964. Timely replacement of obsolete electronic equipment at the six receiving stations and three transmitting stations with modern electronics is necessary to ensure continued operational reliability (in excess of 99+ percent 24 hours per day, 365 days per year) and the increased sensitivity achieved will increase probability of detection. FY 1983 funds will be used to procure, fabricate, assemble and install modern transmitters needed to replace eight 50 Kw transmitters at the large transmitting station at Lake Kickapoo, Texas. FY 1984 funds will be used to procure, fabricate, assemble and install modern transmitters needed to replace seven 50 Kw transmitters at Lake Kickapoo, Texas (second increment in the replacement of twenty 50 Kw transmitters at this transmitting station).

Space System Processing (P-1 Line Item 138)

($ in Thousands)	
FY 1983	FY 1984
3,104	2,314

The object of this program is to procure special computer hardware and software necessary to process information and to generate highly classified reports for use by Operational Navy Commands. Details are of a higher classification.

Multiple Units Link Eleven Test and Operational Training System (MULTOTS) (P-1 Line Item 140)

($ in Thousands)	
FY 1983	FY 1984
3,396	386

The purpose of MULTOTS is to provide a transportable system to validate Link-11 interoperability on Tactical Data System equipped ships and aircraft. The object is to improve Link-11 performance by: (1) establishing MULTOTS as a Link-11 standard interface test system to ensure interoperability, (2) using MULTOTS as a Link-11 configuration management tool, and (3) using MULTOTS as a test tool to certify system operator proficiency and provide concomitant operator training. FY 1983 funds will procure one production unit. FY 1984 funds will procure four Radar System Simulation Units.

Navy Command and Control System (NCCS) Ashore (P-1 Line Item 141)

($ in Thousands)	
FY 1983	FY 1984
6,573	1,013

The Navy Command and Control System (NCCS) Ashore program provides for the coordination and integration of shore-based command centers and their respective supporting systems. The FY 1983 budget request includes: (1) procurement of correlation upgrade equipment for the Fleet Ocean Surveillance Information Center (FOSIC) Atlantic (LANT) training and support; (2) upgrades to improve the information display capabilities at the Fleet Command Centers; (3) procurement of Command Center display training equipment to be installed at the Chief of Naval Education and Training (CNET) NCCS Training Facility, Dam Neck, Virginia. FY 1984 funds will provide communications training equipment to be installed at the CNET NCCS Training Facility, Dam Neck, Virginia.

RADIAC (P-1 Line Item 143)

($ in Thousands)	
FY 1983	FY 1984
2,731	2,725

The Radiation Detection Indication and Computation Equipment Program (RADIAC) provides for the acquisition of instruments designed to detect and measure nuclear and other ionizing radiation and to convert these

measurements into meaningful terms so that Navy personnel can adequately control personnel exposure to those radiations. The instruments are critical safety items and are required for use by appropriate personnel on all Naval, Coast Guard and Military Sealift Command (MSC) ships and at shore activities such as shipyards, hospitals, schools and laboratories. Requirements for radiological data obtained using these instruments is placed on the Navy by the Nuclear Regulatory Commission and within the Navy by the Bureau of Medicine and Surgery. Funds in FY 1983 will provide equipment for the nuclear propulsion program, Naval radiography and nuclear weapons radiological control program. Funds in FY 1984 will provide equipment for the nuclear ship propulsion program, nuclear weapons radiological control program, nuclear medicine clinics, Naval radiographic and ship damage control (nuclear warfare).

Remote Sensors (P-1 Line Item 144)

($ in Thousands)	
FY 1983	FY 1984
4,052	3,079

The FY 1983 funds will provide for continuing the procurement and installation of advanced, state-of-the-art, electronic Intrusion Detection System (IDS) as part of the Navy's continuing efforts to improve the physical security at storage sites for both nuclear weapons and Arms, Ammunition, and Explosives (AA&E) weaponry. Congress and the Department of Defense (DOD) have imposed the same mandate on the Navy to improve the security of AA&E assets as was previously imposed for nuclear weapons. Three nuclear weapons storage sites and twelve AA&E sites are programed in FY 1983. FY 1984 funds will procure electronic IDS to be installed at eleven additional AA&E sites. In FY 1984 retrofitting and upgrading of IDS installed at earlier nuclear weapon storage sites will commence, to ensure meeting the current standards.

General Purpose Electronic Test Equipment (GPETE) (P-1 Line Item 145)

($ in Thousands)	
FY 1983	FY 1984
33,330	46,007

Funds requested in FY 1983 and FY 1984 are for the procurement of General Purpose Electronic Test Equipment for initial outfitting of new or modified Fleet and shore electronic equipments to support Fleet and shore weapons; electronic warfare, surveillance, and communications systems; and associated training. This equipment is essential to the operational readiness of the Navy for repair, installation, and maintenance of electronic

systems and equipments, both afloat and ashore. Equipment procured must meet rigid technical requirements, be cost effetive, and satisfy valid, authorized allowances.

Armed Forces Radio & Television Service (AFRTS) (P-1 Line Item 146)

($ in Thousands)	
FY 1983	FY 1984
4,160	9,696

The Armed Forces Radio and Television Service (AFRTS) operates radio and television outlets for the information and entertainment of United States servicemen and their dependents at sea or abroad. aboard. This program consists of the following sub-programs: SITE 2 - the replacement of 140 operational SITE 1A CCTV systems installed aboard Navy ships; MINI-SITE - Low cost color television system for installation on small ships having 350 men or less; and SUB-SITE - A low cost color television system for installation on nuclear submarines. This program also funds equipment to replace obsolete and worn-out radio and television equipment and to establish new AFRTS facilities.

Integrated Combat System Test Facility (P-1 Line Item 147)

($ in Thousands)	
FY 1983	FY 1984
8,382	7,322

This request will procure equipment required for the Integrated Combat System Test Facility (ICSTF) at San Diego, California. This site will have most of the processors, fire control systems, radars, display and data links that make up the various surface ship combat weapon systems. The ICSTF will provide a permanent Navy test facility with equipment and resident expertise for certification of introduction to the Fleet. The ICSTF is the only permanent Navy test facility for integrated shipboard combat system certification and for continuation engineering for modifications of combat systems in existing ships.

Calibration Standards (P-1 Line Item 148)

($ in Thousands)	
FY 1983	FY 1984
3,735	2,177

The FY 1983 and FY 1984 request will fund the procurement of a new generation of signal generator and oscillator calibrators capable of calibrating up to 18 GHz to support test equipment for FFG-7 and DD-963 Class ships, TRIDENT submarines; and up to 40 GHz to support test equipment for SSN-637 and SSN-688 class submarines. In addition, funds are for replacement of (obsolescent) equipment and upgrading of obsolete manual standards at Navy calibration laboratories and Navy standard laboratories and for automatic calibrators in support of the Fleet intermediate level of maintenance.

Shore Electronic Items Under $900K (P-1 Line Item 149)

($ in Thousands)	
FY 1983	FY 1984
2,287	2,609

The FY 1983 and FY 1984 Electronic Items Under $900K program continues to provide communications/electronic equipment to Naval Material Command Shore Activities, shore based commands of the Fleet and operating forces and Fleet Technical Forces. Additionally, funds are required for procurement of industrial type investment items to replace equipments at the various Naval Electronic Systems Command (NAVELEX) activities which do not meet the Occupational Safety and Health Act (OSHA) requirements. These programs are essential for NAVELEX to maintain the repair, overhaul and restoration capability/capacity necessary to meet Fleet readiness requirements.

Shipboard Communications (P-1 Line Items 150-156)

	($ in Thousands)
FY 1984 Estimate	55,295
FY 1983 Estimate	49,628
FY 1982 Estimate	43,366
FY 1981 Actual	23,838

These programs are a continuation of efforts to provide responsive communications capabilities to the Active Fleet.

Shipboard HF Communications (P-1 Line Item 150)

($ in Thousands)	
FY 1983	FY 1984
1,104	3,678

The FY 1983 and FY 1984 High Frequency (HF) Shipboard Communications program continues upgrading the capabilities of the current shipboard HF Communications Systems. FY 1983 will procure AN/URT-23 transmitters and R-1051 receivers while FY 1984 will procure additional AN/URT-23 transmitters, AN/URT-38 couplers, R-1051 receivers and HF sounders.

Shipboard UHF Communications (P-1 Line Item 151)

($ in Thousands)	
FY 1983	FY 1984
29,472	23,660

The Ultra High Frequency (UHF) Shipboard Communications Program provides equipment to support the shipboard UHF requirements through the 1998 timeframe. Two different radios are being procured to meet economically the complete range of UHF communication requirements. These radios replace obsolescent radios currently in the Fleet with modern high-reliability, solid state radios designed to provide a significant improvement in UHF system capability and availability with minimum life cycle cost. The AN/URC-93(V)1 is a line-of-sight (LOS) UHF transceiver, providing Naval Tactical Data System (NTDS) communications capability aboard ship. It replaces two older transceivers currently in the Fleet. The AN/WSC-3(V)1 is the second radio to be procured under the program. It is a LOS UHF transceiver providing securable tactical voice communications aboard ships. It provides ship-to-ship and ship-to-air tactical communications for AM and FM voice requirements. It replaces five older transceivers currently in the Fleet. FY 1983 funds will procure 11 AN/URC-93(V)1 radios and 573 AN/WSC-3(LOS) radios with necessary ancillary equipment. FY 1984 funds will procure 461 AN/WSC-3 (LOS) radios with ancillary equipment.

Boats and Craft Radios (P-1 Line Item 152)

($ in Thousands)	
FY 1983	FY 1984
998	5,208

The environment aboard service craft and boats is generally more severe than that of ships. Equipment

experiences physical shock and salt water spray which is seldom encountered in shipboard installations, resulting in equipment reliability that is subtantially less than demonstrated during reliability testing. This program procures various radios suitable for use on service crafts and boats. FY 1983 will procure 40 AN/URC-94's, 37 AN/URC-80's and nine AN/PRC-94's. FY 1984 funds will procure 236 AN/URC-94's, 100 AN/URC-80's and 1,108 AN/PRC-94's.

Portable Radios (P-1 Line Item 153)

($ in Thousands)	
FY 1983	FY 1984
3,861	7,026

This program will provide to the Fleet, Navy Special Warfare and Explosive Ordnance Disposal communities, a single standardized hand held securable radio that is compatible and interoperable with present and future radios and communications security equipment. The AN/PRC-68 Radio Set is a light weight Very High Frequency (VHF)/FM single channel transceiver that provides short range two-way voice communications on any of 1,000 available channels within the frequency band of 30-80 MHZ. FY 1983 will procure 156 AN/PRC-68's and lesser quantities of other portable radios. FY 1984 will procure 473 AN/PRC-68's all complete with batteries, battery chargers and testors and lesser quantities of other portable radios.

SINCGARS (P-1 Line Item 154)

($ in Thousands)	
FY 1983	FY 1984
-0-	1,473

The SINCGARS radio will replace the AN/VRC-46 radio currently in use in combatant amphibious, and support ships. This will provide a standard single channel, ground-to-air radio system to ensure interoperability with other services.

Shipboard Communication Automation (P-1 Line Item 155)

($ in Thousands)	
FY 1983	FY 1984
7,112	8,099

This program provides the capability to automate message processing and distribution functions aboard ship

with a corresponding reduction in man-hours and margin of error. Through the use of modular hardware and software packages, the degree of automation will vary to fill the requirement of different classes of ships. FY 1983 and FY 1984 funding is required to continue outfitting of the Fleet with automated communications systems.

Ship Communications Items Under $900K (P-1 Line Item 156)

($ in Thousands)	
FY 1983	FY 1984
7,081	6,151

The FY 1983 and FY 1984 Shipboard Communications Items Under $900K program continues to provide funding for multicouplers, interface components, antennas and other such items for the necessary integration and completion of communications suites aboard ship.

Special Communications (P-1 Line Items 157-163)

	($ in Thousands)
FY 1984 Estimate	22,798
FY 1983 Estimate	21,800
FY 1982 Estimate	16,817
FY 1981 Actual	15,358

These programs provide for the procurement of communications equipment for Command and Control of the Fleet Ballistic Missile (FBM) Submarine Forces.

Shore LF/VLF Communications (P-1 Line Item 157)

($ in Thousands)	
FY 1983	FY 1984
710	4,883

Low Frequency/Very Low Frequency (LF/VLF) communications stations are primary links in the Fleet Ballistic Missile (FBM) Command and Control Communications System. The FY 1983 program provides for VLF common mode hardware to improve reliability and performance of the LF components. VLF hardware is being procured annually on a priority selection basis and LF station upgrades are scheduled at three per year beginning in FY 1982. FY 1984 commences procurement of dynamic antenna tuning equipments which provides a means to automatically

retune VLF antennas. Procurement will be at the rate of one transmitter per year.

VERDIN (P-1 Line Item 158)

($ in Thousands)	
FY 1983	FY 1984
7,047	-0-

The Joint Chiefs of Staff (JCS) and Chief of Naval Operations (CNO) have directed enhancement of the presently deployed VERDIN Very Low Frequency (VLF) communications system by achieving operational compatibility with the Air Force, to include increased range, automatic mode recognition and the improved reliability required by the Minimum Essential Emergency Communications Network in support of the National Command Authority. The FY 1983 program continues the three-year procurement of Enhanced VERDIN processors, modification kits and supporting software to accomplish the VERDIN system enhancement objective. A total of 16 Enhanced VERDIN shipboard and four airborne processors with modification kits will be procured during FY 1983 for this purpose.

SSN Integrated Communications (P-1 Line Item 159)

($ in Thousands)	
FY 1983	FY 1984
12,734	6,233

This line item funds the procurement of equipment which will enhance the capabilities of the existing SSN-688 class radio room. Procurement planned for FY 1983 includes the Data Link Communications System (DLCS) which provides Command and Control and Over-The-Horizon Targeting for the SSN-688 class hulls. Also, the Frequency Standard Transfer Switch (FSTS) will provide the ability to transfer between precise time standards in the event of failure to the primary unit. The SB-3917 Secure Teletype (TTY) Switch provides for switching low level TTY interface circuits for the SSN-637 class hulls. The FY 1984 program continues procurement of DLCS suites which are comprised of Submarine Tactical Data Links, Submarine Keyboard Printer, Sensor Interface Unit, Frequency Standard Transfer Switch and SB-3917/BGC.

SSBN Integrated Communications (P-1 Line Item 160)

($ in Thousands)	
FY 1983	FY 1984
1,309	4,279

The FY 1983 program provides enhanced communications operation of deployed POSEIDON submarine radio rooms by replacing existing low-speed electro-mechanical teletype machines with medium-speed message processing devices. In addition, it initiates the procurement of newly developed submarine buoyant cable antennas and multicouplers for Medium Frequency/High Frequency (MF/HF) to enhance speed and depth profiles and reduce manuverability constraints caused by deployed receiving antennas. The FY 1984 program continues procurement of the submarine antennas and multicouplers for MF/HF and initiates the procurement of the ON/220/ USQ which is a micro-processor which provides a rapid semi-automatic means of switching and processing all incoming and outgoing message traffic.

Circuit MAYFLOWER (P-1 Line Item 163)

($ in Thousands)	
FY 1983	FY 1984
-0-	7,403

The Circuit MAYFLOWER communications system consists of shore and shipboard terminals deployed world-wide during the early 1960's to provide secure submarine-to-shore communications. FY 1984 funds will continue the upgrade of the entire MAYFLOWER system by procurement of five Shore Rehabilitation Systems.

Satellite Communications Equipment (P-1 Line Items 164-165)

	($ in Thousands)
FY 1984 Estimate	58,688
FY 1983 Estimate	49,635
FY 1982 Estimate	49,773
FY 1981 Actual	29,897

The Satellite Communications Program provides for adequate command, control and communications with ships and aircraft through the Ultra High Frequency (UHF) and Super High Frequency (SHF) bands.

Satellite Communications (SATCOM) Ship Terminals (P-1 Line Item 164)

($ in Thousands)	
FY 1983	FY 1984
38,294	55,088

FY 1983 funds continue the procurement of Demand Assigned Multiple Access (DAMA) systems. DAMA provides up to a five fold increase in satellite channel capacity through more efficient control of the communications network. Procurement of the AN/WSC-6 radio terminals for major flag ships, carriers and selected cruisers continues in FY 1983. These terminals provide high data rate anti-jam communications via the Defense Satellite Communication System (DSCS). FY 1983 funds also continue the procurement of the Officer and Tactical Command Information Exchange Subsystems (OTCIXS). OTCIXS provides a communications network for Over-The-Horizon Targeting (OTHT) and Anti-Submarine Warfare (ASW) for both ships and submarines. FY 1983 provides the initial procurement of Super High Frequency (SHF) Terminal Controllers and SHF Secure Voice units. The SHF Terminal Controller will provide the shipboard net control functions for the AN/WSC-6 System and SHF Secure Voice will provide each SHF shipboard terminal with a secure voice capability. FY 1984 funds continue the procurement of AN/WSC-3 SATCOM radio terminals, DAMA systems, AN/WSC-6 SHF terminals, OTCIXS equipment, SHF terminal Controllers and SHF Secure Voice units and initiates procurement of Surveillance Towed Array Systems (SURTASS) High Power Amplifiers.

Satellite Communications (SATCOM) Shore Terminals (P-1 Line Item 165)

($ in Thousands)	
FY 1983	FY 1984
11,341	3,600

This program provides for the procurement of the satellite communications shore based interfaces with the information exchange system aboard large and small ships, submarines and Anti-Submarine Warfare (ASW) aircraft. The FY 1983 funds are for the procurement of interconnect equipment for use between the Army procured ground terminals and the Navy communications facilities; shore based Demand Assigned Multiple Access (DAMA) system; AN/WSC-3 radios; interfacing equipment to connect Navy SATCOM terminals to Navy Communications Processing and Routing System (NAVCOMPARS); Surveillance Towed Array Systems (SURTASS) modems to terminate communication nets from SURTASS ships to Navy Ground stations and Secure Voice consoles to provide shore connectivity for Super High Frequency (SHF) Secure Voice capability. The FY 1984 funds will continue procurement of interconnect equipment between Army terminals and Navy communications facilities, DAMA shore sites, SURTASS modems and initiate procurement of portable satellite communications terminals for the Atlantic Fleet requirements.

Shore Communications Equipment (P-1 Line Items 166-179)

	($ in Thousands)
FY 1984 Estimate	39,842
FY 1983 Estimate	41,616
FY 1982 Estimate	43,803
FY 1981 Actual	18,956

This program provides for shore communications equipment to meet Naval Shore Communications requirements worldwide.

Joint Task Force Communications (P-1 Line Item 166)

($ in Thousands)	
FY 1983	FY 1984
653	-0-

This program provides the Navy with communications interoperability with other services during rapid deployment operations. The terminal consists of a van containing satellite communications radio equipment and associated secure voice base band equipment. This equipment may be transported by fixed or rotary wing aircraft, 3/4 ton pickup truck or secured to the deck of a Navy ship. The Army was named Executive Service for this project.

Electrical Power Systems (P-1 Line Item 168)

($ in Thousands)	
FY 1983	FY 1984
1,492	1,104

The Electrical Power Program is designed to provide highly reliable continuous, high quality power subsystems in support of Defense Communications Systems and the Naval Telecommunications System. FY 1983 funding will provide power equipment for various sites in Spain; Puerto Rico; Canal Zone; United Kingdom; Bangor, Washington and Key West, Florida. FY 1984 funding will provide equipment for Naval Communications Area Master Stations (NAVCAMSLANT).

Shore HF Communications (P-1 Line Item 169)

($ in Thousands)	
FY 1983	FY 1984
6,112	11,187

Procurement of equipment to replace High Frequency (HF) assets that are becoming obsolete must be pursued to enable Naval Telecommunications to be viable in the absence of satellite communications. They will provide coverage in areas where satellite support is lacking or where fleet communications requirements exceed the Fleet Satellite Communications (FLTSATCOM) capability. They will also be needed to backup FLTSATCOM in the event of an unforeseen casualty to the satellite, either by chance or design. This program will fund replacement of obsolete and overage equipments. Replacement will not be on a one-for-one basis, because only those equipments required in the absence of satellite communications will be replaced. In general, these replacements will be on a station-by-station basis beginning with the Communications Area Master Stations (CAMS). Funded in this program are:

(1) General HF upgrade at Naval Air Stations.

(2) Field changes to upgrade and progressively refurbish all installed AN/FRT-83, AN/FRT-84 and AN/FRT-85 series transmitters to meet minimum acceptable standards, increase reliability and reduce costs through reduction of supply and life cycle extension.

(3) Field changes for AN/FRT-39/AN/FRT-40 HF transmitters by installing T-827 exciters and thus enabling the transmitters to better fulfill operational requirements by increasing RF power output, reducing downtime, and extending the equipment life.

(4) HF Sounder/Transmitters to obtain instantaneous frequency information required in order to have reliable, optimum HF communications capability in the event of traffic saturation or loss of Satellite Communications (SATCOM) capabilities. Requested funding will outfit selected Naval Communications Stations (NAVCOMMSTAS) in the Pacific (PAC), Atlantic (LANT) and EUROPE.

(5) Harbor Communications Modernization to provide a communications net common to every harbor having a United States Navy (USN) activity.

Joint Tactical Comm (TRI-TAC) (P-1 Line Item 171)

($ in Thousands)	
FY 1983	FY 1984
6,985	5,154

This program was established to acquire the latest state of the art communications equipments. The first of these equipments to be procured by the Navy will be a family of Tactical Digital Facsimile (TDF) equipment that will provide rapid, high quality transmissions and reception of typed or handwritten documents, maps, overlaps, sketches, charts, fingerprint records and photographs. The TDF is designed to operate over existing analog voice digital and wideband tactical wire and radio circuits. The FY 1983 program procures the initial 111 TDF sets (AN/UXC-4) with 29 CV-3688's. The FY 1984 program procures 78 TDF sets with 46 CV-3688's.

DCS Technical Control Improvements (P-1 Line Item 172)

($ in Thousands)	
FY 1983	FY 1984
7,406	3,233

The Defense Communication System (DCS) Technical Control Improvement Program (TCIP) consists of four primary efforts: (a) Manual upgrade (MTCIP), (b) Technical Control Joint Program (TCJP), (c) DCS Voice Orderwire upgrade and (d) the Timing and Synchronization Program (PTTI Ashore). The four TCIP component projects are Defense Communication Agency (DCA) sponsored tri-service coordinated and jointly implemented by the Army, Navy and Air Force. The manual upgrade is a continuing program to provide improvement and functional standardization in the manual capability of Technical Control Facilities. The TCJP is the joint procurement of automated/semi-automated test equipments. The DCS Voice Orderwire upgrade effort consists of Voice Orderwire equipment which provides standardization as well as increased connectivity between station technical control facilities of the DCS. The PTTI Ashore program will provide master timing sources at all DCS stations having a digital capability.

Secure Voice Improvement (P-1 Line Item 173)

($ in Thousands)	
FY 1983	FY 1984
-0-	7,024

This program provides for reconfiguration of Automatic Secure Voice Communications (AUTOSEVOCOM) switching facilities, replacement of the HY-2/HY-11 narrowband portion of the network, and providing a limited expansion capability.

Voice Frequency Carrier Terminal (P-1 Line Item 174)

($ in Thousands)	
FY 1983	FY 1984
1,584	1,565

The Navy presently uses 12 basic Voice Frequency Carrier Terminal System types in more than 30 equipment configurations. Average age of installed units is over 11 years. The combination of equipment age and speed of service limitation coupled with the requirement to proceed with conversion of the Defense Communication System (DCS) to all digital terminals, preferably Time Division Multiplex System, has generated the need for this program. FY 1983 funding will procure 209 low speed time division multiplex units and 48 related modulator/demodulator units. FY 1984 funding will procure 209 low speed time division multiplex units and 40 related modulator/demodulator units.

Ashore Mobile Contingency Communications Vans (AMCC) (P-1 Line Item 175)

($ in Thousands)	
FY 1983	FY 1984
-0-	2,798

The AMCC Vans are replacements for the obsolescent Air Transportable Communications Units (ATCU). The FY 1984 funding provides funding for two AMCC Vans for Commander-in-Chief (CINC) requirements.

Worldwide Wideband Equipment (P-1 Line Item 176)

($ in Thousands)	
FY 1983	FY 1984
6,492	4,534

This program provides for the acquisition improvement, upgrading and replacement of microwave facilities in the worldwide Defense Communications System (DCS) in support of the Worldwide Military Command System, Unified/Specified/Component Commanders and the Naval Tactical Communications System. This program is currently funding the conversion of presently installed analog microwave systems to an all-digital microwave system using standard tri-service digital equipment. FY 1983 funds continue this digital upgrade by providing equipment for Naval Communication Stations at Thurso, Scotland and Puerto Rico. FY 1984 funds provide equipment for various sites including: Adak, Alaska; London, United Kingdom; Key West, Florida and Bermuda.

WWMCCS Communications Equipment (P-1 Line Item 177)

($ in Thousands)	
FY 1983	FY 1984
1,799	282

The Worldwide Military Command and Control System (WWMCCS) Communication Equipment program provides communications equipment to support WWMCCS Automatic Data Processing Equipment (ADPE) configuration at the following Navy-supported WWMCCS nodes: CINCLANTFLT, CINCACFLT, CINCUSNAVEUR, CNO, the headquarters of the Unified Command of CINCPAC and CINCLANT, plus the headquarters of Subordinated Unified Commands in Korea and Japan. The procurement program includes WWMCCS network expansions, circuit and cryptographic upgrades, and communications support equipment for local/remote terminal additions. The equipment consists of high-speed modems, multiplexers, cryptographic auxiliary/units, and special purpose test equipment. Communications equipment is configured to give a remote WWMCCS terminal user the capability to access the host WWMCCS computer at one of the Navy-supported WWMCCS nodes. The FY 1983 funds add remote terminals at COMUSKOREA, CNO, CINCPAC, CINCPACFLT CINCLANT/LANTFLT, and CINCUSNAVEUR. The CNO installations will provide WWMCCS interface for the Military Sealift Command. FY 1983 funds also provide communication equipment to support WWMCCS Standard Graphics Terminals at all Navy-supported sites and network front-end processors to interface the WWMCCS Intercomputer Network with the Automatic Digital Network (AUTODIN) II System. FY 1984 funds will provide communications support equipment for installation of remote terminals at the above Navy support sites.

Shore Communications Automation (P-1 Line Item 178)

($ in Thousands)	
FY 1983	FY 1984
4,660	1,758

The Naval Shore Communication Automation Program applies state-of-the-art technology to message preparation, receipt, reproduction, distribution and recording functions of record communications and technical control. It is compatible with the Automatic Digital Network (AUTODIN) and Fleet Satellite Communications (FLTSATCOM) transmission system. The ashore element consists of 17 Local Digital Message Exchange (LMDX) terminals which will be placed at selected high-volume/critical mission sites and five Naval Communications Processing and Routing System (NAVCOMPARS) terminals located at ship/shore communications interface sites. It will greatly reduce errors in the exchange of essential message/data traffic to and between naval ashore and afloat activities that have been directly attributed to manual functions performed at terminal message processing facilities. Automation will ensure a rapid and reliable response to contingency surges and normal growth in communications volume. The FY 1983 budget request provides for continuing procurement of NAVCOMPARS terminals and procurement of Remote Information Exchange Terminals (RIXT). The RIXT will extend auto mated capabilities of the NAVCOMPARS/LDMX to other Navy Telecommunications Centers in the geographical area. FY 1983 also provides for AUTODIN Standard Remote Terminal (SRT) which is designed to replace the outdated Mode V and Digital Subscriber Terminal Equipment (DSTE) as part of the AUTODIN. The SRT will interface directly within AUTODIN Switching Network. FY 1984 funding continues RIXT and AUTODIN SRT procurements.

Shore Communications Items Under $900K (P-1 Line Item 179)

($ in Thousands)	
FY 1983	FY 1984
4,433	1,203

This program provides for various relatively low dollar value items to support numerous Naval Shore Telecommunications programs and similar Defense Communication Agency-related efforts.

Cryptographic Equipment (COMSEC) (P-1 Line Items 180-198)

	($ in Thousands)
FY 1984 Estimate	123,949
FY 1983 Estimate	94,281
FY 1982 Estimate	55,336
FY 1981 Actual	49,942

This program provides equipment to meet the requirement of the operating forces and shore establishment, which support the National Intelligence Collection Objectives, Program 3.

Single Audio System (SAS) (P-1 Line Item 180)

($ in Thousands)	
FY 1983	FY 1984
21,025	28,556

The Single Audio System (SAS) is a system whereby all shipboard radio voice subscribers have access to either a plain or cryptographically covered circuit. SAS is an audio distribution and switching system which will provide for connecting radio-telephone sets and Naval Tactical Data System (NTDS) consoles located in various ship-board compartments to any type of voice security equipment/crypto processors. An automated SAS will be installed on all ships requiring a switching capacity in excess of 27 lines by 27 trunks and on all NTDS ships. FY 1983 funds will procure 22 Automated Voice Switching Systems. FY 1984 funds will procure 30 Automated Voice Switching Systems.

TSEC/KG-84 (P-1 Line Item 183)

($ in Thousands)	
FY 1983	FY 1984
9,160	8,267

The FY 1983 and FY 1984 funds will provide increased cryptographic capability with use of the KG-84 electronic key generator. The KG-84 is a high-capacity micro-miniature data security device required to process synchronous teletype and binary stream data.

TSEC/KY-57/58 (VINSON) (P-1 Line Item 184)

($ in Thousands)	
FY 1983	FY 1984
5,859	11,180

The FY 1983 and FY 1984 funds will provide a half-duplex Wideband Tactical Speech Security Equipment which includes KY-57, manpack model, and KY-58 Airborne and Shipboard model.

TSEC/KYV-2 (P-1 Line Item 185)

($ in Thousands)	
FY 1983	FY 1984
738	1,223

TSEC/KY-65/75 (PARKHILL) (P-1 Line Item 186)

($ in Thousands)	
FY 1983	FY 1984
4,219	-0-

The FY 1983 funds will provide [redacted] tactical speech security equipment of micro-miniature design [redacted]

TSEC/KG-45 (P-1 Line Item 187)

($ in Thousands)	
FY 1983	FY 1984
2,773	-0-

FY 1983 funds will provide a [redacted] key generator [redacted]

CSS Secure Voice/Record (P-1 Line Item 188)

($ in Thousands)	
FY 1983	FY 1984
4,375	-0-

The FY 1983 funds will provide components of the Communication Security System (CSS) for secure voice installations at shore stations.

TSEC/KW-46 (P-1 Line Item 189)

($ in Thousands)	
FY 1983	FY 1984
20,706	17,754

The FY 1983 and FY 1984 funds will provide replacement equipment for obsolete KW-37 and KG-14 equipments. The KG-46 is a security device intended to replace the obsolete devices currently used in the Fleet Broadcast System.

CPICK Crypto (P-1 Line Item 190)

($ in Thousands)	
FY 1983	FY 1984
985	2,162

The FY 1983 and FY 1984 funds will provide KG-84 equipments.

TSEC/KG-81 (WALBURN) (P-1 Line Item 191)

($ in Thousands)	
FY 1983	FY 1984
198	106

The FY 1983 and FY 1984 funds will provide a data encryption system.

PLRS CRYPTO (USMC) (P-1 Line Item 192)

($ in Thousands)	
FY 1983	FY 1984
1,989	2,776

The FY 1983 and FY 1984 funds continue procurement of KGV-6 cryptographic modules and KG-58 equipment required to secure Marine Corps Ultra High Frequency multi-channel communications in the Position Location and Reporting System (PLRS). The PLRS is funded in the Procurement, Marine Corps (PMC) appropriation with the PLRS Communications Security (COMSEC) equipment funded in the OPN appropriation. PLRS is a non-functional system without the OPN funded COMSEC equipment.

TRI-TAC CRYPTO (TENLEY) (P-1 Line Item 193)

($ in Thousands)	
FY 1983	FY 1984
-0-	27,345

FY 1984 funds will provide a series of cryptographic equipment for the AN/TCC-42 and SB-3694 switches.

TSEC/KY-67 (BANCROFT) (P-1 Line Item 194)

($ in Thousands)	
FY 1983	FY 1984
5,926	9,666

The FY 1983 funds will provide KY-67 equipments (including First Article Testing). The FY 1984 funds will continue procurement of the KY-67. [redacted] to provide the Marine Corps with a compact secure equipment for use in light-combat operations.

TSEC/KGV-11 (P-1 Line Item 195)

($ in Thousands)	
FY 1983	FY 1984
1,420	2,551

The FY 1983 and FY 1984 funds will provide KGV-11 equipments. The KGV-11 is a [redacted] Key Generator Module. It [redacted] will be used in the Fleet Satellite Communication (FLTSATCOM) System. The KGV-11 procurement is coordinated [redacted]

SIGSEC (P-1 Line Item 196)

($ in Thousands)	
FY 1983	FY 1984
9,419	10,322

Signal Security (SIGSEC) is a program related to the analysis of highly sophisticated and secure transmissions. FY 1983 and FY 1984 funds will provide various and sundry pieces of equipment in pursuit of this effort.

COMSEC Items Under $900K (P-1 Line Item 197)

($ in Thousands)	
FY 1983	FY 1984
2,257	2,039

This program provides for various relatively low dollar value items to support numerous requirements in the Communications Security (COMSEC) program. FY 1983 and FY 1984 funds will provide mandatory modification kits, various sets of Test Head Adapters for the ST-51 testers, and a quantity of ST-58 testers.

CEROFF (P-1 Line Item 198)

($ in Thousands)	
FY 1983	FY 1984
3,232	-0-

The FY 1983 funds will provide CEROFF equipment. The CEROFF is a new family of rapid off-line equipment

Cryptologic Equipment (P-1 Line Items 199-205)

	($ in Thousands)
FY 1984 Estimate	18,697
FY 1983 Estimate	13,641
FY 1982 Estimate	9,500
FY 1981 Actual	3,316

These programs provide equipment to support National Intelligence Collection objectives, Program 2.

Multi-User SI Comms (MUSIC) (P-1 Line Item 199)

($ in Thousands)	
FY 1983	FY 1984
-0-	1,534

This program provides for a worldwide communications switch which will automate the current manual capability, interface with the shore signal intelligence (SIGINT) network and disseminate the shore SIGINT communications network tactical data from and to afloat operational commanders for combat tactical support while subject information is tactically significant. FY 1984 funds will procure three systems.

SES Modernization (P-1 Line Item 200)

($ in Thousands)	
FY 1983	FY 1984
7,717	6,884

This program provides "carry-on" kits for ships equipped with a Signal Exploitation Space (SES). The FY 1983 funds will procure five AN/SSQ/80(V1/V2) Tactical electronic support measure (ESM) subsystems, six AN/SSQ-80(V)3 automated operator aids, and two AN/SSQ-80(V4) electronic intelligence (ELINT) augment suites. The FY 1984 funds will procure five AN/SSQ-80(V1/V2) Tactical ESM subsystems, three AN/SSQ-80(V3) automated operator aids, and two AN/SSQ-80(V4) ELINT augment suites.

Cryptologic Items Under $900K (P-1 Line Item 201)

($ in Thousands)	
FY 1983	FY 1984
4,494	2,955

This program provides equipment of relatively low dollar value required for cryptologic direct support to Fleet units and to support cryptologic training.

Cryptologic Reserve Modernization (P-1 Line Item 202)

($ in Thousands)	
FY 1983	FY 1984
1,430	2,927

This program provides equipment of relatively low dollar value required for Naval Reserve cryptologic units and to support cryptologic training for Naval Reserve units.

SALTBUSH (P-1 Line Item 203)

($ in Thousands)	
FY 1983	FY 1984
-0-	657

This program provides a modular, transportable, semi-automatic, digital system capable of collecting

multiple frequencies of the High Frequency/Radio Frequency (HF/RF) Spectrum simultaneously. FY 1984 funds will provide one system.

Field Training Equipment (P-1 Line Item 204)

($ in Thousands)	
FY 1983	FY 1984
-0-	1,285

FY 1984 funds will procure four cryptologic field trainers to provide tactical support operators with a simulated live signal environment through which they can tune for "Live Environment" Training.

Mobile Systems Technical Data Facility (P-1 Line Item 205)

($ in Thousands)	
FY 1983	FY 1984
-0-	2,455

FY 1984 funds will procure two systems which will provide advance Fleet tactical combat systems with effective tactical support in target location and weapons targeting.

Other Electronic Support (P-1 Line Items 206-208)

	($ in Thousands)
FY 1984 Estimate	59,564
FY 1983 Estimate	70,198
FY 1982 Estimate	64,252
FY 1981 Actual	96,070

These programs fund Ship Support Improvement Program (SSIP) Electronic Kotable Pools, SSIP Lo-Mix Electronic Rework Center and the Initial Spares.

Electronic Rotable Pools (P-1 Line Item 206)

($ in Thousands)	
FY 1983	FY 1984
15,287	6,589

The Ship Support Improvement Program (SSIP) Electronic Rotable Pool Program will procure critical repairable equipments to support planned maintenance schedules and corrective maintenance actions for the FFG (LO-MIX) and DD Engineering Operation Cycle (EOC) class ships. These ship classes embody a new maintenance concept wherein designated repairables are changed out and returned to intermediate or depot level repair activities for rework and recycling rather than being repaired concurrently during individual ship availabilities. This concept thus requires a pool of ready for issue equipments for immediate changeout to achieve short ship maintenance availability periods and increased operational availabilities.

SSIP LO-MIX (P-1 Line Item 207)

($ in Thousands)	
FY 1983	FY 1984
4,577	184

This program will procure dedicated test stations, industrial plant equipment and test jigs and fixtures for selected depot rework facilities in support of the new maintenance strategies for the FFG (LO-MIX) and DD Engineering Operation Cycle (EOC) class ships. These equipments and fixtures make possible the short turn-around times required for electronic repairables, which will insure their availability to support the equipment changeout philosophy on which these new maintenance strategies are based.

Spares and Repair Parts (P-1 line Item 208)

($ in Thousands)	
FY 1983	FY 1984
50,334	52,791

FY 1983 and FY 1984 funds provide for the procurement of interim, contractor-supported electronic parts and assemblies. The Systems Command and Project Managers procure interim repair parts (IRPs) to support certain equipments which will become operational prior to Navy provisioning by the Ships Parts Control Center.

Budget Activity 3: AVIATION SUPPORT EQUIPMENT
SUMMARY OF BUDGET PLAN
(In Thousands)

	Budget Plan (Amounts for Procurement Actions Programmed)				
	1981 Actual	1982 Estimate	1983 Estimate	1984 Estimate	Justification Page
SONOBUOYS 4-3-2	$ 101,094	$142,141	$183,630	$245,422	
AIR LAUNCHED ORDNANCE 4-3-5	152,307	241,757	207,928	396,956	
OTHER SUPPORT EQUIPMENT 4-3-7	116,315	195,257	216,650	238,890	
TOTAL BUDGET PLAN $881,268	$369,716	$579,155	$608,208		

Budget Activity 3: AVIATION SUPPORT EQUIPMENT

($ in Thousands)
FY 1984 Estimate - $881,268
FY 1983 Estimate - $608,208
FY 1982 Estimate - $579,155
FY 1981 Actual - $369,716

Purpose and Scope of Work:

Budget Activity 3 finances the procurement of all air-delivered ordnance required for the Navy forces and Marine Air Wings, except guided missiles funded under the Weapons Procurement, Navy (WPN) appropriation. It also includes air launched, anti-submarine warfare (ASW) sensors, general support equipment associated with aircraft and other aviation support which includes ground electronics equipment, aircraft launching and retrieving equipment, photographic equipment, reconnaissance and electronic warfare processing and analysis equipment and miscellaneous other categories.

Justification of Funds:

($ in Thousands)
FY 1984 Estimate - $245,422
FY 1983 Estimate - $183,630
FY 1982 Estimate - $142,141
FY 1981 Actual - $101,094

SONOBUOYS (Includes P-1 Line Item Nos. 209-217)

The FY 1983 and FY 1984 Sonobuoy procurement has been computed considering the number of ASW carrier air groups and shore based ASW patrol squadrons to be supported, actual and planned peace-time usage for these forces and the necessary training allowance requirements. User aircraft include the S-3A, P-3, SH-2D, and SH-3 series.

AN/SSQ-36 Bathythermograph Sonobuoy - (P-1 Line Item No. 209).

($ in Thousands)

FY 1983	FY 1984
5,144	4,661

The FY 1983 and FY 1984 funds provide for the procurement of 29,200 and 25,000 AN/SSQ-36 sonobuoys, respectively, and associated production support services. The AN/SSQ-36 is an air dropped bathythermograph transmitting set that provides a vertical water temperature profile. This data is used in the selection of sonobuoy hydrophone depths and tactics in the localizing and tracking of submarines.

AN/SSQ-53 (DIFAR) Sonobuoy - (P-1 Line Item No. 212).

($ in Thousands)	
FY 1983	FY 1984
87,363	108,565

FY 1983 and FY 1984 funds provide for the procurement of 209,252 and 288,797 AN/SSQ-53B (DIFAR) sonobuoys, respectively, and associated production support services. The AN/SSQ-53B is a passive directional sonobuoy used during the target localization phase of the Air ASW Mission. The improved AN/SSQ-53B includes Tri-depth, Multi-channel and Electronic Function Select. The AN/SSQ-53B Sonobuoy will gradually replace the inventory of the AN/SSQ-41 Sonobuoy commencing with the FY 1983 procurement deliveries, thereby increasing operational capability without increasing the program cost required to maintain the AN/SSQ-41/53 Mix.

AN/SSQ-57 Sonobuoy - (P-1 Line Item No. 213).

($ in Thousands)	
FY 1983	FY 1984
2,590	3,292

FY 1983 and FY 1984 funds provide for the procurement of 8,000 and 10,500 AN/SSQ-57B sonobuoys, respectively, and associated production support services. The AN/SSQ-57A is a calibrated AN/SSQ-41 sonobuoy used to obtain acoustic and sound pressure level data, and to measure ambient noise. Due to the AN/SSQ-41 deletion from the acquisition plan commencing in FY 1983, a derivative of the AN/SSQ-53 is planned to be procured which includes low noise suspension tri-depth, multi-channel transmitter and electronic function select. This modified AN/SSQ-53 will be calibrated and designated the AN/SSQ-57B.

AN/SSQ-62 (DICASS) Sonobuoy - (P-1 Line Item No. 214).

($ in Thousands)	
FY 1983	FY 1984
20,771	43,988

FY 1983 and FY 1984 funds provide for the procurement of 16,000 and 24,100 AN/SSQ-62B (DICASS) sonobuoys, respectively, and associated production support services. The AN/SSQ-62B is an active directional sonobuoy that provides [ ] This sonobuoy will replace the AN/SSQ-47 and AN/SSQ-50 sonobuoys as the fleet's primary active sensor.

AN/SSQ-77 (VLAD) Sonobuoy - (P-1 Line Item No. 215).

($ in Thousands)	
FY 1983	FY 1984
53,308	80,283

FY 1983 and FY 1984 funds provide for the procurement of 35,870 and 66,349 AN/SSQ-77 (VLAD) sonobuoys, respectively, and associated production support services. The AN/SSQ-77 is a passive directional sonobuoy utilizing a line array of omni-directional hydrophones and a DIFAR element deployed at or near the [redacted] The directional beam patterns are formed from the line array to discriminate against noise and the DIFAR enables determination of the azimuthal bearing of detected sound.

Signal Underwater Sound (SUS) (P-1 Line Item No. 216).

($ in Thousands)	
FY 1983	FY 1984
1,771	1,670

FY 1983 and FY 1984 funds provide for the procurement of 14,000 and 11,000 Signal Underwater Sound (SUS) Devices, respectively, and associated production support services. SUS devices are expendable high energy acoustic sources used for many applications including bottom mapping, long range signal transmission and position fixing. These devices consist of explosive charges that are detonated by a hydrostatically operated mechanism or are non-explosive, electro-acoustic devices. SUS devices are used for both fleet and non-fleet applications.

Sonobuoy Support Equipment (P-1 Line Item No. 217).

($ in Thousands)	
FY 1983	FY 1984
2,683	2,963

FY 1983 and FY 1984 funds provide for the procurement and updating of the test systems and related equipment required during production testing of sonobuoys, bathythermographs and sound underwater signals. This equipment is for use at sonobuoy quality assurance facilities to insure the Navy is provided a product from production that conforms to the specified sonobuoy performance and reliability criteria. FY 1983 and FY 1984 resources also provide for required Sonobuoy Integrated Logistic Support efforts incident to production of sonobuoys.

AIR LAUNCHED ORDNANCE (Includes P-1 Line Item Nos. 218-234).

($ in Thousands)
FY 1984 Estimate - $396,956
FY 1983 Estimate - $207,928
FY 1982 Estimate - $241,757
FY 1981 Actual - $152,307

The FY 1983 budget request of $207.9 million will procure 21,444 tons of air-launched ordnance (FY 1984 $397.0 million; 33,726 tons). This tonnage will provide training consumption and support and war reserve (mobilization) requirements.

General and Special Purpose Bombs (P-1 Line Item Nos. 218-220).

($ in Thousands)

FY 1983	FY 1984
35,882	114,162

$18.4 million of this request in FY 1983 is for the General Purpose (GP) Bomb line. These funds will procure the MK-82 and MK-83 G. P. Bombs and conical fins for the MK-83 G.P. Bomb. In FY 1984, $41.7 million is requested for procurement of the MK-82 and MK-83 G.P. Bombs, and the remaining $52.7 million is requested to procure various types of fins for these G.P. Bombs as well as miscellaneous component parts and production support. $4.3 million in FY 1983 and $4.7 million in FY 1984 is for PAVEWAY II Laser Guided Bomb Kits, which will be used to provide terminal guidance to the MK-82, 83 and 84 general purpose bombs. $13.2 million in FY 1983 and $15.1 million in FY 1984 is for WALLEYE, an air-to-surface TV guided glide bomb. The WALLEYE funds will procure extended range (ER) and data link (DL) hardware for the conversion of WALLEYE I weapons to the ER/DL configuration.

Air Launched Rockets (P-1 Line Item Nos. 221, 222).

($ in Thousands)

FY 1983	FY 1984
17,930	28,702

$7.5 million in FY 1983 and $9.9 million in FY 1984 are for procurement of the air-to-ground Zuni 5.0" Wrap-around Fin Rocket system. $10.5 million in FY 1983 and $18.8 million in FY 1984 are for the 2.75" Folding Fin Rocket motor and launchers.

Aircraft Machine Gun Ammunition (P-1 Line Item No. 224).

($ in Thousands)	
FY 1983	FY 1984
19,570	49,166

This category includes both 20mm and 25mm ammunition. $2.2 million in FY 1983 and $12.4 million in FY 1984 are requested for procurement of 20mm practice gun ammunition used with various aircraft (A4, F8, A7 and A6) gun systems. $11.4 million in FY 1983 and $30.8 million in FY 1984 are requested for 25mm practice ammunition fired by the AV-8A (HARRIER) aircraft gun system. $6.0 million in both FY 1983 and FY 1984 are requested for facilitization for the 25mm procurement.

BIGEYE (P-1 Line Item No. 231).

($ in Thousands)	
FY 1983	FY 1984
25,676	47,551

The FY 1983 and FY 1984 funds provide for low rate initial production of the BIGEYE weapon. The BIGEYE is an air launched, binary spray chemical bomb. It generates and delivers a persistent nerve agent from two non-toxic chemicals, providing a retaliatory chemical capability.

GATOR (P-1 Line Item No. 233).

($ in Thousands)	
FY 1983	FY 1984
0	24,743

The $24.7 million requested in FY 1984 is to procure GATOR CBU-78 500 lb. bombs. The GATOR weapon includes of a MK-7 dispenser that contains a mixture of air scatterable anti-tank and anti-personnel land mines.

Miscellaneous Ordnance and Support (P-1 Line Item Nos. 223, 225-230, 232 and 234).

($ in Thousands)	
FY 1983	FY 1984
108,870	132,632

This procurement will include inert heads for training, and chaff decoy heads for electronic countermeasures. $7.1 million in FY 1983 and $8.2 million in FY 1984 are requested for the Parachute Flare Program to procure the LUU-2 B/B parachute flare. $26.5 million in FY 1983 ($38.9 million in FY 1984) is requested for procurement of practice bombs and marker signals, including $5.7 million ($8.9 million in FY 1984) for the MK-76 and MK-106 Practice Bombs, $17.1 million ($21.8 million in FY 1984) for the MK-80 series inert bomb, $2.1 million ($5.8 million in FY 1984) for Bomb Dummy Units (BDU-20C, BDU-24 and BDU-36 inert bombs) for nuclear training and $1.6 million ($2.4 million in FY 1984) for Cartridge Simulant Units (CXU-3 and CXU-4 smoke signals). $24.5 million in FY 1983 and $24.3 million in FY 1984 are for the procurement of impulse cartridges used for ejecting air-launched weapons and other cartridge actuated devices. $6.7 million in FY 1983 and $5.2 million in FY 1984 are requested for rocket motors and catapults used for ejecting aircrewmen from disabled aircraft. $17.7 million in FY 1983 and $21.1 million in FY 1984 are requested for procurement of airborne expendable countermeasures, including chaff, infrared flares and expendable jammers to meet training and war reserve (mobilization) requirements. $14.9 million in FY 1983 and $20.5 million in FY 1984 are requested for JATO (Jet-Assisted Take Off) rockets used to launch aircraft and targets and to propel sleds used in testing. The remaining $11.5 million in FY 1983 and $14.4 million in FY 1984 are requested for miscellaneous ordnance, including such items as Marine Location Markers, Smokey SAM Simulator, and Defense Nuclear Agency Material.

OTHER SUPPORT EQUIPMENT (Includes P-1 Line Item Nos. 235-254).

($ in Thousands)
FY 1984 Estimate - $238,890
FY 1983 Estimate - $216,650
FY 1982 Estimate - $195,257
FY 1981 Actual - $116,315

The other support equipment FY 1983 and FY 1984 plan covers a wide range of requirements to support naval aviation that are not provided for elsewhere in the major procurement appropriations. These items include a myriad of diverse programs with the single purpose of improving and supporting the fleet and shore establishment by expanding or maintaining existing capabilities or replacing ineffective or worn-out units.

CV-ASW Module (P-1 Line Item No. 235).

($ in Thousands)	
FY 1983	FY 1984
7,567	7,698

The CV-ASW Module of the carrier combat system is the focal point of support for CV carrier and force ASW functions. The system provides preflight, inflight and postflight support to embarked ASW airborne weapon systems (S-3A and ASW helicopters) and provides real time and post mission analysis of relayed or taped acoustic signals. The system consists of digital computers, display, mass memories, plotters, printers, acoustic equipments and interface devices. The CV-ASW Module furnishes timely evaluated ASW information to the Officer in Tactical Command as inputs to the decision making process. FY 1983 funds are for procurement of one minimum configuration (austere) CV-ASW Module which is required for use in the Prototype Carrier Operational Test and Evaluation Site (PCOTES) located at San Diego, California and associated production support services. The CV-ASW Module is a sub-system of the PCOTES test facility. FY 1984 funds provide for the procurement of reliability and operability improvement modifications to the AN/UYK-7 computer and the Fast Time Analyzer System (FTAS) and associated production support services.

Weapons Range Support Equipment (P-1 Line Item No. 236).

($ in Thousands)	
FY 1983	FY 1984
29,588	39,558

The FY 1983 and FY 1984 funds are for the procurement of equipment to be used at the Atlantic Fleet Weapons Training Facility, (AFWTF), Barking Sands Underwater Range, (BSURE), Pacific Missile Range Facility (PMRF). and various Fleet Training Ranges. Fleet operational evaluations of air, surface and undersea weapons and training in the employment of these weapons are conducted at these locations. Equipment procured under this line item is used for collection, transmission, processing, and display of data generated by exercises on these ranges. Procurements in FY 1983 include the following: (1) $4.4 million is for Range Electronic Warfare Simulator (REWS) to be used for surface and air fleet Electronic Warfare (EW) training exercises; (2) $7.3 million is for upgrading both the West Coast and East Coast Tactical Aircrew Combat Training System (TACTS); (3) $7.9 million is for computer replacement at AFWTF and PMRF, and (4) $3.5 million is for range modifications to expand the tracking capability at the BSURE Range. Other range equipment requirements total $6.5 million. Procurements in FY 1984 include the following: (1) $8.0 million is for a threat platform simulator (TPS) for AFWTF; (2) $3.0 million is for further improvements at the East Coast TACTS; and (3) $19.8 million is for adding a cooperative tracking system (CTS) and a data collection system van (DCS) to the Mobile Sea Range. Other range equipment requirements total $8.8 million.

Drone Control System (P-1 Line Item No. 237).

($ in Thousands)	
FY 1983	FY 1984
6,556	1,806

The 1983 funds will be used for the procurement of two AN/TSW-10 (V) 3 Tracking Systems and 14 Vega Modifications. The FY 1984 funds are for procurement of 38 Surface Target Command Control Systems.

Weapons Scoring Systems (P-1 Line Item No. 238).

($ in Thousands)	
FY 1983	FY 1984
2,469	2,455

In both fiscal years, funds are for procurement of one Radar Bomb Scoring system which will provide No-Drop evaluation of the striking proficiency of various weapons systems in a combat environment to train pilots and bombardiers in the use of weapons systems.

Aircraft Launching and Recovery Equipment (P-1 Line Item Nos. 239,241,242).

($ in Thousands)	
FY 1983	FY 1984
16,138	18,315

Catapult Arresting Gear, and Visual Landing Aids Support for the Navy's aircraft carriers, and the Marine Corps' Expeditionary Airfield (EAF) systems are funded under this program. $1.7 million in FY 1983 and $5.4 million in FY 1984 are for EAF support equipment to correct known deficiencies, to modernize the EAF equipment to enhance maintainability, reliability and safety of flight operations, and to keep pace with advanced aircraft requirements. $12.3 million in FY 1983 and $12.3 million in FY 1984 are for the procurement of major catapult, arresting gear and visual landing aids equipment for aircraft carriers and other aircraft capable ships. $2.1 million in FY 1983 and $.7 million in FY 1984 provide for services change kits and other support equipment for airfield arresting systems.

Aircraft Rearming Equipment (P-1 Line Item No. 240).

($ in Thousands)	
FY 1983	FY 1984
4,025	7,033

This program provides armament support equipment (ASE) and weapons support equipment (WSE). ASE is equipment utilized ashore and afloat to load and/or download air launched weapons and to perform maintenance on aircraft installed armament systems. WSE equipment is used, ashore and afloat, to transport and perform maintenance on weapons and explosive ordnance components. ASE and WSE is utilized to accomplish the improved rearming rate (IRR) of A-6, EA-6, A-7, F-4, F-14, F-18, and AV-8 aircraft. The use of this equipment permits the rapid weapons loading and reloading of strike aircraft with a minimum number of flight deck personnel.

Shipboard Readout Equipment (SROE) (P-1 Line Item No. 243).

($ in Thousands)	
FY 1983	FY 1984
3,938	7,347

This line item will fund procurement of the AN/SMQ-10 Shipboard Readout Terminal, one in FY 1983 and two in FY 1984. The Shipboard Readout Equipment (SROE) is a satellite readout terminal capable of receiving and processing high quality meteorological satellite data from the joint-service Defense Meteorological Satellite Program (DMSP).

Meteorological Equipment (P-1 Line Item No. 444).

($ in Thousands)	
FY 1983	FY 1984
6,647	4,995

This program finances the procurement of meteorological equipment required by the Navy to gather worldwide weather data, and to rapidly disseminate weather information to Navy and Marine Corps users. The information provided is required for weather forecasting, flight safety and planning fleet operations. The Navy, in addition to providing specialized weather service peculiar to its needs, coordinates services with the DOD and civilian weather agencies. Meteorological equipment to be procured in both FY 1983 and FY 1984 includes equipment for the high-speed dissemination of weather information, and miscellaneous equipment to monitor and report weather conditions at sea and shorebased activities.

Survival Equipment (P-1 Line Item No. 246)

($ in Thousands)	
FY 1983	FY 1984
7,505	0

This program will finance procurement of the AN/PRC-112 Survival Radio, for use by aircrew men. This radio is being developed by the Air Force as part of a tri-service program and will replace the existing AN/PRC-90 survival radio currently in inventory.

Airborne Mine Countermeasures Equipment (P-1 Line Item No. 247).

($ in Thousands)	
FY 1983	FY 1984
16,701	25,591

This program funds various mine countermeasure equipments operated by RH/CH-53D helicopters. Included are funds to procure the AN/AQS-14 Minehunting Sonar, $10.2 million for 5 systems in FY 1983 and $11.7 million for 7 systems in FY 1984.

LAMPS MK III Shipboard Equipment (P-1 Line Item No. 248).

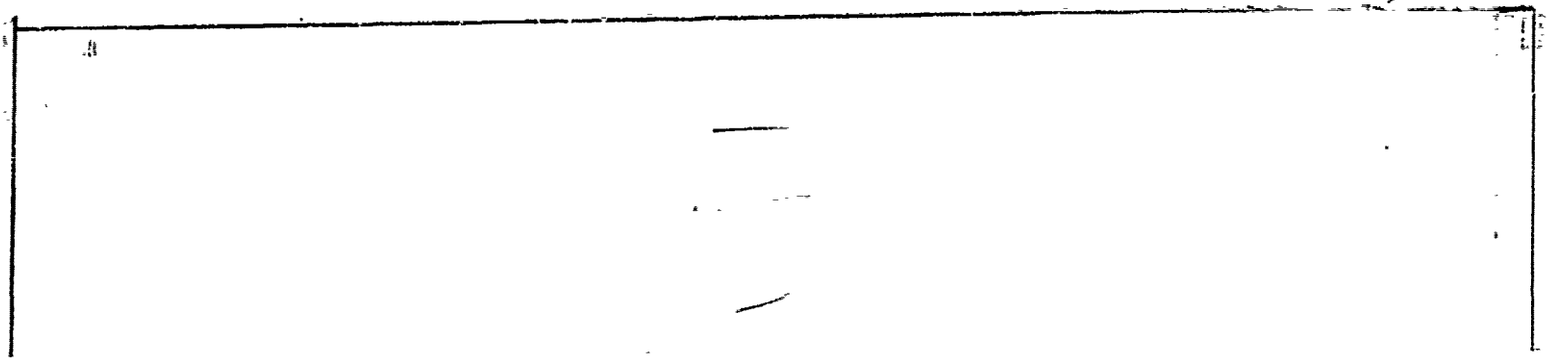
($ in Thousands)	
FY 1983	FY 1984
81,723	79,142

A multi-appropriation funded program, the LAMPS MK III shipboard equipment funded by OPN is that equipment which is to be installed in existing ships being backfitted with the LAMPS MK III weapon system. This equipment includes: (1) the AN/SQQ-28(V), an electronic sonar signal processing system; (2) the AN/SRQ-4, a shipboard terminal data transmission device; and (3) HLS, the shipboard helicopter landing system for the LAMPS MK III helicopter. Nine ship systems are budgeted in FY 1983 and eleven in FY 1984.

REWSON (P-1 Line No. 249).

($ in Thousands)	
FY 1983	FY 1984
2,577	2,562

$2.6 million is requested in each year to buy equipment in support of the REWSON (Reconnaissance, Electronic Warfare, Special Operations and Naval Intelligence) Program. Procurement includes: (1) readout equipment for ship and shore reconnaissance squadrons, (2) surface and subsurface photocollection equipment and (3) analytical equipment to support these collectors and (4) equipment of a photographic and analytic nature for use by ship combatants.



Stock Surveillance Equipment (P-1 Line Item No. 250).

($ in Thousands)	
FY 1983	FY 1984
3,823	3,774

This line provides funds for procurement of equipment needed to monitor, measure, and assess the condition of current Navy stocks of air-launched missiles and air-launched ordnance and ammunition. 80% of the funds support missile inventory quality evaluation (surveillance) efforts and 20% support air-launched ordnance evaluation, including bombs, rockets, and cartridge actuated devices. Material readiness factors such as reliability and serviceability are measured by this effort.

Spares and Repair Parts (P-1 Line Item Nos. 254).

($ in Thousands)	
FY 1983	FY 1984
23,911	35,616

These items fund initial and replenishment spares. $18.0 million in FY 1983 and $19.6 million in FY 1984 are for initial spares, which are for the initial outfitting of end-items budgeted in Budget Activity #3. $5.9 million in FY 1983 and $16.0 million in FY 1984 are for procurement of replenishment, launch/recovery spares.

Other Equipment (P-1 Line Item Nos. 245,252,253).

($ in Thousands)	
FY 1983	FY 1984
3,482	2,998

In addition to the above, OPN Budget Activity (B.A.) #3 funds: (1) procurement of headquarters and field collateral equipment, fleet telemetry (TM) equipment and capital maintenance of real property ($1.4 million in each fiscal year); (2) procurement of photographic equipment for all Navy, shore and seaborne, photographic laboratories plus various intelligence activities ($1.5 million in each fiscal year); (3) procurement of various capital investment equipment and production prototype equipment selected to improve productivity at non-industrial funded Naval Air Systems Command Activities ($0.6 million in FY 1983 and $0.1 million in FY 1984). Prior to FY 1983 the procurement of capital equipment for the Naval Avionics Center (NAC) and the Naval Air Rework Facilities (NARFs) was funded in the OPN appropriation in this budget activity. Commencing in FY 1983, these capital equipment procurements will be financed by the Navy Industrial Fund (NIF) and charged to customer accounts.



BUDGET ACTIVITY: 4 ORDNANCE SUPPORT EQUIPMENT
SUMMARY OF BUDGET PLAN
(IN THOUSANDS)

BUDGET PLAN
(Amounts For Procurement Actions Programmed)

	FY 1981 ACTUAL	FY 1982 ESTIMATE	FY1983 ESTIMATE	FY1984 ESTIMATE	JUSTIFICATION PAGE
SHIP GUN AMMUNITION	$ 74,147	$111,727	$ 90,129	$164,196	4-4-2
SHIP GUN SYSTEMS EQUIPMENT	49,738	72,340	37,397	34,487	4-4-6
SURFACE MISSILE SYSTEMS EQUIPMENT	172,359	291,010	350,001	396,005	4-4-7
F2M SUPPORT EQUIPMENT	84,999	68,561	55,242	55,252	4-4-11
ASW SUPPORT EQUIPMENT	64,693	87,301	69,890	105,441	4-4-13
OTHER ORDNANCE SUPPORT	150,880	199,208	182,537	240,210	4-4-15
TOTAL BUDGET PLAN	$596,816	$830,147	$785,195	$985,591	

Budget Activity 4: Ordnance Support Equipment

($ IN THOUSANDS)

FY 1984 ESTIMATE -	$985,591
FY 1983 ESTIMATE -	785,195
FY 1982 ESTIMATE -	830,147
FY 1981 ACTUAL -	596,816

Purpose and Scope of Work

Funds provided in this budget activity are for Ship Gun Ammunition, Ship Gun and Surface Missile Systems Equipment, Fleet Ballistic Missile and Anti-Submarine Warfare and Other Ordnance Support Equipment.

Justification of Funds

Ship Gun Ammunition (Includes P-1 Line Items 255-259)

($ IN THOUSANDS)

FY 1984 ESTIMATE -	$154,196
FY 1983 ESTIMATE -	90,128
FY 1982 ESTIMATE -	111,727
FY 1981 ESTIMATE -	74,147

The FY 1983 request of $90.2 million and FY 1984 request of $154.2 million for Ship Gun Ammunition is for procurement of three-inch ammunition, five-inch ammunition, 20MM ammunition for the Close-In Weapon System (CIWS) and 76MM ammunition. The primary mission for three-inch ammunition is surface to surface warfare. The 76MM ammunition is for use primarily against air targets but is also for use against surface and shore targets. The total funding amount for the three-inch and five-inch ammunition provides full rounds to support combat reserve for all NATO designated forces and replenishment of intertheater shipping losses during combat.The funds for 20MM ammunition for CIWS is required to support (1) shake down and Fleet training and gun calibration test; and (2) initial shipfills and a pipeline to support peacetime expenditures because no reserve is authorized. The funds requested for 76MM ammunition is required to support: (1) Fleet training and new production gun mount tests, ships'structural tests and ship qualification trials (SQT); and (2) a re-supply reserve quantity, a specified combat reserve quantity, and a 4 1/2 month pipeline in support of non combat expenditures.

3"/50 Ammunition (P-1 Line Item 255)

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,865	$13,449

The FY 1983 request of $3.9 million is for the procurement fo 900 rounds of slow fire illuminating cartridges and renovation of components to upgrade unserviceable rounds to ready-for-issue condition. The FY 1984 request of $13.4M is for 2,900 rounds of rapid fire variable time non-fragmentation cartridges; 8,500 rounds of rapid fire blanked, loaded, and plugged cartridges; 1,300 rounds of slow fire blanked, loaded, and plugged cartridges; 900 rounds of slow fire illuminating cartridges; and renovation components to upgrade unserviceable rounds to ready-for-issue condition.

5"/38 Ammunition (P-1 Line Item 256)

($ IN THOUSANDS)	
FY 1983	FY 1984
$ 3,253	$ 3,497

The FY 1983 request of $3.3 million is for the procurement of renovation components to upgrade unserviceable rounds to ready for-issue condition. The FY 1984 request of $3.5 million is for the procurement of 4,700 rounds of variable time non-fragmentation cartridges; 2,600 rounds of blanked, loaded, and plugged cartridges; and renovation components to upgrade unserviceable rounds to ready-for-issue condition.

5"/54 Ammunition P-1 Line Item 257)

($ IN THOUSANDS)	
FY 1983	FY 1984
$28,046	$76,387

The FY 1983 request of $28.0 million is for the procurement 3,504 rounds of reduced charge cartridges; 16,512 rounds of full charge cartridges; 23,088 rounds

of variable time non-fragmentation cartridges; 9,400 rounds of high capacity/high explosive, point detonating/delay, high fragmentation cartridges; 16,560 rounds of blanked, loaded, and plugged cartridges; and renovation components to upgrade unserviceable rounds to ready-for-issue condition. The FY 1984 request of $76.4 million is for the procurement of 1,200 rounds of puff cartridges; 6,200 rounds of high capacity/high explosive, controlled variable time cartridges; 3,504 rounds of reduced charge cartridges; 109,300 rounds of full charge cartridges; 22,500 rounds of variable time, non-fragmentation cartridges; 18,900 rounds of high capacity/high explosive, point detonating/delay, high fragmentation cartridges; 15,984 rounds of blanked, loaded, and plugged cartridges; 7500 rounds of illuminating cartridges; 5,600 high explosive-mechanical timed/point detonating cartridges; 2,000 rounds of dummy projectiles; 2,000 rounds of dummy charges; and renovation components to upgrade unserviceable rounds to ready-for-issue condition.

CIWS Ammunition (P-1 Line Item 258)

($ IN THOUSANDS)	
FY 1983	FY 1984
$20,374	$24,812

The FY 1983 request of $20.4 million is for the procurement of 1,285,700 20MM MK 149 rounds and 80,000 20MM dummy rounds. The FY 1984 request of $24.8 million is for the procurement of 1,502,800 20MM MK 149 rounds and 80,000 20MM dummy rounds.

76MM Ammunition (P-1 Line Item 259)

($ IN THOUSANDS)	
FY 1983	FY 1984
$34,590	$36,051

The FY 1983 request of $34.6 million is for the procurement of 15,000 rounds of high explosive-infrared cartridges; 59,500 rounds of blanked, loaded, and plugged cartridges; 20 rounds of clearing charges; and 28 unds of dummy cartridges. The FY 1984 request of $33.1 million is for the procurement of 16,100 rounds of high explosive-point detonating charges; 51,984 rounds of blanked, loaded, and plugged cartridges; 11,500 rounds of high explosive-variable time cartridges; 100 rounds of clearing charges; and 300 rounds of dummy cartridges.

Ship Gun Systems Equipment (Includes P-1 Line Items 260-263)

	($ IN THOUSANDS)
FY 1984 ESTIMATE	$34,487
FY 1983 ESTIMATE	$37,397
FY 1982 ESTIMATE	$72,340
FY 1981 ACTUAL	$49,738

The FY 1983 request of $37.4 million is comprised of $11.7 million for Gun Fire Control Equipment, and $25.7 million for support of U.S. Coast Guard Gun Systems. The FY 1984 request of $34.5 million is for Gun Fire Control Equipment.

Gun Fire Control Equipment (P-1 Line Item 260)

($ IN THOUSANDS)	
FY 1983	FY 1984
$11,698	$34,487

The $11.7 million requested in FY 1983 and $34.5 million requested in FY 1984 are for the procurement of equipment and ordnance alterations to improve reliability and maintainability of surface gun fire control systems MK-86, 68, and 56.

Coast Guard Gun Systems (P-1 Line Item 263)

($ IN THOUSANDS)	
FY 1983	FY 1984
$25,699	0

The FY 1983 request of $25.7 million is for the procurement of three MK-92 MOD 1 GFCS to be installed on Modernized WHEC (Hamilton Class) Coast Guard vessels. The Fire Control System MK-92 provides for air and surface surveillance, gun and missile fire control, and simultaneous engagement of multiple air, surface and shore targets.



Surface Missile Systems Equipment (Includes P-1 Line Items 264-274)

	($ IN THOUSANDS)
FY 1984 ESTIMATE	$396,305
FY 1983 ESTIMATE	$350,001
FY 1982 ESTIMATE	$291,010
FY 1981 ACTUAL	$172,359

HARPOON (P-1 Line Item 264)

($ IN THOUSANDS)	
FY 1983	FY 1984
$7,271	$4,787

The $7.3 million requested in FY 1983 and $4.8 million in FY 1984 is for the procurement of items peculiar to the HARPOON ship and submarine launched weapons systems.The funds requested in FY 1983 will be used to modify the PHM-1 and 2 DDG-15 class ship launch platforms, procure alterations to preclude inadvertent firing of a HARPOON Missile, and provide command and launch system compatibility with the Block 1 C Missile. The funding in FY 1984 will be used to procure HARPOON Ordnance Alterations. The HARPOON Weapon System will provide a ship, air and submarine launched all weather anti-ship cruise missile effective against enemy destroyers, light cruisers, surfaced submarines, patrol craft and other enemy shipping.

Surface Missile System Ordnance Alterations - Area Defense TERRIER (P-1 Line Item 265)

($ IN THOUSANDS)	
FY 1983	FY 1984
$51,030	$90,103

$2.4 million in FY 1983 and $40.2 million in FY 1984 are requested for the TERRIER "M" Ordnance Alteration Program to improve the MK-76 Guided Missile Fire Control System via installation of Fleet Support Ordnance Alteration and Fire Control System Receiver improvements to increase Fleet readiness to meet Anti-Air warfare (AAW)mission requirements. $40.8 million in FY 1983 and $43.1 million in FY 1984 are requested for CG/SM-2 Combat Systems.

The improvements will consist of the Fire Control System Mods: AN/SYR-1 Downlink Receiver; Weapons Direction System (WDS MK-14), and Ancillary Modifications to to the Guided Missile Launching System. $7.8 million in FY 1983 and $6.8 million in FY 1984 are requested for the New Threat Upgrade (NTU) improvements to CG/SM-2 Combat System to provide for SM-2 (ER) Block II missile capability.

SMS ORDALTS - Area Defense TARTAR (P-1 Line Item 266)

($ IN THOUSANDS)	
FY 1983	FY 1984
$30,391	$36,634

$25.5 million in FY 1983 and $24.4 million in FY 1984 is requested for the CGN/SM-2 Weapon Systems. These improvements consist of the Fire Control Radar Mods, Weapons Direction (WDS MK-14), AN/SYR-1 Downlink Receiver and Ancillary modifications. $4.8 million in FY 1983 and $7.2 million in FY 1984 is requested to procure Ordnance Alterations for various improvements to the MK-92 Fire Control System. These improvements provide improved acquisition and track capability in the Electronics Countermeasure (ECM) and the sub-clutter environments.

SMS ORDALTS - Self Defense (P-1 Line Item 267)

($ IN THOUSANDS)	
FY 1983	FY 1984
$35,291	$15,326

The funds requested will provide air defense of selected ships by upgrading the NATO SEASPARROW Surface Missile System (NSSMS) and Basic Point Defense Surface Missile System (BPDSMS). Upgrading these systems will include: modifying the NSSMS to fire the RIM-7M Monopulse Missile, which will be procured utilizing a multiyear contract; procuring associated special test equipment; and upgrading BPDSMS to incorporate specific improvements to increase system reliablity.

All Other Surface Missile Systems Equipment (P-1 Line Items 268 & 269)

($ IN THOUSANDS)	
FY 1983	FY 1984
$3,091	$4,336

The $3.1 million requested in FY 1983 consists of $2.1 million for Surface Missile Systems (SMS) Training Equipment and $1.0 million for the Airborne Electronic Countermeasures/Electronic Counter-Countermeasures (ECM/ECCM) program. The $2.1 million requested for Training Equipment is for the interface support and related material and test/replacement material for the TERRIER and TARTAR missile systems. The $4.3 million in FY 1984 consists of $3.1 million for SMS Training Equipment and $1.2 million for the Airborne ECM/ECCM program.

AEGIS CSEDS (P-1 Line Item 270)

($ IN THOUSANDS)	
FY 1983	FY 1984
$43,957	$29,455

The $44.0 million in FY 1983 and the $29.5 million in FY 1984 requested for the AEGIS Combat System/Educational Center provide shore-based assets to support the battle readiness of AEGIS cruisers including: depot special tooling and test equipment; AEGIS computer center equipment; AEGIS combat system center equipment; and AEGIS educational center equipment.

UHF Telemetry Equipment (P-1 Line Item 271)

($ IN THOUSANDS)	
FY 1983	FY 1984
$2,725	$2,651

The $2.7 million requested in FY 1983 and $2.7 million requested in FY 1984 are for the procurement of AN/SKQ-3 Receiving-Recording-Scoring Sets (RRSS) required to support increased demands for portable telemetry sets and for modifications to existing AN/SKQ-3 RRSS for compatibility with the SM-2 Telemeter. The AN/SKQ-3 Receiving-Recording-Scoring Sets are portable equipment which are installed in ships prior to exercise missile firings. The RRSS are in constant service in support of these exercises and have proven reliability.

Surface TOMAHAWK Support Equipment (P-1 Line Item 273)

($ IN THOUSANDS)	
FY 1983	FY 1984
$144,847	$187,003

The FY 1983 request of $144.8 Million provides for the procurement of the TOMAHAWK Common Weapon Control System (CWCS EX 3 MOD) for surface ships and the associated launchers, with either the Armored Box Launchers (ABL), or Vertical Launchers (VLS) procured for DD 963 and CGN Class Ships. The CWCS is comprised of EX 3 equipment, navigation equipment, and communication equipment. The FY 1983 program will provide a TOMAHAWK launch capability (ABL) for 3 DD-963 class and 2 CGN class ships and a VLS capability for one DD-963 class ship. The FY 1984 program will provide a TOMAHAWK launch capability for 4 DD-963 class ships for the VLS program and 2 CGN class ships for the surface ABL program. In FY 1981 and FY 1982 this effort was funded under the line item title "SCM Support Equipment" within this Budget Activity.

Submarine TOMAHAWK Support Equipment (P-1 Line Item 274)

($ IN THOUSANDS)	
FY 1983	FY 1984
$31,398	$25,710

The $31.4 million requested in FY 1983 and the $25.7 million requested in FY 1984 is for the procurement of modifications to the fire control system FCS MK 117 for SSN 637 and 688 Class submarines, which will allow the SSN 637/688 classes to launch the TOMAHAWK Cruise Missile . In addition to these modifications, $16.7 million in FY 1983 and $16.7 million in FY 1984 is requested to to modify two SSN 688 class submarines in each year to provide a Vertical Launch capability. In FY 1981 and FY 1982 this effort was funded under the line item title "SCM Support Equipment" within this Budget Activity.

FBM Support Equipment (Includes P-1 Line Items 275, 276, 279 & 280)

($ IN THOUSANDS)	
FY 1983	FY 1984
$55,242	$55,252

POLARIS/POSEIDON Training Equipment (P-1 Line Item 275)

($ IN THOUSANDS)	
FY 1983	FY 1984
$1,025	$1,047

This line provides for procurement of equipment for the POLARIS/POSEIDON Training facilities: Naval Guided Missiles School, Dam Neck; FMB Submarine Training Center, Charleston; and FBM Department, Submarine School, New London. These facilities provide a complete initial and advanced operational and maintenance training capability for the FBM weapon system. The funds requested in FY 1983 and FY 1984 will provide for procurement of training unique alteration kits to update or improve FBM Weapons and Navigation Trainers and Sonar Operational Trainers; replacement of worn FBM and Sonar Training unique hardware; and acquisition of computer-based instructional support equipment for updating stand-alone, self-paced training simulation devices.

POLARIS/POSEIDON Support Equipment (P-1 Line Item 276)

($ IN THOUSANDS)	
FY 1983	FY 1984
$39,437	$34,138

This line provides for procurement of a variety of support equipment essential to maintaining the operational capability of the POLARIS/POSEIDON system and in meeting established force objectives. Equipments are required for regularly scheduled overhaul of deployed SSBNs and tenders. In addition, the line provides for procurement of (a) alterations to non-flying tactical hardware, (b) maintenance, calibration, and test and handling equipment for

SSBNs, tenders, and shore installations, (c) replacement of launcher hardware utilized by deployed SSBN crews during test shots, (d) ground support equipment for the Navy Navigation Satellite System, and (e) instrumentation equipment utilized in weapon test and evaluation programs. The funds requested in FY 1983 and FY 1984 include procurement of Electrostatically Supported GYRO Monitors (ESGM) and associated equipment for incorporation into the navigation suite aboard POSEIDON SSBNs, formula generated weapon subsystem alterations, overhaul equipment requirements for the 627 Class and 640 Class SSBNs and other material support.

TRIDENT Training Equipment (P-1 Line Item 279) - Funding in this P-1 line provides for procurement of ordnance training equipment for the TRIDENT Training Facility (TRITRAFAC) at the Naval Submarine Base, Bangor, Washington.

($ IN THOUSANDS)	
FY 1983	FY 1984
$926	$1,927

The TRIDENT Training Facility will provide the crews of the TRIDENT submarines with realistic experience in operating and maintaining shipboard equipment. Training at the TRIDENT Facility commenced in September 1977 in selected areas, such as the Strategic Weapons Systems fire control and navigation subsystems. As procurement and installation of training equipment continues, additional subsystem trainers will become operational and will be available for crew training.

TRIDENT Support Equipment (P-1 Line Item 280)- Funding in this P-1 line provides for the procurement of equipment required for support of the Strategic and Defensive Weapon System portions of the TRIDENT System (other than the missile subsystem). This includes the launcher and handling, fire control, navigation, instrumentation, and missile checkout subsystems as well as the torpedo fire control system.

($ IN THOUSANDS)	
FY 1983	FY 1984
$13,854	$18,140

Funds requested in FY 1983 for the Defensive Weapon System will provide procurement of TRIDENT Modernization Program items and alteration/modification kits in support of the TRIDENT West Coast Program.

(ASW Support Equipment (Includes P-1 Line Items 281-286)

	($ IN THOUSANDS)
FY 1984 ESTIMATE	$105,441
FY 1983 ESTIMATE	$ 69,890
FY 1982 ESTIMATE	$ 87,301
FY 1981 ACTUAL	$ 64,693

The principal item in this activity is the All Digital Attack Center (ADAC) which accounts for $51.3 million of the total funds requested in FY 1983 and $58.5 million of the total funds requested in FY 1984.

All Digital Attack Center (ADAC) (P-1 Line Item 281)

($ IN THOUSANDS)	
FY 1983	FY 1984
$51,339	$58,509

The All Digital Attack Center (ADAC) designated Fire Control System MK-117 is installed aboard SSN 594/637 Class submarines and on SSNs 688-699 during regular overhaul. The hybrid FCS MK-113 currently installed aboard these submarines is deficient in countering modern, high speed, quiet targets and in mission reliability and maintainability. ADAC replaces the existing FCS MK113 equipment in the attack center with a modern high speed digital computing facility and digital driven displays. ADAC utilizes sonar information and environmental data to conduct advanced target motion analysis, automatically sets Torpedo MK-48 for optimum employment and controls and displays weapon launch. It also provides as an adjunct a Commanding Officer's Tactical System to aid in decision making. The FY 1983 program supports the procurement of two ADAC systems for installation on SSN 637 Class submarines and three systems for installation on SSN 688-699 Class submarines. The FY 1984 program supports the procurement of one ADAC system for the SSN 594 Class submarine and three systems for the SSN 688-699 Class submarines.

Submarine ASW Support Equipment (P-1 Line Item 283)

($ IN THOUSANDS)	
FY 1983	FY 1984
$7,917	$28,173

This line item provides for the procurement of ordnance alterations (ORDALTS) to upgrade in-service submarine fire control systems in order to facilitate the latest production improvements to the MK-48 Torpedo. These improvements have evolved from the continued development and testing of the MK-48 weapon system under laboratory and at-sea conditions. Other submarine improvements procured consist of up-grade to torpedo tube equipment installed on the submarines. In FY 1981 and FY 1982 this effort was funded under the line items entitled "Torpedo MK-48 Fire Control and Launch Equipment" and "Other Support Equipment" within this Budget Activity.

Surface ASW Support Equipment (P-1 Line Item 284)

($ IN THOUSANDS)	
FY 1983	FY 1984
$5,255	$10,491

This program supports the procurement of modifications and improvements to in-service ASW systems on-board surface ships and associated support equipment. These systems include the Surface Fire Control Equipment, Anti-Submarine Rocket (ASROC) Launchers, Surface Vessel Torpedo Tubes and applicable test equipment. Prior to FY 1983 this effort was funded in the P-1 Line Item entitled "Other ASW Support Equipment" within this Budget Activity.

Range Support Equipment (P-1 Line Item 286)

($ IN THOUSANDS)	
FY 1983	FY 1984
$5,379	$8,268

FY 1983 and FY 1984 requests provide for the procurement of Anti-Submarine Warfare (ASW) torpedo exercise range and shore support equipment, Fleet Operational Readiness Accuracy Check Sites (FORACS) and Sensor Accuracy Check Sites (SACS) range equipment, and Weapon System Accuracy Trials (WSAT) test equipment. The ranges for which this equipment is procured are San Clemente Island; Barking Sands Tactical Underwater Range; Naval Undersea Weapons Engineering Station Keyport, Washington; Atlantic Underwater Test and Evaluation Center (AUTEC); Atlantic Fleet Weapons Training Facility (AFWTF); St. Croix; and Fishers Island.

Other Ordnance Support Equipment (Includes P-1 Line Items 287-306)

($ IN THOUSANDS)	
FY 1984 ESTIMATE	$240,210
FY 1983 ESTIMATE	$182,537
FY 1982 ESTIMATE	$199,208
FY 1981 ACTUAL	$150,880

The FY 1983 request of $182.5 million and FY 1984 request of $204.2 million for Other Ordnance Support Equipment is for various ordnance programs not budgeted under other sub-budget activities within this budget activity. Some of the major programs are Small Arms Ammo, Pyro and Demo Material, Fleet Mine Support, Quickstrike, Anti-ship Missile Decoy System and Spares and Repair Parts.

Small Arms Ammunition (P-1 Line Item 287)

($ IN THOUSANDS)	
FY 1983	FY 1984
$15,486	$13,943

This program provides for the procurement of small arms ammunition which covers a range of ammunition items up to and including 81MM rounds for active Naval vessels, US Coast Guard in accordance within the existing Interservice Logistics Support Agreements, and for a variety of special forces including: SEAL Teams; Mobile and Amphibious Construction Battalions; Fleet Combat Readiness Groups; Underwater Demolition Teams; Naval Security Groups; Marine Corps Hellicopters; and other special forces units.

Pyrotechnics and Demolition Material (P-1 Line Item 288)

($ IN THOUSANDS)	
FY 1983	FY 1984
$21,583	$25,230

This program provides for the procurement of pyrotechnic items to support surface, air, ground and underwater Navy requirements. These items consist of illumination, signalling, identification and location devices using a flare or smoke as the primary signalling agent. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search and rescue operations. The demolition materials consist of explosive devices and accessories required for Fleet units to perform training and service functions.

Fleet Mine Support (P-1 Line Item 292)

($ IN THOUSANDS)	
FY 1983	FY 1984
$22,260	$28,073

This program provides for the procurement of material and production support services for the assembly of mines in stockpile. The requirements for this program are of a continuing nature because the program supports repetitive needs of the Fleet, and the requirements for acceptance testing of components and systems are authorized in prior years. These funds will be used to support Fleet proficiency training, to support mine warfare and mine countermeasures training, and to improve stockpile mine performance.

Quickstrike (P-1 Line Item 293)

($ IN THOUSANDS)	
FY 1983	FY 1984
$32,874	$45,432

This program will provide for the procurement of service and non-service mines including the MK-57 Target Detecting Devices (TDD) and associated safety and arming devices which are compatible with existing bomb cases. The program also includes procurement of a new 2000 lb. MK-65 case.

Mine Neutralization Devices (P-1 Line Item 294)

($ IN THOUSANDS)	
FY 1983	FY 1984
$2,479	$2,847

The MK-77 MOD 0 Mine Neutralization Charge (MNC) and associated components is the United States adaption of the British Mine Disposal Weapon System. This system will provide the United States with a capability to neutralize bottom mines.

Anti-Ship Missile Decoy System (P-1 Line Item 295)

($ IN THOUSANDS)	
FY 1983	FY 1984
$11,933	$15,556

Anti-Ship Missile Decoy Systems are essential elements of the Anti-Ship Missile Defense program, which counters the threat of homing missiles. The FY 1983 request of $11.9 million continues the procurement of the MK-186 MOD 0 Torch Infrared Decoy. The FY 1984 request of $15.6 million begins limited procurement of NATO Sea Gnat decoys (Rapid-Fire, Infrared, and Hybrid), and completes procurement of the Torch decoy.

Production Facilities Equipment (P-1 Line Item 301)

($ IN THOUSANDS)	
FY 1983	FY 1984
$3,375	$3,465

Industrial facilities supported by this line item are both Government-owned, contractor-operated plants and Government-owned plants. The requirement for funds to support these activities is divided into several general categories: (1) Replacement, Restoration and Acquisition of Machine Tools and Other Production Equipment; (2) Capital Maintenance, Emergency Repairs and Fire Protection Improvements for Government-owned, contractor-operated ordnance plants; and (3) Gun System Depot Overhaul Point.

Spares and Repair Parts (P-1 Line Item 306)

($ IN THOUSANDS)	
FY 1983	FY 1984
$56,587	$77,549

The funds requested consist of $41.3 million in FY 1983 and $61.5 million in FY 1984 for initial spare parts to support new end items and $15.3 million in FY 1983 and $16.0 million in FY 1984 for replenishment spare parts consumed by the Fleet.

Other Ordnance Support (P-1 Line Items 289, 290, 291, 296, 298, 299, 300, 302, 302, 303, 304, and 305)

($ IN THOUSANDS)	
FY 1983	FY 1984
$15,960	$23,115

The funds requested support Explosive Ordnance Equipment ($1.6 million in FY 1983 and $4.2 million in FY 1984); Swimmer Weapons System ($2.6 million in FY 1983 and $2.8 million in FY 1984); Unmanned Seaborne Targets ($1.4 million in FY 1983 and $3.4 million in FY 1984); Defense Nuclear Agency Material ($2.0 million in FY 1983 and $4.1 million in FY 1984); Calibration Equipment ($1.4 million in FY 1983 and $2.1 million in FY 1984); Stock Surveillance Equipment ($2.2 million in FY 1983 and $3.1 million in FY 1984); Energy Conservation ($.9 million in FY 1983 and $1.0 million in FY 1984); Productivity Investment Ordnance ($.4 million in FY 1983); Other Ordnance Training Equipment ($2.2 million in FY 1983 and $1.5 million in FY 1984); SSP EOC Ordnance ($1.0 million in both FY 1983 and FY 1984); and SSIP LO-MIX Ordnance ($.2 million in FY 1983).

BUDGET ACTIVITY 5: CIVIL ENGINEERING SUPPORT EQUIPMENT

SUMMARY OF BUDGET PLAN

(In Thousands)

	Budget Plan (Amount for Procurement Actions Programmed)				
	1981 Actual	1982 Estimate	1983 Estimate	1984 Estimate	Justification Page
Civil Engineering Support Equipment	74,372	114,362	172,837	287,267	4-5-2
Total Budget Plan	74,372	114,362	172,837	287,267	

($ in Thousands)

FY 1984 Estimate -	287,267
FY 1983 Estimate -	172,837
FY 1982 Estimate -	114,362
FY 1981 Actual -	74,372

Budget Activity 5: Civil Engineering Support Equipment

Purpose and Scope of Work

Funds provided under this budget activity are for the procurement of passenger carrying vehicles, trucks and trailers, construction, earth roving, fire fighting, weight handling, amphibious and specialized equipment, combat construction equipment, telephone equipment, mobile utilities support equipment, fleet moorings, collateral equipment for the initial outfitting of Military Construction Projects, pollution control equipment, fleet hospitals and occupational safety and health equipment. This equipment is procured for Navy-wide use by the Shore Establishment and Operating Forces. In addition, equipment used for the construction of underwater facilities and public works shop equipment for three Construction Battalion Centers is provided for under this budget activity.

Justification of Funds

$74.3 million of the Fiscal Year 1983 request of $172.8 million provides for the medical core, medical support, and base support elements for one 250-bed and two 500-bed Fleet Hospitals in support of the Rapid Deployment Force; the FY 1984 program will procure medical core, medical support and base support units for four 250-bed Fleet Hospitals in support of the Rapid Deployment Force; offshore bulk fuel systems used to supply fuel to the Rapid Deployment Force, relocatable and pre-engineered structures used for berthing troops, warehousing and maintenance shops; camp support equipment such as water treatment and distribution systems, fuel systems and other specialized equipment necessary to support Maritime Prepositioning for the Rapid Deployment Force. In ten of the Civil Engineering Support Equipment (Rolling Stock) line items, the FY 1983 level of procurement results in a 46% retained overage inventory (27,653 units of a total of 60,515) at the end of the FY 1983 funded delivery period. The FY 1984 program will result in a 52% retained overage inventory (31,421 units of a total of 60,558) at the end of the FY 1984 funded delivery period. The remaining FY 1983 program procures Amphibious, Specialized and Combat Construction Equipment for the Naval Construction Force. This equipment is required to outfit Military Construction projects to provide emergency power and to support pollution abatement projects for the Naval Shore Establishment as defined in the following paragraphs.

($ in Thousands)	
FY 1983	FY 1984
$3,182	$3,494

Passenger Carrying Vehicles - (P-1 Line Item 307).

This category provides for Navy passenger carrying vehicles, which includes sedans, buses, and station wagons. The FY 1983 funds requested will provide for the replacement of 250 vehicles out of a total inventory of 4,699 and five (5) vehicles to augment the current inventory of passenger carrying vehicles. The FY 1984 program will provide for the replacement of 273 vehicles out of a total inventory of 4,699 with limited augmentation. This does not include ambulances which are addressed below.

($ in Thousands)	
FY 1983	FY 1984
$61,337	$84,214

Trucks, Trailers, Construction and Maintenance Equipment - (P-1 Line Items 308-316).

This category includes trucks, trailers, crushing equipment, drilling equipment, earth moving equipment, generators, fire fighting equipment and weight handling equipment for the Naval Construction Force, Naval Shore Activities, and various other Operational Forces. The FY 1983 funds requested will provide for the replacement of 1,282 trucks out of a total inventory of 33,602 and an additional 428 to augment the current inventory of trucks. The FY 1984 program will provide for the replacement of 2,397 trucks out of a total inventory of 33,635 with limited augmentation. In earth moving equipment, 108 units will be replaced out of a total inventory of 4,043. The 1984 program provides for 136 units of earth moving equipment out of a total inventory of 4,043. The Trucks Line includes replacement of 42 ambulances. In addition, $8.8 million provides for replacement and limited augmentation of 47 units of weight handling equipment in FY 1983 and $16.7 million for 93 units in FY 1984.

($ in Thousands)	
FY 1983	FY 1984
$6,738	$65,236

Amphibious and Specialized Equipment (P-1 Line Item 317) and Combat Construction Support Equipment (P-1 Line Item 318).

These funds are required to provide the Naval Construction Force with the equipment necessary to maintain a readiness to meet contingency requirements. Amphibious and Specialized Equipment to be procured in FY 1983 will include pontoon structures and other Amphibious Specialized Equipment. The FY 1984 program provides for powered causeways, sideloadable warping tugs and temporary containerized discharge facilities (TCDF) in addition to pontoon structures and other amphibious and specialized equipment. Included in the Amphibious and Specialized Equipment request is $1.9 million in FY 1983 and $36.9 million in FY 1984 for the Maritime Prepositioning Program and sealift enhancement in support of the Rapid Deployment Force. Combat Contruction Support Equipment consists of minor 2C cog non-USN numbered equipment and Navy Stock Account investment items for initial outfitting of the Operating Forces.

($ in Thousands)

FY 1983	FY 1984
$101,580	$134,323

Other Equipment - (P-1 Line Items 319-329).

Other programs in Budget Activity 5 include Collateral Equipment (FY 1983 $7,7 million and FY 1984 $8.6 million) which provides equipment and furnishings to initially outfit Military Construction projects and to replace investment items within the Naval Material Command for Personnel Support Facilities. The Mobile Utilities Support Equipment Program (FY 1983 $4.6 million and FY 1984 $4.2 million) provides power for emergency situations and other special circumstances. Modernization and expansion of Navy-owned telephone systems by replacing outmoded equipment that can no longer cope with increased traffic is funded at $1.4 million in FY 1983 and $1.5 million in FY 1984. Pollution control equipment (FY 1983 $3.0 million and FY 1984 $3.0 million) is for compliance with Clean Air Act Amendments, various Environmental Protection Agency Rules and Regulations and State Implementation Plans. Ocean Facilities Construction Equipment (FY 1983 $.8 million and FY 1984 $1.4 million) is associated with strategic deterrence, anti-submarine warfare and other fleet underwater construction programs. Fleet Moorings (FY 1983 $.1 million) provides funds to replenish reserve stock in FY 1983. The FY 1984 program ($2.7 million) provides for six mooring systems to accommodate four near term prepositioned ships scheduled to arrive in the Indian Ocean in FY 1985. Items less than $900,000 (FY 1983 $1.0 million and FY 1984 $1.7 million) includes $.2 million in FY 1983 and $.2 million in FY 1984 for Public Works Shop Equipment, $.4 million in FY 1983 and $1.1 million in FY 1984 for Administrative Equipment, $.1 million in FY 1983 and $.1 million in FY 1984 for Test Equipment and $.4 million in FY 1983 and $.3 million in FY 1984 for specialized inspection equipment. Repair parts (initial) (FY 1983 $2.1 million and FY 1984 $1.9 million) provides the initial outfitting of repair parts for Civil Engineering Support Equipment. Fleet hospital (FY 1983 $74.3 million and FY 1984 $107.1 million) provides medical support for Navy and Marine Corps personnel during rapid deployment force wartime operations. Productivity Investment Fund (PIF) provides $4.5 million for the procurement of mini-computers in FY 1983 for the Public Works Departments or 70 Naval shore activities. Occupational Safety and Health Equipment (FY 1983 $2.1 million and FY 1984 $2.4 million) is for the correction of occupational safety and health deficiencies at Naval Shore activities.

BUDGET ACTIVITY 6: SUPPLY SUPPORT EQUIPMENT
SUMMARY OF BUDGET PLAN
(In Thousands)

	Budget Plan (Amounts for Procurement Actions Programmed)				
	1981 Actual	1982 Estimate	1983 Estimate	1984 Estimate	Justification Page
Supply Support Equipment	68,726	75,921	91,164	118,407	4-6-2
Total Budget Plan	68,726	75,921	91,164	118,407	

Budget Activity 6 - Supply Support Equipment

($ in Thousands)

FY 1984 Estimate - 118,407
FY 1983 Estimate - 91,164
FY 1982 Estimate - 75,921
FY 1981 Actual - 68,726

Purpose and Scope of Work

This activity finances the procurement of forklift trucks and other materials handling equipment used at Navy installations and aboard ships, automated materials handling systems, investment type support equipment, productivity enhancing equipment, microfilm systems, and pollution control equipment. In addition, financing for certain classified projects is included in this activity.

Justification of Funds

Forklift Trucks - (P-1 Line Item 330)

($ in Thousands)

FY 1983	FY 1984
24,099	31,329

These funds are requested to procure 944 forklift trucks in FY 1983 and 1,093 forklift trucks in FY 1984 which are needed to meet the supply support requirements both of ships and of all Navy logistics facilities. As of the end of the FY 1982 funded delivery period, 33 percent of the total inventory of forklift trucks will be overage, based on a standard life expectancy of 11 years. The overage inventory developed because, in past years, funding was inadequate for replacing these trucks in a manner consistent with DoD criteria. The condition of the current inventory severely undermines overall mission capability and performance. The FY 1983 request is the eighth increment in a 10-year phased replacement program which was initiated by the Navy in FY 1976. The FY 1983 procurement will result in the inventory overage status being 27 percent by the end of the delivery period vice the goal of 20 percent overage.

Other Materials Handling Equipment - (P-1 Line Item 331)

($ in Thousands)

FY 1983	FY 1984
2,313	3,978

The FY 1983 request represents the ninth increment of a phased equipment replacement program to attempt to reduce the significant level of overage warehouse tractors, cranes and other equipment in the inventory. The requested FY 1983 program increases the level of overage equipment in the inventory to 46 percent ashore and 4 percent afloat. Block obsolescence occuring during the FY 1[illegible] and FY 1983 periods prevents significant overage reduction.

Budget Activity 6 - Supply Support Equipment

Automated Materials Handling Systems - P-1 Line Item 332)

($ in Thousands)	
FY 1983	FY 1984
24,350	33,155

The requested funds will provide for the installation of four Navy Integrated Storage Tracking and Retrieval Systems (NISTARS). The NISTARS system automates certain warehouse functions and places the entire warehouse operation under positive management control and automation. It will improve the efficiency of labor and materials, and accommodate increased tempos of operation without commensurate increases in personnel. This system will produce sizable savings as well as dramatically improve supply support responsiveness. FY 1984 also requests funding for mechanized materials handling systems at two activities to replace current labor-intensive manual operations.

Productivity Investment Fund (PIF) - (P-1 Line Item 333)

($ in Thousands)	
FY 1983	FY 1984
4,655	-

These funds will provide twelve labor saving, cost reducing, fast pay-back systems at various Navy and Marine Corps activities in FY 1983.

Navy Productivity Program (COORI) - (P-1 Line Item 334)

($ in Thousands)	
FY 1983	FY 1984
6,726	-

These funds will provide two labor saving, cost reducing, fast pay-back systems at Navy activities in FY 1983.

Support Equipment - (P-1 Line Item 335)

($ in Thousands)	
FY 1983	FY 1984
5,988	8,475

This request is for the replacement of investment-type support equipment. Included are duplicating (quick copy) equipment and many types of shop and office equipmnt for which repairs are no longer feasible.

Budget Activity 6 - Supply Support Equipment

Pollution Control Equipment - (P-1 Line Item 336)

($ in Thousands)	
FY 1983	FY 1984
2,703	4,142

This request is for pollution control equipment to be installed at thirteen bulk fuel installations. These projects provide equipments which give fuel operators a comprehensive monitoring and control system and alarms which will respond to significant fuel level changes, permitting rapid response to problems such as oil spills. As most fuel terminals are located in environmentally sensitive areas near large bodies of water, any oil spill would generate considerable adverse publicity and a costly clean-up effort.

Special Activities - (P-1 Line Item 337)

Classified justification is provided separately.

($ in Thousands)	
FY 1983	FY 1984
16,074	17,818

Special Support Activities - (P-1 Line Item 338)

Classified justification is provided separately.

($ in Thousands)	
FY 1983	FY 1984
4,256	4,094

Other Support Activities - (P-1 Line Item 339)

Classified justification is provided separately.

($ in Thousands)	
FY 1983	FY 1984
-	2,554

Supply Test Equipment - (P-1 Line Item 340)

Classified justification is provided separately.

($ in Thousands)	
FY 1983	FY 1984
-	12,362

BUDGET ACTIVITY 7: PERSONNEL AND COMMAND SUPPORT EQUIPMENT

SUMMARY OF BUDGET PLAN

(In Thousands)

	Budget Plan (Amounts for Procurement Actions Programmed)				
	1981 Actual	1982 Estimate	1983 Esimate	1984 Estimate	Justification Page
Training Devices	59,771	45,533	53,694	125,080	4-7-1
Command Support Equipment	91,278	106,989	127,508	203,685	4-7-14
Computer Acquisition Program	39,965	58,258	74,689	95,163	4-7-19
Total Personnel and Command Support Equipment	191,C14	210,780	255,891	423,928	
Total Budget Plan	191,014	210,780	255,891	423,928	

Other Procurement, Navy
BUDGET ACTIVITY 7:

PERSONNEL AND COMMAND SUPPORT EQUIPMENT

FY 1981 Estimate - 191,014
FY 1982 Estimate - 210,780
FY 1983 Actual - 255,891
FY 1984 Actual - 423,928

PURPOSE AND SCOPE OF WORK

This activity funds the procurement of training aids and devices, scientific and technical equipment, industrial shop equipment, data processing equipment and other general support equipment for headquarters operations and cognizant field activities not provided for in the previous budget activities of this appropriation. Operating forces and shore activities of fleet commands, training activities and schools, including the U.S. Naval Academy, are included in this activity.

JUSTIFICATION OF FUNDS

TRAINING DEVICES

DEVICE 14A2 SERIES SIMULATORS (P-1 Line Item 341)

($ in Thousands)

FY 1983	FY 1984
507	-0-

$ .5M in FY 1983 is required to meet modification requirements for Device 14A2 series simulators. These devices, orginally procured in the 1960-1970 period, support Anti-Submarine Warfare (ASW) team training primarily for FF 1052 Class ships. Changes in fleet tactics, ship types, weapons, sonars, and underwater fire control systems have caused a buildup of changes which must be effected to bring the 14A2 series configuration and training characteristics into consonance with fleet configurations. Update effort will modify individual 14A2 devices to improve their compatibility with current fleet configurations.

SUBMARINE ADVANCE REACTIVE TACTICAL TRAINING SYSTEM (SMARTTS) (P-1 Line Item 345)

($ in Thousands)	
FY 1983	FY 1984
-0-	3,876

$3.9M in FY 1984 is required to provide a Submarine Advance Reactive Tactical Training System (SMARTTS). The system will realistically generate real-time dynamic antisubmarine warfare training scenarios based on known weapon system capabilities, operational environment conditions and tactical guidelines of United States and potential threat forces. This capability will duplicate, in software, a model of the tactical doctrine for each available United States and potential adversary platform for typical tactical encounters between the respective platforms. The trainer will simulate nominal levels of competence by each platform to react to a variety of situations using standard doctrine and typical exceptions of departures from standard doctrine which are to be used under different mission priorities. In addition, accommodation will be made to evaluate performance and diagnostic placement of individuals and teams within the submarine fire control party environment in the submarine combat system trainers.

ADVANCED VISUAL ELECTRO-OPTIC SENSOR SIMULATOR (AVEOSS) (P-1 Line Item 346)

($ in Thousands)	
FY 1983	FY 1984
-0-	6,443

$6.5M in FY 1984 will procure Device 21B66, an Advanced Visual/Near Visual Electro-Optic Sensor Simulator (AVEOSS). This simulator enables submarine personnel to make correct tactical decisions thus allowing detection of electromagnetic energy which will be displayed and analyzed for submarine Approach Officers (AO) and Officers of the Deck (OOD) for use in further analyzing the tactical environment. The conduct of tactical evolutions requires the utilization of the submarine, with its periscope and electromagnetic sensors, as an integrated weapon system. The AVEOSS system will provide Attack Center training devices with a simulated sensor package which will include simulated low-light level television and impaired optical data along with scenario-correlated electronic surveillance measures intercept data.

PERRY CLASS PIERSIDE TRAINER (P-1 Line Item 347)

($ in Thousands)	
FY 1983	FY 1984
18,072	18,538

$18.1M in FY 1983 and $18.5M in FY 1984 will procure Device 20B5 - Perry Class Pierside Combat System Team Trainer (PCPSTT). The device will provide pierside training in tactical combat operations for Combat Information Center (CIC) and Sonar Control Room personnel of the FFG-7 ships. The Device consists of two basic elements (1) monitor equipment and (2) a carry-on complement of interface equipments allowing data/signal sampling and injection interface with on board sensors and weapon control systems. The tactical environment including air, surface, and subsurface threat conditions will be presented to the combat system teams through stimulation of on board sensor systems and by providing representative external tactical data. Weapon control systems will be sampled, and the weapon trajectory and resultant damage assessment will be modeled with appropriate weapon system status signals generated to drive operator display equipment.

TACTICAL ACTION OFFICER (TAO) TRAINER (P-1 Line Item 349)

($ in Thousands)	
FY 1983	FY 1984
-0-	7,867

$7.9M in FY 1984 will procure Device 20F16A - Tactical Action Officer (TAO) Trainer. The TAO Trainer is a decision-making trainer used by students in the Fleet Combat Training Centers Pacific and Atlantic (FLECOMBATRACENs). Each trainer will include twelve stations. Two students or an instructor will man each station with one student functioning as TAO and the other implementing TAO decisions via an input/output device. Each station includes two radio-telephone tactical and instructor communications circuits. Instructors may change parameters of targets opposing students and the tactical environment as well as assess student performance. Trainer software will provide dynamic data, information and feedback requiring tactical combat systems decisions. It will be possible to conduct single ship or multi-ship tactical operations. One 12-station trainer will be installed at each of the FLECOMBATRACENs.

DEVICE 15F12 RADAR NAVIGATION TRAINER (P-1 Line Item 350)

($ in Thousands)	
FY 1983	FY 1984
-0-	5,705

The Radar Navigation Trainer provides a means to teach surface ship Combat Information Center teams and radar watchstanders radar scope interpretation and contact tracking techniques, capable of simulating the effects of a surface search radar with preselectable parameters, and specific geographic areas displaying radar representations of landmass peculiar to each training area. $5.7M in FY 1984 is required to procure the Submarine Navigation and Piloting (SNAP) Team Trainer which converts the basic generalized Radar Navigation Trainer into a submarine-peculiar navigation and piloting team trainer capable of training both surface and submerged navigation and piloting techniques. The modification consists primarily of computer hardware and software to control and simulate additional navigation data equipment available on today's submarines. Additional equipment simulated will include Omega, Ships Inertial Navigational Systems (SINS) and Satellite navigation equipment display units, a simulated submarine helm station, and a Computer-Generated-Image (CGI) night visual scene generator to supply simulated calligraphic (dusk to dawn) visual navigation data. Device 15F12A will be equipped with three plotting stations, two radar stations, one electronic navigation station and a periscope station, and will be located at the Fleet Antisubmarine Warfare Training Center, Dam Neck, VA.

COMBAT SYSTEM TRAINERS (P-1 Line Item 352)

($ in Thousands)	
FY 1983	FY 1984
3,192	10,670

The Submarine Combat System Team Trainer (SCSTT) Device 21A38A and the Generalized Fire Control Operator Trainer, Device 21B63, are currently configured to support training on Fire Control System (FCS) MK 117 Program B. The FY 1983 $3.2M will convert these trainers to program C Combat Control System (CCS) MK-1 capability at Naval Submarine Training Center, Pacific. Trainer upgrade will consist of revising the trainer software to support CCS MK-1 training, converting the trainer simulation computer (AN/UYK-7) to double density memory, modifying existing interface and input/output equipment and deleting some MK-117 FCS system hardware. The trainers will then support training in the employing of the TOMAHAWK cruise missile, using over-the-horizon (OTH) targeting data, and employing the AN/BQQ-5B sonar system in tactical situations.

$10.7M in FY 1984 is to procure Device 21A40 Series, Submarine Combat Team Trainer CCS-MK 1 update to the 21B63/21B63A Operator Trainers at Naval Submarine School (NAVSUBSCOL) New London, reconfiguring the trainers to a 21A43F for CCS-MK 1 TOMAHAWK/OTH operator training. The program will update the existing MK-113/10 and MK-117 Underwater Fire Control System (UFCS) operational systems to the CCS-MK 1 and provide the restructured computer system input/output consoles and Generalized Stimulation Simulation (GSS) Software. In addition, Device 21A43/4 Submarine Combat System Team Trainer, Attack Center (AC/4) (MK-113/10) will be updated to a 21A43 reconfiguration (21A43H), with AC3 updated to the SSBN MK-113/11 UFCS. The 21A43H will provide submarine combat control system training and be capable of interfacing with a Device 21B64 series AN/BQQ-5 series Sonar Team Trainer to provide tactical team training for both sonar and combat control systems.

ADVANCED FIREFIGHTING TRAINERS (P-1 Line Item 354)

($ in Thousands)	
FY 1983	FY 1984
-0-	3,068

$3.1M in FY 1984 is to procure Device 19F1 - Surface Advanced Firefighting Simulator. Device 19F1A will produce 15 computer-controlled training fires by using burning propane gas to represent either Class A, B, C, or D type fires in fireplaces and in an environment that approximates that which is on board a surface ship. The trainer will produce fires that are realistic in respect to situations, fire characteristics, flame parameters and fire extinguishment. The fires will respond to simulated extinquishing agents in the same fashion as a fire on board a ship. Life support sytems, either real or sirulated, will be required to provide for realsitic training. Non-toxic, non-polluting smoke will be provided and introduced at specific points during the fire scenario under instructor/curriculum control. Safety consideration will permit visual monitoring, rapid shutdown, auto shutdown by sensors, and an engineered failsafe system to preclude injury to personnel.

DEVICE 21864 AN/BQQ-5 SONAR OPERATOR/TEAM TRAINER (P-1 Line Item 355)

($ in Thousands)	
FY 1983	FY 1984
3,907	6,213

$3.9M in FY 1983 and $6.2M in FY 1984 will procure Device 21864 - Submarine Acoustic Trainers. The trainers will simulate the digital data processing and graphic displays of the AN/BQQ-5A/B/C sonar system in an ocean environment, and will provide individual operators and operator team training ashore. The trainer will provide a method for maintaining team proficiency in stand-alone mode or in combined mode with Device 21A series attack trainers.

FIRE CONTROL/3D SEARCH RADAR TRAINER (P-1 Line Item 357)

($ in Thousands)	
FY 1983	FY 1984
-0-	1,933

$1.9M in FY 1984 will procure Device 11020 - Fire Control and Search Radar Maintenance Trainer. This device incorporates actual or simulated components of fire control and search radars prevalent aboard fleet ships. The trainer will include or simulate such characteristics as frequency agility, variable pulse repetition rate, variable pulse width, pulse compression ratio, multistage transmitter, double conversion, digitial circuitry, Electronic Counter Counter Measures features: range, azimuth and elevation tracking; moving test targets, doppler processing, and error detection circuitry. Emulating modern technology, major components will include an exciter, transmitter, antenna, receiver, video processor, computer, synchronizer, control panel, fault insertion control panel, and power supply. The trainer will provide realistic experience for students during Phase II of the Fire Control Technician (FT) Class "A" School at Great Lakes in the preventive and corrective maintenance procedures and tasks required in maintaining fire control radar systems aboard ships.

DEVICE 21C7 SUBMERGED SHIP CONTROL TRAINER (P-1 Line Item 358)

($ in Thousands)	
FY 1983	FY 1984
932	-0-

$.9M in FY 1983 will procure Device 21C7 - Multi-Class Advanced Submerged Ship Control Trainer. This device provides motion simulation training for the following classes of submarines: SSN 608, SSN 637 (long hull), SSN 594 and SSN 688. The device will consist of a gimbal-mounted cab where the simulated diving station and Ballast Control Panel (BCP) of a submarine are located; a computer, together with the associated input/output equipment; and an instructor's console. The computer will generate motion of the simulated submarine, based on student inputs and provide outputs to the various instruments and indicators. The trainer will be used to teach both normal and emergency ship control procedures.

OUTBOARD OPERATOR TRAINER (P-1 Line Item 359

($ in Thousands)	
FY 1983	FY 1984
-0-	5,377

$5.4M in FY 1984 will procure an Outboard Operator/Team Trainer (Device 7B4). Selected surface ships will receive new systems designated OUTBOARD to assist in detecting, identifying and tracking non-radar surface and airborne targets which are a threat to the force. Personnel assigned to this system will augment ship combat systems teams. The trainer will consist of a mockup of the OUTBOARD spaces and be electronically integrated with selected Navy Tactical Data System Combat Information Center mockups and other teams in simulated at-sea exercises within the Fleet Combat Training Center (FLECOMATRACEN) Tactical Advanced Combat Direction System and Electronic Warfare complexes. The trainer will include operationally equivalent operator consoles for System Supervisor, Directional Finder Operator, High Frequency, Very High Frequency Operators (3), and Caliper Operator.

DEVICE 20B4 COMBAT SYSTEM TEAM TRAINER/SLQ-32 MODIFICATION (P-1 Line Item 360)

($ in Thousands)	
FY 1983	FY 1984
1,119	920

$1.1M in FY 1983 and $.9M in FY 1984 will procure Device 20B4 - Mobile Combat Systems Trainer modification (AN/SLQ-32). This device is a pierside combat system team trainer which is used for refresher team training for combat systems personnel. The trainer provides a broad range of simulated combat scenarios in a realistic tactical setting by stimulating (from a pierside van) the combat systems equipment installed aboard ship, including shipboard radar, Identification Friend or Foe equipment and the Electronic Warfare (EW) sensors. The trainer generates the appropriate threat characteristics of up to 32 independent targets, including surface ships, aircraft, missiles and decoys. The AN/SLQ-32 Countermeasures System is a new concept in shipboard electronic warfare systems which provides automatic threat surveillance, detection and classification of hostile missile and launch platforms. The system will enhance a ship's self-defense against anti-ship missiles, or other weapons with similar radio frequency characteristics, by providing an improved early warning capability throughout the anticipated frequency ranges.

LAMPS UNIVERSAL SQQ-89 SONAR MAINTENANCE TRAINER (P-1 Line Item 361)

($ in Thousands)	
FY 1983	FY 1984
-0-	9,403

$9.4M in FY 1984 is required to procure a Universal/AN/SQQ-89 Sonar Maintenance Trainer. This multi-sensor system is designed to provide improved detection, classification, localization and tracking capabilities in both active and passive modes against threat submarines and over-the-horizon ships. The trainer supports organizational level maintenance training for three individual systems: the AN/SQQ-28, AN/SQR-19, and AN/SQS-53 sensor systems. The trainer suite will provide basic diagnostic training for Sonar operators in locating faults in digital processing equipment and is comprised of selected portions of shipboard operational equipment, simulation/stimulation equipments, a simulation computer, and appropriate instructional control capabilities.

NAVAL TACTICAL GAME (NAVTAG) TRAINING SYSTEM (P-1 Line Item 363)

($ in Thousands)	
FY 1983	FY 1984
1,678	2,485

$1.7M in FY 1983 and $2.5M in FY 1984 will procure 30 Device 16H3 - Naval Tactical Game (NAVTAG) Training Systems. The NAVTAG trainer will be used on board ships to provide officers an opportunity to enhance through practice, the skills and knowledge associated with tactics and tactical decision making. For the more experienced officer, the NAVTAG Training System will provide an opportunity to refresh his tactical skills. Thirty ships will be equipped with Device 16H3 during FY 1983. These will include combatants from all major commands in the U.S. Navy.

AN/SQR-18 OPERATOR/TEAM TRAINER (P-1 Line Item 364)

($ in Thousands)	
FY 1983	FY 1984
-0-	3,942

$3.9M in FY 1984 is required to procure an AN/SQR-18A Operator/Team Trainer. The Trainer will consist of a trainee station comprised of the AN/SQR-18A Control Indicator Government Furnished Equipment (GFE), other selected components of the AN/SQR-18A GFE, interface(s) with the 14A2 Series device, simulation/stimulation equipment (including one or more components and computer peripheral equipments) and an Instructor's Station. The trainer will operate independently and also in a joint mode with a 14A2 Series device. The device will provide training for AN/SQR-18A operators in; detecting, classifying and tracking targets; training operators to interactively coordinate their efforts with those operating other own-ship sonars, the acoustic processor, and Electronic Surveillance Measures gear; training sonar supervisors, Antisubmarine Warfare evaluators and other key members of the Combat Information Center team in comparing and evaluating data obtained from the AN/SQR-18A against data received from other own ship sensors.

LAMPS OPERATOR TEAM TRAINER (P-1 Line Item 365)

($ in Thousands)	
FY 1983	FY 1984
-0-	7,722

$7.7M in Fy 1984 will procure Device 14E35 - LAMPS MK III AN/SQQ-89 Training System, which is a multi-sensor system providing improved detection, classification, localization and tracking capabilities in both active and passive modes against threat submarines and over-the-horizon ships. Secondary missions include anti-ship surveillance and targeting, communications relay, search and rescue, medical evacuation, and vertical replenishment. The AN/SQQ-89 Acoustic Operator Trainer will provide training in equipment operation, data acquisition/interpretation and utilization in Tactical Combat exercises. The AN/SQQ-89 Trainer is comprised of the AN/SQQ-28, AN/SQR-19, and AN/SQS-53 sonars and will support operator training for these sonar systems, as well as team training when integrated into the FFG-7 and DD-963 mockups at the Tactical Advanced Combat Direction System and Electronic Warfare complexes. It will also support operator and combat system team training in operation, utilization and tactical application in the Antisubmarine Warfare modes of the system. The trainers will consist of selected components of the shipboard operational equipments, simulation/stimulation equipments, a simulation computer and appropriate instructional control capabilities.

AN/SQS-26 SONAR TRAINER (P-1 Line item 366)

($ in Thousands)	
FY 1983	FY 1984
-0-	5,111

$5.1M in FY 1984 is required to modify Devices 14E25/A. The program will entail the modification of seven 14E19's, one 14E25, and two 14E25A's. The seven 14E19's and one 14E25 will be modified to reflect the operational characteristics of the AN/SQS-26(CX) as updated by the Quick Reaction for Fleet Improvement (QRFI). The 14E25A's and the 14E25B trainers will have their operational characteristics updated to reflect the current operational characteristics of the AN/SQS-53A. The QRFI update-modifications will not be included in the latter three devices.

BASIC SONAR OPERATOR TRAINER (BSOT) (P-1 Line Item 367)

($ in Thousands)	
FY 1983	FY 1984
-0-	4,190

$4.1M in FY 1984 will procure Device 14E31D - Basic Sonar Operator Trainer (BSOT), configured to represent three AN/UYQ-21 operator consoles, and one computer control with each console designed to be semiportable. Since the AN/UYQ-21 is a general purpose console to be used with a variety of sonar and fire control systems, this version of BSOT will be capable of training operators for any AN/UYQ-21 system. The procurement will provide training capability for training the AN/SQS-53, AN/SQR-19 and AN/SQQ-28 sonar systems.

INITIAL SPARES (P-1 Line Item 368)

($ in Thousands)	
FY 1983	FY 1984
3,004	2,912

$3.0M in FY 1983 and $2.9M in FY 1984 is required to procure Spare Parts (Initial Outfitting and Initial System Stock). Initial System Stock (ISS) provides spares/repair parts which are expected to be needed to support an end item for that period of time that extends from the Navy support Date until full support responsibility can be assumed by the supply system for routine replenishment. Initial Outfitting provides the supporting items needed to meet initial authorized on-board allowance material as set forth in training equipment allowance lists, for 90-days support.

TRAINING SUPPORT EQUIPMENT (P-1 Line Item 369)

($ in Thousands)

FY 1983	FY 1984
14,079	8,024

$14.1M in FY 1983 and $8.0M in FY 1984 is required to procure Training Support Equipment (TSE) consisting of minor training aids and devices and logistic support equipment to support the education and training programs to supply the fleet with effectively trained personnel. The TSE supports the mission of the Naval Education and Training Command, the U.S. Naval Academy, and the Naval War College. Equipments are screened for (1) safety, (2) operational necessity, and (3) resource savings (manpower, material, etc.).

TRAINING DEVICE MODIFICATIONS (P-1 Line Item 370)

($ in Thousands)

FY 1983	FY 1984
4,743	6,086

$4.7M in FY 1983 and $6.1M in FY 1984 is required to modify training devices (excluding Government Furnished Equipment) currently in use at shore training activities to keep them compatible with equivalent changes made to fleet operational equipments which these devices simulate.

SYS-1 TRAINER (P-1 Line Item 371)

($ in Thousands)	
FY 1983	FY 1984
1,156	-0-

$1.2M in FY 1983 will procure Device 20F15B'8, an Automatic Radar Tracking Trainer which incorporates the automated tracking functions of the AN/SPS-48C Radar into the Tactical Advanced Combat Direction System and Electronic Warfare complex at Fleet Combat Training Center, Atlantic (FLECOMBATRACENLANT), Dam Neck. The installation will be capable of selectively presenting AN/SPS-48C automatic detect and track capabilities in five mockups. AN/SPS-48C, Automatic Detection and Tracking (ADT), will be provided by AN/UYK-20 simulation computers, which simulate the functions of the AN/SPS-48C ADT, and will be displayed on a selected OJ-194 console in each of five TACDEW mockups. The simulation computer will interface with the AN/SPS-48C ADT Control Monitor Group mounted adjacent to the OJ-194s receiving the ADT display, and will interface with the TACDEW Master Simulation Program to provide correlated video displays in each mockup.

TACTICAL ADVANCED COMBAT DIRECTION SYSTEM AND ELECTRONIC WARFARE (TACDEW) TRAINING (P-1 Line Item 373)

($ in Thousands)	
FY 1983	FY 1984
-0-	4,695

The Tactical Advanced Combat Direction System and Electronic Warfare (TACDEW) training complexes located at the Fleet Combat Training Centers, Atlantic and Pacific (FLECOMBATRACENLANT/PAC) provide facilities for integrated combat direction system team training. Continuing requirements for integrating new combat system capabilities mandate a complete system redesign to maintain the training value of the system. Prototype of the modified system is being developed at the FLECOMBATRACENPAC. $4.7M in FY 1984 will provide an upgraded TACDEW complex at Fleet Combat Training Center, Atlantic. The following independent stand-alone capabilities will be produced by this modification effort: redesigning the Master simulation Program (MSP), replacing obsolete MSP host computer systems with modern computation equipments, selectively replacing target generation/radar simulation equipments to maintain fidelity of simulation and redesigning/replacing problem control and evaluation facilities and equipment.

CLOSE IN WEAPON SYSTEM (CIWS) MAINTENANCE TRAINER (P-1 Line Item 374)

($ in Thousands)	
FY 1983	FY 1984
-0-	1,321

$1.3M in FY 1983 will provide MG1A1 gun assemblies that are required to support the MK-15 Close In Weapon System (CIWS) Device 11G2. This maintenance training device consists of a general purpose programmable trainer with eight special simulation systems. Each simulation system consists of a display panel, a preprogrammable magnetic tape disk, and a random access visual display.

COMMAND SUPPORT EQUIPMENT

COMMAND SUPPORT EQUIPMENT (P-1 Line Item 375)

($ in Thousands)	
FY 1983	FY 1984
12,197	13,096

This item provides for procurement of general support equipment required by Command Activities, not otherwise provided for within the appropriation structure. This includes administrative and financial support equipment. This request provides support for the following Command Activities and their worldwide stations:

	($ in Thousands)			
	FY 1981	FY 1982	FY 1983	FY 1984
Office of the Secretary of the Navy	585	1,297	481	660
Office of the Chief of Naval Operations	2,342	3,984	3,319	3,580
Bureau of Naval Personnel	8,804	8,241	7,278	7,748
Naval Telecommunications Command	246	259	267	283
Naval Investigative Service	885	441	852	825
TOTAL	12,862	14,222	12,197	13,096

MEDICAL SUPPORT EQUIPMENT (P-1 Line Item 376)

($ in Thousands)

FY 1983	FY 1984
30,835	27,132

$28.8M in FY 1983 is requested for acquisition of medical and dental equipment in support of direct health care delivery. These funds will support 23 regional medical centers, 8 hospitals, 8 regional medical clinics, 6 branch hospitals, 23 regional dental centers, 10 specialized medicine units, 5 training facilities, and 2 Headquarters units which together with their branch facilities comprise 382 individual activities. Funds are requested to replace existing worn-out, obsolete assets and to provide for the acquisition of new technological developments for a modern health care delivery system. This request contains $2.9M for additional equipment to support health care for an expanded active duty force of the Navy and Marine Corps including their dependents. In addition, this request will allow reduction of the $15.6M backlog of medical equipment at the end of fiscal year 1982 by $2.5M.

Technology improvements have been dynamic in the past few years especially in x-ray laboratory and monitoring equipment. The sophistication of this equipment coupled with inflation has resulted in a 100-200 percent increase in cost per unit of equipment from 1969 to this date. The x-ray and automated laboratory equipment are the state-of-the-art equipment recognized by the profession as minimum requirements.

Clinical medicine equipment represents that equipment which is utilized in every ward, clinic and doctor's office, and represents items such as monitoring systems, anesthesia machines, examination tables, electrocardiographs, etc.

Dental equipment expenditures have increased over the past four years due to transfer of dental facilities to Bureau of Medicine and Surgery management control. Many of these activities were operating with assets over 20 years old. This budget continues the replacement of this old equipment with modern dental equipment capable of supporting newer techniques in dentistry.

Industrial medicine equipment requirements account for $.9M of this budget request. Compliance with occupation/industrial health regulations require new levels of workplace testing and personnel monitoring to identify hazardous conditions and examine personnel exposed on a frequent and routine basis. These requirements are designed to contain the high cost of disability claims and result in greater workforce productivity.

$1.1M to replace outdated medical and dental equipment aboard ships is included based on comprehensive surveys and readiness reports of those operating units.

INTELLIGENCE SUPPORT EQUIPMENT (P-1 Line Item 377)

($ in Thousands)	
FY 1983	FY 1984
23,964	55,280

This line item funds equipment needed for the Naval Intelligence Command and its field activities. It is a part of the General Defense Intelligence Program (GDIP) requirements. A total of $9.0M of the FY 1983 program is dedicated to continuation of the intelligence collection efforts. The balance of $15.0M will be utilized to procure laboratory and support equipment to ensure that our capability to analyze sensor data is compatible with our capability for collecting it. Further information on this program is classified. Additional details on this procurement request are contained in the Intelligence Justification Books being provided separately.

OPERATING FORCES SUPPORT EQUIPMENT (P-1 Line Item 379)

($ in Thousands)	
FY 1983	FY 1984
10,738	16,099

The requested funds will provide for procurement of general support equipment required by shore activities and forces afloat under command of the fleet claimants. Organizations funded include the Commanders-in-Chief, U.S. Atlantic and Pacific Fleets and the Commander-in-Chief, U.S. Naval Forces, Europe.

NAVAL RESERVE SUPPORT EQUIPMENT (P-1 Line Item 380)

($ in Thousands)

FY 1983	FY 1984
6,622	5,517

This budget request reflects Naval Reserve collateral equipment for Air and Surface Reserve activities located throughout the United States.

ENVIRONMENTAL SUPPORT EQUIPMENT (P-1 Line Item 381)

($ in Thousands)

FY 1983	FY 1984
5,087	6,965

This request provides for the procurement of scientific, technical and related (undersea) survey equipment used by the Oceanographer of the Navy in the collection, processing, and analysis of acoustical, geophysical, bathymetric, and navigational data through coastal and deep ocean surveys. These surveys provide the data with which undersea craft, whether they be employed as strategic deterrent or anti-submarine forces, can precisely navigate without relying upon vulnerable electronic navigation systems.

PRODUCTIVITY ENHANCING INCENTIVE FUND (P-1 Line Item 382)

($ in Thousands)	
FY 1983	FY 1984
3,064	3,048

The object of this effort is to increase productivity and decrease operating costs at local commands by providing a means for direct and immediate acquisition of capital investment items.

Attempts at investments for productivity improvement, particularly in areas with fast payback capital return potential, have traditionally been submerged due to administrative controls which preclude timely actions to exploit that potential. As a result, substantial gains in productivity were lost. To rectify this and to provide for productivity growth, OSD has directed the Navy to maintain a productivity enhancing investment account to fund fast payback capital investment proposals initiated by local commands. All projects will provide real savings to achieve payback within two years.

MANUFACTURING TECHNOLOGY (P-1 Line Item 383)

($ in Thousands)	
FY 1983	FY 1984
33,830	45,984

Manufacturing Technology (MT) is the technology advance that results from investigative efforts directed toward manufacturing productivity improvements. The objective of the MT program is reduction of weapon system procurement costs. The program consists of several individual projects selected primarily on the basis of return investment, although breadth of application, time phasing, and application priority are also considered. In addition to reducing the cost of weapon systems acquisition, the MT program is expected to provide substantial commercial benefits enhancing the competitiveness of US industry in the international marketplace. Dissemination of these technologies to industry is provided by their involvement in the conduct of the projects; by informational exchange in cooperation with the Department of Commerce, and by the participation of Industry Associations in the DOD sponsored Manufacturing Technology Advisory Group.

PRODUCTIVITY INVESTMENT FUND (PIF) (P-1 Line Item 384)

($ in Thousands)

FY 1983	FY 1984
1,171	30,564

Funds in this program support a productivity enhancing ADPE program. The program is the Logistics Marking and Reading Symbology (LOGMARS) which is a standard bar code and scanning device. Logistics information like item identification numbers and inventory location numbers will be read using optical scanning devices. The range of uses include inventory management, material receipt and issue, and tracking or components through the repair process. The use of this equipment will result in greater accuracy and productivity at Navy supply activities.

COMPUTER ACQUISITION PROGRAM

COMPUTER ACQUISITION PROGRAM (P-1 Line Item 385)

($ in Thousands)

FY 1983	FY 1984
16,963	7,673

The Computer Acquisition Program (CAP) was established for automatic data processing equipment (ADPE) procurement and management, thus avoiding the proliferation and duplication of functional systems, excessive expenditure of time and money on system maintenance, failure to capitalize on automatic data processing (ADP) technology, and failure to control ADP growth which characterized decentralized procurement.

$3.4 million is to procure additional computer core memory, minicomputer systems, card readers, punches, tape drives, terminals, and microcomputers to support the Commander-in-Chief, U.S. Pacific Fleet shore and afloat activities. This equipment will replace and upgrade old equipment to meet current administrative, financial, and logistics processing requirements.

$1.2 million is for hardware purchases for the TRIDENT Refit Facility, Bangor, Washington and for TRIDENT requirements at the Naval Supply Center, Puget Sound. The equipment includes the lease to purchase conversion of a B-4800 computer system and an electronic page printer.

$1.1 million is to procure minicomputer systems, microcomputers, replacement PCAM equipment, programmable calculators, plotters and terminals to support the Commander-in-Chief, U.S. Atlantic Fleet shore and afloat activities. This equipment will replace and upgrade old equipment to meet local current administrative, financial, and logistics processing requirements.

$1.1 million provides ADP equipment for activities under the Chief of Naval Education and Training. This equipment includes additional computer memory, minicomputers, microcomputers, and data entry devices, a computer graphics system, remote batch terminals, and tape drives.

$1.0 million is required by the U.S. Naval Academy for a Disk Storage Subsystem, minicomputers, disk drives, terminals and two display terminals for simultaneous use from a single graphics processor. This equipment will replace and upgrade old obsolete equipment and expand student participation and use.

$.8 million is to purchase minicomputers for the Naval Facilities Engineering Command (NAVFAC) to continue the implementation of distributed processing for Engineering Field Divisions and minicomputers for the Public Works Centers to be used in both on-line and off-line distributed processing networks.

$.8 million will support purchase of ADP equipment for the Bureau of Medicine and Surgery field activities. This equipment will be used to upgrade obsolete equipment and to support medical administrative requirements.

$.8 million will procure new and replacement minicomputer systems for the Naval Electronics Systems Command. The equipment will support contract preparation/administration and will replace obsolete and uneconomical hardware presently in use.

$.6 million will continue to enable the Naval Sea Systems Command (NAVSEA) to improve ADP support to the Shore Intermediate Maintenance Activities, Norfolk and San Diego.

$.7 million is to purchase ADP equipment in support of the Chief of Naval Operations activities and the Chief of Naval Reserves.

$5.5 million will purchase currently leased Navy equipment under a Department of Defense program. It includes procurement of IBM 4331 computers for the Chief of Naval Education and Training and the Commander-in-Chief, U.S. Naval Forces, Europe, PDP 11/70 computer systems for the Naval Sea Systems Command, and minicomputers at various Naval activities.

SHIPBOARD OPERATIONAL ADPE (P-1 Line Item 386)

($ in Thousands)

FY 1983	FY 1984
19,516	18,401

The Shipboard Non-tactical Automated Program (SNAP) is intended to provide an effective computer system to all Fleet Operational Units requiring automated support in non-tactical functional areas. SNAP is comprised of two projects--SNAP I and SNAP II. SNAP I focuses on replacement of the obsolescent AN/UYK-5 shipboard computer systems. SNAP II will place new uniform computer systems on the nonautomated ships of the fleet, and selected shore based operational elements using afloat procedures.

$19.5 million will be used to continue the SNAP I procurement with the purchase of remote peripheral subsystems and to continue the SNAP II procurement of appropriate ADP equipment for the nonautomated fleet units.

WORLDWIDE MILITARY COMMAND AND CONTROL SYSTEM (P-1 Line Item 387)

($ in Thousands)

FY 1983	FY 1984
4,759	945

The Worldwide Military Command and Control System (WWMCCS) ADP program is an element of the overall WWMCCS program. It supports the National Command Authority as its primary mission and supports the command and control system of the unified, specified, and service component commanders as a secondary mission. The systems are characterized by standard hardware, standard system software and standard applications programs.

This procurement of $4.8 million provides for replacement of ADP equipment whose useful life has expired or equipment which can no longer be adequately maintained by the vendor.

AVIATION SUPPORT ADPE (P-1 Line Item 388)

($ in Thousands)	
FY 1983	FY 1984
493	1,489

This ADP equipment is to support the Commander, Naval Air Systems Command (COMNAVAIRSYSCOM). Procurement of a replacement computer system will allow efficient and effective accomplishment of contractual cost analysis, estimation, and scheduling.

AVIATION TRAINING SUPPORT SYSTEM (ATSS) ADPE (P-1 Line Item 389)

($ in Thousands)	
FY 1983	FY 1984
1,784	5,499

The ATSS is a system designed to improve the match of total training resources to the student training rate. The system provides for a common standard data base for scheduling and monitoring students and performance, manages student training rates and the training pipeline. The ATSS also measures and predicts training costs.

NAVAL AVIATION LOGISTICS COMMAND MANAGEMENT INFORMATION SYSTEM (NALCOMIS) ADPE (P-1 Line Item 390)

($ in Thousands)	
FY 1983	FY 1984
-0-	26,312

NALCOMIS is a project to develop a modern and effective management information system which responds to the aircraft maintenance and material management requirements aboard aircraft carriers, amphibious aviation helicopter assault ships (LPHs and LHAs), Marine aircraft groups and Naval air stations. Specific objectives are to increase aircraft material readiness, reduce inventory loss, improve repairable turnaround time, and provide visibility of assets.

$26.3 million will provide ADP hardware for the initial implementation of NALCOMIS Module #1 encompassing the aviation organizational maintenance activities (OMA), intermediate maintenance activity (IMA) and the aviation retail supply support center (SSC) at 95 operational sites.

SUPPLY SUPPORT ADPE (P-1 Line Item 391)

($ in Thousands)

FY 1983	FY 1984
8,734	12,551

This equipment is to support the Commander, Naval Supply Systems Command (COMNAVSUPSYSCOM). COMNAVSUPSYSCOM is responsible for supply management policies and methods (technical guidance) for Navy Material. It provides for commands, units, forces, and activities of the Navy and Marine Corps, including: provisioning, cataloging, inventory management, distribution, materials handling, traffic management, transportation, packaging, preservation, receipt, storage, issue functions and disposal functions.

$6.9 million will provide for Stock Point ADPE replacement. The current peripheral equipment purchased in the early 1970's is worn out and beyond repair.

$1.0 million will provide the first increment of equipment for the Stock Point Logistics Integrated Communications Environment (SPLICE). This project addresses a mandatory teleprocessing requirement needed to maintain the current level of fleet logistics support in the 1980's.

$.5 million will provide secure high speed terminals for the Conventional Ammunition Integrated Management System (CAIMS). This requirement supports ammunition management at various organization levels in support of fleet readiness.

$.3 million is the first increment for stand-alone minicomputers to support the Automation of Procurement and Accounting Data (APADE) project. The objective of this requirement is to provide each major COMNAVSUPSYSCOM field purchasing activity with an automated procurement system.

PERSONNEL SUPPORT ADPE (P-1 Line Item 392)

($ in Thousands)

FY 1983	FY 1984
20,732	14,656

This ADP equipment is to support the Chief of Naval Personnel. The continuing ADP programs will provide for the integration of the personnel and manpower related information systems in order to create a single information system for Total Force Management. This system is an aggregation of separate but interrelated ADP information systems which support the Navy's manpower and personnel community.

$18.4 million is to purchase minicomputers, terminals, and printers to support the Pay and Personnel Administrative Support System/Source Data System (PASS/SDS) which will continue implementation of a distributive processing and data base system at 152 PASS offices.

$1.9 million is to purchase minicomputers, microprocessors, a remote terminal processor, and for the rental conversion of terminals at various personnel offices. This equipment supports the Central System by reducing lease costs, reducing commercial time sharing growth and expanding services to terminal users.

$.4 million is for the continuation of procurement of the ADP terminal equipment for the Navy Automated Civilian Manpower Information System (NACMIS).

ENVIRONMENTAL SUPPORT ADPE (P-1 Line Item 393)

($ in Thousands)

FY 1983	FY 1984
1,708	7,637

This ADP equipment is to support the Commander, Naval Oceanography Command (COMNAVOCEANCOM). COMNAVOCEANCOM has global responsibility to provide oceanographic, meteorological, and mapping, charting, and geodetic services from the ocean floor to 100,000 feet in the atmosphere.

$1.0 million will provide a Magnetics Automated Information System (MAGAIS)for processsing geomagnetic data, replacement of obsolete and worn out plotters and tape drives, and the economical lease to purchase conversion of a communications front end processor at the Naval Oceanographic Office, Bay St. Louis.

$.5 million will procure two Naval Environment Data Network Oceanographic Data Distribution Systems for oceanography/meteorology support at the Naval Oceanography Centers.

$.2 million provides for the lease to purchase conversion and replacement of ADPE peripherals at the Fleet Numerical Oceanography Center, Monterey.

COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED
IN FY 1982 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS
SHOWN IN FY 83 BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

		Total Program Requirements Per 1982 Budget	Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
1.	Ships Support Equipment	688,352	674,868	-13,484
2.	Communications and Electronics Equipment	1,051,445	1,054,345	+2,900
3.	Aviation Support Equipment	375,278	369,716	-5,562
4.	Ordnance Support Equipment	610,339	596,816	-13,523
5.	Civil Engineering Support Equipment	64,066	74,372	+10,306
6.	Supply Support Equipment	69,599	68,726	-873
7.	Personnel and Command Support Equipment	178,578	191,014	+12,436
	Reimbursable Program	40,000	48,568	+8,568
	Total Fiscal Year Program	3,077,657	3,078,425	+768

EXPLANATION BY BUDGET ACTIVITY

1. Ships Support Equipment - ($-13.5 Million)

The net program decrease of $13.5 million reflects a net supplemental decrease of $5.5 million and net reprogramming decreases of $8.0 million. The major reprogramming increases are other Navigation Equipment ($2.8 million) and Hull, Mechanical & Electrical (HM&E) Items Under $900K ($1.8 million). The major reprogramming decreases are Spares & Repair Parts ($5.5 million), Shipyard Modernization ($2.5 million), Other Pumps ($2.0 million), Trident Support Equipment ($1.8 million), Other Propulsion Equipment ($1.5 million), New Ships Training ($1.3 million) and Ship Support Improvement program Engineered Operating Cycle ($1.0 million). The net of all other reprogramming changes is an increase of $3.0 million.

2. Communications and Electronics Equipment - ($+2.9 Million)

The net program increase of $2.9 million reflects a net supplemental decrease of $5.3 million and a net reprogramming increase of $8.2 million. The major reprogramming increases are Spares & Repair Parts ($4.7 million), Marine Air Traffic Control & Landing System (MATCALS) ($3.6 million), Satellite Communication (SATCOM) Ship Terminals ($3.5 million), Sonar Switches and Transducers ($3.4 million). Surface Sonar Windows and Domes ($2.2 million), AN/SRN-19 Navy Satellite

Navigation (NAVSAT) Receivers ($2.1 million) and TSEC/KY-57/58 VINSON Cryptographic Devices ($2.0 million). The major reprogramming decreases are AN/BQQ-5 Submarine Sonar ($4.2 million), AN/SPS-49 Radar ($2.6 million), Communication Security System (CSS) Secure Voice ($2.0 million), Signal Security ($1.8 million), AN/WLR-8 Electronic Support Measure Receiver ($1.4 million), AN/WLQ-4(V) Signal Exploitation System ($1.3 million), and Submarine Communications Equipment ($1.3 million). The net of all other reprogramming changes is an increase of ($1.3 million).

3. Aviation Support Equipment - ($-5.6 Million)

The net program decrease of $5.6 million reflects a net supplemental decrease of $3.6 million and net reprogramming decreases of $2.0 million. The major reprogramming increases are Weapons Range Support Equipment ($3.5 million), Machine Gun Ammunition ($2.2 million), Jet-Assisted Take Off (JATOS) ($1.8 million), Miscellaneous Cartridges and Cartridge Actuated Devices (CART/CADS) ($1.6 million) and ($4.2 million), General Purpose Bombs ($2.0 million) and Aircraft Escape Rockets ($1.2 million). The net of all other reprogrammings is a decrease of $.1 million.

4. Ordnance Support Equipment - ($-13.5 Million)

The net program decrease of $13.5 million reflects a net Supplemental increase of $1.4 million, a Budget Transfer of $7.8 million (to the RDT&E,N appropriation) and net reprogramming decreases of $7.1 million. The major reprogramming increases are Sea Launched Cruise Missile (SCM) Support Equipment ($4.9 million), MK-117 Fire Control System ($1.8 million), POLARIS/POSEIDON Support Equipment ($1.3 million) and Spares & Repair Parts ($1.2 million). The major reprogramming decreases are Gun Fire Control Systems ($5.4 million), Trident I Backfit Support Equipment ($3.5 million), Trident Support Equipment ($2.8 million), and Fleet Mine Support ($2.3 million). The net of all other reprogramming changes is a decrease of $2.3 million.

5. Civil Engineering Support Equipment - ($+10.3 Million)

The net program increase of $10.3 million reflects a net Supplemental increase of $10.4 million and reprogramming decrease of $.1 million.

6. Supply Support Equipment - ($-0.9 Million)

The net program decrease of $.9 million reflects a Supplemental decrease of $.5 million and net reprogramming decreases of $.4 million.

7. Personnel and Command Support Equipment - ($+12.4 Million)

The net program increase of $12.4 million reflects a net Supplemental increase of $3.1 million and net reprogramming increase of $9.3 million. The major reprogramming increases are Operating Forces Support Equipment ($3.7 million), Computer Acquisition ($1.8 million), Command Support Equipment ($1.3 million) and Submarine Advance Signal Intelligence Trainer ($.9 million). The net of all other reprogramming changes is an increase of $1.6 million.

COMPARISON OF FY 1981 FINANCING AS REFLECTED
In FY 1982 BUDGET WITH FY 1981 FINANCING AS
SHOWN IN FY 1983 BUDGET
(In Thousands of Dollars)

	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	3,077,657	3,078,425	+768
Program requirements (Direct)	(3,037,657)	(3,029,857)	(-7,800)
Program requirements (Reimbursable)	(40,000)	(48,568)	(+8,568)
Less:			
Anticipated Reimbursements	40,000	48,568	+8,568
Appropriation (Adjusted)	3,037,657	3,029,857	-7,800

EXPLANATI CHANGES IN FINANCING
(In Th nds of Dollars)

1. Program Requirements (Total).

This is the total change in the value of the FY 1981 program since submission in the FY 1982 in January 1981. +768

2. Program Requirements (Direct).

The $7,800 decrease in program requirements represents the effect of an inter-appropriation transfer to the RDT&E,N appropriation. -7,800

3. Program Requirements (Reimbursable).

The increase in the reimbursable program reflects actual orders received in FY 1981. +8,568

4. Anticipated Reimbursements.

The increase is based on actual orders received in FY 1981.	+8,568

5. Appropriation.

The $7,800 decrease in program requirements represents the effect of a transfer to the RDT&E,N appropriation.	-7,800

COMPARISON OF FY 1982 PROGRAM REQUIREMENTS AS REFLECTED
IN FY 1982 BUDGET WITH FY 1982 PROGRAM REQUIREMENTS AS
SHOWN IN FY 1983 BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

		Total Program Requirements Per 1982 Budget	Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
1.	Ships Support Equipment	685,900	692,066	+6,166
2.	Communications and Electronics Equipment	1,077,400	1,174,146	+96,746
3.	Aviation Support Equipment	489,600	579,155	+89,555
4.	Ordnance Support Equipment	720,000	830,147	+110,147
5.	Civil Engineering Support Equipment	161,700	114,362	-47,338
6.	Supply Support Equipment	76,300	75,921	-379
7.	Personnel and Command Support Equipment	248,800	210,780	-38,020
	Reimbursable Program	40,000	40,000	-
	Total Fiscal Year Program	3,499,700	3,716,577	+216,877

EXPLANATION BY BUDGET ACTIVITY

1. Ships Support Equipment - ($+6.2 Million)

The net program increase of $6.2 million includes a net budget amendment decrease of $10.9 million; a net Congressional decrease of $5.5 million; an inter-appropriation transfer-out of $2.5 million, and a net reprogramming increase of $3.3 million. The major reprogramming increases are Reactor Power Units ($+5.0 million), Reactor Plant Components (+3.4 million), and Other Navigation Equipment ($2.1 million). The major reprogramming decreases are Trident Support Equipment ($3.6 million), Life Rafts ($2.4 million), and Submarine Batteries ($1.3 million). The net of all other reprogramming changes is an increase of ($0.1 million).

2. Communications and Electronics Equipment - ($+96.7 Million)

The net program increase of $96.7 million includes a net budget amendment increase of $110.8 million; a net Congressional increase of $.5 million; an inter-appropriation transfer-out of $7.6 million; and a net reprogramming decrease of $6.9 million. The major reprogramming increases are SSN Integrated Communications ($2.4 million), Signal Exploitation Space (SES) Modernization ($1.2 million), Shipboard UHF Communications, ($1.4 million) and Cryptologic Items Under $900K ($1.3 million). The major reprogramming decreases are Trident Electronic Equipment ($4.6 million), Sonar Switches and Transducers ($1.5 million), Multiple User SI Communications ($1.4 million), and Submarine Communications Equipment ($1.3 million). The net of all other reprogramming changes is a decrease of ($9.4 million).

3. Aviation Support Equipment - ($+89.6 Million)

The net program increase of $89.6 million includes a net budget amendment increase of $94.6 million; a net Congressional decrease of $7.4M; an inter-appropriation transfer-out of $2.0 million; and a net reprogramming increase of $4.4 million. The major reprogramming increases are Catapults and Arresting Gear ($2.5 million), Jet Assisted Take Offs ($4.0 million), Weapons Range Support Equipment ($3.6 million), and Laser Guided Bomb Kits ($3.1 million). The major reprogramming decreases are Practice Bombs ($9.3 million), General Purpose Bombs ($4.8 million), Machine Gun Ammunition ($1.9 million), and Drone Control Systems ($1.6 million).

4. Ordnance Support Equipment - ($+110.1 Million)

The net program increase of $110.1 million includes a net budget amendment increase of $132.8 million; a net Congressional decrease of $8.2 million; an inter-appropriation transfer-out of $18.7 million; and a net reprogramming increase of $4.2 million. The major reprogramming increase is Gun Fire Control Equipment ($9.0 million). The major reprogramming decrease is SCM Support Equipment ($3.6 million). The net of all other reprogramming changes is a decrease of $1.2 million).

5. Civil Engineering Support Equipment - ($-47.3 Million)

The net program decrease of $47.3 million includes a net budget amendment increase of $19.2 million; a net Congressional decrease of $64.2 million; an inter-appropriation transfer-out of $.4 million; and a net reprogramming decrease of $1.9 million.

6. Supply Support Equipment - ($-.4 Million)

The net program decrease of $.4 million includes a net budget amendment decrease of $1.3 million; an inter-appropriation transfer-out of $.3 million; and a net reprogramming increase of $1.2 million.

7. Personnel and Command Support Equipment - ($-38.0 Million)

The net program decrease of $38.0 million includes a net budget amendment decrease of $3.8 million; a net Congressional decrease of $28.4 million; an inter-appropriation transfer-out of $.7 million; and a net reprogramming decrease of $4.3 million. The major reprogramming increase is the AN/BQQ-5 Sonar Operator/Teams Trainer ($2.0 million). The major reprogramming decreases are Personnel Support ADPE ($4.2 million). The net of all other reprogramming changes is a decrese of $3.1 million.

COMPARISON OF FY 1982 FINANCING AS REFLECTED
IN FY 1982 BUDGET WITH FY 1982 FINANCING AS
SHOWN IN FY 1983 BUDGET
(In Thousands of Dollars)

	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	3,499,700	3,716,577	+216,877
Program requirements (Direct)	(3,459,700)	(3,676,577)	(216,877)
Program requirements (Reimbursable)	(40,000)	(40,000)	-
Less:			
Anticipated Reimbursements	40,000	40,000	40,000
Appropriation	3,459,700	3,676,577	+216,577

EXPLANATIONS OF CHANGES IN FINANCING
(In Thousands of Dollars)

1. Program Requirements (Total).

This is the total change in the value of the FY 1982 program since submission of the budget in January 1981. +216,877

2. Program Requirements (Direct).

The $216,877 increase in program requirements includes the net budget amendment of $362,300; the net Congressional Action on the FY 1982 Budget Request which was a decrease of $113,223; and a inter-appropriation transfer-out of $32,200 +216,877

3. Appropriation.

The $216,877 increase in program requirements includes the net budget amendment of $362,300; the net Congressional Action on the FY 1982 Budget Request which was a decrease of $113,223; and a inter-appropriation transfer-out of $32,200 +216,877

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: (114-19o) - Budget Activity 2

OTHER COMMUNICATIONS		NOMENCLATURE	FY 1983 Amount (Millions of Dollars)
OPN/2	114	Tactical Flag Command Center (TFCC)	23.4
OPN/2	141	Navy Command Control System (NCCS) Ashore	6.6
OPN/2	151	Shipboard UHF Communications	29.5
OPN/2	153	Portable Radios	3.9
OPN/2	155	Ship Communications Automation	7.1
OPN/2	156	Ship Communications Items Under $900K	7.1
OPN/2	158	VERDIN	7.0
OPN/2	159	SSN Integrated Communications	12.7
OPN/2	164	SATCOM Ship Terminals	38.3
OPN/2	165	SATCOM Shore Terminals	11.3
OPN/2	169	Shore HF Communications	6.1
OPN/2	171	Joint Tactical Communications (TRI-TAC)	7.0
OPN/2	172	DCS Technical Control Improvement Program	7.4
OPN/2	176	Worldwide Wideband Communications	6.5
OPN/2	178	Shore Communications Automation	4.7
OPN/2	179	Shore Communications Items Under $900K	4.4
OPN/2	180	Single Audio System (SAS)	21.0
OPN/2	182	TSEC/KG-84	9.2
OPN/2	184	TSEC/KY-57/58 (VINSON)	5.9
OPN/2	186	TSEC/KY-65/75 (PARKHILL)	4.2
OPN/2	188	CSS Secure Voice/Record	4.4
OPN/2	189	TSEC/KW-46	20.7
OPN/2	196	Signal Security	9.4
		Total Other Communications	257.8

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 114 - Budget Activity 2

NOMENCLATURE: Tactical Flag Command Center (TFCC)

MISSION/DESCRIPTION: The Tactical Flag Command Center (TFCC) is presently planned for installation on fourteen carriers and five cruisers. The system will be composed of two discrete increments. TFCC Increment One will establish a battle station space consisting of a [redacted] command center from which the embarked Officer in Tactical Command can exercise command and control over the battle group. The comand center will be equipped with Navy Tactical Data Systems (NTDS) consoles, a dead reckoning tracer, external voice communications, a central console with stations for the Officer in Tactical Command and staff watch officer, and other equipment necessary to provide an austere, essential command center capability. TFCC Increment Two, the Flag Data Display (FDDS), will provide for automated receipt, storage, manipulation, and integrated display of air, surface, and subsurface tactical information provi[redacted] shore sources and the battle group's own sensors utilizing Navy standard equipment. It will allow the Of[redacted]r in Tactical Command to view tactical information at ranges beyond the battle group sensor horizon. In add[redacted]ion, the FDDS will provide static data such as platform characteristics, sensor and weapon ranges, and track projections. The FDDS will be connected computer-to-computer with the major shore sources. The TFCC Increment Two can either be installed coincident with TFCC Increment One or at a later time.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	1.6	-	16.1	-	23.4	-	4.2

BASIS FOR FY 1983 REQUEST: The planned FY 1983 procurement will provide for two Increment One shipsets, two complete Increment Two (FDDSs) and six large screen display groups.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 141 - Budget Activity 2

NOMENCLATURE: Navy Command Control System (NCCS) Ashore

MISSION/DESCRIPTION: The Navy Command Control System (NCCS) Ashore Program provides for the incorporation of existing and planned data gathering and information producing functions of the Navy and integration of Fleet operational, intelligence, environmental, logistics and communications systems in order to provide the timely information required for effective Command and Control.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	5.3	-	6.6	-	1.0

BASIS FOR FY 1983 REQUEST: FY 1983 funds will procure: a) Training equipment for the Dam Neck, VA training site, b) Communication and interface equipment for NCCS Computer, c) NCCS upgrade equipment, and d) Equipment to allow correlation of data on friendly and on potentially hostile forces.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 151 - Budget Activity 2

NOMENCLATURE: Shipboard UHF Communications

MISSION/DESCRIPTION: The Shipboard UHF Communications Program provides equipment to support shipboard ultra-high frequency (UHF) communications re quirements through the 1998 timeframe. Two different radios will be procured to economically meet the complete range of UHF communication requirements. These radios will replace seven obsolete/obsolescent radios currently in the fleet with modern high-reliability, solid-state designed equipments to provide a significant improvement in UHF system capability and availability with minimum life cycle cost. The AN/URC-93(V)2 is a line-of-sight UHF transceiver, providing Naval Tactical Data System (NTDS) communications capability aboard ship. It provides ship-to-ship and ship-to-air tactical communications for Link-4A and Link-11 data requirements. It replaces two older transceivers currently in the fleet. The AN/WSC-3 (V)3 is the second radio to be procured under the program. It is a line-of-sight, UHF transceiver providing securable tactical voice communications aboard ship. It provides ship-to-ship and ship-to-air tactical communications for AM and FM voice requirements. It replaces five older transceivers currently in the fleet.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	7.7	-	24.6	-	29.5	-	23.7

BASIS FOR FY 1983 REQUEST: The requested funds are needed to procure the UHF equipment required for FY 1984 and later regularly scheduled ship overhauls. Planned procurement consists of (11) AN/URC-93(V)1 radios and (573) AN/WSC-3 (line-of-sight) radios.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 153 - Budget Activity 2

NOMENCLATURE: Portable Radios

MISSION/DESCRIPTION: This program will provide a single standardized hand held securable radio that is compatiole and interoperable with present and future equipments. During the past several years the wide proliferation of varied portable radios has created logistics problems. The AN/PRC-68 radio set is a light weight VHF/FM single channel transceiver that provides short range two-way voice communications on any of 1,000 available channels within the frequency band of 30-80 MHZ. The set provides ten selectable channels. In addition, future planned procurements include various portable radios for Navy Special Warfare teams and Explosive Ordnance Disposal.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	1.1	-	3.9	-	7.0

BASIS FOR FY 1983 REQUEST: FY 1983 funding is required to procure AN/PRC-68's complete with batteries, battery chargers and testers.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 155 - Budget Activity 2

NOMENCLATURE: Ship Communications Automation

MISSION/DESCRIPTION: The Naval Modular Automated Communications System (NAVMACS) incorporates message communications methods and equipment into a system designed to increase the speed, efficiency and capacity of all phases of Naval Telecommunication operations while reducing man hours and margin of error in existing systems. The system provides for automated message processing and distribution functions by incorporating a group of functionally modular hardware and software that can be assembled as building blocks to provide a variety of systems with selected degrees of automated capabilities. The modular approach enables the deployment of selected operational capabilities without the necessity of installing total packages. NAVMACS A+ incorporates equipments and computer programs necessary to perform the automatic address screening and management functions required in the processing of incoming narrative messages (broadcast and link); the storage, formatting, link control, input/output and accountability functions employed in the ship/shore or shore/ship delivery of messages transmitted via satellite paths; message reproduction, collating and distribution for selected ships. This system is required to provide automation necessary to process the large volumes of message traffic transmitted and received over the high data rates of the Fleet Communication Satellite (FLTSATCOM) system. In addition to the capabilities provided by the (V)2 system, NAVMACS (V)3 provides keyboard displays for system management and control, rapid outgoing message composition editing re-addressal, and transmission. The magnetic tape capability adds rapid, compact message file, storage and retrieval for all messages handled by the system. Automatic report composition and system self test enhances operator system management and availability. The purpose of the NAVMACS (V)1 system is to make available a low cost version of the NAVMACS system providing the most salient of the (V)2 functions, while, at the same time, permitting more ships to be outfitted. This system will accomplish all of the functions of the (V)2 system except that it will be limited to screening two channels of broadcast and will be capable of transmitting but not receiving over the Common User Digital Exchange System (CUDIXS) net.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	8.9	-	10.9	-	7.1	-	8.1

BASIS FOR FY 1983 REQUEST: The requested funds will procure NAVMACS Systems in order to realize deliveries in FY 1984 to continue outfitting the fleet with (V)1 and (V)2 systems.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 156 - Budget Activity 2

NOMENCLATURE: Ship Communications Items Under $900K

MISSION/DESCRIPTION: This line item provides funding for portable radios, converters, interface components for integrating communications equipment, antennas and multicouplers required for use in multiple communication units with a single antenna. These items are required to provide an economically balanced communications afloat program as well as replacement of existing equipment for the surface ships with equipment of greater efficiency and reliability. Also included in this program are Field Changes to improve the operational capability of communications and Navy Tactical Data Systems (NTDS) Link equipments.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	3.6	-	3.8	-	7.1	-	6.2

BASIS FOR FY 1983 REQUEST: FY 1983 funding is required to continue fleet communications upgrade including such equipment as multicouplers, interface components, antennas and other such items necessary for integration and completion of communications suites aboard ships.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 158 - Budget Activity 2

NOMENCLATURE: VERDIN

MISSION/DESCRIPTION: VERDIN is a very low frequency broadcast sytem which provides reliable/secure command control communication to Fleet Ballistic Missile (FBM) forces. VERDIN procurements will provide replacement processors for those currently installed on SSBN's and modification kits to allow for operations at a higher 1600 Chips Per Second (CPS) data rate. These equipments provide greater reliability and interoperability with elements of the Minimum Essential Emergency Communications Network (MEECN) including the US Air Force 616A. The VERDIN program consists of a five year procurement plan, commencing in FY 1981 and completing in FY 1985. A total of one hundred thirteen VERDIN systems (CP-1071A/WR) processors and 1600 CPS kits will be procured during the FY 1981 and FY 1985 timeframe.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	5.7	-	4.2	-	7.0	-	-

BASIS FOR FY 1983 REQUEST: The FY 1983 planned VERDIN program includes the procurement of sixteen processors (CP-1071A/WR) and sixteen modification kits (AN/WRR-7A 1600 CPS).

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 159 - Budget Activity 2

NOMENCLATURE: SSN Integrated Communications

MISSION/DESCRIPTION: (U) The objective of the SSN Integrated Communications (SSN-ICS) program is to provide the operating attack submarine fleet and future submarines with communication centers capable of responding to anticipated future threats. The program complements the 688 Class submarine radio rooms by enhancing its capabilities through engineering changes and the addition of new improvements as they become available. Selected improvements are to be extended to the 637 Class and 594 Class SSNs in the outyears. A high priority program within SSN-ICS is the Data Link Communication System, a major subsystem of the Over-The-Horizon-Targeting (OTH-T)/TOMAHAWK capability, required to be operational by [ ].

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	1.0	-	7.9	-	12.7	-	6.2

BASIS FOR FY 1983 REQUEST: Procurements planned for FY 1983 are the continued procurement of this Data Link Communications System which provides Command and Control and Over-The-Horizon-Targeting for the 688 Class Hulls. Also the Frequency Standard Transfer Switch (FSTS) will provide the ability to transfer between precise time standards in the event of failure to the primary unit.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 164 - Budget Activity 2

NOMENCLATURE: SATCOM Ship Terminals

MISSION/DESCRIPTION: Navy Satellite Communications (SATCOM) Ship Terminals will provide the Fleet with shipboard satellite equipment to operate with the Navy Fleet Satellite Communications (FLTSATCOM) system, the Leased Satellite (LEASAT) communications system and the Defense Satellite Communications System (DSCS).

COST DATA:

(Millions of Dollars)							
FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	14.3	-	36.8	-	38.3	-	55.1

BASIS FOR FY 1983 REQUEST: The FY 1983 request of 38.3 Million will continue to procure Demand Assigned Multiple Access (DAMA) systems to provide up to 5:1 increase in satellite channel capacity through more efficient control of the communications networks. Procurement of the AN/WSC-6 radio terminal operating in the Super High Frequency (SHF) spectrum through the Defense Satellite Communication System (DSCS) will enable major U.S. Navy ships (carriers, select cruisers and specified flagships) to communicate with DSCS shore sites around the world. Procurement of Officer in Tactical Command Information Exchange Subsystem (OTCIXS) will provide a communications network for Over-the-Horizon Targeting (OTHT) and Anti-Submarine Warfare (ASW) for both ships and submarines. The SHF terminal controller will provide each SHF shipboard terminal with a secure voice capability.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 165 - Budget Activity 2

NOMENCLATURE: SATCOM Shore Terminals

MISSION/DESCRIPTION: Navy Satellite Communications (SATCOM) Shore Terminals operate with the Fleet Satellite Communications (FLTSATCOM) system, the Defense Satellite Communications System (DSCS) or the Leased Satellite (LEASAT) communications system. The DSCS terminals operate at Super High Frequency (SHF) whereas FLTSATCOM and LEASAT terminals provide Ultra-High Frequency (UHF) communications to and from Navy ships and other shore activities. LEASAT is the congressionally directed follow-on replacement for FLTSATCOM.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	15.5	-	13.0	-	11.3	-	3.6

BASIS FOR FY 1983 REQUEST: This program provides for the procurement of the satellite communications shore based interfaces with the information exchange systems aboard large and small ships, submarines and Anti-Submarine Warfare (ASW) aircraft. The FY 1983 request of 11.3 million will buy interconnect equipment for use between the Army-procured ground terminals and the Navy communications facilities and will provide the second year's procurement of shore based Demand Assigned Multiple Access (DAMA) system to control and operate with shipboard DAMA equipment in P-1 line "SATCOM Ship Terminals". Additional funds will procure AN/WSC-3 radios, interfacing equipment to connect Navy SATCOM terminals to Navy Communications Processing and Routing System (NAVCOMPARS). Surveillance Towed Array Systems (SURTASS) modems (MK 1030) will be procured to terminate communication nets from SURTASS ships to Navy Ground stations. Secure Voice consoles will be procured to provide shore connectivity for SHF Secure Voice capability.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 169 - Budget Activity 2

NOMENCLATURE: Shore HF Communications

MISSION/DESCRIPTION: Procurement of equipment to replace high frequency (HF) assets that are becoming obsolete must be pursued if Naval Telecommunications are to be a viable system in the post-satellite era. They will provide coverage in areas where satellite support is lacking or where fleet communications requirements exceed the Fleet Satellite Communications (FLTSATCOM) capability. They will be needed to backup FLTSATCOM in the event of an unforeseen casualty to the satellite, either by chance or design. The program will fund the replacement of those equipments required in end-of-life-cycle. Replacement will not be on a one-for-one basis, only those equipments required in the post-satellite era will be replaced. In general, these replacements will be on a station-bystation basis beginning with the major Communications Area Master Stations (CAMS). Also funded in this program are:

(1) General HF upgrade at Naval Air Stations

(2) Field changes to upgrade and progressively refurbish all installed AN/FRT-83, 84 and 85 series transmitters to meet minimum acceptable standards, increase reliability and reduce costs through reduction of supply and life cycle extension.

(3) Improved HF communications in support of Theatre Nuclear Forces.

(4) Field Changes for AN/FRT-39/40 HF transmitters by installing T-827 exciters and thus enabling the transmitters to fulfill operational needs by increasing RF power output, reducing downtime, and extension of life cycle.

(5) HF [illegible]der/transmitters to obtain instantaneous frequency information required in order to have reliable, optimum HF communications capability in the event of traffic saturation of loss or SATCOM capabilities. Requested funding will outfit selected. Naval Communications Stations in the Pacific, Atlantic and Europe.

(6) Harbor Communications Modernization to provide a harbor common net to every harbor having a USN activity

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	3.3	-	4.9	-	6.1	-	11.2

BASIS FOR FY 1983 REQUEST: FY 1983 funding continues procurement of equipment necessary to upgrade various shore communications activities.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 171- Budget Activity 2

NOMENCLATURE: Joint Tactical Communications (TRI-TAC)

MISSION/DESCRIPTION: The objectives of the Joint Tactical Communications (TRI-TAC) Program are : to field, in a timely manner, new tactical communications equipment required by the Armed Forces to perform their missions; to achieve interoperability among tactical communications systems and other Department of Defense telecommunications systems; and to eliminate duplication, where feasible, in the development of Service equipment. The equipments that are being developed /produced as part of the TRI-TAC program will replace the current inventory of tactical multichannel switched communications equipment and support the transition from an analog to an all digital communications system. The TRI-TAC program is a joint Service and Defense Agencies program under the direction of the Deputy Under Secretary of Defense (Communications, Command, Control and Intelligence), OSD.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	141	7.0	104	5.2

BASIS FOR FY 1983 REQUEST: The FY 1983 planned program will begin the Navy TRI-TAC implementation with procurements of one hundred forty one Tactical Digital Facsimile Sets (AN/UYC-4) and associated analog to digital converters (CV-3688).

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 172 - Budget Activity 2

NOMENCLATURE: DCS Technical Control Improvement Program

MISSION/DESCRIPTION: The Defense Communication System (DCS) Technical Control Improvement consists of four primary efforts: (a) Manual Upgrade, (b) Technical Control Joint Program (TCJP), (c) DCS Voice Orderwire upgrade and (d) the Timing and Synchronization Program. The four components of the TCJP are DCA-sponsored, tri-service coordinated and jointly implemented by the Army, Navy and Air Force. The manual upgrade is a continuing program to provide improvement and functional standardization in the manual capability of Technical Control Facilities. The Technical Control Joint Program (TCIP) is the joint procurement of automated/semi-automated test equipment to provide automated checking of circuit quality and reporting circuit degradation. The DCS Voice Orderwire upgrade effort consists of voice orderwire equipment standardization as well as increased connectivity between station technical control facilities of the DCS. The Timing and Synchronization Program will provide master station timing sources at all stations having a digital capability.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	.6	-	4.7	-	7.4	-	3.2

BASIS FOR FY 1983 REQUEST: FY 1983 funding is required to continue the orderly implementation of the four primary TCIP efforts.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 176 - Budget Activity 2

NOMENCLATURE: Worldwide Wideband Communications

MISSION/DESCRIPTION: This program provides for the acquisition improvement, upgrading and replacement of microwave facilities in the worldwide Military Command System, Unified/Specified/Component Commanders and the Naval Tactical Communications System. FY 1977 funding commenced equipment procurement for project Digital Radio and Multiplex Acquisition (DRAMA) in support of the present Defense Communication System (DCS) transition strategy calling for time-phased conversion of the DCS to digital transmission. The advantages of digital transmission are basically (1) capability to provide Radio Frequency (RF) or link security by use of the KG-81 cryptographic equipment, (2) bet ter capability to carry secure voice traffic and (3) certain inherent transmission advantages, such as immunity to most noise and better regenerative capability. DRAMA will convert presently installed frequency modulation and frequency diversion modulation microwave systems to an all-digital microwave system utilization standard DCS digital radios and digital multiplexers. A total of nineteen locations will be converted for DRAMA operation.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	4.9	-	6.5	-	4.5

BASIS FOR FY 1983 REQUEST: FY 1983 funding is required to continue digital upgrade by providing equipment for the Naval Communication Stations Thurso, Scotland and Puerto Rico.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 178 - Budget Activity 2

NOMENCLATURE: Shore Communications Automation

MISSION/DESCRIPTION: The Automation Program applies state-of-the-art technology to message preparation, receipt, reproduction, distribution and recording functions to record communications and technical control. It is compatible with the Automatic Digital Network (AUTODIN) and Fleet Satellite Communications (FLTSATCOM) transmission system. The ashore element consists of seventeen Local Digital Message Exchange (LDMX) terminals being placed at selected high-volume/critical mission sites (two test beds, one to support current operational LDMX/Naval Communications Processing and Routing Sytem (NAVCOMPARS) one to support installations from 90/60 procurement) and five NAVCOMPARS terminals located at ship/shore communications interface sites. It will greatly reduce errors in the exchange of essential message/data traffic to and between naval ashore and afloat activities that have been directly attributed to manual functions performed at terminal message processing facilities. Automation will ensure a rapid and reliable response to contingency surges and normal growth in communications volume.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	9.1	-	9.5	-	4.7	-	1.3

BASIS FOR FY 1983 REQUEST: FY 1983 funding will continue the procurement of Remote Information Exchange Terminals (RIXT) to extend the automated capabilities of the NAVCOMPARS/LDMX to other Naval Telecommunication Command Centers in the same geographical area. FY 1983 will also fund the AUTODIN Standard Remote Terminal designed to replace the outdated Mode V and Digital Subscriber Terminals and a NAVCOMPARS 90/60 system for Italy.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 179 - Budget Activity 2

NOMENCLATURE: Shore Communications Items Under $900K

MISSION/DESCRIPTION: The Shore Communications Items Under $900K program addresses various urgent Naval telecommunications projects requiring hardware for continuing support to the Naval Telecommunications Systems Integration Center, the Defense Communications Agency (DCA) Technical Evaluation Program for frequent monitoring/testing of DCA circuitry, and special purpose electronic test equipment to support many major communications acquisition programs. This program also provides for field changes to various communications equipments to implement operational change requirements, correct safety hazards, relieve logistics deficiencies and realize cost savings.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	.4	-	3.7	-	4.4	-	1.2

BASIS FOR FY 1983 REQUEST: FY 1983 funding is required to procure one Parkhill Automated Secure Voice Communication System (AUTOSEVOCOM) Interface device, procurement of equpment to allow Parkhill to interface with wideband AUTOSEVOCOM; a fiber optics cable system and multiplex equipment to upgrade the Navy site a Finegayan; additional capability for Navy Telecommunications Center (NTCC) Augusta Bay (Sicily), to provide increased fleet support, command switch systems to provide AUTOVON service at major traffic points and modifications (balance/unbalance) to AN/USC-26.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 180 - Budget Activity 2

NOMENCLATURE: Single Audio System (SAS)

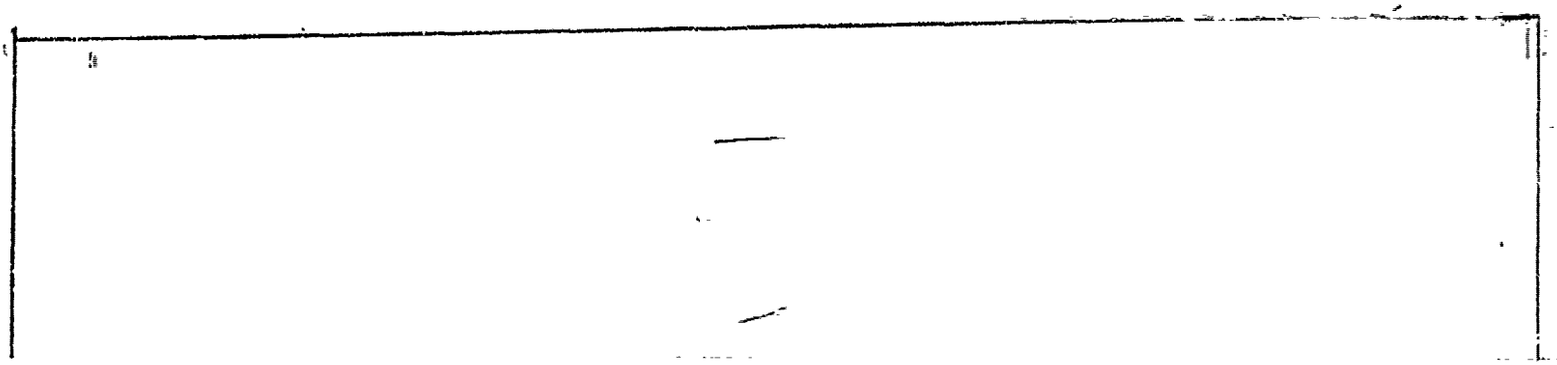
MISSION/DESCRIPTION: The Single Audio System (SAS) is a system where all shipboard radio voice subscribers have access to either a plain or cryptographically covered circuit, on an as required and programmed basis. SAS is an audio distribution and switching system which will provide a connecting of radio-telephone sets and Naval Tactical Data System (NTDS) consoles located in various shipboard compartments to any type of voice security equipment/cryptographic processors. The Manual SAS utilizes an improved version of the existing C-7594( )/U manual switch which provides up to twenty-seven telephone subscribers access to up to ten radio trunk circuits either cryptographically covered or uncovered, or eighteen telephone subscribers access to up to fifteen radio trunk circuits. Each telephone subscriber has the capability to transmit either in plain or cipher mode thus eliminating the need for a dual system. The manual SAS is being installed on all smaller ships (NON-NTDS) and those requiring a switching capacity which does not exceed a 2X3 or 2X2 switch matrix. FY 1980 commenced the procurement of the Automated Single Audio System. The Automated Single Audio System will be installed on all ships requiring a switching capacity in excess of 27 lines X 27 trunks and on all NTDS ships. It utilizes a newly developed switch, SA-2112(V)/STQ, which is modularly expandable to suit the needs of the various platforms. The switch is sized in increments of 18 lines X 11 trunks up to a maximum of 108 lines X 66 trunks. A remote channel selector C-10276/SSC permits rapid selection of trunks from a remote telephone position.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	16.6	-	20.3	-	21.0	-	28.6

BASIS FOR FY 1983 REQUEST. The requested funds are intended for procurement of automated SAS equipment to meet scheduled ship installations in FY 1984 and later.



OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 182 - Budget Activity 2

NOMENCLATURE: TSEC/KG-84

MISSION/DESCRIPTION: The TSEC/KG-84 is a high-capacity, micro-miniature data security device required to process [redacted] and is utilized to secure a variety of unrelated communications systems. The KG-84 is planned for use in the Joint Tactical Communications (TRI-TAC) system and the Automatic Secure Voice Communications System (AUTOSEVOCOM). This equipment is primarily a replacement for older communications security equipment nearing the end of its physical and operational life.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	2.2	-	4.5	-	9.2	-	8.3

BASIS FOR FY 1983 REQUEST: The FY 1983 program will fund planned phased procurement of TSEC/KG-84 equipment necessary to continue the replacement of obsolete Communications Security Equipment.



OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 184 - Budget Activity 2

NOMENCLATURE: TSEC/KY-57/58 (VINSON)

MISSION/DESCRIPTION: The TSEC/KY-57 (Manpack) and TSEC/KY-58 (Airborne/Shipboard) VINSON equipment are wideband, half duplex micro-miniature tactical speech security equipments required for security coverage of its tactical VHF/UHF voice circuits.

COST DATA:

(Millions of Dollars)							
FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	9.4	-	13.2	-	5.9	-	11.2

BASIS FOR FY 1983 REQUEST: These resources are required to permit Navy to continue its phased program of achieving 100% coverage of critical voice circuits.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 186 - Budget Activity 2

NOMENCLATURE: TSEC/KY-65/75 (PARKHILL)

MISSION/DESCRIPTION: The TSEC/KY-65 (Portable/Manpack) and TSEC/KY-75 (Airborne/Shipboard) are narrowband, half-duplex tactical speech security equipment of micro-miniature design.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	6.2	-	-	-	4.2	-	-

BASIS FOR FY 1983 REQUEST: The FY 1983 funds are required to permit Navy and Marine Corps to continue their phased program to provide security coverage to various tactical HF radio voice communications circuits.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 188 - Budget Activity 2

NOMENCLATURE: CSS Secure Voice/Record

MISSION/DESCRIPTION: The Communications Security System (CSS) is a total system approach to secure communications. With CSS, multiple Communications Security (COMSEC) and related devices are integrated into a single operating system. Through the use of automated microprocessor-controlled functions, one central operator can set up, control and monitor as many as (256) COMSEC devices on a single platform. Standard operating functions are performed from a central control station. Testing a fault isolation can be performed more efficiently. Thus a single operator can replace multiple operators and technicians. This effort ensures that secure voice/record equipment entering the fleet will be operable and preclude the necessity for other housing, interface and control support which would result in the need for substantial hardwiring, operator space, power consumption and operator time.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	6.9	-	8.1	-	4.4	-	-

BASIS FOR FY 1983 REQUEST: The FY 1983 program will continue procurement of equipments required to implement the PARKHILL (Narrowband) and VINSON (Wideband) Secure Voice Programs.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 189 - Budget Activity 2

NOMENCLATURE: TSEC/KW-46

MISSION/DESCRIPTION:

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	-	-	-	-	20.7	-	17.8

BASIS FOR FY 1983 REQUEST: The FY 1983 funds will procure KW-46 equipments to coincide with scheduled replacements.

OTHER PROCUREMENT, NAVY
OTHER COMMUNICATIONS DATA SHEET

SERVICE: Navy

P-1 LINE ITEM: 196 - Budget Activity 2

NOMENCLATURE: Signal Security

MISSION/DESCRIPTION: This program provides the equipment to detect, analyze, and evaluate the electromagnetic emissions of the U.S. Navy. Resultant information is used to enhance the Signals Security of U.S. Navy emissions in reducing the tactical and strategic vulnerability of U.S. Forces.

COST DATA:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
-	2.8	-	4.5	-	9.4		10.3

BASIS FOR FY 1983 REQUEST: These resources are required to accomplish the Navy's surveillance mission to provide security of signals from operational communication and non-communication emitters and provide essential equipment needed to maintain required physical and transmission security of cryptographic systems.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 7: OTHER PROPULSION EQUIPMENT

ITEM: FIN STABILIZER TOTAL MOD

($ in millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	2.7	4.6	5.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/80
COMPLETION OF ENGINEERING TESTS	6/81
COMPLETION OF OPERATIONAL EVALUATION	10/80
PROVISIONAL SERVICE APPROVAL (PASU)	5/81
SCHEDULED FOR SERVICE APPROVAL (ASU)	2/82

($ in millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	5.5	1.0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 7: OTHER PROPULSION EQUIPMENT

ITEM: FIN STABILIZER, FFG-7 CLASS

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	3.8	20.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/80
COMPLETION OF ENGINEERING TESTS	6/81
COMPLETION OF OPERATIONAL EVALUATION	7/83
PROVISIONAL SERVICE APPROVAL (PASU)	11/81
SCHEDULED FOR SERVICE APPROVAL (ASU)	11/83

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1 : Ships Support Equipment

P-1 LINE ITEM : 16 - Electrically Suspended Gyro Navigator

ITEM : ESGN (AN/WSN - 3(V)2)

	($ in millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	6.4	13.0	8.5	21.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/77
COMPLETION OF ENGINEERING TESTS	12/79
COMPLETION OF OPERATIONAL EVALUATION	11/78
SCHEDULED FOR PROVISIONAL SERVICE APPROVAL (PASU)	8/80
SCHEDULED FOR SERVICE APPROVAL (ASU)	11/84

	($ in millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	37.8	4.3	2.9	4.3	CONTINUING

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: Ships Support Equipment

P-1 LINE ITEM: 17 - Other Navigation Equipment

ITEM: AN/WSN - 5 Inertial Navigation Set

($ in millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	6.6	3.4	4.5	6.6

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/80
COMPLETION OF ENGINEERING TESTS	12/81
COMPLETION OF OPERATIONAL EVALUATION	9/80
SCHEDULED FOR PROVISIONAL SERVICE APPROVAL (PASU)	2/81
SCHEDULED FOR SERVICE APPROVAL (ASU)	1/82

($ in millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	1.7	0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: Ships Support Equipment

P-1 LINE ITEM: 17 - Other Navigation Equipment

ITEM: High Speed Collision Avoidance and Navigation System (HICANS)

($ in millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	3.7	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/80
COMPLETION OF ENGINEERING TESTS	12/80
COMPLETION OF OPERATIONAL EVALUATION	12/81
SCHEDULED FOR SERVICE APPROVAL	2/82

($ in millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	2.6	.3	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 24: SUBMARINE RESCUE CHAMBERS

ITEM: SUBMARINE RESCUE CHAMBERS

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	0	2.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/82
COMPLETION OF ENGINEERING TESTS	6/83
COMPLETION OF OPERATIONAL EVALUATION	11/83
SCHEDULED FOR SERVICE APPROVAL (ASU)	1/84

($ In Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	1.7	1.1	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 37: HM&E ITEMS UNDER $900K

ITEM: SELF-PROPELLED HI-LIFT MAINTENANCE PLATFORM

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	0	0.6

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	10/84
COMPLETION OF ENGINEERING TESTS	1/85
COMPLETION OF OPERATIONAL EVALUATION	4/85
SCHEDULED FOR PROVISIONAL SERVICE APPROVAL (PASU)	1/83
SCHEDULED FOR SERVICE APPROVAL (ASU)	7/85

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 44: CHEMICAL WARFARE DETECTORS

ITEM: CHEMICAL WARFARE DIRECTIONAL DETECTORS

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	1.4	1.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE	
COMPLETION OF ENGINEERING DESIGN	6/82	Passed OPEVAL, Making some minor changes for impact shock testing.
COMPLETION OF ENGINEERING TESTS	7/82	
COMPLETION OF OPERATIONAL EVALUATION	12/81	
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/82	

($ In Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	0.775	0.924	0.2	0.3	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 44: CHEMICAL WARFARE DETECTORS

ITEM: CHEMICAL AGENT POINT DETECTOR SYSTEM

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	0.6	1.3

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/82
COMPLETION OF ENGINEERING TESTS	1/83
COMPLETION OF OPERATIONAL EVALUATION	6/83
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/83

($ In Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	0.6	0.3	0.2	0.15	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 47: MAN-IN-THE-SEA

ITEM : ONE ATMOSPHERE DIVING SUIT

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	0	0.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/82
COMPLETION OF ENGINEERING TESTS	6/82
COMPLETION OF OPERATIONAL EVALUATION	1/83
SCHEDULED FOR SERVICE APPROVAL (ASU)	3/83

OTHER PROCUREMENT NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 1: SHIPS SUPPORT EQUIPMENT

P-1 LINE ITEM 47: MAN-IN-THE-SEA

ITEM: MK-14 PUSH PULL SYSTEM

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	0	1.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/82
COMPLETION OF ENGINEERING TESTS	8/82
COMPLETION OF OPERATIONAL EVALUATION	10/82
SCHEDULED FOR SERVICE APPROVAL (ASU)	12/82

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET AVTIVITY 1: Ships Support Equipment

P-1 LINE ITEM: 49 Naval Special Warfare Equipment

ITEM: Mission Support Package

($ In Millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	4.4	0	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/80
COMPLETION OF ENGINEERING TESTS	7/80
COMPLETION OF OPERATIONAL EVALUATION	3/82
SCHEDULED FOR SERVICE APPROVAL (ASU)	6/82

($ In Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
	2.3	0.2	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 64 - AN/SPS-48

ITEM - AN/SPS-48 New Threat Upgrade MOD KIT

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	70.9	25.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	11/81 (A)
COMPLETION OF ENGINEERING TESTS	7/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	3/83(E)
SCHEDULED FOR SERVICE APPROVAL	6/83*(E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64352N	36.1	2.8	1.1	0	0

* PASU anticipated February 1982

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 65 - AN/SPS-49

ITEM - AN/SPS-49 Automatic Tracking Device MOD KIT

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	2.0	2.6

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	11/80 (A)
COMPLETION OF ENGINEERING TESTS	11/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	3/83 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)*	7/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64508N	6.8	1.8	1.9	0	0

*PASU granted 11/82

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 67 - AN/SYS-( )

ITEM - AN/SYS-1 System, Integrated Automatic Detection & Tracking Systems

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	1.3	4.9	0	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/77 (A)
COMPLETION OF ENGINEERING TESTS	6/78 (A)
COMPLETION OF OPERATIONAL EVALUATION	9/78 (A)
SCHEDULED FOR SERVICE APPROVAL (ASU)*	4/83 (E)

	($ in Millions)				
RDT&E FUNDING**	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64508N	17.0	3.9	4.0	.7	19.6

* PASU granted 2/80

**Includes all Radar Automation variants for AN/SYS-1 and AN/SYS-2.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 67 - AN/SYS-( )

ITEM - AN/SYS-2 System, Integrated Automatic Detection & Tracking Systems

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	10.0	14.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/81 (A)
COMPLETION OF ENGINEERING TESTS	11/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	3/83 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)*	7/83 (E)

	($ in Millions)				
RDT&E FUNDING**	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64508N	17.0	3.9	4.0	.7	19.8

* PASU granted 11/82
**Includes all Radar Automation variants for AN/SYS-1 and AN/SYS-2.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 69 - Radar Support

ITEM - Class B Navigational Radar

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	.9	.7	1.0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	N/A*
COMPLETION OF ENGINEERING TESTS	12/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	2/82 (E)
SCHEDULED FOR SERVICE APPROVAL	6/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64508N	.4	.5	.4	0	0

* Off the shelf commercial system.

REMARKS: Class B Radar Program is replacement of existing commercial navigation radars in the fleet with one model design via a two step competitive procurement of an existing off-shelf commercial radar.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 69 - Radar Support

ITEM - AN/SPA-XX Radar Displays

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	5.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/82 (E)
COMPLETION OF ENGINEERING TESTS	9/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	10/82 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	12/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64508N	0	.1	.1	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 73 - AN/SQS-53B

ITEM - AN/SQS-53 Improvement Hardware

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	61.3

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/81 (A)
COMPLETION OF ENGINEERING TESTS	6/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	8/82 (E)
SCHEDULED FOR SERVICE APPROVAL	12/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 2_ 23N	81.7	14.3	6.0	6.0	Continuing

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 74 - AN/BQQ-5

ITEM - AN/BQQ-5B

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	5.7	0	0	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/79 (A)
COMPLETION OF ENGINEERING TESTS	9/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	6/82 (E)
SCHEDULED FOR SERVICE APPROVAL	3/83*(E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64503N	27.2	0	0	0	0

* PASU received April 1979.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 74 - AN/BQQ-5

ITEM - AN/BQQ-5C

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	52.7	34.2	61.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	7/82 (E)
COMPLETION OF ENGINEERING TESTS	11/83 (E)
COMPLETION OF OPERATIONAL EVALUATION	5/84 (E)
SCHEDULED FOR SERVICE APPROVAL	11/84*(E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64503N	15.6	17.0	9.0	5.3	1.5

* PASU anticipated February 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 79 - FBM SYSTEM SONARS

ITEM - Towed Array Sonar Processing Equipment (TASPE)

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	29.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	10/81 (A)
COMPLETION OF ENGINEERING TESTS	8/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	11/82 (E)
SCHEDULED FOR SERVICE APPROVAL	12/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 11221N	10.1	5.6	9.4	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 84 - ASW Combat System Integration Program

ITEM - ASW Combat System Integration

($ in Millions)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	44.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	[illegible]
COMPLETION OF ENGINEERING TESTS	[illegible]
COMPLETION OF OPERATIONAL EVALUATION	[illegible]
SCHEDULED FOR SERVICE APPROVAL	[illegible]

($ in Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 25620N	36.2	21.3	16.3	15.2	24.8

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 85 - Integrated Acoustic Comm Sys

ITEM - AN/SSQ-86, Down Link Communications Bouys

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	1.2	1.4	1.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/81 (A)
COMPLETION OF ENGINEERING TESTS	8/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	12/81 (A)
SCHEDULED FOR SERVICE APPROVAL	3/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64566N	1.3	0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 85 - Integrated Acoustic Comm Sys

ITEM - AN/SSQ-71, Sonobouys

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	.9	0	0	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/78 (A)
COMPLETION OF ENGINEERING TESTS	8/78 (A)
COMPLETION OF OPERATIONAL EVALUATION	2/80 (A)
SCHEDULED FOR SERVICE APPROVAL	3/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64566N	.7	0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 91 - AN/SQR-19 Tactical Towed Array Sonar

ITEM - AN/SQR-19 Tactical Towed Array Sonar

($ in Millions)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	7.6	77.3	153.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	7/81 (A)
COMPLETION OF ENGINEERING TESTS	[redacted]
COMPLETION OF OPERATIONAL EVALUATION	
SCHEDULED FOR SERVICE APPROVAL	

($ in Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64713N	129.5	16.5	10.0	3.0	0
P.E. 25623N	0	0	0	1.8	Continuing

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 88 - AN/SQR-17 Acoustic Processor

ITEM - AN/SQR-17(V)4

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	12.6	5.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	07/81 (A)
COMPLETION OF ENGINEERING TESTS	08/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	02/82 (E)
SCHEDULED FOR SERVICE APPROVAL	05/82*(E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64212N	4.0	0	0	0	0

* Provisional Approval for Service Use is being solicited and is expected in February 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 94 - AN/SLQ-32

ITEM - AN/SLQ-32(V)1, Anti-Ship Missile Defense System

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	.3	0	0	9.0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/78 (A)
COMPLETION OF ENGINEERING TESTS	3/79 (A)
COMPLETION OF OPERATIONAL EVALUATION	9/80* (A)
SCHEDULED FOR SERVICE APPROVAL	9/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64573N**	67.5	6.6	9.3	10.6	52.1

* Retesting July 1982 (E) Demonstration
** Includes total RDT&E funding for all (V)1, (V)2, and (V)3 systems.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 94 - AN/SLQ-32

ITEM - AN/SLQ-32(V)2, Anti-Ship Missile Defense System

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	.4	13.0	3.9	12.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/78 (A)
COMPLETION OF ENGINEERING TESTS	6/79 (A)
COMPLETION OF OPERATIONAL EVALUATION	7/79 (A)
SCHEDULED FOR SERVICE APPROVAL	9/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64573N*	67.5	6.6	9.3	10.6	52.1

* Includes total RDT&E funding for all (V)1, (V)2, and (V)3 systems.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 94 - AN/SLQ-32

ITEM - AN/SLQ-32(V)3, Anti-Ship Missile Defense System

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	.4	3.9	22.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/78 (A)
COMPLETION OF ENGINEERING TESTS	6/79 (A)
COMPLETION OF OPERATIONAL EVALUATION	9/80*(A)
SCHEDULED FOR SERVICE APPROVAL	9/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64573N**	67.5	6.6	9.3	10.6	52.1

* Retesting July 1982 (E) Demonstration.

** Includes total RDT&E funding for all (V)1, (V)2, and (V)3 systems.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 95 - AN/SLQ-17

ITEM - AN/SLQ-17A(V)2

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	17.2	20.3	22.7	19.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/74 (A)
COMPLETION OF ENGINEERING TESTS	3/76 (A)
COMPLETION OF OPERATIONAL EVALUATION	6/76 (A)
SCHEDULED FOR SERVICE APPROVAL	12/82* (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64554N	18.7	0	0	0	0
P.E. 64573N	2.2	3.3	0	2.0	26.5

* PASU granted in August 1977.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 97 - AN/WLR-8

ITEM - AN/WLR-8(V)4

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	6.4	5.8	4.8	3.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	10/76 (A)
COMPLETION OF ENGINEERING TESTS	10/77 (A)
COMPLETION OF OPERATIONAL EVALUATION	12/77 (A)
SCHEDULED FOR SERVICE APPROVAL	5/8/* (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64554N	14.0	1.8	1.1	0	0
P.E. 64573N	0	.2	0	3.0	7.5

* PASU granted in August 1980.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 98 - Integrated Cover and Deception

ITEM - Radar Simulation

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	2.2	14.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/82 (E)
COMPLETION OF ENGINEERING TESTS	10/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	N/A
SCHEDULED FOR SERVICE APPROVAL	1/83 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24572N	2.3	3.8	2.8	.1	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 99 - Offboard Deception Devices

ITEM - Radar Jammer II

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	4.4	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	11/79 (A)
COMPLETION OF ENGINEERING TESTS	9/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	9/81 (A)
SCHEDULED FOR SERVICE APPROVAL	1/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24573N	1.4	1.6	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 99 - Offboard Deception Devices

ITEM - Communication Simulator

($ in Millions)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	9.1	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/81 (A)
COMPLETION OF ENGINEERING TESTS	4/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	N/A
SCHEDULED FOR SERVICE APPROVAL	5/82 (E)

($ in Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24573N	3.0	2.1	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 99 - Offboard Deception Devices

ITEM - 2D Radar Simulator

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	6.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/82 (E)
COMPLETION OF ENGINEERING TESTS	4/83 (E)
COMPLETION OF OPERATIONAL EVALUATION	N/A
SCHEDULED FOR SERVICE APPROVAL	5/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24573N	0	.5	3.0	0	"

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 99 - Offboard Deception Devices

ITEM - 3D Radar Simulator

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	6.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/82 (E)
COMPLETION OF ENGINEERING TESTS	12/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	N/A
SCHEDULED FOR SERVICE APPROVAL	1/83 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24573N	3	3.0	1.0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 102- Combat DF

ITEM - AN/SRS-1 Phase I, Direction Finder

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	9.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	7/82 (E)
COMPLETION OF ENGINEERING TESTS	10/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	12/82 (E)
SCHEDULED FOR SERVICE APPROVAL	1/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 35885G	10.6	2.1	.7	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 104- Naval Intelligence Processing System (NIPS)

ITEM - PT-530/USQ Digital Plotter

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	06/81 (A)
COMPLETION OF ENGINEERING TESTS	11/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	1/83 (E)
SCHEDULED FOR SERVICE APPROVAL	1/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 25670N	0	3.6	.6	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 105 - AN/WLQ-4 (V) (Prairie Wagon)

ITEM - Carry-on System

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	63.3	140.8	137.1	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/78 (A)
COMPLETION OF ENGINEERING TESTS	6/80 (A)
COMPLETION OF OPERATIONAL EVALUATION	6/80 (A)
SCHEDULED FOR SERVICE APPROVAL*	10/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 31015N	66.7	0	0	0	0

* PASU granted Feb 1981.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 107- AN/BRD-7

ITEM - AN/BRD-7

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	1.8	3.0	.7	4.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/83 (E)
COMPLETION OF ENGINEERING TESTS	12/84 (E)
COMPLETION OF OPERATIONAL EVALUATION	3/85 (E)
SCHEDULED FOR SERVICE APPROVAL	5/85*(E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64515N	3.5	5.8	1.8	.8	0

* PASU granted December 1980.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 108 - E/O Mast

ITEM - E/O Mast

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	11.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	11/80 (A)
COMPLETION OF ENGINEERING TESTS	1/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	4/82 (E)
SCHEDULED FOR SERVICE APPROVAL	8/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64901N	6.4	2.1	1.1	.1	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 111- AN/BLD-1 (Inteferometer)

ITEM - AN/BLD-1

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	2.2	6.7	6.0	16.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/78 (A)
COMPLETION OF ENGINEFRING TESTS	2/79 (A)
COMPLETION OF OPERATIONAL EVALUATION	11/81 (A)
SCHEDULED FOR SERVICE APPROVAL	2/82* (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64515N	9.0	1.4	.4	0	.4

* PASU granted December 1980.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 114 - Tactical Flag Command Center

ITEM - Increment 2 (Block A, B & C)

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING		14.1	7.9	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/82 (E)
COMPLETION OF ENGINEERING TESTS	8/83 (E)
COMPLETION OF OPERATIONAL EVALUATION	10/83 (E)
SCHEDULED FOR SERVICE APPROVAL	3/84* (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 63717N	27.1	8.8	6.4	6.2	23.8

* Waiver to procure in advance of ASU granted January 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 114- Tactical Flag Command Center

ITEM - Increment 2 (Block E)

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	3.9	3.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/83 (E)
COMPLETION OF ENGINEERING TESTS	3/84 (E)
COMPLETION OF OPERATIONAL EVALUATION	9/84 (E)
SCHEDULED FOR SERVICE APPROVAL *	9/84 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64574N	17.3	23.3	20.0	0	40.6

* PASU planned for June 1984.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 115- Shipboard NCCS Equipment

ITEM - ATIS

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	2.3

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/83 (E)
COMPLETION OF ENGINEERING TESTS	4/83 (E)
COMPLETION OF OPERATIONAL EVALUATION	9/83 (E)
SCHEDULED FOR SERVICE APPROVAL	1/84 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24660N	.8	0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 118- Submarine Communications

ITEM - OE-305/BRR Buoy and Electrical System Modification

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	2.6	4.8	4.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	1/80 (A)
COMPLETION OF ENGINEERING TESTS	6/80 (A)
COMPLETION OF OPERATIONAL EVALUATION	9/80 (A)
SCHEDULED FOR SERVICE APPROVAL	1/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 11402N	.9	.3	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 118- Submarine Communications

ITEM - UHF SATCOM BUOY

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	2.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/82 (E)
COMPLETION OF ENGINEERING TESTS	6/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	8/82 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	1/83 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64502N	1.3	.6	.3	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 125 - MATCALS (Marine Air Traffic Control and Landing System)

ITEM - MATCALS

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	7.4	21.3	20.7	20.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/79 (A)
COMPLETION OF ENGINEERING TESTS	12/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	10/84 (E)
SCHEDULED FOR SERVICE APPROVAL	1/85 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64504N*	13.2	5.2	2.2	5.8	0

*RDT&E funds are for MATCALS computer software used in the AN/TSQ-131.

NOTE: MATCALS has three major functional systems: (1) Air Traffic Control (ATC) Subsystem consisting of the AN/TPS-65 Area Surveillance Radar (Service Approved); (2) All Weather Landing Subsystem (ALS) consisting of an AN/TPN-22 Precision Approach Landing Radar (Service Approved) and the Command and Control Subsystem (C&CS), AN/TSQ-131 scheduled for Service Approval 1/85. The MATCALS line also includes the AN/TSQ-18 LCC support equipment (generators, air conditioners etc) to be used with the MATCALS.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 125 - MATCALS

ITEM - Command and Control Central (AN/TSQ-131)

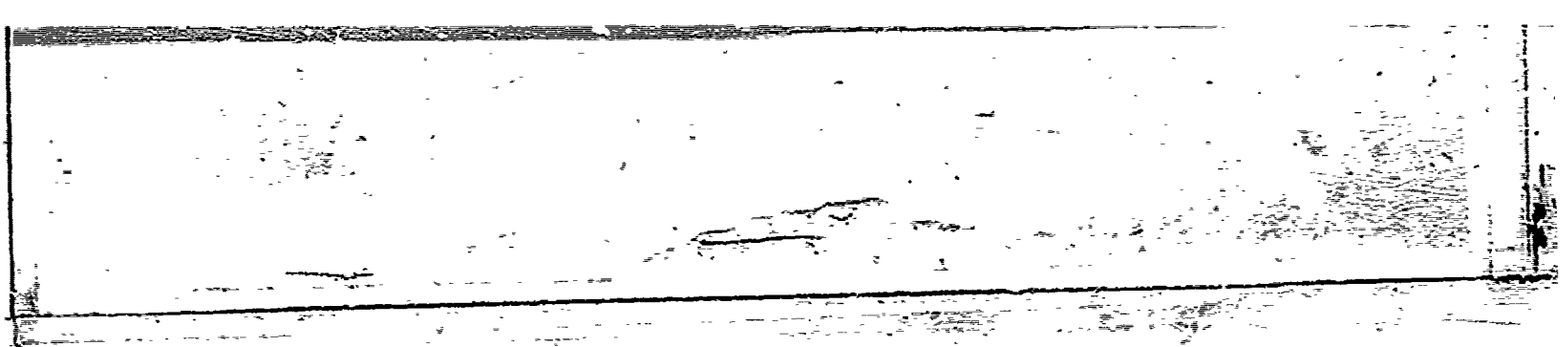
	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	15.9	16.0	16.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/79 (A)
COMPLETION OF ENGINEERING TESTS	12/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	10/84 (E)
SCHEDULED FOR SERVICE APPROVAL	1/85 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64504N*	13.2	5.2	2.2	5.8	4.4

*RDT&E funds are for MATCALS computer software used in the AN/TSQ-131.

NOTE: AN/TSQ-131 consists of rack and stack of displays, communications control group, radios, computers and peripheral equipments all of which are service approved except for display (AN/UYQ-34) and communications control group.



OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 132- Air Station Support Equipment

ITEM - Bright Radar Alpha Numeric Display System (BRANDS)

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	.7	1.2	2.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/79 (A)
COMPLETION OF ENGINEERING TESTS	2/80 (A)
COMPLETION OF OPERATIONAL EVALUATION	6/80 (A)
SCHEDULED FOR SERVICE APPROVAL	1/83* (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E.	0	0	0	0	0

* Related to Air Safety and Positive Control (Low Altitude Alerting, Emergency, Hi-Jack and Communication Failure Alarms). Required DT&E corrections will be tested and evaluated in preproduction units in Oct 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 151 - Shipboard UHF Communications

ITEM - AN/WSC-3 Have-Quick A/J Modification

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	1.4	0	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	9/82 (E)
COMPLETION OF ENGINEERING TESTS	12/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	3/83 (E)
SCHEDULED FOR SERVICE APPROVAL*	7/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 24163N	2.3	0	3.2	0	0
33401N	1.1	0	0	0	0

* Waiver to procure in advance of ASU will be granted 7/82.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 154 - SINCGARS

ITEM - SINCGARS, Radio

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	1.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	9/82 (E)
COMPLETION OF ENGINEERING TESTS	11/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	1/83 (E)
SCHEDULED FOR SERVICE APPROVAL	2/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E.*	0	0	0	0	0

* Funded with Army RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 158- VERDIN

ITEM - CP1071A/WR (Processor)

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	5.7	4.2	7.0	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	9/80 (A)
COMPLETION OF ENGINEERING TESTS	8/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	1/83 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/83* (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 11402N	7.5	0	0	0	0

* PASU received July 1980.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 159- SSN Integrated Communications

ITEM - Submarine Tactical Data Link

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	.3	2.3	4.5	2.3

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	9/80 (A)
COMPLETION OF ENGINEERING TESTS	6/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	6/83 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/84* (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 64520N	1.9	.06	0	0	0

* The STDL is a component subsystem of the Data Link Communications System. Although the STDL will have been tested extensively, the ASU will be based on the individual components performing as a system. PASU anticipated 6/82.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 159- SSN Integrated Communications

ITEM - Sensor Interface Unit

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	.2	1.5	2.9	1.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	9/80 (A)
COMPLETION OF ENGINEERING TESTS	5/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	6/83 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/84* (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 63520N	2.8	0	0	0	0
P.E. 64524N	0	2.0	.07	0	0

* The SIU is a component subsystem of the Data Link Communication System (DLCS). Although the SIU will have been tested extensively, the ASU will be based on the individual components performing as a system. PASU anticipated 6/82.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 164- SATCOM Ship Terminals

ITEM - AN/WSC-6 Terminals

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	19.5	13.1	24.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/81 (A)
COMPLETION OF ENGINEERING TESTS	1/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	10/81* (A)
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/83**(E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 33109N	3.7	.9	1.5	0	0

* AN/WSC-6(V)2 Evaluation will continue after USS KITTY HAWK overhaul completion.

** SECNAV granted waiver for limited production in advance of service approval 26 Aug 1981

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 171- Joint Tactical Comm (TRI-TAC)

ITEM - AN/UXC-4, Facsimile Set

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	7.0	5.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/81 (A)
COMPLETION OF ENGINEERING TESTS	2/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	7/82 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	8/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 28010N	18.9	1.2	.1	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 187- TSEC/KG-45

ITEM - TSEC/KG-45

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	1.1	0

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	Unknown
COMPLETION OF ENGINEERING TESTS	5/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	5/82 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	8/82*(E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. **	0	0	0	0	0

* PASU received 10/81.

**Funded with NSA RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 189- TSEC/KW-46

ITEM - TSEC/KW-46

($ in Millions)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	19.5	17.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	Unknown
COMPLETION OF ENGINEERING TESTS	2/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	7/81 (A)
SCHEDULED FOR SERVICE APPROVAL	3/82 (E)

($ in Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. *	0	0	0	0	0

* Funded with NSA RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 192- PLRS Crypto (USMC)

ITEM - KG-58/KGV-6

($ in Millions)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	2.0	2.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	Unknown
COMPLETION OF ENGINEERING TESTS	9/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	1/82 (E)
SCHEDULED FOR SERVICE APPROVAL	4/82 (E)

($ in Millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. *	0	0	0	0	0

* Funded with NSA RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 193 - TRI-TAC Crypto (TENLEY)

ITEM - TRI-TAC Crypto (TENLEY)

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING				27.3

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN*	
COMPLETION OF ENGINEERING TESTS	7/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	9/82 (E)
SCHEDULED FOR SERVICE APPROVAL	12/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. **	0	0	0	0	4.3

* Engineering design done by NSA.
** Funded with NSA RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 199 - MUSIC

ITEM - MUSIC

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	1.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	12/83 (E)
COMPLETION OF ENGINEERING TESTS	12/83 (E)
COMPLETION OF OPERATIONAL EVALUATION	12/83 (E)
SCHEDULED FOR SERVICE APPROVAL	12/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 28019N*	0	0	0	0	4.3

* Not funded with Navy RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 195- TSEC/KGV-11

ITEM - TSEC/KGV-11

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	1.4	2.6

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN *	Unknown
COMPLETION OF ENGINEERING TESTS	6/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	8/82 (E)
SCHEDULED FOR SERVICE APPROVAL	1/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. **	0	0	0	0	0

* Engineering design done by NSA.
** Funded with NSA RDT&E funds.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 203- SALTBUSH

ITEM - SALTBUSH

	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/81 (A)
COMPLETION OF ENGINEERING TESTS	5/81 (A)
COMPLETION OF OPERATIONAL EVALUATION	3/82 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	9/82 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E.	0	0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 204 - Field Training Equipment

ITEM - Field Training Equipment

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	1.3

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	2/82 (E)
COMPLETION OF ENGINEERING TESTS	3/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	5/82 (E)
SCHEDULED FOR SERVICE APPROVAL	12/82 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E. 28019N	0	0	0	1.3	7.2

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 2 - Communications and Electronics Equipment

P-1 LINE ITEM 205- Mobile System Technical Data Facility

ITEM - Mobile System Technical Data Facility

	($ in Millions)			
	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	0	0	0	2.5

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	2/82 (E)
COMPLETION OF ENGINEERING TESTS	7/82 (E)
COMPLETION OF OPERATIONAL EVALUATION	10/82 (E)
SCHEDULED FOR SERVICE APPROVAL (ASU)	1/83 (E)

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984	TO COMPLETE
P.E.	0	0	0	0	0

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM General Purpose Bombs (#218)

ITEM FMU-139/B Fuze

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	$17.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	SEPTEMBER 1982 (E)
COMPLETION OF ENGINEERING TESTS	AUGUST 1983 (E)
COMPLETION OF OPERATIONAL EVALUATION	JUNE 1983 (E)
SCHEDULED FOR SERVICE APPROVAL	SEPTEMBER 1983 (E)*

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 3.0	$1.7	$1.4	-	-

* Provisional Approval for Service Use (PASU) to be granted in December 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM WALLEYE (Conversion Program) (#220)

ITEM Guidance & Control Sections (Improved Vidicon)

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	$ 1.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	JANUARY 1982 (A)
COMPLETION OF ENGINEERING TESTS	JUNE 1982 (E)
COMPLETION OF OPERATIONAL EVALUATION	JANUARY 1983 (E)
SCHEDULED FOR SERVICE APPROVAL	APRIL 1983 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 0.4	$ 1.5	$ 1.2	$ 0.2	-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM WALLEYE (Conversion Program) (#220)

ITEM Guidance & Control Sections (Improved anti-jam resistance)

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	$ 1.9	$ 4.1	$ 2.1	$ 2.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	SEPTEMBER 1979 (A)
COMPLETION OF ENGINEERING TESTS	OCTOBER 1979 (A)
COMPLETION OF OPERATIONAL EVALUATION	JULY 1982 (E)
SCHEDULED FOR SERVICE APPROVAL	OCTOBER 1982* (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$3.4	-	-	-	-

*Release for Production granted on 9 October 1979.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM BIGEYE (#230)

ITEM BLU-95/B Bomb

	($ in Millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	-	-	$ 17.5	$ 47.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	APRIL 1983 (E)
COMPLETION OF ENGINEERING TESTS	NOVEMBER 1983 (E)
COMPLETION OF OPERATIONAL EVALUATION	NOVEMBER 1983 (E)
SCHEDULED FOR SERVICE APPROVAL	APRIL 1984 (E)*

	($ in Millions)				
RDT&E FUNDING	FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 8.6	$ 7.5	$ 8.1	$ 3.5	-

*Provisional Approval for Service Use (PASU) to be granted in May 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM JATOS (#232)

ITEM MK-23 Rocket Motor

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	$ 2.7	$ 3.3	$ 2.0	$ 4.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	SEPTEMBER 1980 (A)
COMPLETION OF ENGINEERING TESTS	FEBRUARY 1981 (A)
COMPLETION OF OPERATIONAL EVALUATION	MARCH 1981 (A)
SCHEDULED FOR SERVICE APPROVAL	APRIL 1982 * (E)

RDT&E FUNDING - None by Navy	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	-	-	-	-	-

*Release for Production was granted on 4 February 1981.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM GATOR (#233)

ITEM CBU-78 Bombs

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	$ 24.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	OCTOBER 1981 (A)
COMPLETION OF ENGINEERING TESTS	OCTOBER 1981 (A)
COMPLETION OF OPERATIONAL EVALUATION	OCTOBER 1981 (A)
SCHEDULED FOR SERVICE APPROVAL	NOVEMBER 1983 (E)*

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 4.8	$ 0.4	-	-	-

*Waiver of ASU to be granted in March 1982.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM MISCELLANEOUS AIR-LAUNCHED ORDNANCE (#234)

ITEM Smokey SAM Simulator

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	$ 0.7	$ 1.9	$ 3.0	$ 3.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	DECEMBER 1980 (A)
COMPLETION OF ENGINEERING TESTS	[illegible]RY 1981 (A)
COMPLETION OF OPERATIONAL EVALUATION	FE[illegible]UARY 1981 (A)
SCHEDULED FOR SERVICE APPROVAL	FEBRUARY 1982 (E)*

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 0.8	-	-	-	-

*Provisional Approval for Service Use (PASU) was granted April 1981.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM CV-ASW MODULE (ASTACS) (#235)

ITEM CV-ASW Module (ASTACS) - Model 4.1

($ in Million)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	$10.2	$5.2	$ 7.6	$ 7.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	OCTOBER 1974 (A)
COMPLETION OF ENGINEERING TESTS	JUNE 1975 (A)
COMPLETION OF OPERATIONAL EVALUATION (RE-OPEVAL)	JULY 1984 (E)
SCHEDULED FOR SERVICE APPROVAL	OCTOBER 1984 (E)

($ in Millions)

RDT&E FUNDING	FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 32.9	$ 4.7	$ 3.7	$ 4.8	Continuing

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM WEAPONS RANGE SUPPORT EQUIPMENT (#236)

ITEM Tactical Aircrew Combat Training Systems (TACTS)

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	$ 1.3	$ 0.5	$ 6.7	$ 2.7

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	NOVEMBER 1973 (A)
COMPLETION OF ENGINEERING TESTS	FEBRUARY 1974 (A)
COMPLETION OF OPERATIONAL EVALUATION	APRIL 1977 (A)
SCHEDULED FOR SERVICE APPROVAL	MARCH 1982* (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 5.3	$ 0.3	$ 0.6	$ 2.1	$ 0.7

*Provisional Approval for Service Use was granted in December 1979.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM WEAPONS RANGE SUPPORT EQUIPMENT (#236)

ITEM Mobile Electronic Warfare Simulator

	($ in Millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	-	-	$ 1.2	$ 1.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	MAY 1982 (E)
COMPLETION OF ENGINEERING TESTS	MAY 1982 (E)
COMPLETION OF OPERATIONAL EVALUATION	SEPTEMBER 1982 (E)
SCHEDULED FOR SERVICE APPROVAL	DECEMBER 1982 (E)

	($ in Millions)				
RDT&E FUNDING - None by Navy*	FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	-	-	-	-	-

*Item being developed by Air Force.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM WEAPONS RANGE SUPPORT EQUIPMENT (#236)

ITEM Mobile Sea Range Data Collection System and Cooperative Tracking System

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	$19.8

DEVELOPMENT AND TEST STATUS		ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN		JANUARY 1975 (A)
COMPLETION OF ENGINEERING TESTS		OCTOBER 1983 (E)
COMPLETION OF OPERATIONAL EVALUATION		DECEMBER 1986 (E)
SCHEDULED FOR SERVICE APPROVAL	PASU	DECEMBER 1983 (E)
	ASU	MARCH 1987 (E)

RDT&E FUNDING.	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$20.7	$ 3.5	$ 1.2	TBD	TBD

MSR procurement is structured in four phases. Phase I has been completed. The program is presently in Phase II development. OPEVAL and ASU will not be recommended until MSR Phase III system is developed and integrated. This is estimated to be in FY 1987.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM DRONE CONTROL SYSTEMS (#237)

ITEM Surface Command & Control

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	$ 1.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	AUGUST 1982 (E)
COMPLETION OF ENGINEERING TESTS	OCTOBER 1982 (E)
COMPLETION OF OPERATIONAL EVALUATION	N/A*
SCHEDULED FOR SERVICE APPROVAL	JANUARY 1983 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	-	0.5	-	-	-

*The Navy's Commander for Operational Test and Evaluation has determined that OPEVAL (Operational Test & Evaluation) is not needed.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM WEAPONS SCORING SYSTEM (#238)

ITEM Bombing Targets Weapon Impact Scoring System

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	$ 2.5	-	-	-

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	MAY 1979 (A)
COMPLETION OF ENGINEERING TESTS	JULY 1979 (A)
COMPLETION OF OPERATIONAL EVALUATION	JULY 1979 (A)
SCHEDULED FOR SERVICE APPROVAL	APRIL 1982 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	-	-	-	-	-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM MISCELLANEOUS SURVIVAL EQUIPMENT (#246)

ITEM AN/PRC-112 Aircrew Survival Radio

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	$ 7.6	-

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	JANUARY 1983 (E)
COMPLETION OF ENGINEERING TESTS	JANUARY 1983 (E)
COMPLETION OF OPERATIONAL EVALUATION	FEBRUARY 1983 (E)
SCHEDULED FOR SERVICE APPROVAL	MAY 1983 (E)

RDT&E FUNDING*	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	-	-	-	-	-

*This item is being developed by the U.S. Air Force as part of Tri-Service Survival Avionics.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM LAMPS MK III (#248)

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	$ 39.7	$ 81.7	$ 79.1

DEVELOPMENT AND TEST STATUS		ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN		FEBRUARY 1978 (A)
COMPLETION OF ENGINEERING TESTS		MAY 1981 (A)
COMPLETION OF OPERATIONAL EVALUATION	AN/SQQ-28	OCTOBER 1981 (A)
	AN/SRQ-4	OCTOBER 1981 (A)
	HLS	JUNE 1981 (A)
SCHEDULED FOR SERVICE APPROVAL	AN/SQQ-28	MARCH 1982 (E)
	AN/SRQ-4	MARCH 1982 (E)
	HLST	MARCH 1982 (E)

RDT&E FUNDING**	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$685.2	$73.6	$ 9.0	-	-

**Total RDT&E funding for LAMPS MK III Weapons System (including airborne portion)

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 3 - AVIATION SUPPORT EQUIPMENT

P-1 LINE ITEM REWSON (#249)

ITEM Photo Image Enhancement (PIE)

OPN FUNDING	($ in Millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	$ 0.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	JULY 1982 (E)
COMPLETION OF ENGINEERING TESTS	OCTOBER 1982 (E)
COMPLETION OF OPERATIONAL EVALUATION	N/A*
SCHEDULED FOR SERVICE APPROVAL	JANUARY 1983 (E)

RDT&E FUNDING	($ in Millions) FY 1981 & PY	FY 1982	FY 1983	FY 1984	To Complete
	$ 0.2	$ 0.1	$ .02	-	-

*The Navy - Commander for Operational Test and Evaluation has determined that OPEVAL (Operational Test and Evaluation) is not needed.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - ORDNANCE SUPPORT EQUIPMENT

P-1 LINE ITEM - #274 SUBMARINE TOMAHAWK SUPPORT EQUIPMENT

ITEM - VERTICAL LAUNCH SYSTEM (SSN 688 CLASS)

($ In MILLIONS)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING				

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	5/86
COMPLETION OF ENGINEERING TESTS	5/86
COMPLETION OF OPERATIONAL EVALUATION	10/86
SCHEDULED FOR SERVICE APPROVAL	4/87

($ In MILLIONS)

	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
RDT&E FUNDING				

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - ORDNANCE SUPPORT EQUIPMENT

P-1 LINE ITEM - #265 SMS ORDALTS AREA DEFENSE TERRIER

ITEM - NEW THREAT UPGRADE

	($ IN MILLIONS) FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	-	-	7.8	6.8

DEVELOPMENT AND TEST STATUS

COMPLETION OF ENGINEERING DESIGN	12/80
COMPLETION OF ENGINEERING TESTS	12/81
COMPLETION OF OPERATIONAL EVALUATION	3/83

SCHEDULED FOR SERVICE APPROVAL - PASU 11/82, ASU 7/83

	($ IN MILLIONS) FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
RDT&E FUNDING	31.7	6.3	2.3	1.8

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #273 Surface TOMAHAWK Support Equipment

ITEM - Surface VLS Program (VLS - DD963)

($ in millions)

OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	65.4*	40.3	111.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	3/81 **
COMPLETION OF ENGINEERING TESTS	1/82 **
COMPLETION OF OPERATIONAL EVALUATION	3/82 **
SCHEDULED FOR SERVICE APPROVAL	6/82 **

($ in millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	85.2	70.6	35.4	CONTINUING

* FY 1982 funds are part of P-1 Line Item# 272 SCM Support Equipment.

** VLS/AEGIS

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - ORDNANCE SUPPORT EQUIPMENT

P-1 LINE ITEM - #273 SURFACE TOMAHAWK SUPPORT EQUIPMENT

ITEM - SURFACE COMMON WEAPON CONTROL SYSTEM

($ In MILLIONS)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	34.5	50.8*	104.6	75.8

DEVELOPMEMT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	4/83
COMPLETION OF ENGINEERING TESTS	4/83
COMPLETION OF OPERATIONAL EVALUATION	6/83
SCHEDULED FOR SERVICE APPROVAL	6/83

($ In MILLIONS)

	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
RDT&E FUNDING	36.9	27.0	TBD	TBD

* FY 1982 funds are part of P-1 Line Item #272 SCM Support Equipment

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #289 Explosive Ordnance Disposal Equipment

ITEM - Delay Firing Device, MK-33

	($ in millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/82
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	9/82
SCHEDULED FOR SERVICE APPROVAL	12/82

	($ in millions)			
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	.7	.1	-	-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #269 Explosive Ordnance Disposal Equipment

ITEM - Fuze Neutralization Sys

	($ in millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/82
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	9/82
SCHEDULED FOR SERVICE APPROVAL	12/82

	($ in millions)			
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	.2	.1	-	-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #289 Explosive Ordnance Disposal Equipment

ITEM - Mechanical Remote Fuze Disassembly Kit

($ in millions)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING	-	-	-	.2

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	9/82
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	10/82
SCHEDULED FOR SERVICE APPROVAL	12/82

($ in millions)

RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	.4	.1	-	-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #290 SWIMMER WEAPONS SYSTEM

ITEM - STANDOFF WEAPON MK-31

OPN FUNDING ($ in millions)

FY 1981	FY 1982	FY 1983	FY 1984
-	-	-	.2

DEVELOPMENT AND TEST STATUS

	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/81
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	8/82
SCHEDULED FOR SERVICE APPROVAL	12/82

RDT&E FUNDING ($ in millions)

FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
1.0	.7	-	

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #290 SWIMMER WEAPONS SYSTEM

ITEM - STANDOFF WEAPON CONTROL SYSTEM MK-5

OPN FUNDING	($ in millions) FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	8/81
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	8/82
SCHEDULED FOR SERVICE APPROVAL	12/82

RDT&E FUNDING	($ in millions) FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	.6	.3	-	-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY-4 - ORDNANCE SUPPORT EQUIPMENT

P-I LINE ITEM- #291 UNMANNED SEABORNE TARGET

ITEM- FLOATING AUTOMATIC SCORING TARGET

	($ in millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
				.4
DEVELOPMENT AND TEST STATUS		ACTUAL/ESTIMATED DATE		
COMPLETION OF ENGINEERING DESIGN		10/82		
COMPLETION OF ENGINEERING TESTS		10/82		
COMPLETION OF OPERATIONAL EVALUATION		N/A		
SCHEDULED FOR SERVICE APPROVAL		6/84		

	($ in millions)			
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	0.0	0.34	0.65	0.05

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #293 QUICKSTRIKE

ITEM - Target Detecting Device MK-58 and Associated Test Sets MK-596 & MK-597

	($ in millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	0	0	0	2.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	11/78
COMPLETION OF ENGINEERING TESTS	8/82
COMPLETION OF OPERATIONAL EVALUATION	12/82
SCHEDULED FOR SERVICE APPROVAL	2/83

	($ in millions)			
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	47.1	4.0	1.2	0

NOTE: This TDD and its associated test sets are part of the Quickstrike Mine Development Project.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - Ordnance Support Equipment

P-1 LINE ITEM - #294 Mine Neutralization Devices

ITEM -"Mine Neutralization System MK-57 Bomblets, MK-26 Cutters, Training Shapes (Bomblets/Cutters)"

	($ in millions)			
OPN FUNDING	FY 1981	FY 1982	FY 1983	FY 1984
	-	-	-	2.6

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	7/82
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	8/82
SCHEDULED FOR SERVICE APPROVAL	1/83

	($ in millions)			
RDT&E FUNDING	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
	5.5	1.7	.8	.6

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - ORDNANCE SUPPORT EQUIPMENT

P-1 LINE ITEM - #295 ANTI-SHIP MISSILE DECOY SYSTEMS

ITEM - NATO SEA GNAT DECOYS

($ In MILLIONS)

	FY 1981	FY 1982	FY 1983	FY 1984
OPN FUNDING				3.4

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	6/83
COMPLETION OF ENGINEERING TESTS	N/A
COMPLETION OF OPERATIONAL EVALUATION	12/83
SCHEDULED FOR SERVICE APPROVAL	6/85

($ In MILLIONS)

	FY 1981 & PRIOR	FY 1982	FY 1983	TO COMPLETE
RDT&E FUNDING	16.8	7.0	6.6	3.1

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 4 - ORDNANCE SUPPORT EQUIPMENT

P-1 LINE ITEM 302 - ANTI-SHIP MISSILE DECOY SYSTEMS

ITEM - TORCH INFRA-RED DECOY

OPN FUNDING	($ IN MILLIONS) FY 1981	FY 1982	FY 1983	FY 1984
	C	2.8	5.2	6.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	May 1980 (A)
COMPLETION OF ENGINEERING TESTS	July 1980 (A)
COMPLETION OF OPERATIONAL EVALUATION	Sep 1980 (A)
SCHEDULED FOR SERVICE APPROVAL (PASU)*	Feb 1982 (E)

RDT&E FUNDING	($ IN MILLIONS) FY 1981 & PRIOR	FY 1982	FY 1983	FY 1984
P.E. 63797	8.17	0	0	0

* TORCH is an interim round and ASU will not be pursued.

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 5- CIVIL ENGINEERING SUPPORT EQUIPMENT

P-1 LINE ITEM AMPHIBIOUS SPECIALIZED EQUIPMENT

ITEM POWERED CAUSEWAY SECTION (PCS) AND SIDE LOAD WARPING TUGS (SLWT)

OPN FUNDING

($ in Millions)

FY 1981	FY 1982	FY 1983	FY 1984
-0-	$8.5	-0-	$27.8

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	FEBRUARY 1982 (A)
COMPLETION OF ENGINEERING TESTS	NOVEMBER 1981 (A)
COMPLETION OF OPERATIONAL EVALUATION	NOVEMBER 1981 (A)
SCHEDULED FOR SERVICE APPROVAL	AUGUST 1983 (E)

RDT&E FUNDING

($ in Millions)

FY 1981 & PY	FY 1982	FY 1983	FY 1984
$2.6	$.8	$.4	-0-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 5- CIVIL ENGINEERING SUPPORT EQUIPMENT

P-1 LINE ITEM AMPHIBIOUS SPECIALIZED EQUIPMENT

ITEM TEMPORARY CONTAINER DISCHARGE FACILITY (TCDF)

OPN FUNDING

($ in Millions)

FY 1981	FY 1982	FY 1983	FY 1984
-0-	$11.9	-0-	$5.1

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	NOVEMBER 1980 (A)
COMPLETION OF ENGINEERING TESTS	NOVEMBER 1980 (A)
COMPLETION OF OPERATIONAL EVALUATION	DECEMBER 1980 (A)
SCHEDULED FOR SERVICE APPROVAL	SEPTEMBER 1984 (E)

RDT&E FUNDING

($ in Millions)

FY 1981 & PY	FY 1982	FY 1983	FY 1984
$12.6	$4.1	$1.0	-0-

OTHER PROCUREMENT, NAVY

STATUS OF NON-SERVICE APPROVED ITEMS

BUDGET ACTIVITY 5- CIVIL ENGINEERING SUPPORT EQUIPMENT

P-1 LINE ITEM AMPHIBIOUS SPECIALIZED EQUIPMENT

ITEM OFF SHORE BULK FUEL TRANSFER SYSTEM (OBFS)

OPN FUNDING

($ in Millions)

FY 1981	FY 1982	FY 1983	FY 1984
-0-	-0-	$1.3	$2.9

DEVELOPMENT AND TEST STATUS	ACTUAL/ESTIMATED DATE
COMPLETION OF ENGINEERING DESIGN	DECEMBER 1982 (E)
COMPLETION OF ENGINEERING TESTS	DECEMBER 1982 (E)
COMPLETION OF OPERATIONAL EVALUATION	JULY 1982 (E)
SCHEDULED FOR SERVICE APPROVAL	APRIL 1983 (E)

RDT&E FUNDING

($ in Millions)

FY 1981 & PY	FY 1982	FY 1983	FY 1984
$10.3	$3.4	$2.3	$1.1

Note: The $1.3 million in FY 1983 will be used to procure OBFS components for the maritime prepositioned ships and do not require approval for service use (i.e. current inventory anchors, chain, etc.).

ANALYSIS OF UNOBLIGATED BALANCES AS OF 30 SEPTEMBER 1982 - FY 1982 AND PRIOR PROGRAMS
SUMMARY BY CATEGORY

Category	Estimated Unobligated Dollars (Million)	Estimated Unobligated % of Total Unobligated
1. Definitization of Spare Parts	$51.1	4.5
2. Phasing Delivery of Short Leadtime Components	113.6	10.0
3. Subsequent Engineering Changes	90.8	8.0
4. Price Redeterminations	68.1	6.0
5. Procurement under letter contract	105.6	9.3
6. All Other Purposes	706.3	62.2
Total Unobligated 30 September 1981	$1,135.5	100.0%

EXPLANATION BY CATEGORY

The $1,135.5 million unobligated balance is applicable to the FY 1981 and FY 1982 programs. Of this amount $206.3 million is the estimated unobligated balance of the FY 1981 program after 24 months of obligational authority and $929.2 million is the estimated unobligated balance of the FY 1982 program after 12 months of obligational authority.

There are a number of reasons why a fiscal year program is not entirely obligated in the first year of availability. These include:

1. Definitization of Spare Parts - $51.1 million.

Spares and repair parts procurements are based on the specifications of the original equipment. In some cases, the equipment contracts are obligated late in the fiscal year and the spare & repair parts can not be definitized. In other cases, depth and range of spare parts support may not be finalized until additional technical data is available on the basic equipment. Funds budgeted for this support are carried over and obligated when firm quantities and prices are developed.

2. Phasing Delivery of Short Leadtime Components - $113.6 million

Many components of a system or equipment and support for systems and equipment are required later than the basic equipment. These later requirements are contracted on a phased basis some of which occur during the second year of availability.

3. Engineering Changes - $90.8 million

Some of the basic contract awards are executed relatively late in the fiscal year. As the manufacturing process commences in the second fiscal year, engineering changes to correct specification errors or enhance equipment performance are made. Obligations of the funds for engineering changes are postponed until the second or sometimes third year of availability.

4. Price Redeterminations - $68.1 million

Many Navy contracts are fixed-price incentive type contracts where the final price paid to the contractor is based on his performance in such areas as cost, schedule, reliability, maintainability, etc. Thus, the contractor's actual performance against these incentive provisions is not known until the contract is substantially complete. Obligation of funds is made subsequent to the initial program year.

5. Letter Contracts - $105.6 million

Letter contracts are utilized in instances where the order must be placed expeditiously and there is insufficient time to write a fully definitized contract. The use of a letter contract allows production to proceed while the contract is being negotiated. A limitation on the government's liability is established when a letter contract is awarded and this amount is recorded as an obligation. The amount obligated is usually 50% of the estimated contract value. Definitization of letter contracts frequently does not take place until the second year of a program's life.

6. Other Reasons - $706.3 million

The majority of funds unobligated at the end of the first program year are due to program slippages where the basic contract award is not made until the second year. Engineering or design difficulties, failure to resolve differences with the contractor prior to contract signature, and stretched-out administrative leadtime are examples of unplanned events which result in program slippage. Finally, reprogramming actions consummated late in the fiscal year often result in a delay in contract execution until the second year.

ANALYSIS OF UNOBLIGATED BALANCES AS OF 30 SEPTEMBER 1983 - (END FY 1983)

FY 1983 AND PRIOR PROGRAMS

Category	Estimated Unobligated Dollars (Million)	Estimated Unobligated % of Total Unobligated
1. Definitization of Spare Parts	56.3	4.5
2. Phasing Delivery of Short Leadtime Components	125.2	10.0
3. Subsequent Engineering Changes	100.0	8.0
4. Price Redeterminations	75.1	6.0
5. Procurement under Letter Contract	116.4	9.3
6. All Other Purposes	778.6	62.2
Total Unobligated 30 September 1982	1,251.6	100.0%

EXPLANATION BY CATEGORY

The $1,251.6 million unobligated balance is applicable to the FY 1982 and FY 1983 programs. Of this amount, $1,002.6 million is applicable to the FY 1983 program after 12 months of obligational authority and $249.0 million is applicable to FY 1981 OPN after 24 months of obligational authority. The narrative explanations by category are the same as for 30 September 1982 above.

DEPARTMENT OF THE NAVY
PROCUREMENT, MARINE CORPS
Justification of Estimates for Fiscal Year 1983

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PROCUREMENT, MARINE CORPS

For expenses necessary for the procurement, manufacture, and modification of missiles, armament ammunition, military equipment, spare parts, and accessories therefor; plant equipment, appliances and machine tools, and installations thereof in public or private plants, reserve plants and Government and contractor-owned equipment layaway; and vehicles for the Marine Corps, including purchase of not to exceed (one hundred and nine) one hundred and forty-three passenger motor vehicles, for replacement only; ($1,731,456) $2,300,700 to remain available for obligation until September 30, (1984) 1985. (10 U.S.C. 5031, 7201; 31 U.S.C. 718; Department of Defense Appropriation Act, 1982 additional authorizing legislation to be proposed for $2,300,700.

Program and Financing (in thousands of dollars)

Identification code 17-1109-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ammunition	81,555	314,546	630,200	84,344	285,635	576,225
2. Weapons and combat vehicles	98,846	424,107	486,000	51,395	419,018	465,821
3. Guided missiles and equipment	101,043	213,817	263,900	96,779	195,814	242,767
4. Communications and electronics equipment	90,533	325,102	476,800	100,856	121,942	272,745
5. Support vehicles	87,159	154,686	190,900	92,414	94,697	157,938
6. Engineer and other equipment	46,877	279,198	252,900	40,736	93,021	234,350
Total direct	506,013	1,711,456	2,300,700	468,524	1,210,127	1,949,846
Reimbursable program	861	.....	.....	.....	1,675	49
10.C001 Total	506,874	1,711,456	2,300,700	468,524	1,211,802	1,949,895
Financing:						
Offsetting collections from:						
11.0001 Federal funds	-861	.....	.....	-862	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-4,058	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-129,596	-160,163	-659,817
21.4002 Available to finance new budget plans	-8,700	.....	.....	-8,700	.....	.....
21.4003 Reprograming from or to prior year budget plan	-11,841	.....	.....	.....	.....	.....
23.4001 Unobligated balance transferred to other accounts	8,700	.....	.....	8,700	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	160,163	659,817	1,010,622
25.0001 Unobligated balance lapsing	11,841	.....	.....	11,841	.....	.....
40.0001 Budget authority	506,013	1,711,456	2,300,700	506,013	1,711,456	2,300,700
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				467,662	1,211,802	1,949,895
72.4001 Obligated balance, start of year				569,772	698,807	1,487,009
74.4001 Obligated balance, end of year				-698,807	-1,487,009	-2,591,304
77.0001 Adjustments in expired accounts				4,721	.....	.....
78.0001 Adjustments in unexpired accounts				-4,058	.....	.....
90.0001 Outlays				339,290	423,600	845,600

Object Classification (in thousands of dollars)

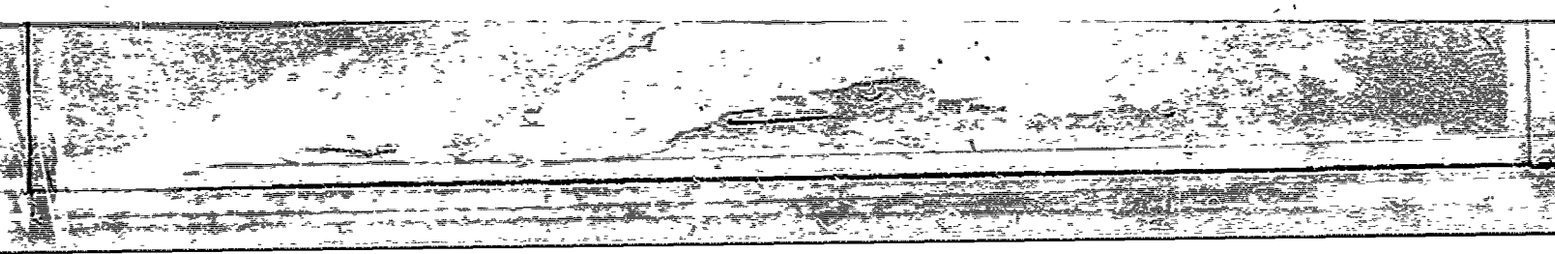
Identification code 17-1109-0-1-051		1981 actual	1982 est.	1983 est.
	Direct obligations:			
126.001	Supplies and materials	83,229	285,645	576,221
131.001	Equipment	385,295	924,482	1,373,625
199.001	Total direct obligations	468,524	1,210,127	1,949,846
	Reimbursable obligations:			
231.001	Equipment	.....	1,675	49
999.901	Total obligations	468,524	1,211,802	1,949,895

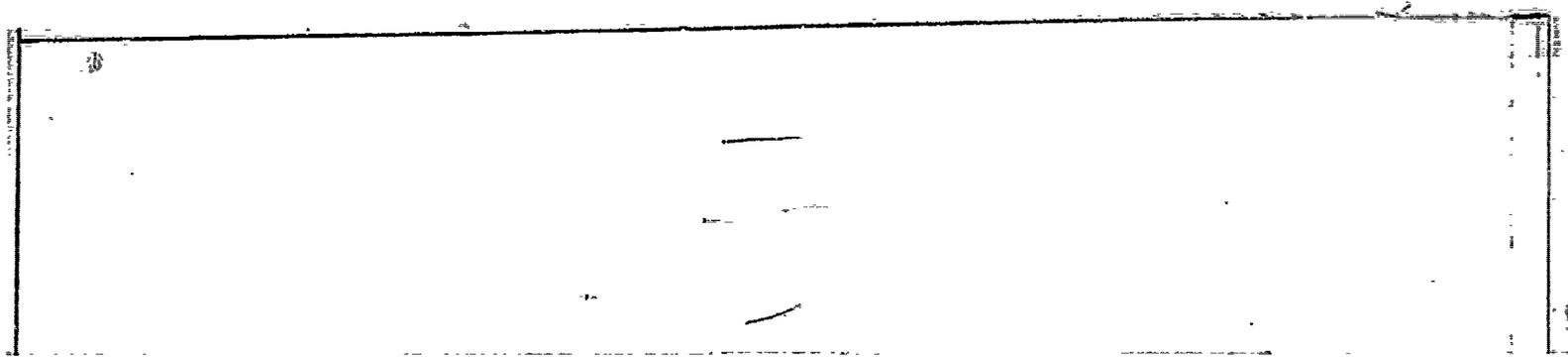


Navy | Procurement, Marine Corps | 08 FEB 82

Program and Financing (in thousands of dollars) | 1979 Fiscal year program

Identification code 17-1109-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ammunition	.....	.....	.....	4,284	.....	.....
2. Weapons and combat vehicles	.....	.....	.....	987	.....	.....
3. Guided missiles and equipment	.....	.....	.....	1,825	.....	.....
4. Communications and electronics equipment	.....	.....	.....	18,772	.....	.....
5. Support vehicles	.....	.....	.....	2,025	.....	.....
6. Engineer and other equipment	.....	.....	.....	9,021	.....	.....
10.0001 Total	.....	.....	.....	36,914	.....	.....
Financing:						
Offsetting collections from:						
11.0001 Adjustment to prior year federal fund orde	.....	.....	.....	-1	.....	.....
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-3,266	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-45,488	.....	.....
21.4002 Reprograming from or to prior year budget plan	-11,841	.....	.....	.....	.....	.....
25.0001 Unobligated balance lapsing	11,841	.....	.....	11,841	.....	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....





Navy | Procurement, Marine Corps | 08 FEB 82

Program and Financing (in thousands of dollars) | 1980 Fiscal year program

Identification code 17-1109-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ammunition	.....	.....	.....	239	1,311	.....
2. Weapons and combat vehicles	.....	.....	.....	2,118	1,392	.....
3. Guided missiles and equipment	.....	.....	.....	978	414	.....
4. Communications and electronics equipment	.....	.....	.....	23,839	27,243	.....
5. Support vehicles	.....	.....	.....	5,267	1,386	.....
6. Engineer and other equipment	.....	.....	.....	11,088	8,761	.....
Total direct	.....	.....	.....	43,529	40,507	.....
Reimbursable program	.....	.....	.....	.....	863	.....
10.0001 Total	.....	.....	.....	43,529	41,370	.....
Financing:						
Offsetting collections from:						
17.0001 Recoveries of prior year obligations(-)	.....	.....	.....	-792	.....	.....
Unobligated balance available, start of year:						
21.4001 For completion of prior year budget plans	.....	.....	.....	-84,108	-41,370	.....
21.4002 Available to finance new budget plans	-8,700	.....	.....	-8,700	.....	.....
23.4001 Unobligated balance transferred to other accounts	8,700	.....	.....	8,700	.....	.....
24.4001 Unobligated balance available, end of year	.....	.....	.....	41,370	.....	.....
40.0001 Budget authority	.....	.....	.....	.....	.....	.....



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Program and Financing (in thousands of dollars)

Identification code 17-1109-0-1-051

		Budget plan (amounts for procurement actions programed)			1981 Fiscal year program Obligations		
		1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
	Program by activities:						
	Direct:						
	1. Ammunition	81,555	.....	.....	79,821	1,234	500
	2. Weapons and combat vehicles	98,848	.....	.....	48,290	35,940	14,616
	3. Guided missiles and equipment	101,043	.....	.....	95,976	3,000	2,067
	4. Communications and electronics equipment	90,533	.....	.....	58,245	10,000	22,288
	5. Support vehicles	87,159	.....	.....	85,122	500	1,537
	6. Engineer and other equipment	46,877	.....	.....	20,627	6,500	19,750
	Total direct	506,013	.....	.....	388,081	57,174	60,758
	Reimbursable program	861	.....	.....	.....	812	49
10.0001	Total	506,874	.....	.....	388,081	57,986	60,807
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds	-861	.....	.....	-861	.....	.....
21.4001	Unobligated balance available, start of year	.....	.....	.....	.....	-118,793	-60,807
24.4001	Unobligated balance available, end of year	.....	.....	.....	118,793	60,807	.....
40.0001	Budget authority	506,013	.....	.....	506,013	.....	.....

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Program and Financing (in thousands of dollars) | 1982 Fiscal year program

Identification code 17-1109-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ammunition		314,546			283,090	15,725
2. Weapons and combat vehicles		424,107			381,686	21,205
3. Guided missiles and equipment		213,817			192,400	10,700
4. Communications and electronics equipment		325,102			84,699	160,004
5. Support vehicles		154,686			92,811	46,401
6. Engineer and other equipment		279,198			77,760	139,600
10.0001 Total		1,711,456			1,112,446	393,635
Financing:						
21.4001 Unobligated balance available, start of year						-599,010
24.4001 Unobligated balance available, end of year					599,010	205,375
40.0001 Budget authority		1,711,456			1,711,456	

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Program and Financing (in thousands of dollars) | 1983 Fiscal year program

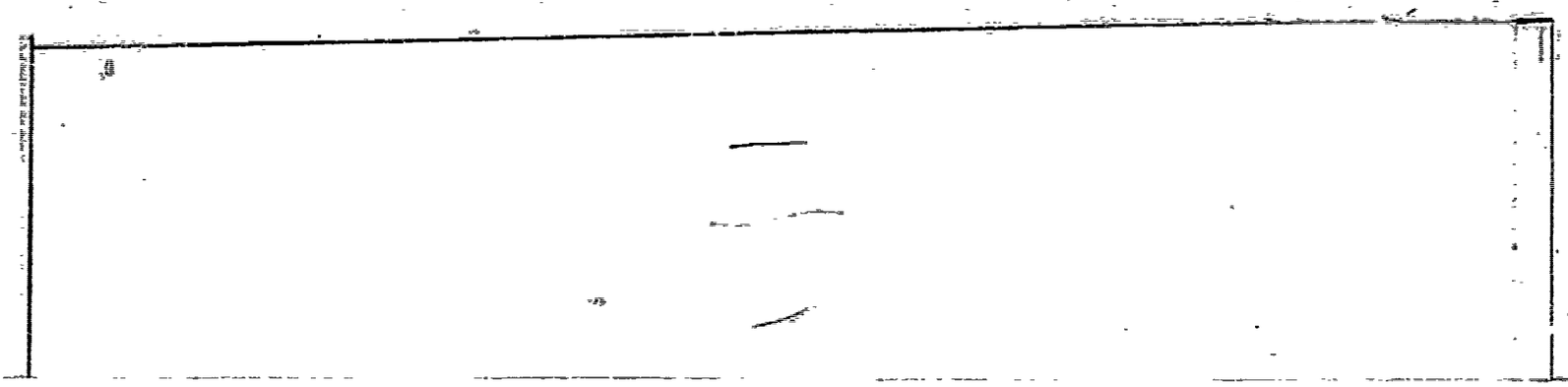
Identification code 17-1109-0-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
1. Ammunition	.....	.....	630,200	.....	.....	560,000
2. Weapons and combat vehicles	.....	.....	486,000	.....	.....	430,000
3. Guided missiles and equipment	.....	.....	263,900	.....	.....	230,000
4. Communications and electronics equipment	.....	.....	476,800	.....	.....	90,453
5. Support vehicles	.....	.....	190,900	.....	.....	110,000
6. Engineer and other equipment	.....	.....	252,900	.....	.....	75,000
10.0001 Total	.....	.....	2,300,700	.....	.....	1,495,453
Financing:						
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	.....	805,247
40.0001 Budget authority	.....	.....	2,300,700	.....	.....	2,300,700

Navy | Procurement, Marine Corps | 08 FEB 82

(Supplemental now requested under existing legislation)

Program and Financing (in thousands of dollars)

Identification code 17-1109-1-1-051	Budget plan (amounts for procurement actions programed)			Obligations		
	1981 actual	1982 est.	1983 est.	1981 actual	1982 est.	1983 est.
Program by activities:						
Direct:						
10.0001 Total	.....	20,000	.....	.....	13,000	4,600
Financing:						
21.4001 Unobligated balance available, start of year	.....	.....	.....	.....	.....	-7,000
24.4001 Unobligated balance available, end of year	.....	.....	.....	.....	7,000	2,400
40.0001 Budget authority (appropriation)	.....	20,000	.....	.....	20,000	.....
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				.....	13,000	4,600
72.4001 Obligated balance, start of year				.....	.....	12,000
74.4001 Obligated balance, end of year				.....	-12,000	-11,200
90.0001 Outlays				.....	1,000	5,400



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(Supplemental now requested under existing legislation)

Object Classification (in thousands of dollars)

Identification code 17-1109-1-1-051		1981 actual	1982 est.	1983 est.
131.001	Equipment	.....	13,000	4,600
999.901	Total obligations	.....	13,000	4,600



INTRODUCTORY STATEMENT

(In Thousands of Dollars)

	FY 1981 Actual	FY 1982 Estimate	FY 1983 Estimate	FY 1984 Authorization Estimate
Direct Obligations	468,524	1,223,127	1,949,846	2,026,486
Direct obligations against prior year programs	80,443	97,681	454,393	734,535
Obligations against current year program	388,081	1,125,446	1,495,453	1,291,951
Add unobligated current year program	117,932	606,010	805,247	695,666
Direct Program (TOA)	506,013	1,731,456	2,300,700	1,987,617

The appropriation "Procurement, Marine Corps" provides for procurement and delivery of all major items of combat, tactical equipment, and munitions, as well as plant equipment with $3,000 unit cost or greater and initial outfitting requirements.

The Marine Corps has the responsibility of equipping, training, and maintaining a body of the most modern fighting units, ready to deploy on a moment's notice to any part of the world, prepared to fight either a limited or a general war. These three factors - readiness, mobility, and modernity - form the basis upon which the Marine Corps materiel program is constructed.

SUMMARY OF REQUIREMENTS
(In Thousands of Dollars)

	FY 1981 Actual	FY 1982 Estimate	FY 1983 Estimate	FY 1984 Authorization Estimate
Ammunition	81,555	314,546	630,200	345,118
Weapons and Combat Vehicles	98,846	424,107	486,000	431,867
Guided Missiles and Equipment	101,043	213,817	263,900	249,962
Communications and Electronics Equipment	90,533	325,102	476,800	549,122
Support Vehicles	87,159	174,686	190,900	211,188
Engineer and Other Equipment	46,877	279,198	252,900	200,360
TOTAL DIRECT PROGRAM	506,013	1,731,456	2,300,700	1,987,617
Reimbursable Program	861	-	-	-
TOTAL PROGRAM REQUIREMENTS (Current)	506,874	1,731,456	2,300,700	1,987,617
Less: Portion of program to be obligated in subsequent fiscal years	118,793	606,010	805,247	695,666
Plus: Obligations incurred against prior year program funds	80,443	99,356	454,442	734,535
TOTAL OBLIGATIONS	468,524	1,224,802	1,949,895	2,026,486

Budget Activity 1: Ammunition

(In Thousands of Dollars)	
FY 1984 Estimate	345,118
FY 1983 Estimate	630,200
FY 1982 Estimate	314,546
FY 1981 Actual	81,555

Purpose and scope of work

This activity provides for the Marine Corps' annual peacetime training needs and the acquisition of war reserve stocks for use in the event of mobilization. Munitions included in the request include tank and artillery munitions, mortar and small arms ammunition, mines, fuzes, demolitions and pyrotechnic devices, and other ammunition items.

Justification of funds

The Fiscal Year 1983 program is intended to support Marine Corps worldwide training consumption, procurement of modern hardware and build up of war reserve stocks. Funds requested will enhance Marine Corps readiness and combat sustainability since they will permit progress toward achievement of Fiscal Year 1985 authorized acquisition objectives. The Fiscal Year 1983 breaks down into the following major categories: 155mm artillery ammunition - $396.1 million, 8" artillery ammunition - $65.2 million, tank ammunition - $7.5 million; mortar ammunition - $3.6 million; 25mm ammunition - $18.0 million; small arms ammunition - $76.5 million, and other essential programs consisting of grenades, SMAW, 5" rocket motors, M2 cutters, linear charges, ammo modernization items, items costing less than $900,000 each, all totalling $53.3 million.

The Fiscal Year 1984 program continues the procurement of Marine Corps Ammunition through the Fiscal Year 1984 Authorization request. This program identifies a funding requirement of $345.1 million for the following major categories. 155mm artillery ammunition - $142.1 million; 8" artillery ammunition - $26.0 million; tank ammunition - $22.6 million; mortar ammunition - $15.5 million; 25mm ammunition - $9.0 million, small arms ammunition - $70.8; and other essential programs consisting of grenades, SMAW, 5" rocket motors, M2 cutters, linear charges, ammo modernization items, items costing less than $900,000 each, all totalling $59.1 million.

Budget Activity 2: Weapons and Tracked Combat Vehicles

(In Thousands of Dollars)	
FY 1984 Estimate	431,867
FY 1983 Estimate	466,000
FY 1982 Estimate	424,107
FY 1981 Actual	98,846

Purpose and scope of work

This activity supports procurement of tanks, tank recovery vehicles, amphibious vehicles, self-propelled and towed artillery, and small arms. It also supports acquisition of weapons and tracked combat vehicle associated equipment, modification kits, and initial and replenishment spares.

Justification of Funds

Each of the major items contained in this request is discussed below:

LVT7A1 - $151.5 million is requested to procure a total of 168 vehicles.

LVT7 Service Life Extension Program (SLEP) - $157.2 million is requested for procurement of kits for the continuation of the SLEP program for LVT7 Vehicles. The LVT7 SLEP is a product improvement program designed to extend the useful life of the present amphibian vehicle to 1989 or beyond.

LAV - $89.7 million is requested for the acquisition of a light armored vehicle family, fully equipped with armament, fire-control systems, support equipment and supplies. These vehicles will be used to begin formation of a rapidly deployable combat unit equipped with highly transportable armored vehicles. FY 1983 funding will support the acquisition of 134 vehicles.

Spares and Repair Parts -$19.9 million is requested for initial and replenishment spares and repair parts for Weapons and Tracked Combat Vehicles. Such support is essential for the fielding of new items of equipment and the continued support of items already in the field.

M2 Machine Gun, 50 Cal - $3.0 million is requested for the procurement of 273 machine guns required in support of the MPS program. The M2 is the current heavy machine gun in use.

9mm Handgun - $2.0 million is requested for the initial procurement of 5,000 of the new service pistols.

M60 Machine Gun, 7.62mm - $0.2 million is requested to replace existing worn-out weapons and to meet MPS requirements.

Machine Gun, Light, Squad Automatic (SAW) 5.56mm - $8.4 million is requested for the procurement of 2,907 of these light machine guns.

Rifle, 5.56mm, M16A1 - $28.5 million is requested to provide for the replacement of existing rifles worn out in service with an improved version that includes improvements in reliability and operational capability. A total of 20,000 rifles will be procured in FY 1983.

Machine Gun, 40mm, MK19 - $16.5 million is requested for the procurement of 570 of these machine guns.

Shoulder-fired Multi-purpose Assault Weapons (SMAW) - $2.2 million is requested for the initial procurement of 295 SMAWs urgently needed within the infantry units.

Items Less than $900,000 - A total of $6.9 million is requested for mortars, Marine Corp Rifle Team equipment, explosive ordnance disposal items, artillery fire control equipment, and modifications for tracked vehicles and artillery associated equipment.

The Fiscal Year 1984 Authorization request identifies $106.5 million for the continuation of the LVT7 Service Life Extension Program, $163.5 million for procurement of 171 LVT7A1 vehicles to support mobility enhancement, $84.3 million for procurement of 141 LAV's; $13.5 million for an artillery computer system and explosive ordnance disposal equipment; $47.4 million for small arms; $10.2 million for spares and repair parts; $5.4 million for modification kits, and $1.1 million for minor programs costing less that $900,000 each.

Budget Activity 3: Guided Missiles and Equipment

(In Thousands of Dollars)
FY 1984 Estimate 249,962
FY 1983 Estimate 263,900
FY 1982 Estimate 213,817
FY 1981 Auth Est. 101,043

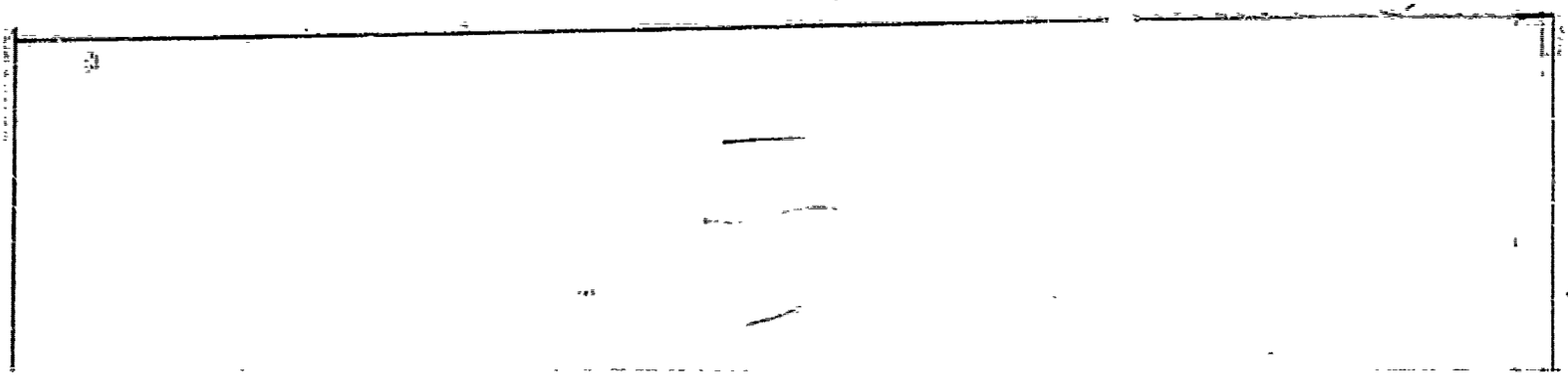
Purpose and scope of work

This activity supports procurement of surface-to-air guided missiles, surface-to-surface anti-tank guided missiles, and related ground support equipment. Funds requested are essential to support continuing efforts to enhance the air defense and anti-tank/assault capabilities of Marine Corps ground forces.

Justification of funds

Each of the major items contained in this request is discussed below.

Improved HAWK Missile System - $75.4 million is requested for 213 HAWK Missiles and related support equipments. This procurement continues the program to equip three HAWK battalions with four TRIAD batteries each.



Improved HAWK Modifications - $20.7 million is requested for modifications to the Improved HAWK system. These modifications will be applied to system radar equipment to increase reliability and maintainability and provide for improved anti-radiation missile countermeasures.

STINGER Missile System - $115.6 million is requested for 1560 STINGER missiles and system equipment representing the fifth year of a planned nine year program designed to meet inventory objectives. The STINGER replaces the obsolete REDEYE missile, having greater accuracy and significantly improved engagement/attack capabililty.

Spares and Repair Parts - $12.0 million is requested for initial and replenishment spares and repair parts. Such support is essential to the fielding of new items of equipment and the continued support of items already in the field.

Dragon Missile System - $0.7 million is requested for the Dragon Missile System required test equipment.

TOW Product Improvement Program - $9.4 million is requested for modifications to the TOW Missile system to convert TOW launcher systems to the TOW II configuration.

TOW Missile System - $28.6 million is requested for 1,000 TOW Missiles and support equipment for the USMC Mobility Enhancement Program.

Modification Kits - $1.5 million is requested for specific modifications to major and/or secondary items of the Improved HAWK, TOW, and DRAGON Missile Systems. The majority of these required modifications are the result of minor engineering change proposals approved by the U. S. Army and U. S. Marine Corps.

The Fiscal Year 1984 Authorization request of $250 million dollars finances the following programs: $15.1 million for HAWK missile modifications, $50.4 million for HAWK ground support equipment, $115.7 million for STINGER missile and support equipment; $53.6 million for TOW Platoon, $12.2 million for initial and replenishment spare parts; and $3.0 million for the continuation of missile modification programs and the Dragon Missile System support.

Budget Activity 4: Communications and Electronics Equipment

(In Thousands of Dollars)	
FY 1984 Estimate	549,122
FY 1983 Estimate	476,800
FY 1982 Estimate	325,102
FY 1981 Actual	90,533



Purpose and scope of work

This activity supports acquisition of communications and electronic systems essential to the conduct of modern amphibious warfare. Programs involved include tactical radios and equipment, telephone and teletype equipment, command and control systems, radars and radar equipment, intelligence/communications equipment, repair and test equipment, night vision equipment, equipment modification, and spares and repair parts.

Justification of funds

Funds requested for Fiscal Year 1983 are vital for modernization and improvement of the Marine Corps' communications/electronics posture to ensure that combat units are afforded the latest electronics advantages and protection.

This request includes the following telecommunications equipment: $57.2 million for tactical radios and equipment; $18.8 million for teletype equipment; $4.5 million for repair and test equipment (Tel); $.8 million for test calibration and maintenance support; $13.3 million for initial and replenishment spares and repair parts; $3.7 million for modification kits; and $1.9 million for essential minor programs costing less than $900,000 each.

For non-telecommunications equipment, this request includes. $44.2 million for 2 Position Locating Reporting system (PLRS); $24.1 million for 2 Intelligence Analysis Centers (IAC); $3.1 million for the Air/Mobile Direct Air Support Center (DASC), $127.6 million for radar sets, $4.0 million for the team portable direction finder; $4.5 million for the Automatic Atmospheric Sounding Set; $1.0 million for a radar countermeasure set, $4.1 million for electronic test equipment (NONTEL); $45.6 million for night vision equipment; $8.9 million for the laser observation set; $47.8 million for the modular universal laser equipment (MULE) (multi-year contract); $15.5 million for automated data processing equipment, $24.0 million for initial and replenishment spares and repair parts (NONTEL); $19.3 million for modification kits, and $2.9 million for essential minor programs costing less than $900,000 each in FY 1983.

The Fiscal Year 1984 request includes the following for telecommunications equipment: man/vehicle radios - $68.1 million, telephone and teletype equipment - $87.6 million, repair and test equipment - $7.8 million; other communications electronic equipment comprised of test calibration and maintenance support equipment, spares and repair parts, modification kits, and essential items costing less than $900,000 - which totals $46.7 million.

The Fiscal Year 1984 request for non-telecommunications equipment includes the following: command and control systems - $149.7 million; intelligence/communications equipment - $44.3 million; repair and test equipment - $6.0 million, other communications electronic equipment (night vision goggles, night vision sights AN/TVS 5 and AN/PVS 4, TOW night sight, Dragon night sight, laser observation set, modular universal laser equipments, productivity investment, and automated data processing equipment) totalling $57.7 million, and other support equipment (test and calibration equipment, spares and repair parts, modification kits, and items costing less than $900,000) totalling $81.2 million

Budget Activity 5: Support Vehicles

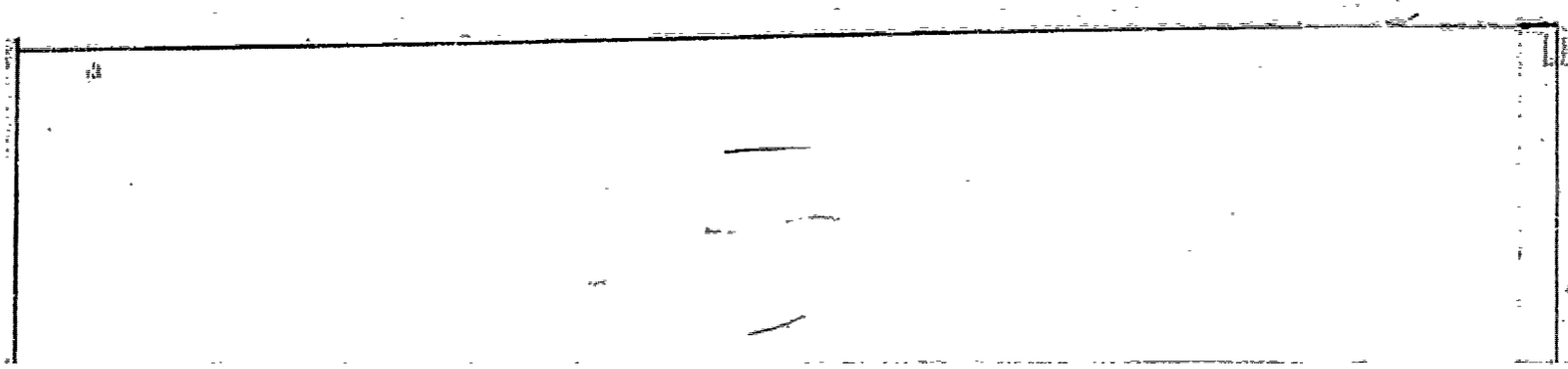
(In Thousands of Dollars)	
FY 1984 Estimate	211,188
FY 1983 Estimate	190,900
FY 1982 Estimate	174,686
FY 1981 Actual	87,159

Purpose and scope of work

This activity supports procurement of commercial passenger and cargo vehicles required in support of Marine Corps-wide post and station operations and tactical vehicles required by deployable operation and support forces. Included in the category of commercial passenger and cargo vehicles are: sedans, station wagons, and buses; general and special purpose heavy and light trucks; firefighting, refuse collection, and tanker trucks, and various types of trailers and motor scooters. Tactical vehicles procured under this activity consist of military designed prime movers and general purpose vehicles equipped as needed for support of combat operations.

Justification of funds

Funds requested in Fiscal Year 1983 commercial passenger and cargo vehicles will support acquisition of replacement commercial passenger vehicles at a cost of $2.0 million and 855 commercial cargo vehicles of a cost of $16.3 million. In each instance, funds requested represent the minimum funding, considered essential for incremental elimination of over-age/over-mileage vehicles in the current fleet while striving to fill authorized allowances. Other requirements in this activity consist of $40.4 million for 5/4T vehicle, $3.7 million for the aircraft fire and rescue vehicle, $87.1 million for 1,382 of the 5-ton family of vehicles; $28.2 million for the Logistics Vehicle System; $8.4 million for initial and replenishment spares and repair parts; $1.1 million for modification kits, and $3.8 million for essential minor programs costing less than $900,000 in FY 1983.



The Fiscal Year 1984 request for support vehicles breaks down into the following major areas. $24.8 million for commercial passenger/cargo vehicles; $68.8 million for the 5/4 Ton Truck HMMWV, $1.5 million for the 1 1/4 Ton Truck; $3.7 million for the A/C fire and rescue vehicle, $4.9 million for the 5 Ton Dump Truck; $47.7 million for the 5 Ton Cargo Truck; $6.7 million for the 5 Ton extended bed truck; $14.2 million for 5 Ton Retrofit line, $24.5 million for the Logistical Vehicle System; $1.0 million for the Shop sets, $8.1 million for spares and repair parts; $1.3 million for modification kits; and $4.0 million (rounded) for essential items costing less than $900,000 each.

Budget Activity 6: Engineer and Other Equipment

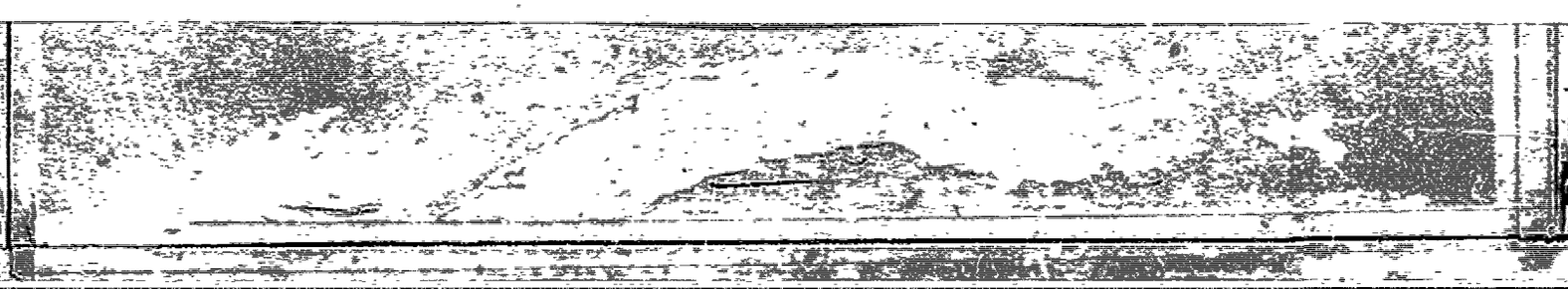
	(In Thousands of Dollars)
FY 1984 Estimate	200,360
FY 1983 Estimate	252,900
FY 1982 Estimate	279,198
FY 1981 Actual	46,877

Purpose of scope of work

This activity provides for acquisition of combat and service support requirements for earthmoving construction, and material handling equipment, power generating and environmental control equipment, for fuel dispensing systems, special training devices, and miscellaneous investment type plant equipment to support Marine Corps posts and stations.

Justification of funds

Funds requested for Fiscal Year 1983 are identified to the following programs. $1.7 million for mine clearance kits; $3.0 million for environmental control equipment; $5.0 million for compressors; $2.3 million for motorized road graders, $7.8 million for wheeled scraper-tractors, $30.2 million for medium tractors, $2.1 million winch attachments; $1.8 million for articulated tractors; $2.2 million for fork lift attachment 10,000 LB cap, $2.2 million for refrigeration units, $1.3 million for refrigeration boxes, $16.9 million for reverse osmosis water purification units; $9.8 million for water supply support systems; $1.0 million for welding machines; $2.3 million for a fuel, water, pump and storage module, $9.2 million for amphibious assault fuel system; $3.0 million for tactical airfield fuel dispensing system, $1.0 million for topographic survey set, $5.5 million for boat bridge, $30.5 million for medium girder bridge, $15.5 million for assorted power equipment; $25.2 million for command support equipment; $7.3 million for garrison mobile engineering equipment; $3.3 million for material handling equipment, $4.6 million for field medical equipment; $1.9 million special training devices; $4.2 million for position azimuth determination system, $19.4 million for family of shelters, $4.1 million for family of containers, $4.8 million for decontamination apparatus, $1.2 million for sanitation equipment; $7.7 million for initial and replenishment spares and repair parts; $4.4 million for modification kits, and $10.5 million for essential minor programs costing less than $900,000 each in FY 1983.



The Fiscal Year 1984 request is broken down into the following major areas. $4.4 million for environmental control equipment; $0.4 million for compressors; $8.4 million for wheeled scraper tractors; $0.4 million for full tracked tractors; $0.2 million for articulated tractors; $3.3 million for shop equipment, $0.4 million for fork lift attachments; $3.4 for container handlers; $0.3 million for helo slings; $2.9M for laundry units $2.7 million for refrigeration units, $1.4 million for refrigeration boxes, $1.7 million for flood light sets; $16.4 million for reverse osmosis water purification units; $9.2 million for water supply support systems; $3.0 million for field wiring harnesses, $1.1 million for collapsible tanks, $6.2 million for fuel, water, pump and storage modules; $13.6 million for amphibious assault fuel system; $3.6 million for tactical airfield fuel dispensing system, $28.0 million for medium girder bridges. $13.4 million for assorted power equipment; $7.6 million for command support equipment; $7.0 million for garrison mobile engineer equipment, $4.2 million for automatic material handling equipment, $0.9 million for HQMC items, $3.4 million for material handing equipment; $1.2 million for copying machines; $0.1 million for field medical equipment; $1.6 million for special training devices, $30.4 million for the shelter family, $4.0 million for the container family; $3.3 million for decontamination apparatus; $1.2 million for sanitation equipment. $4.4 million for spares and repair parts; $1.7 million for modification kits, $5.0 million for essential items costing less than $900,000 each.

COMPARISON OF FY 1981 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1982 BUDGET WITH FY 1981 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1982 Budget	Total Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
Ammunition	80,226	81,555	+1,329
Weapons and Combat Vehicles	100,115	98,846	-1,269
Guided Missiles and Equipment	102,256	101,043	-1,213
Communications and Electronics Equipment	88,758	90,533	+1,775
Support Vehicles	86,805	87,159	+354
Engineer and Other Equipment	47,853	46,877	-976
Total Fiscal Year Program	506,013	506,013	0

EXPLANATION

No changes of major significance have occurred during the past year, only minor adjustments netting to the variance column shown above by budget activity.

COMPARISON OF FY 1981 FINANCING AS REFLECTED
IN FY 1982 BUDGET WITH FY 1981 FINANCING AS
SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	$506,013	506,874	+861
Program Requirements (Service Account	(506,013)	(506,013)	0
Program Requirements (Reimbursable)	-	(861)	(+861)
Appropriation	506,013	506,874	+861

EXPLANATION OF CHANGES IN FINANCING

The tiscal year 1981 financing has been increased by $861 thousand as a result of unanticipated reimbursable orders for various equipment.

COMPARISON OF FY 1982 PROGRAM REQUIREMENTS AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 PROGRAM REQUIREMENTS AS SHOWN IN FY 1983 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

	Total Program Requirements Per 1982 Budget	Total Program Requirements Per 1983 Budget	Increase (+) or Decrease (-)
Ammunition	324,263	314,546	-9,717
Weapons and Combat Vehicles	419,307	424,107	+4,800
Guided Missiles and Equipment	216,917	213,817	-3,100
Communications and Electronics Equipment	365,562	325,102	-40,460
Support Vehicles	154,669	174,686	+20,017
Engineer and Other Equipment	254,198	279,198	+25,000
Total Fiscal Year Program	1,734,916	1,731,456	-3,460

EXPLANATION BY BUDGET ACTIVITY

Ammunition - ($-9.7 million)

$8.0 million of the total reduction is a result of a general reduction by the Congress which was applied to the 155MM ICM (DP) projectile; The remaining $1.7 million reduction was due to reduction in quantities requested for various artillery projectiles.

Weapons and Combat Vehicles - ($+4.8 million)

This increase results from increased requirements for support items, primarily modification kits.

Guided Missiles and Equipment - ($-3.1 million)

This reduction is due to decreased requirements for modification kits.

Communications and Electronics Equipment - ($-40.5 million)

Reflects deletion of the Position Location and Reporting System (PLRS) program by the Congress.

Support Vehicles - ($+20.0 million)

This increase is the proposed supplemental for the Logistics Vehicle System.

Engineer and Other Equipment - ($+25.0 million)

This increase results from a Congressional add-on for Rapidly Deployable Medical Facilities.

COMPARISON OF FY 1982 FINANCING AS REFLECTED IN FY 1982 BUDGET WITH FY 1982 FINANCING AS SHOWN IN FY 1983 BUDGET

(In Thousands of Dollars)

	Financing Per FY 1982 Budget	Financing Per FY 1983 Budget	Increase (+) or Decrease (-)
Program Requirements (Total)	$1,734,916	$1,731,456	$-3,460
Program Requirements (Service Account)	(1,734,916)	(1,731,456)	(-3,460)
Program Requirements (Reimbursable)	-	-	-
Appropriation	$1,743,916	$1,731,456	$-3,460

EXPLANATION OF CHANGES IN FINANCING

The fiscal year 1982 financing has been decreased by $3.460 million as shown below:

Congressional Reduction (net)	-23,460
Position Locating and Reporting System (PLRS)	-40,460
General Reduction (ammunition)	-8,000
Rapidly Deployable Medical Facilities	+25,000
Proposed Supplemental	+20,000
Logistics Vehicle System	+20,000

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 83

Nomenclature: Radio Set, AN/PRC-() UHF

Mission/Description: The AN/PRC-() UHF radio set is a handheld ground-to-air transceiver which provides 3500 channels of voice communications over the frequency range 225.00 to 399.95 Mhz with 5 watts of power; channel spacing is 25Khz. The primary candidate for the AN/PRC-() UHF is the Air Force procurement of the AN/PRC-113. The AN/PRC-113 is HAVE QUICK capable and is compatible with the VINSON COMSEC equipments. The AN/PRC-113 also has VHF-AM capability in the frequency range 116.05 to 149.975 Mhz with 25 Khz channel spacing.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	0	0.0	974	17.8

Basis for FY 1983 Request: The FY 1983 request will allow the Marine Corps to exercise options on a current contract. This radio set will replace the FT-695A/PRC-41 in vehicular systems and the AN/PRC-75A in the manpack configuration. The vehicular radios are expected to be non-supportable in 4th quarter FY 1983. The AN/PRC-75A is expected to become unsupportable during FY 1984. Denial of the FY 1983 would have a serious impact on the Marine Corps ground-to-air communications capability.

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 86

Nomenclature: Radio Set, AN/PRC-68

Mission/Description: The AN/PRC-68 is a lightweight, pocket sized, VHF transceiver designed for use within Marine Corps rifle platoons. The radio provides short range voice communications of any of 1,000 available channels, 10 of which are selectable from a front panel switch. The Radio Set has a secure voice capability when used with the Communications Security Equipment, TSEC/KIV-2.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
1368	3.2	1143	2.6	2509	6.3

Basis for FY 1983 Request: This request for FY 1983 will allow for deployment of the Radio Set for IV Marine Amphibious Force (MAF) and Maritime Prepositioning Ships (MPS) program. The radio has been delivered to support II MAF requirements and will be delivered to support I MAF (FY 1981 procurement) and III MAF (FY 1982 procurement). Denial of this request will cause a disruption in production deliveries and will not allow for the flexible utilization of IV MAF, if activated. Additionally, the denial will not allow for the quantities of the item required to support the MPS program.

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 87

Nomenclature: Radio Set, AN/PRC-77

Mission/Description: The Radio Set, AN/PRC-77, is a medium range VHF-FM radio used at the platoon/company level. The radio operates in the 30.0 to 75.95 MHZ range with 50 KHZ channel spacing with an output power of 3.0 watts. All channels are selected from the front panel. The radio set has voice security capability when used with the NESTOR or VINSON COMSEC equipments. The radio is replacement for the AN/PRC-25 which is being phased out of service.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	547	0.8	2,624	4.4

Basis for FY 1983 Request: The request for FY 1983 will allow for full deployment of the Radio Set, AN/PRC-77, and will allow for the removal of all Radio Sets, AN/PRC-25, from the Marine Corps inventory. A complete phase-in of the AN/PRC-77 will allow all active and reserve forces to have communications security capability, as well as the required quantities to support the Maritime Prepositioning Ships (MPS) program. Denial of this request will cause the Marine Corps to continue to utilize the AN/PRC-25 in some organizations with a correspondence loss of portable communications security capability through FY 1987. Additionally, the denial may require a drawdown of active/reserve force assets to support the MPS program.

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 89

Nomenclature: Ground Mobile Satellite Communication, AN/TSC-93A

Mission/Description: The AN/TSC-93A is a multichannel SHF Satellite Communications Terminal mounted in a S-250 shelter on a 5/4 ton truck providing point-to-point or non-nodal radio communications with up to 24 voice channels utilizing standard area communications multiplexing. It operates as a "spoke" terminal with the AN/TSC-85 multipoint or nodal terminals.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
6	3.0	2	1.8	7	4.0

Basis for FY 1983 Request: FY1983 is the last year of a 5 year multiyear contract and will provide 100% of the inventory objective. The procurement is a major part of a planned multi-year program to provide the Fleet Marine Force with long-haul combat operational tactical communications systems.

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 90

Nomenclature: Radio Central, AN/TRA-()

Mission/Description: The Radio Central, AN/TRA-(). consists of a standard S-280 shelter designed to house a mix of 15 radios to support the DASC (AN/UYG-4) and TACC operations. This coupler group provides full-function remote capability (including crypto), allowing operation of the communication equipments at the operator location.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	10	5.5	12	6.2

Basis for 1983 Request: The FY 1983 procurement provides the additional assets required to replace the aging and readiness deficient AN/TYA-11. These assets will be issued to the active forces achieving 73.3% of the Acquisition Objective (AO).

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 95

Nomenclature: VINSON Installation Kits

Mission/Description: The VINSON Installation Kits (IK's) consist of mounts, interface junction boxes, cables, and hardware designed to mount speech security equipment (KY-57) in tactical vehicles for use with wideband radios. The speech security devices and radios have been procured separately from the IK's.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
1159	1.5	3530	7.2	2232	6.2

Basis for FY 1983 Request: The FY 1983 procurement is a major part of a planned multi-year program to secure tactical voice communications in accordance with National directives. The Secure Voice Equipments, procured by the National Security Agency (NSA), are being delivered over the next several years. The associated radios have been fielded. Initial deliveries of IK's started in 1979. Installation is being completed by Marine Corps support activities. Denial of this request will cause a disruption in production and installation in speech security equipment and radios already on hand, resulting in a delay of securing tactical voice communications with resultant increased costs.

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 97

Nomenclature: Steerable Null Antenna Processor, CP-1380/VRC

Mission/Description: The CP-1380/VRC is an antenna processor electronic counter-countermeasure device which will be deployed with vehicular mounted VHF/FM radio sets operating on essential combat command and fire control radio nets. The device is designed to be mounted in the mount MT-1898/VRC and requires R.F. input from two VHF antennas.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	0	0.0	227	3.9

Basis for FY 1983 Request: The FY 1983 procurement will provide Marine Corps activities with the initial electronic counter-countermeasures capability on essential combat command and fire control circuits. The associated vehicular radio sets have been fielded. The deliveries of the FY 1983 procurement will be initial deliveries of this item. Denial of this request will prevent early adoption of the item into the Marine Corps which will force units to continue to operate without electronic counter-countermeasure capability.

PROCUREMENT, MARINE CORPS
Tactical Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 110

Nomenclature: Digital Communications Terminal, AN/PSC-2

Mission/Description: The AN/PSC-2, Digital Communications Terminal (DCT), is a handheld programmable input/output unit used for composing, editing, transmitting, receiving, and displaying messages in conjunction with standard military radios. The terminal enables the user to transmit/receive messages in short digital bursts. The DCT will be employed by both mobile and static subscribers within the FMF who have a requirement to provide source data to a tactical data or record traffic terminal.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	390	9.0	596	17.8

Basis for FY 1983 Request: This is the second of a 5 year procurement effort and will provide 7.0% of the acquisition objective. Denial of this request will cause delays in production deliveries and receipt of the final drawing package required for future competitive procurement.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 122

Nomenclature: Position Location Reporting System (PLRS) AN/TSQ-129

Mission/Description: PLRS is a lightweight, portable tactical command and control system that will automatically provide accurate, real-time position location information relative to friendly combat elements to the tactical commander to significantly enhance combat effectiveness through better maneuver control, deployment optimization, and more effective fire and air support coordination. It will also provide equipped users (ground, surface vehicle and selected aircraft), regardless of weather/visibility conditions, with their own positions (accurate to 15 meters for ground/surface users and 100 meters for aircraft), location and identification of other users and reliable navigation aid on the battlefield. The PLRS system consists of 1 Master Station, 1 alternate Master Station, 1 Maintenance Shelter and up to 370 user units of any type.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0	0	0	2	44.2

Basis for FY 1983 Request: FY83 funding will provide 12.5% of the inventory objective. Delay of funding will escalate system cost and delay IOC.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 125

Nomenclature: Intelligence Analysis Center (IAC) AN/TYQ-19

Mission/Description: The Intelligence Analysis Center (IAC), a MAGIS segment, is an automated all-source intelligence information fusion system. Its data base is initially loaded with area tape files from the Naval Intelligence Processing System (NIPS) and then continually updated with information from PF-4B and EA-6B aircraft (via the Imagery Interpretation and TERPES segments of MAGIS); signal intelligence sources; and ground intelligence reports. The IAC is composed of one ADP/Comm shelter and either one (division/wing), or two (MAF) analyst shelters.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0	4	64.0	2	4.1

Basis for FY 1983 Request: FY 83 funding will provide 71% of the inventory objective. Delay of funding will escalate system cost due to manufacturer's restart cost and will delay Full Operational Capability (FOC) 20 months.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 126

Nomenclature: AN/UYQ-3A Air-Mobile Direct Air Support Center (DASC)

Mission/Description: The Air-Mobile DASC AN/UYQ-3A is a transportable shelter equipped to control and coordinate the employment of aircraft in the close support of ground combat forces. The DASC typically operates directly under the Tactical Air Command Center (TACC) or supplements the capabilities of the larger fixed DASC in a Marine Air Wing (MAW). There are seven operator positions within the DASC. Each position may select voice radio communications consisting of three ultra-high frequency (UHF) transceivers, one very high frequency (VHF) transceiver, two high frequency (HF) transceivers, two remote HF antenna couplers, encrption/decrption devices, intercommunications systems, field telephone ring and answer circuits and six remote radio selections.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	0	0.0	3	3.1

Basis for FY 1983 Request: 1. Current established inventory objectives (I/O) for the DASC is prescribed at 11 systems. The present inventory has eight systems for operational and training requirements and no secondary support or depot maintenance service spares. Procurement of three additional systems will align the Acquisition Objective (A/O) with the I/O and provide the reserves component with a T/E identical to the as active units and the depot maintenance support required to maintain the systems.

2. There is a modification program currently in progress at Sacramento Air Depot, Sacramento, CA., which is modifying 6 AN/UYQ-3 systems to be compatiable with current radio and crypto devices and extension of service life through 1990. This program will be near completion during December 1982, several months ahead of previous schedules. Continuation of the production effort to build 3 additional systems will result in substantial savings normally associated with start-up costs, i.e.: appointing new engineering staff due to movement to other programs, learning curve of new staff, lead time for parts procurement, etc.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 127

Nomenclature: Radar Set, AN/TPS-59

Mission/Description: The AN/TPS-59 represents the state of the art in applied solid state tactical radar technology. It is a lightweight, transportable, long range, solid state, three dimensional phased array radar. It is designed primarily to provide long range air defense surveillance of a tactical air space to the Tactical Air Operations Center (TAOC). Its detectability, tricoordinate accuracy, console readouts and control capabilities fulfill the requirements of autonomous buildup or backup ground intercept mission along with a third mission of air traffic control. Further, methodology utilized in development of control and information algorithms for the AN/TPS-59 represents the best energy management philosophy in application today. The signal discrimination techniques used give the AN/TPS-59 a very advanced Electronic Counter Counter Measure (ECCM)) capability. Such ECCM features as frequency agility, low antenna sidelobes, constant false alarm rate. (CFAR) processing, pseudo-random pulse repetition rate (PRF) and coded quasi-random wave-forms decrease the vulnerability of the system to hostile ECM operations. The AN/TPS-59 will be the primary long range radar surveillance sensor for USMC combat forces for the next 15-20 years. A First Article production system, one of eleven AN/TPS-59's being procured under a multi-year production contract with General Electric Co, was procured with FY79 PMC funds and will be delivered to the Marine Corps during Sep 1982.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0.0	0	0.0	10	126.3

Basis for FY 1983 Request: This procurement provides assets to all Marine Air Control Squadrons (MACS), Marine Corps Comm-Elec School (MCCES), and Support Activities (CLB, Barstow/MCTSSA and fulfills the Inventory Objective.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 131

Nomenclature: Team Portable Direction Finder (TPDF) (AN/GRA-( ))

Mission/Description: The Team Portable Direction Finder (TPDF) is a DF system designed to operate in forward areas to determine enemy location and movement. It will replace the Antenna Group AN/GRA-94 and Mobile Direction Finder, AN/MRD-18, both of which have exceeded their useful life and are uneconomical to rebuild or product-improve. The TPDF will feature automated tuning and searching by the intercept operator, and automated calculation of lines of bearing. The receiver portion will also have the capability to store frequencies which are to be either targeted or skipped.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0	9	4.5	14	4.0

Basis for FY 1983 Request: This procurement completes procurement for the two active radio battalions, and for one MPS brigade.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 132

Nomenclature: Automatic Atmospheric Sounding Set (FAMAS) AN/TMQ-31

Mission/Description: The FAMAS AN/TMQ-31 is a highly mobile, automated meteorological acquisition and data processing system, which will replace the AN/GMD-1 RAWIN Set, the nonradiating, computer controlled, ground station acquires meteorological data from a balloon borne radiosonde (transmitter), prepares STANAG formatted messages, and distributes real time meteorological information to users via integral communications devices. Meteorological data is necessary for correcting artillery fire, weather forecasting, NBC operations, and land tactical decision making.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
-	-	4	3.3	6	4.5

Basis for FY 1983 Request: The FY 1983 program will procure to the inventory objective of 16. The FY 1983 procurement will be the first year option of the U.S. Army's sole source FY 1982 limited production contract. U.S. Forces must discontinue the use of the RAWIN Set in Europe in 1984 because of interference with other systems.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 137

Nomenclature: Night Vision Goggles, Individual AN/PVS-5A

Mission/Description: The Night Vision Goggle, AN/PVS-5A, is a lightweight, head mounted image intensifying passive binocular which allows the operator to perform tasks at night or under low light level conditions. They permit the user to continuously view a large area of terrain for night reconnaissance and surveillance patrol operations while leaving both hands free to handle a weapon, drive a vehicle, operate equipment, or observe from helicopters. The built-in infrared light source provides additional illumination for reading maps and messages, treating wounds, or other close-in tasks.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
799	4.4	732	5.2	2174	16.9

Basis for FY 19BY Request: The FY 1983 program is for continued procurement of the night vision goggle, AN/PVS-5A, toward an inventory objective of 5819. Total procured through FY 1983 will be 5499. The FY 1983 procurement will be for the USMC only. The minimum sustaining production rate is 2000 per year. Should the FY 1983 request be denied, the Marine Corps ability to conduct more realistic, efficient and effective night operations would be curtailed.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 139

Nomenclature: Night Vision Sight TVS-5

Mission/Description: The AN/TVS-5 is a portable, battery-operated, electro-operated instrument used for observation and aimed fire of weapons at night. It amplifies reflected light such as moonlight, starlight, and skyglow so that the viewed scene becomes clearly visible to the operator. The sight does not emit visible or infrared light that could be detected by the enemy. It is used on the M2, M85, MK-19 machine guns and M1 recoilless rifle. Mounting brackets are provided for each type weapon. The sight may also be used as a tripod mounted observation device.

Cost Data: (Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
127	.4	186	.6	724	2.4

Basis for FY 1983 Request: The FY 1983 AN/TVS-5 Night Vision Sight program is for the procurement of night sights for the M2 .50Cal and MK 19 machine guns in the infantry battalions thus providing these units increased capability to effectively fire these machine guns at night. Should the FY 1983 request be denied, the potential fire power of these machine guns at night will not be realized and the combat power of these units will be reduced.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 140

Nomenclature: TOW Night Vision Sight, AN/TAS-4

Mission/Description: The AN/TAS-4 and ancillary support equipment provides a long range lightweight, passive night vision sight for TOW Guided Missile System. The night sight provides a day/night capability to detect, recognize and identify armored vehicles. It is mechanically attached to the top of the TOW optical sight.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
87	9.7	334	17.1	458	24.4

Basis for FY 19BY Request: The FY 1983 program includes 23.4M for the procurement of 458 TOW night sights to finalize night sight buys to support TOW systems currently in the inventory and to support additional requirements for new TOW platoons and the Modular Universal Laser System (MULE).

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 141

Nomenclature: DRAGON Weapon Night Sight, AN/TAS-5

Mission/Description: The night vision sight was designed for use during daylight periods of limited visibility such as smoke or fog and during periods of darkness. The night vision sight is comprised of a basic sight assembly, and infrared receiver, and electronics control package, and a firing mechanism. The basic sight assembly is powered by a rechargeable battery pack and coolant cartridge. The night vision sight basic sight assembly is a passive device that receives heat emissions (infrared energy) from a target that is descernable from its background. The sight converts this infrared energy to electrical signals and then to visible light and displays the visible light for viewing by the gunner. The infrared receiver, electronics control package and firing mechanism operation, along with missile control and guidance is the same as the day tracker. System parts interchangability is enabled by utilizing same guidance schene as the day tracker.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
120	5.8	314	17.2	5	1.4

Basis for FY 19BY Request: The FY 1983 program includes 1.4M for the procurement of 5 dragon night trackers, AN/TAS-5. This purchase will bring Marine Corps assets to 9% of acquisition objective. All dragon night trackers will be fielded commencing 1st quarter, 1984.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 142

Nomenclature: Laser, Infrared Observation Set, AN/GVS-5

Mission/Description: The Laser, Infrared Observation Set, AN/GVS-5, is a binocular-like device used for observation and target acquisition, particularly the accurate determination of the range to a given target. The AN/GVS-5 employs a 1.06 micron niodynium YAG laser and weighs approximately 5 pounds.

The AN/GVS-5 will permit accurate target location by supporting arms observers and fire controllers, reconnaissance and intelligence personnel; battle area mapping by tactical commanders; and limited survey-type operations where range determination is required.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0	378	2.6	1028	8.9

Basis for FY 1983 Request: The FY 1983 program is for continued procurement of the AN/GVS-5 toward an inventory objective of 2276. The total procurement through FY 1983 will be 1456. Should the FY 1983 request be denied the Marine Corps ability to more accurately and effectively locate targets will be curtailed.

PROCUREMENT, MARINE CORPS
Other Communications Data Sheet

Service: Marine Corps

P-1 Line Item: 143/144

Nomenclature: Modular Universal Laser Equipment, AN/PAQ-3 (MULE)

Mission/Description: The Modular Universal Laser Equipment (MULE) is a man-packed, battery operated, multi-functional modular device designed to provide forward observers the capability to accurately determine location and range of military targets and for designation of targets for each tracker equipped aircraft and terminal homing munitions. The MULE consists of three basic modules. The Laser Designator Rangefinder Module (LDRM) contains the basic laser designator and ranging mechanisms and can be utilized in a hand-held mode for ranging and designating. The Stabilized Tracking Tripod Module (STTM) provides the stabilization necessary for tracking moving targets and target vertical angle relative to the LDRM. The North-Finding Module (NFM) provides a true North reference to an accuracy of ± 2 mils.

Cost Data:

(Millions of Dollars)

	FY 1981		FY 1982		FY 1983	
	Qty	Amt	Qty	Amt	Qty	Amt
MULE	0	0	40	21.2	120	35.2
Advance Procurement (CY)						12.6

Basis for FY 1983 Request: The FY 1983 program is for the procurement of the MULE toward an inventory objective of 414. The FY 1983 procurement will complete an initial issue to two NATO oriented MAF's. Should the FY 1983 request be denied, the Marine Corps ability to accurately locate targets for improved conventional munitions and designate targets for laser homing munitions, will be seriously curtailed. The MULE program is under a multi-year contract that utilitizes the expanded advance procurement technique which results in a cost avoidance of $5.5 million or 7.0% of the current program cost for the FY1982, FY1983 and FY1984 programs.

PROCUREMENT, MARINE CORPS
Tactical Vehicle Data Sheet

Service: Marine Corps

P-1 Line Item: 155

Nomenclature: Truck, 5/4-Ton High Mobility, 4x4

Mission/Description: The 5/4-Ton Truck is a high mobility multi-purpose wheeled vehicle (HMMWV). Utilizing a common chassis, this vehicle will be configured to meet multi-mission roles to include Command and Control, TOW Weapons Platform, Communications, and Personnel Carrier. It will be utilized in Marine Divisions, Force Service Support Groups and Marine Aircraft Wings.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983	
Qty	Amt	Qty	Amt	Qty	Amt
0	0	0	0	1378	40.4

Basis for FY 1983 Request: With exception of the recent FY 81/FY 82 acquisitions, the current 1,4 ton thru 1-1/4 ton vehicle fleet have reached the end of their life cycle and have become difficult to maintain. The HMMWV, utilizing a common chassis, will provide standardization and commonality of parts. This creates the opportunity for associated reduction in maintenance personnel required and training. This vehicle will replace the current M151 Jeep and the M561 Gamma Goat in the Fleet Marine Force in all their present derivations including all 1/4 ton to 1-1/4 ton general purpose trailers.

Contract Data: This item will be procured in conjunction with a U.S. Army buy, with the manufacturer to be selected in the spring of 1982. The Marine Corps will procure these vehicles by MIPR through the U.S. Army.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	0	0	1378	2409

Inventory Objective: 16275

	End FY 1981 FDP	End FY 1982 FDP	End FY 1983 FDP
Force Units	0	0	0
Inventory Objective	16275	16275	16275
On Hand/On Order	0/0	0/1378	1378/2409
% Inventory Objective Achieved	0%	0%	8%

PROCUREMENT, MARINE CORPS
Tactical Vehicle Data Sheet

Service: Marine Corps

P-1 Line Item: 157

Nomenclature: Aircraft Crash/Fire/Rescue Vehicle (A/32P-4C)

Mission/Description: This Crash/Fire/Rescue Vehicle is a one thousand gallon capacity, highly mobile, four wheel, four wheel drive, diesel powered truck capable of being driven on and off C-130 aircraft. It is equipped with a roof turret system, a bumper turret system (optional) and is capable of dispensing aqueous film foam; water, and or a halon extinguishing agent. This vehicle is designed to operate efficiently on fixed and forward active airbases worldwide for the purpose of providing quick responsive fire suppression for aircraft fires and rescue of entrapped personnel.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
4	.9	49	10.6	16	3.7	15	3.7

Basis for FY 1983 Request: The current MB-1 and MB-5 C/F/R vehicles have reached their terminal age and are becoming extremely difficult to maintain. The A/32P-4C is a MilStd designed C/F/R and as such fills the mission requirements. This vehicle will become the standard C/F/R vehicle for use in Fleet Marine Force aviation units.

Contract Data: This item will be procured in conjunction with a U.S. Air Force buy, with the manufacturer to be selected at a later date. This is a joint program with program management and program execution defined in a Memorandum of Agreement (MOA) between the Chief of Staff of the Air Force and the Commandant of the Marine Corps. The Marine Corps will procure this vehicle by MIPR through the U.S. Air Force in accordance with the provisions of the MOA.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	4	49	16	15

Inventory Objection: 114

	End FY 1981 FDP	End FY 1982 FDP	End FY 1983 FDP
Force Units	0	0	0
Inventory Objective	114	114	114
On Hand/On Order	34/49	83/16	99/15
% Inventory Objective Achieved	30%	73%	87%

PROCUREMENT, MARINE CORPS
Tactical Vehicle Data Sheet

Service: Marine Corps

P-1 Line Item: 158

Nomenclature: Truck, Dump, 5-Ton, M929

Mission/Description: The M929 is a product improved 5-ton, 6x6, dump truck. It is used to transport sand, gravel, earth and various other types of material on all road types and traverse cross-country terrain. The dump body can also be used as a regular cargo carrier or, when equipped with a special purpose troop seat kit, as a personnel carrier. It is utilized in Marine Divisions, Force Service Support Groups and Marine Aircraft Wings.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
0	0	92	7.6	80	7.0	53	4.9

Basis for FY 1983 Request: The current 5-ton dump truck has reached its terminal age and is becoming difficult to maintain. The M929 is a product improved vehicle within the M939 series 5-ton tactical trucks and as such offers a standardization and commonality of parts. This commonality creates the opportunity for associated reduction in maintenance personnel required and training.

Contract Data: The Marine Corps procures this vehicle by MIPR through the U.S. Army. The manufacturer is AM General.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	0	92	80	53

Inventory Objective: 935

	End FY 1980 FDP	End FY 1981 FDP	End FY 1982 FDP
Force Units	0	0	0
Inventory Objective	935	935	935
On Hand/On Order	0/0	93/60	173/53
% Inventory Objective Achieved	0%	10%	19%

PROCUREMENT, MARINE CORPS
Tactical Vehicles Data Sheet

Service: Marine Corps

P-1 Line Item: 159

Nomenclature: Truck, Tractor, 5-Ton, M931

Mission/Description: The M931 is a 5-ton product improved 6x6 truck tractor. It is used as the prime mover for semi-trailers M172, M127, M970 and the M870 40-ton low bed. It is utilized in Marine Divisions, Force Service Support Groups and the Marine Air Wings.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
132	8.3	67	4.5	18	1.4	0	0

Basis for FY 1982 Request: The current 5-ton tractor truck has reached its terminal age and is becoming difficult to maintain. The M931 is a product improved vehicle within the M900 series of 5-ton tactical trucks and as such offers a standardization and commonality of parts. This commality creates the opportunity for associated reduction in maintenance personnel required and training. This vehicle will also be utilized to fill a current void in the Field Logistic System.

Contract Data: The Marine Corps will procure this vehicle by MIPR through the U.S. Army.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	132	67	18	0

Inventory Objective: 1164

	End FY 1981 FDP	End FY 1982 FDP	End FY 1983 FDP
Force Units	0	0	0
Inventory Objective	1164	1164	1164
On Hand/On Order	179/67	246/18	264/0
% Inventory Objective Achieved	15%	21%	23%

PROCUREMENT, MARINE CORPS
Tactical Vehicle Data Sheet

Service: Marine Corps

P-1 Line Item: 160

Nomenclature: Truck, Cargo, 5-Ton M923

Mission/Description: The M923 is a product improved 5-ton, 6x6 cargo truck. It is used to transport general cargo and personnel on all road types, traverses cross-country terrain, and fords to a depth of 78 inches. They are utilized in Marine Division, Force Service Support Groups, and the Marine Air Wings.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
1131	70.3	689	48.5	842	63.8	580	47.7

Basis for FY 1983 Request: The current 5-ton and 2 1/2 ton vehicle fleets have reached their terminal age and are becoming difficult to maintain. In this regard, the Marine Corps has studied the feasibility of using smaller number of higher capacity vehicles as part of the Field Logistics System. The M923 is a vital part of this system. This vehicle will fill part of the requirement, yet offer a reduction in the total number and variety of vehicles required. Reducing the quantity and number of types of vehicles in the Marine Corps inventory creates the opportunity for associated reduction in operators and maintenance personnel required, and training.

Contract Data: The Marine Corps will procure this vehicle by MIPR through the U.S. Army. The manufacturer is AM General.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	1131	689	842	580

Inventory Objective: 6189

	End FY 1981 FDP	End FY 1982 FDP	End FY 1983 FDP
Force Units	0	0	0
Inventory Objective	6189	6189	6189
On Hand/On Order	1807/689	2496/842	3338/580
% Inventory Objective Achieved	29%	40%	54%

PROCUREMENT, MARINE CORPS
Tactical Vehicles Data Sheet

Service: Marine Corps

P-1 Line Item: 162

Nomenclature: Truck, Cargo XLWB, 5-Ton, M928

Mission/Description: The M928 Tactical Truck is an extended bed 5-ton vehicle. It is designed to carry oversize heavy loads of cargo over long distance in every climate and rugged cross-country terrain. Additionally, it is used to transport the HAWK Missile in the LAAM Battalion and in supporting units.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
15	1.0	59	4.5	99	8.1	76	6.7

Basis for FY 1983 Request: The current 5-ton and 2 1/2 ton XLWB vehicles have reached their terminal age and are becoming difficult to maintain. The M928 is a product improved vehicle within the M939 series 5-ton tactical trucks and as such offers a standardization and commonality of parts. The commonality creates the opportunity for associated reduction in maintenance personnel required and training.

Contract Data: The Marine Corps will procure this vehicle by MIPR through the U.S. Army. The manufacturer is AM General.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	15	59	99	76

Inventory Objective: 284

	End FY 1981 FDP	End FY 1982 FDP	End FY 1983 FDP
Force Units	0	0	0
Inventory Objective	284	284	284
On Hand/On Order	28/59	87/99	186/76
% Inventory Objective Achieved	10%	31%	65%

PROCUREMENT, MARINE CORPS
Tactical Vehicle Data Sheet

Service: Marine Corps

P-1 Line Item: 164

Nomenclature: Logistic Vehicle System

Mission/Description: The Marine Corps Logistics Vehicle System (LVS) is a family of combat support and combat service support vehicles that has been designed to replace overage Table of Equipment (T/E) deficient, dedicated prime movers, shop sets, trailers, and vans with a powered tractor and interchangeable rear body units. It will potentially serve as the prime mover for the Marine Corps direct support artillery weapon, the M198 M155mm towed howitzer and provide the principal logistics wheeled vehicle support to the Marine Corps Field Logistics System (FLS). The LVS consists of a 16-ton class high mobility articulated diesel-engine driven tractor (prime mover) and four interchangeable, powered rear body units. These rear units are as follows: (1) a logistics trailer unit which is 22.5-ton capacity cargo carrier designed to transport dimensionally standard 8'x8'x20' containers, shelters and modules: (2) a recovery trailer unit (wrecker) designed to recover all vehicles of the motor transport fleet; (3) a fifth wheel rear unit designed to interface with a 70-ton heavy equipment transporter semitrailer; (4) an 8' x16' oropside cargo trailer with crane designed for M198 155mm towed howitzer units.

Cost Data:

(Millions of Dollars)

FY 1981		FY 1982		FY 1983		FY 1984	
Qty	Amt	Qty	Amt	Qty	Amt	Qty	Amt
0	0	230	20.0	344	28.2	270	24.5

Basis for FY 1983 Request: LVS vehicles will replace current oversize, overage, degraded, Table of Equipment deficient logistics vehicles such as the M123 10-ton truck tractor and the M127 12.5-ton semitrailer. Additionally, they will be utilized as the prime movers of the M198 in lieu of the marginally capable M923 5-ton truck. Logistics vehicles will use commercial componentry, state-of-the-art technology and will be dimensionally standardized to optimize containership use. They will be helicopter (CH 53E) and fixed wing (C-130) transportable. Because of their unique six-rod suspension system, articulated joint, and Ackerman steering features, they will provide enchanced cross-country mobility.

Contract Data: The Marine Corps will procure this vehicle by MIPR through the U.S. Army. The manufacturer will be Oshkosh Truck Corporation, Oshkosh, Wisconsin.

Production Data:	FY 1981	FY 1982	FY 1983	FY 1984
Funded	0	230	344	270

Inventory Objective: 4256

	End FY 1981 FDP	End FY 1982 FDP	End FY 1983 FDP
Force Units	0	0	0
Inventory Objective	4256	4256	4256
On Hand/On Order	0/90	230/344	574/270
% Inventory Objective Achived	0%	5%	13%

ANALYSIS OF UNOBLIGATED BALANCES - FY 1983 PROGRAM
SUMMARY BY CATEGORY

Category	Estimated Unobligated Dollars (Millions)	Estimated Unobligated % of Total Unobligated
1. Engineering Changes	136.3	16.9
2. Difficulties in Contract Definition	212.8	26.5
3. All other (includes price changes, insufficient response to invitations for bids, manual and drawing changes, technological advances overriding specifications cited in previous i- tations for bids, etc.)	456.1	56.6
Total unobligated FY 1983	805.2	100%

EXPLANATION BY CATEGORY

The above estimates of unobligated balances for the FY 1983 program by category were derived based on pervious experience for first year programs.